

Certificate of Green Audit by External Agency



"LET'S GO GREEN TOGETHER....."

Date -25/02/2022

Dr. Prashant A. Banne, M.Sc. Ph.D. (Environmental Science)

- CEO & Managing Director, SAITECH Research & Development Organisation
- External Faculty, PCRA, Under petroleum Ministry, Govt. of India
- EIA Coordinator, accredited by NABET, Quality Council of India

Expert Opinion

Environmental changes are caused by inequitable and unsustainable production and consumption patterns that aggravate poverty in many regions of the world. We believe that urgent actions are needed to address these fundamental problems and reverse the trends. Stabilization of human population, adoption of environmentally sound industrial and agricultural technologies, reforestation, and ecological restoration are crucial elements in creating an equitable and sustainable future for all humankind in harmony with nature.

The activities pursued by colleges can create a variety of adverse environmental impacts. Colleges and Universities have broad impact on the world around them, both negative and positive. But colleges are also in the unique position as educational institutions to be leaders in pursuing environmentally sustainable solutions.

Green Audit can be defined as systematic identification, quantification, recording, reporting & analysis of components of environmental diversity. The term "Green" means eco-friendly or not damaging the environment. The green audit practically involves energy conservation, use of renewable sources, rain water harvesting, efforts of carbon neutrality, plantation, hazardous waste management & E-waste management.



SAITECH RESEARCH AND DEVELOPMENT ORGANISATION

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"LET'S GO GREEN TOGETHER....."

This document presents a proposal for both the process and the content of an environmental assessment of Yashwantrao Chavhan Warana Mahavidyalaya /College (YCWM). The process involves the formation and deliberation of assessment teams, each consisting of a group of knowledgeable stakeholders within the campus community. This report serves to highlight YCWM's many accomplishments, and to make recommendations for improving the College's environmental sustainability.

The Environmental or Green audit report is prepared by Dr. Vilas S. Patil and his faculty associates at YCWM, Warananagar with support from, Hon. Chairman saheb. Hon. Administrative Officer of Shree of Warana Shikshan Mandal, Warananaga, Hon. Principal of YCWM & various stakeholders of Shree Warana Shikshan Mandal, Warananagar. I would like to extend my special appreciation for the amazing work done by Dr. Vilas S. Patil on the Green Audit project. Seeing their diligence, self-motivation and focus has been a source of motivation for the rest of the team, as we see a positive approach in the college.

Besides that, this assignment was done by Dr. Vilas Patil and his team, is not just about providing opportunities for student learning and growth, it was about an obligation to exercise leadership in promoting environmental sustainability, environmental awareness and commitment that leads to action, that leads to transformation and change. They have studied and presented their efforts in this report. This is not only for the institution itself, but just as importantly to be a role model institution for others to emulate and bring the environmental concerns and related mitigating measures to centre stage of Green campus life which extend locally, regionally and beyond.

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The overall goals of this project are four-fold:

- To introduce students to the tools of investigation and the process of quantification of resource use and sustainability using the YCWM Campus as a study site
- To analyze various resource use patterns and levels of resource use on the Campus
- To establish a baseline to assess future sustainability work.
- To identify and catalogue existing efforts to make the College a more environmentally sustainable institution of higher learning.

To accomplish these four objectives, they have to analyze resource use and the campus environmental impact through a series of environmental or sustainability lenses. YCWM College needed to conduct an audit, in order to judge how they are using their resources and if they can use them more efficiently.

YCWM is the multi faculty college (Arts, Commerce & Science), and expresses its commitment to sustainability in many ways. It has taken a number of positive steps to reduce its environmental impact. But many areas remain in which substantial improvements can be made. The environmental aspect has studied the practices of the college regarding solid waste management, water and wastewater management, energy usage and pollution and Green campus maintenance. It may also examine the eco-friendly initiatives of the college.

It is observed that-

- Establishing an environmental policy statement indicating the commitment of the Institute towards improving its environmental performance.
- Evaluation of compliance with respect to applicable legal requirement.
- Increase visible communication on environmental issues.

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- Effective use of notice boards and signs.
- Plantation inside the college premises is found well maintained.
- The college undertakes various activities through NCC NSS like beautification, water and power management awareness.
- Baseline data generation for Air, water energy (in all forms electricity, fuel) and waste.
- Data management and analysis of trends with respect to energy consumption, water consumption waste water generation, solid waste generation (stream wise).
- Program on rain water harvesting has been taken up, the project is under progress.
- Establishing improvement objectives for reducing energy consumption water consumption and fuel consumption.
- Identification of improvement initiatives prioritization and rollout of suitable projects.
- Ensuring effective implementation of such projects to attain set environmental goals
- **449.28 KW SOLAR POWER PACK PLANT**-The management installed 449.28 KW solar power pack plant on roof of science building which comprising 1452 nos. of solar panels of 320W inverter and associated all equipment's. Out of 1452 solar panels of power pack project 484 placed on YC science building which generate 150.04 KW energy. The material and associated equipment's installation cost of above project is 2,69,77,500/- (Rs.) and came in force on 21st February 2019. Solar power pack plant in duration of March 2019 to May- 2022 of 39 month in which total electricity consumption in campus 1950818 units, electricity generated by Solar power pack plant is 1627189, electricity imported from Mahavitrans is 537059 units and power bank in account of Shree Warana Shikshan Mandal is 213430 units. In the duration of 39 months actual electricity units are payable are 323629 units out of it the of YCWM college is nearly around the 32563 units. The use of the electricity was is minimized than first phase of energy audit.

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- College has green campus of 27 acres, efforts have been made on to bring part of land under cultivation of medicinal plants as well as other productive plants through NSS , NCC students ,Seniors students , teaching and nonteaching staff in college. In campus total 5623 tree of 152 varieties are present in which 3296 are trees, 1622 are shrubs, 668 are herbs and 37 are climbers.
- **Nature Based Wastewater Treatment System**-Parker LORD company funded, installed in campus and handover the '**Nature Based Wastewater Treatment System**' shortly Nature Based WWTPs, on 14th Noveber 2022. Its cost is more about 45 lakhs, which purify the water about 150-200 KLD (Kilo liters per day) i.e nearly 1,50,000-2,00,000 liters per day. The Centre for Environmental Research & Education (CERE), Mumbai and **National Solutions**, Mumbai. Which recycle the campus drain water up to drinking standard level, but in campus that recycled water from system used for watering garden, washing and cleaning purpose.

Recommendations-

- A mechanism needs to be developed to identify the various environmental aspects & the Impact arising from the activities of the institute. This will enable the college to map itsvarious resources usage and waste streams, in accordance with the same control measures could be developed and implemented.
- College needs to develop a monitoring & measurement program for resources (waterelectricity, LPG & fuel)
- Consumption efficiency by
 - (a) evaluating current consumptions,




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- (b) setting timebased reduction targets,
 - (c) action plan to achieve the same with defined responsibilities,
 - (d) periodic review of effectiveness of actions implemented.
-
- Suitable communication by means of banner, posters, one point lesson can be displayed at vantage location to create awareness among all stakeholders.
 - Student's community may be involved in small groups for different environmental improvement projects within the college as well outside the college boundary.
 - The cleanliness of the common room for students and some of the classrooms found inadequate.
 - Participation and involvement of the students can be improved by college event on pertinent days such as world environment day, earth day. World Water day etc.
 - Waste Water reuse and recycle opportunities have not been explored.
 - The college may take initiative for community plantation programme by involving students to offset the GHG emission,
 - College needs to develop an emergency preparedness plan: Signage indication emergency evacuation layouts, routes and assembly area are not implemented.
 - Stakeholder awareness on emergency preparedness needs to be improved.
 - Infrastructure for firefighting needs to be reviewed periodically by experts.
 - First aid room is not maintained in proper condition and register for monitoring periodically is maintained.
 - Waste Generation & Management -
 - E-waste and glass wastes generated from office IT and Science labs are handled through authorized service provider.
 - The Chemistry, Botany and Zoology laboratories are using a number of hazardous chemicals (e.g.-mercuric chloride, formaldehyde, butyl alcohol etc). The Department needs to identify all the hazardous chemicals and necessary

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communication dos and don'ts to minimize environmental and health impact by the user from the MSDS.

- Presently solid waste disposal process is done in unorganized basis. The collection of waste is done from the campus on as and when required basis and the solid waste disposed through only by recognized technologies like vermicomposting, decomposition etc
- The college has not yet taken any initiative for carbon accounting .
- Plantation program has been initiated inside the campus.
- Adequate awareness program amongst the students and other stakeholders (faculty other staffs, service providers etc) needs to be organized for proper solid waste disposal.
- The college may start proper communication with the local body for regular collection of solid waste from the campus. Various wastages like used tube lights, plastic bottles were observed on ground behind the common room.
- College needs to prepare & implement a waste handling & disposal procedure with clear identification for different type of wastes Disposal area for different types of waste need to be earmarked.
- The college does not have a waste collection system with proper segregation. The college may introduce waste collection bins with different colour code for biodegradable and non-biodegradable waste for source segregation with adequate signage.

Water Conservation-

- The college has not yet introduced any water consumption monitoring within the college campus. The authority may install flow meter at the intake point and generate water consumption pattern.
- The detailed layout of water dispensing taps is not available presently.

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- The college may compare the water consumption from the measured data with WHO guideline, to chalk out water conservation measures for continual improvement.
- College needs to evaluate its water consumption efficiency by suitable monitoring of-
 - (a) input from IRRIGATION DEPARTMENT
 - (b) Quantity of water supplemented by rain water harvesting which is under implementation
 - (c) operational control to reduce wastage in toilets & canteens,
 - (d) identification & stoppage of leakages in pipelines.
- Float valve operated auto shut off switch may be installed for pump sets used for overhead tank filling.
- Washing waste water from canteen & kitchens needs to be suitably controlled to prevent residual food waste contaminating the storm water drains.
- The college doesn't have waste water treatment unit for the waste water generation from different chemical laboratories for the proper treatment. Effluent Treatment Plant (ETP) may be installed.
- The college has taken initiative for rain water harvesting Presently rainwater from college roof is being collected in college well and used for gardening Study on measurement of water quantity from the rain water harvesting should be required.

Energy Conservation & Efforts on Carbon Neutrality-

- Assessment of electrical load calculation is not yet done by the college.
- The college may assess the equipment rating to have the baseline data for assessing energy consumption pattern.
- Maximum numbers of electrical fans are found of older generation & non-energy efficient. The college may develop a phase out plan of the same by replacing with new energy efficient fans.



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- High energy consuming Incandescent lights and fluorescent lights are found in use. The college may plan for long term phase out plan of the same with less energy consuming LED or CFL lights.
- Many classrooms are found unoccupied while fans & lights are operational. Automation or time control mechanism may be explored.
- The communication process for awareness in relation to energy conservation found inadequate.
- The college is having considerable area in the roof top, a cost benefit analysis may be done for installation of solar panel to reduce carbon footprint. College needs to explore the usage of renewable energy sources like solar panels for lighting & water heating, Electricity generation from Wind mills etc.
- The college may account the carbon foot print from per capita energy consumption and other means of GHG emission. Based on the baseline data the college may set target and program to reduce carbon foot print.

Hope that the results presented in this report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as was spawn new initiatives and innovative practices. However, there is scope for further movement, particularly in relation to waste minimisation and energy monitoring. By implementing a basic environmental management system, current good practice could be formalized and a framework could be set up for implementation of action plans and continual improvement.

Thanks and Regards



Yours Sincerely,
Dr. Prashant A. Banne (CEO & Managing Director)

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Energy Audit Certificate



"LET'S GO GREEN TOGETHER....."

Date-25/2/2022

To,

Hon'ble Principal,

Yashwantrao Chavhan Warana Mahavidyalaya,
Warananagar

Subject: Energy Audit: Expert Opinion regarding...

Respected Sir,

We have carried out the Energy audit for the purpose of environmental Consciousness.
Some of aspects related to energy is highlighted below:

- Green Audit can be defined as systematic identification, quantification, recording, reporting & analysis of components of environmental diversity. The term "Green" means eco-friendly or not damaging the environment. The green audit practically involves energy conservation, use of renewable sources, rain water harvesting, efforts of carbon neutrality, plantation, hazardous waste management & E-waste management.
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accomplishments, and to make recommendations for improving the College's environmental sustainability.

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Implementation:

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Recommendations:

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Hope that the results presented in this report will serve as a guide for educating the college community on the existing environment related practices and resource usage at the college as was spawn new initiatives and innovative practices. However, there is scope for further movement, particularly in relation to waste minimisation and energy monitoring. By implementing a basic environmental management system, current good practice could be formalized and a framework could be set up for implementation of action plans and continual improvement.

Thanks and Regards

Yours Sincerely,



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- EIA Coordinator, accredited by NABET, Quality Council of India

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**Yashwantrao Chavan Warana Mahavidyalaya,
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Fire and Safety Audit Report
in
Academic Year- 2022

Prepared by-

Mr.Vilas.S.Patil - Coordinator

Fire and Safety Audit Committee (2021-22)

Assistant Professor, Department of Physics,

**Yashwantrao Chavan Warana Mahavidyalaya,
Warananagar.**

Fire and Safety Audit Report- 2021-2022

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**Fire and Safety Audit Report
in Year 2022.**

**Fire and Safety Audit Committee
(2021-22)**

- **Mr.Vilas S. Patil - Coordinator,
Fire and Safety Audit Committee.**

Fire and Safety Audit Committee (2021-22)

Dr. S.S.Khot,	-Member	Dr.R.P.Kavane.	-Member
Prof. M.N.Patil.	-Member	Prof. A.K.Ladgaonkar.	-Member
	Prof. Miss. P. A. Mitari-	Member	

Year- 2022

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Coordinator,
Fire and Safety Audit Committee.

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agency of Maharashtra Govt. Fire Services

Photo Assistance Shubham K. Kumbhar (Alumni)



Hon. Principal, Dr. A.M. Shaikh.

Y.C. W. M. Warananagar.

Acknowledgement

In order to organize conscious, planned and determined efforts, in order to improve fire prevention, life safety and fire protection measures in the premises of Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, under the able leadership of Hon'ble Dr. Vinayravgi Kore (Savkarsaheb), Chairman, Shree. Warana Vibhag Shikshan Mandal, Warananagar, Who took a significant decision for Fire and life Safety auditing of YCWM campus, was one step ahead for strengthening the fire-safety of premises.

The fire and life safety audit report are to document the facility of fire protection and life safety necessities in the building campus. This report would serve as a useful reference to fire safety stakeholders of the institute.

The auditing team will investigate the fire safety situation of the required selected YCM campus thorough safety audit regarding the Fire prevention control system, Electrical systems, emergency preparedness, evacuation system and safety management etc.

I am thankful to the team of M/S. Sandeep Fire Services, Manufacturer and suppliers for fire and safety equipment, ISO 9001-2015 company, which is authorized license agency of Maharashtra fire services giving for valuable inputs that have added immense value to the contents of this report.

I also thankful to Mr. Vilas S. Patil and all the members of the fire and Safety committee of our college for taking hard efforts and working according to inputs and guidance of the M/S. Sandeep Lalasaheb Khatmode.

I express my sincere gratitude to all the members of the fire and Safety committee, the team of the M/S. Sandeep Fire Services, all HOD, teaching faculties and non- teaching staff of college for spearheading this initiative and making Hon'ble chairman's vision of life prevention and safety into a reality

I am happy to acknowledge the support and cooperation extended by Honorable Prof. Dr. Rasam Madam. Administrative Officer of our institute for completion of this audit and publication of this report.

Hon. Principal, Dr. A.M. Shaikh.

Y.C. W. M. Warananagar.



Mr. Vilas Shamrao Patil.

Coordinator, Fire and Safety Audit Committee,
Assistant Professor,
Department of Physics, Y.C.W.M. Warananagar.

Foreword

According to directions issued in the committee meeting on 2 July there necessary, to undertake the Fire and Life Safety Audits of our college premises. In compliance to this audit. A Safety Audit Committee was constituted by Central Electricity Authority vide Office Order under the provision fire prevention and life safety measure Act 2006 and abatement of 2007 we appoint M/S. Sandeep Fire Services, Manufacturer and suppliers for fire and safety equipment, ISO 9001-2015 company, which is authorized license agency of Maharashtra fire services in July 2022.

Physical Safety Audit of premises was carried out during the months of August 2022 to November 2022. The detailed Safety Audit Reports with emergency plan was shared to the stake holders of college through website publication. It is worth mentioning that Committee has carried out the Fire and life safety audit task within the time frame prescribed by Hon'ble Principal.

I wish to express my appreciation to all the members of the Committee for sparing their valuable time & sharing their experience and making valuable contribution in bringing out this report.

Further, I thank to the of Hon'ble Dr. Vinayravgi Kore (Savkarsaheb), Chairman, and Honorable Prof. Dr. Rasam Madam. Administrative Officer, of Warana Vibhg Shikshan Mandal, Warananagar, Hon'ble Principal, Dr. A. M. Shaikh of our college, for taking this Fire and Life safety audit in positive spirit and extending all the cooperation to the Committee members during the audit.

I express our sincere thanks to the Teaching, administrative staff and Non- teaching staff for their co-operation help, without which this Fire and Life Safety Audit could not have been possible.

Mr. Vilas Shamrao Patil.

Coordinator, Fire and Safety Audit Committee,
Assistant Professor,
Department of Physics, Y.C.W.M. Warananagar



**SANDEEP
FIRE SERVICES**
Fire detection, accident response

SANDEEP FIRE SERVICES
Manufacturer and supplier for Fire extinguisher and safety equipment
ISO 9001:2015 / Maharashtra fire services authorized licence agency

Date: - 02/04/2023

FORM-B
(As per section 3 (3) and rule 4 (2))

"Six monthly certificates to be given to be every January and July by the owner or the occupier for compliance Of the Fire Prevention and Life Safety Measures"

CERTIFICATE

Certified that we have carried out inspection of the fire prevention and life safety Measures installed in the following building premises.

**Yashwantrao Chavan Warana Mahavidhyalay
Warananagar
Tal. Panhala Dist. Kolhapur**

We further certify that these installations in the above mentioned buildings Are maintained in good repair efficient conditions during the period 01/07/2022 to 31/12/2022, as required under the provision of the Maharashtra fire prevention & Life Safety measure Act 2006 (Mah III of 2007).



3 APR 2023

For SANDEEP FIRE SERVICES.
sandip
lalasaheb
khatmode

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khatmode
Date: 2023.04.02
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Sandeep L. Khatmode,
(Fire & Safety Engg)
Auth. sign

Licence No MFS-LA/RF-88/RD -83

Head Ofc-S.R. No. 84/2, Saidapur, Sambhajji Nagar, Medha Road, Post kondave, Tal- Dist - Satara 415002
☎ +91-9923236015 / 8208543278 ✉ sandip_fire@ymail.com 🌐 www.sandeepfireservices.com

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar (Maharashtra-State)

(vii)



SANDEEP FIRE SERVICES

(Manufacturer and supplier for fire extinguisher and safety equipment)
ISO 9001:2015 / (Akhilashree fire services authorized license agency)

Date: - 02/04/2023

MEASUREMENT SHEET & TEST REPORT

To,
Yashwantrao Chavan Waran Mahavidhyalay
Warananagar
Tal. Panhala Dist. Kolhapur
Subject:- Maintenance of existing Fixed Fire Protection System
Side :- Warananagar Tal. Panhala Dist. Kolhapur

Sr. No	Description	Quantity	Unit	Testing	Remark
1	Pump 3 HP	01	NOS	Yes	OK
2	Fire Hydrant Valve Dia 63 IS 5290	01	NOS	Yes	OK
3	Hose Reel Hose Dia 20mm.30 mtr long ISI Mark	06	NOS	Yes	OK
4	Single Door Hose Box	01	NOS	Yes	OK
5	Hose Pipe. 63 Mm Dai 15 Mtr Long	01	JOB	Yes	OK
6	Branch Pipe SS	01	NOS	Yes	OK
7	Starter	01	NOS	Yes	OK
8	Fire Inlet Two Way C.I Body IS 903	01	NOS	Yes	OK
9	Fire Alarm Panel Two Zone	01	NOS	Yes	OK
10	MCP	04	NOS	Yes	OK
11	Hooter	04	NOS	Yes	OK
12	Smoke Detector	30	NOS	Yes	OK
13	Fire Extinguisher Refilling Co2 4.5 Kg	02	NOS	Yes	OK
14	Fire Extinguisher Refilling ABC 4 Kg	04	NOS	Yes	OK

The above Fire Systems applied & providing & fixing and maintained by
As per Indian Standard Code of Practice and they are now in perfect working condition.
Thank you,
Yours Faithfully,

For SANDEEP FIRE SERVICES,

sandip
lalasaheb
khatmode

Digitaly signed by
sandip lalasaheb
khatmode
Date: 2023.04.02
14:31:44 +05'30'

Sandeep L. Khatmode.
(Fire & Safety Engg)
Auth. sign

Licence No MFS-LA/RF-88/RD -83

Head Ofc-S.R. No. 84/2, Saidapur, Sambhajji Nagar, Medha Road, Post kondave, Tal- Dist - Satara 415002

☎ +91-9923236015 / 8208543278 ✉ sandip_fire@ymail.com 🌐 www.sandeepfireservices.com



Govt. of Maharashtra
Directorate of Maharashtra Fire Service
Vidyanagri, Hans Bhugra Marg, Santacruz (East),
Mumbai - 400 098, Tel-022-28677555, Fax-022-28677666
www.mahafireservice.gov.in

FORM N
[(See section 9 (3) and rule 14)
License to act as a License Agency for the purpose of
Fire Prevention and Life Safety Measure

License No. MFS / LA / RF-88 / RD-83

Date: 11.02.2023

License is hereby renewed under the provisions of sub-section (3) of section 9 of the Maharashtra Fire Prevention and Life Safety Measure Act, 2006 (Mah. III of 2007) to **M/s. Sandeep Fire Services** having their registration office at **M No. 322, Saidapur Post, Kondave Satara 415002** and their contact details are Office Number: 9923236015 and Email ID: sandip_fire@gmail.com with PAN registration No. BVPPK1324Q and GST No. 27BVPPK1324Q1Z0 to act as a License Agency for the purpose of the said Act for execution of the fire prevention and life safety measures in relation to

- 1. Fire Fighting and Sprinkler System:** Class D
- 2. Detection and Fire Suppression System:** Class D

M/s. Sandeep Fire Services shall not issue Form A or Form B under sub-section (3) of section 3 regarding the compliance of the fire prevention and life safety measures or maintenance thereof in good repair and efficient condition, without there being actual such compliance or maintenance failing which license granted / renewed shall be suspended or cancelled as per sub section (4) of section 9 and shall be liable for penalty under section 36 of the Act.

Subject to the provision of sub section (4) of section 9 of the said Act and rule 14 of the Maharashtra Fire Prevention and Life Safety Measures Rules, 2009, the license will be valid for a period from **11.02.2023 to 10.02.2024**

Hatyal
Kiran

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Date: 2023.02.21
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Asst Director

sandip
lalasaheb
khatmode

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SANTOSH
SHRIDHAR
WARICK

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Date: 2023.02.21
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(S S Warick)

Director
Maharashtra Fire Service

Digital Signature of Authorized Person to sign Form A or Form B

Note:

* in absence of digital sign of license holder (responsible to issue Form A or Form B) the license will be treated as invalid.

CONTENTS

Parts	Particulars	Page Nos.
Part-I	Title pages Acknowledgement Foreword Certificate- B Measurement Sheet and Test Report Certificate-N Content Executive Summary : Fire and Safety Audit	i - iv v vi vii viii ix x – xi xii- xiii
Part 2: General	2.1 Institution History 2.2 Mission 2.3 Vision 2.4. Introduction 2.5.Objectives of the Fire and Safety Audit 2.6 Methodology 2.7 Observations and recommendations	1 2 2 3 3 3 4 4
Part 3: Physical Hazard	3.1. Fire load A)Visible items a)Combustible material b)Electrical lLoad c)Computer, printers d)Chemical equipment e)Chemical stalk in store f)Chemical LAB g)Entrance and Internal 3.2. Proper Housekeeping 3.3. Electrical Hazard 3.4. Combustible fire hazards 3.5. Fire fighting 3.6. Bird hazard 3.7. Structural Problems 3.8.Emergency Plan 3.9. Apron and hand gloves 3.10. Storage of Chemicals 3.11. Gas Cylinder Safety 3.12, Canteen safety 3.13. Instruments 3.14. Corrosion 3.15. First aid box 3.16. Library 3.17. Disable friendly design	5 5 5 5 5 5 5 5 6 6 6 10 12 15 16 16 17 17 17 18 19 20 22 22 23 24 25

Fire and Safety Audit Report- 2021-2022

Part 4: Safety Management	4.1. Safety Department	26
	4.2. Safety Training	26
	4.3. Accident/ fire incidence reporting	26
	4.4. Safety Inspection	27
	4.5. Housekeeping Management	27
	4.6. Storage and handling of	27
	4.7. Material	27
	4.8. Emergency Plan	27
	4.9. Safety in Laboratory	28
	4.10.Fire protection	28
	Certificate	28

PART-1 SUMMARY.

EXECUTIVE SUMMARY

1.1 Positive areas:

- Material kept below staircase was cleared immediately
- Some part of terrace was seen clean
- At some place cable trays are made for electric wiring
- Instructions are displayed as required.
- At chemical lab. and stores are displayed.
- Maintenance of firefighting arrangement should be done regularly.
- Depending on the hazards they available in every room.
- Safe access ladders are present.
- While working in chemical Lab. staff and students wear apron.
- Ventilation safety is majorly implemented
- First aid box is maintained at required places.

1.2 Areas of Improvement:

- Reduction in fire load is required to be done by removing non – required item
- Newer equipment such as vacuum cleaner may be used for cleaning
- Dangling wires, unclean panel room, open main switches, access behind main panel are the electrical problem. All problems need improvement
- Maintenance of earthing, checking its resistance is neglected insure periodically.
- combustible fire hazards are lying in every area of college, regular removal is a must.
- Wherever necessary refrigerator may be used for chemical storage.
- Safety during working at height is neglected everywhere, including certain area of terrace.
- Use suitable bird repellent to stop these birds entering in college premises
- Total emergency plan needs to be prepared
- Safe access should be provided to every work place.
- All aspects of safe chemical storage in laboratory must be implemented.
- Gas cylinder safety – teach concerned person and implement.
- Safety in canteen is totally neglected.
- Safety of all instruments should be ensured.
- Avoid corrosion everywhere. It may create bad accident.


1.3 Safety management-

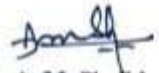
- There should a separate safety department
- All concerned must be given safety training on various areas of safety suitable to college
- Immediately start accident / fire reporting system/ mechanism.
- Regular safety Inspection is required
- Safety in storage, handling, use and disposal of chemical must be ensured
- On site emergency plan should be prepared and mocks are drilled periodically.
- Safety in laboratory must be studied and implemented.


Mr. Vilas S. Patil
Coordinator
Fire and Safety
Audit Committee


Dr. S. S. Khot.
Coordinator IQAC




Dr. S. Y. Jadhav
NAAC Cr. VII


Dr. A. M. Shaikh.
Principal,
Y.C.W.M. Warananagar

Forwarded with best compliment for certification.

The Fire and Safety Audit Summary of Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Dist- Kolhapur (Maharashtra State) is Verified Certified by :





Dr. Prashant A. Banne, M.Sc. Ph.D. (Environmental Science)

- CEO & Managing Director, SAITECH Research & Development Organisation
- External Faculty, PCRA, Under petroleum Ministry, Govt. of India
- EIA Coordinator, was accredited by NABET, Quality Council of India

PART 2: GENERAL

2.1 Institution History:

Warananagar is a classic illustration of integrated rural development through co-operative movement. It is a well planned township throbbing with industrial and educational activities. It is a place named after the river Warana which originates at Prachitgad in Satara district and merges in the river Krishna at Haripur near Sangli. The length of the river Warana is 80 Km. The river Warana forms the boundary line between Sangli and Kolhapur districts. Warananagar is situated on the banks of river Warana at the foot of Panhala and Jyotiba hill ranges, at 10 Km. westwards from Kini-Wathar on National Highway No. 4. Warananagar, where Yashwantrao Chavan Warana Mahavidyalaya is situated, is a hilly and rural area, called Warana. It comprises of near about 60 townships, villages and some remote settlements. During the Freedom Movement this place provided shelter to many freedom fighters and today it is remarkably known as a successful industrial and educational center. Just six decades ago, this area was a barren tract of land, notorious for day-light robbery. Life was difficult and full of hardship. The main occupation of the people was agriculture and fortune of the farmers was tied to climatic changes, scarcity of rain and volatile market prices. People were downtrodden and ignorant. With the establishment of a co-operative sugar factory, this area has been totally transformed. The credit for this socio-economic transformation goes to late Hon'ble Vishwanath Anna alias Tatyasaheb Kore, a visionary man with foresight, rare organizational skills and dedication. Late Hon'ble Tatyasaheb Kore was fully aware of the fact that along with the material prosperity, the cultural development and enlightenment is equally important and necessitated the creation of educational facilities. He wanted to provide work to the empty hands and made them strong and self-reliant.

Warana co-operative sugar factory is established in 1960 and proved to be a turning point which brought about socio-economic and consequently educational changes in the life of the people of this area. The development of sugar factory changed the socio-economical standard and living standard of poor farmers in Warana valley. But economic enrichment was not his

only goal. His mission was to bring in the total transformation of rural youth and create a New Man who will be well educated, self-reliant, culturally rich and morally upright. He knew that along with the material prosperity, cultural development and moral enlightenment are equally important. He realized that creation of educational facilities, particularly facility of higher education was the prior need of this area.

Before the establishment of the aforesaid educational facilities, the students of this area were deprived of higher education and only a few well-to-do could afford to go to Kolhapur, the nearest city, for pursuing higher education. Having realised this, the leadership decided to create these facilities for the youth of this area for their total transformation. This led to the establishment of Shree Warana Vibhag Shikshan Mandal (Education Society) and subsequently, Shree Warana Mahavidyalaya, Warananagar in 1964. The college was renamed as Yashwantrao Chavan Warana Mahavidyalaya, in 1992. Since 1964, our education society is striving towards the fulfillment of the above mentioned objectives. Establishment of our college, the first step in higher education, was followed by setting up of Primary and Secondary Schools, Engineering College, English Medium School, Military Academy and other educational institutes. All these institutes have more than adequate infrastructural facilities like imposing buildings, beautiful premises, spacious playgrounds, well qualified staff, rich libraries and laboratories. Each institute has proved to be a step ahead towards the achievement of our mission of 'Creating A New Man'.

2.2 Mission:-

"We stand united and determined for the total transformation of rural youth of Warana region towards self reliance, confidence and enlightenment through higher education".

2.3. Vision:-

"To become an Academy of excellence in higher education and human resource development in rural area".

2.4. Introduction

The Principal of Yashwantrao Chavan Warana Mahavidyalaya, Wananagar form the committee and shouldered the responsibility of performing the complete Fire and Safety Audit of college, the committee was leaded by Mr. Vilas S. Patil as co-ordinator and Dr. R.P.Kavane, Prof. M.N. Patil, Prof. A.K.Ladgaonkar an Prof. Miss. P. A. Mitari are as the committee members. In committee meeting on 2 July 2022 decided to make the Fire and Safety Audit of college buildings should under the provision fire prevention and life safety measure Act 2006 and abatement of 2007. For this committee starts the searching of government registered vendors, consultant, authorized NGOs and authorized fire and safety engineers for auditing. After long discussion and visiting the college site for N- times the management can offer this work to M/S. Sandeep Fire Services, Manufacturer and suppliers for fire and safety equipment was the ISO 9001-2015 company, which is authorized licence agency of Maharashtra fire services. The working team of M/S. Sandeep Fire Services was visited periodically in between August 2022 to September 2022 and install the equipment's like, Pump 3 HP, Fire Hydrant Valve, Hose Reel Hose Diameter 20mm having 30 meter long ISI Mark, Single Door Hose Box Hose Pipe. 63 Mm Diameter 15 Meter Long, Branch Pipe SS, Starter, Fire Inlet Two Way C.I Body Fire Alarm Panel Two Zone, MCP, Hooter, Smoke Detector, Fire Extinguisher Refilling Co2 4.5 Kg, Fire Extinguisher Refilling etc, by the plan. Mean while they conduct the Fire and Safety Audit was conducted and certify accordance to provision fire prevention and life safety measures of Maharashtra State Govt.

2.5. Objectives

The objectives of the fire and safety audit are as follows:

- 1) Examine the existing fire and safety measures, procedures, system for controlling measures.
- 2) Identify potential hazards which have caused or are likely to cause personal injury, property damage or loss of time.
- 3) Recommend on the basis of identified hazards, changes (if any) to improve upon the existing system and procedure of work.

2.6 Methodology

The following methodology has been adopted to achieve the objectives.

- 1) Actually visiting every room of college.
- 2) Visiting every nook and corner of the college.
- 3) Collecting all the existing fire load and safety deficiencies and positive safety areas
- 4) Preparing report based on actual finding
- 5) Presenting the same to the dignitaries in the college on a conveniently suitable day and presenting draft report.
- 6) Getting suggestions. Based on the suggestions received prepare a final report and submit to the management.




2.7 Observations and recommendations-



The Safety Audit was conducted by actual field visit to see the actual hazards at site in terms fire and safety of requirements and accordingly recommendations and / or suggestions wherever applicable are given against each finding.




Since the audit is based on sample inspection, recommendation given in a particular case will be the same for any uncovered area where similar situation exists.




PART 3: PHYSICAL HAZARD





No.	OBSERVATIONS	RECOMMENDATIONS
3.1	Fire load	
	<u>A)Visible items</u> b)Combustible material Recorded book items -14786 Office Record- 2 tons (Highly important) Examination Record- (2.5 Tons) Departmental Files, Record, Manuals, Charts- 18 tons Furniture items: wooden plastic etc .-18030 Gas cylinders -13 (including Canteen) Burners – 343	<u>Visible items</u> Wherever possible reduce
	b)Electric load Electric items: lights, fans, etc-1396 c)Computer, printers -230+ d)Chemical equipment such as incubator etc – 548	Systematic storage is required and reduce use wherever possible. Regular monitor the switch of drills.
	<u>Chemical stalk in store (from all labs.)</u> e) Flammable liquids in store – 24 nos. f) Toxics – 20 g) irritants – 10 h) oxidizing and reducing agents -13 i)Corrosive – 15	Display safety instructions where is required. Provide skill and trainings for proper safety use.
	<u>Chemical LAB</u> j) Hazardous chemical – Chemistry , Microbiology, Industrial Chemistry, Botany and Zoology labs. Handles grade II Hazardous chemicals. The Laboratory can maintained good records, Accession registers and their stick records.	Maintain and cross monitor the records regularly.





No.	OBSERVATIONS	RECOMMENDATIONS
	<p><u>Entrance and Internal Road</u></p> <p>1) Entrance road width – 5.10 Meter</p> <p>2) Road width near library and canteen – 4 meter</p> <p>3) Internal Road - 4 meter</p> <p>4) West side road – 4.5 meter</p> <p>5) Staircase in Office Buildings-2 meters</p> <p>6) Staircase in old building-1.5 meters</p> <p>7) Passage in both building -2 meters.</p> <p>8) Four wheeler/ two wheeler parking</p>	<p>Entrance road and leaving roads are so wider.</p> <p>Passage is wider</p> <p>Make separate four wheeler and two wheeler parking design and implement it strictly.</p>
3.2	Proper Housekeeping	
	 <p>Racks are kept on staircase leading to library. They become stumbling hazard during emergency.</p>	<p>Staircases are not to be blocked any time. Not even for small time.</p>
	 <p>Combustible material storage below the staircase</p>	 <p>Action taken – It is removed.</p>




No.	OBSERVATIONS	RECOMMENDATIONS
		
	Unclean electrical room at first	Clean it. While cleaning electrical
		
	Bottle etc. kept on parapet wall. Not cleaned. It may become very bad hazard if it falls down.	Clean it. Do not allow such practices.
		
	Keeping anything above the cupboard is unsafe. It may fall down on someone's head.	Do not allow any material to keep above the cupboards




No.	OBSERVATIONS	RECOMMENDATIONS
		
	<p>Room for Non-Teaching staff – No lockers given for keeping clothes. They have hanged them near switch</p> <p>No place for keeping brooms and other cleaning equipment.</p>	<p>Give separate lockers for keeping their clothes etc.</p> <p>Give separate place for keeping all cleaning equipment</p>
		
	<p>Housekeeping inside the cupboard is equally important. All things mixed together. No labelling.</p>	<p>Keep similar things together. Label them.</p>
		
	<p>In lab. material kept on cupboards.</p>	<p>Do not allow any material to keep above the cupboards</p>




No.	OBSERVATIONS	RECOMMENDATIONS
		
	–stationary above the cupboard.	Do not allow any material to keep above the cupboards
		
	housekeeping inside the cupboard is bad.	Housekeeping inside the cupboard is equally important.
		
	All this is lying on terrace	Remove it.



No.	OBSERVATIONS	RECOMMENDATIONS
		
	This part of terrace is clean	Good
3.3	Electrical Hazard	
		
	Dangling wire in canteen. If it is live it may increase fire hazard	Remove and do not allow such things to happen
		
	Electrical switches should never be kept open like this. Dirt, dust enters, deposits and increases the resistance, draws more current, increases hazard of fire.	Do not allow such practice of keeping switches open.
		
	See this loose temporary wiring. Increase the chances of fire and electrocution.	Make permanent systematic wiring.





No.	OBSERVATIONS	RECOMMENDATIONS
		
	Electrical connection without plug top. It increases sparking in turn fire hazard, and electrocution hazard.	Use of plug top is a must.
		
	Burnt socket is indicator of overdrawn of current. Not investigated.	Investigate why it got burnt. Loose connection or any other reason and take corrective action.
		
	Broken switch	Repair
		
	Loose wiring outside the chemistry lab	Remove it immediately. Do not allow such things to happen.





No.	OBSERVATIONS	RECOMMENDATIONS
		
	Broken support to tube light. Room 209	Repair the same
	No protection above these electricwires on terrace.	Put some protection either wooden or flexible hose type, whatever.
3.4	Combustible fire hazards	
		
	Collection of dry leaves increase combustible fire hazard.	See that same is cleaned every day.
	Collection of gunny bags etc. increase fire hazard.	It should be in container and regularly removed.
		
	Paper scrap outside in lab ,office and in store.	Do allow to collect such material. Dispose it off immediately.



No.	OBSERVATIONS	RECOMMENDATIONS
		
	These dry leaves increase fire Hazard In botanical garden/ garden in front	Remove them regularly and monitor periodically.
		
		
	These dry leaves increase fire Hazard In botanical garden/ garden in front	Remove them regularly and monitor periodically.



No.	OBSERVATIONS	RECOMMENDATIONS
		
	Storage of combustible hazard below the tables in lab.	Remove it. And monitor periodically.
	Old removed pipes of burners.	Dispose them off
		
	Heap of papers kept on wooden Racks in store	Dispose them off use steel store case.
		
	Plastic paper kept on in rainy season in physics lab. itself is a fire hazard	Use non-combustible material cover Provide edge protection for the tables.

No.	OBSERVATIONS	RECOMMENDATIONS
		
	In store room and on some places at library such combustible material present	Remove as urgently as possible Keep fire extinguisher extra in library and in store.
3.5	Fire fighting	
		
	This cracked glass may create a big hazard during fire.	Replace it immediately or use the glass if necessary




No.	OBSERVATIONS	RECOMMENDATIONS
		
	Well is available. Separate water storage tank for emergency can be built for fighting fire.	Some water storage tank for fighting fire are available.
	The fire extinguisher was seen in Everywhere at required places in infrastructure.	But Foam type fire extinguisher are recommended.
		
	Fire extinguisher is kept on floor in In store.	Good, they should be kept at easily removable height at other all places
	Server room in office: No separate arrangement is made to fight fire in server room.	Get it designed from specialist and implement the same.
3.6	Bird hazard	
		
	Bird are a hazards for electric connection, ventilation ducts	Use suitable bird repellent to stop these birds entering in college premises



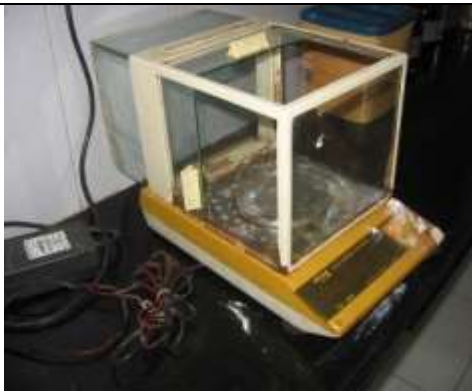
No.	OBSERVATIONS	RECOMMENDATIONS
3.7	Structural Problems	
		
	Green vegetation is allowed to increase in structure at two places.	It is dangerous. Remove it and monitor.
3.8	Emergency Plan	
		
	No lights on the ground	This ground may be useful for evacuation place during emergency.
	Night	Provide lighting.
3.9	Apron and hand gloves	
	A very casual approach to safety was seen among the students while working at practical's.	Not right. Casual approach to safety is not acceptable use the Apron and hand gloves
		



No.	OBSERVATIONS	RECOMMENDATIONS
		
	Burn resistant hand gloves or suitable tongs are not used/ provided	Provide burn resistant hand gloves or tongs.
	No system of hand cleaning with soap in college anywhere.	Provide soap at every hand washing place.
3.10	Storage of Chemicals	
		
	Even the basic principle of good labelling is missing.	Labelling is a must in chemical storage.

No.	OBSERVATIONS	RECOMMENDATIONS
3.11	Gas Cylinder Safety	
	 	
	Is it the use of gas cylinder?	Do not allow such practices



No.	OBSERVATIONS	RECOMMENDATIONS
3.12	Canteen safety	
		
	See the storage in canteen. Clothes, utensils, vegetables, grain bags all are stored together in plastic bags, No system for storage.	Separate area for each items. Grain etc. with labels. Use separate Containers for different vegetables. Prohibit use of plastic in canteen.
		

No.	OBSERVATIONS	RECOMMENDATIONS
	Look at the crack on the wall of toilet place inside the canteen. Is it surface or deep.	Repair it immediately.
		
		
	No cleaning of burner as done. Regular check up the burners No changing of rubber piping done.	Clean burner regularly Get connections checked regularly Regular check up and change of rubber piping is necessary
		

No.	OBSERVATIONS	RECOMMENDATIONS
	No cover on this rotational ragada mixer machine. Someone may put his hand insidewhile it is running and get injured.	Put cover. Cover should be such that if it is opened ragada rotationl should stop.
		
	These cylinders are placed in a cage inside canteen. Good. But additional things are kept inside.	Do not allow any other storage insidethis gas cylinder cage.
	No training is given to canteen workers about gas cylinder safety.	Impart canteen workers training on gas cylinder safety.
		
	Plastic trays are kept near gas cylinders.	Do any combustibile material or flammable liquid near gas cylinder.
3.13	Instruments	
		
	So much particles of material is deposited on balance? How will it give correct reading?	Clean regularly

No.	OBSERVATIONS	RECOMMENDATIONS
3.14	Corrosion	
		
	Corroded window frames	Change it.
3.15	First aid box	
		
	First aid box in passage in front ladies room, office and at different department locations.	First Aid box will be available in conditions.

No.	OBSERVATIONS	RECOMMENDATIONS
3.16	Library	
		
	<p>So many books and periodicals. All are not required regularly Unnecessary storage increases fire load.</p> <p>Suitable number of fire extinguishers were not seen in library and at VKCA.</p>	<p>Sort them out in two groups – required and nonrequired.</p> <p>Make separate storage of non-required so that it will reduce hazard of combustible load.</p> <p>Keep water expelling type of extinguishers or fog type.</p>

<p>3.17</p>	<p>Disable friendly design</p> <p>1. Ramps for classroom and Library</p> <div data-bbox="421 309 928 848">  </div> <div data-bbox="421 884 874 1538">  </div>	<p>In both arts , Commerce and Science building ramps are erected with minor slope was very easy for the disable persons.</p>
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Part 4 : Safety Management

Sr. No.	Observation	Recommendation
4.1	Safety Department	
	There is no safety department in college campus or in premises also.	If possible, safety department maybe prepared so that it can take responsibility of safety inspection, organizing safety training, monitor the drills etc. Appoint the in charge of safety department should be minimum B.Sc. – Chemical + Advance Dip. In Industrial Safety (Or fire and safety at organization level in Campus.)
4.2	Safety Training	
	Security person do not knowhow to use fire extinguishers	Impart training on use of fire extinguishers to security people
	They Cannot identify firehazards in the college	Impart training on identification offire hazards to security people
	They have only one lathi with them. No training for use of lathi	Impart training on using lathi to security people
	All selected staff not giventraining on use of fire extinguishers	Impart training on Use of fire extinguishers to selected staff
	‘Safety in use of gas cylinder’ no training given	Safety in use of gas cylinder impart training to concerned person
	No training is imparted in various areas of safety such as 1)Accident reporting investigation 2)Safe Storage of chemicals inlaboratory’ 3)Machine/ experimental safety or guarding 4)Fire prevention and protection5) Other necessary subjects as and when necessary	Impart training to the concernedstaff as observed
4.3	Accident/ fire incidence reporting	
	No system of accident reporting,fire incidence reporting	Start reporting every minor accident, every fire incidence reporting
	Accident/ fire investigation donot exist.	After every report of accident/ fire department do investigation. Find out causes without blame fixing on anybody. Decide remedial measure in order to prevent reoccurrence of such incident.

Sr. No.	Observation	Recommendation
4.4	Safety Inspection	
	Inspection of premises from Safety hazard and fire hazard not done.	Its monitoring should be done regularly by the concerned person.
4.5	Housekeeping	
	At present no understanding of housekeeping apart from common understanding.	Teach all concerned way of housekeeping and implement the same in premises.
4.6	Storage and handling of Material	
	No knowledge of safety in storage of chemicals.	Impart training and implement prevention of safety.
4.7	Emergency Plan	
	There is no emergency plan in college.	<p>Prepare on site emergency plan.</p> <p>Identify Possible emergencies</p> <p>.</p> <p>Prepare different teams of students also.</p> <p>Educate them for their duties on table top exercise.</p> <p>Make actual mock drill and monitor.</p> <p>Identify deficiencies.</p> <p>Make improvement in every mock drill.</p>

4.8	Safety in Laboratory	
	No study is done so far the safety of different labs.	In charge of safety department must study Safety in Laboratory and implement in next.
4.9	Fire protection	
	Nobody is to look after fire Protection	Safety department has to look after this area too



[Signature]

Mr. Vilas S. Patil
Coordinator
Fire and Safety
Audit Committee

[Signature]

Dr. S. S. Khot.
Coordinator IQAC

[Signature]

Dr. S. Y. Jadhav
NAAC Cr. VII

[Signature]

Dr. A. M. Shaikh.
Principal,
Y.C.W.M. Warananagar

Forwarded with best compliment for certification.

The Fire and Safety Audit Report of Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Dist- Kolhapur (Maharashtra State) is Verified and Certified by :

[Signature]



Dr. Prashant A. Banne, M.Sc. Ph.D. (Environmental Science)

- CEO & Managing Director, SAITECH Research & Development Organisation
- External Faculty, PCRA, Under petroleum Ministry, Govt. of India

EIA Coordinator, was accredited by NABET, Quality Council of India

INDEX

GREEN and ENVIRONMENTAL INITIATIVES BEYOND the CAMPUS

Sr. No.	Name of the activity	Venue / Place	Page no.
1.	Swachh Bharat Abhiyan	At-Warananagar village, Tal-Panhala, Dist- Kolhapur.	378
2.	Swachh Bharat Summer Internship: Water Conservation initiative	At-Kekhale, Tal-Panhala, Dist- Kolhapur.	379
3.	Cleanliness Drive (Swachh Bharat Abhiyan)	At-Jeur, Tal-Panhala, Dist- Kolhapur.	381
4.	Ganesh Murti collection from Warana river	Warana River Amrutnagar Bridge	381
5.	Plastic Mukti Abhiyan	At- Warananagar village, Tal-Panhala, Dist- Kolhapur.	382
6.	Cleanliness Drive	At- Own Village	387
7.	Tree Plantation in Collaboration with Sakal Youth	At- Warananagar village, Tal-Panhala, Dist- Kolhapur.	388
8.	NSS Camp tree Plantation & other Activity	Mohare Tal. Panhala Dist. Kolhapur	389
9.	Tree census during Special NSS Camp	At- Kakhe, Tal-Panhala, Dist- Kolhapur	392
10.	Population Survey	AT/Po-Parivane, Tal-Panhala, Dist- Kolhapur.	393



Social Service Report

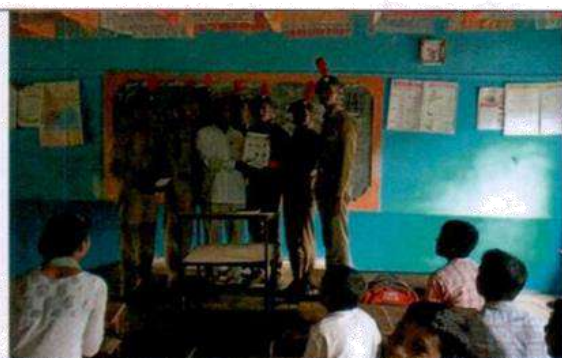
Name of the Activity	Swatchchata Samaroh Rally
Date	29/4/2018
Place	Warananagar
Beneficiaries	157 Cdts and 6 ANOs of Warana Sector, 4 civil staff
Coordinator	Lt. Dr. S. S. Khot
Remark	Social Awareness Rally was organized from Shastri Bhavan to Bahirewadi via Warana Chowk





Social Service Report

Name of the Activity	Swatchch Bharat Summer Internship
Date	May –June 2018
Place	Kekhale
Beneficiaries	19 Cdts, Kekhale Villagers
Coordinator	Lt. Dr. S. S. Khot (Nodal Officer)
Remark	Cadets registered as volunteers through www.sbsi.mygov.in for the Swatchch Bharat internship. Contributed for 100 Hrs in the campaign through tree plantation and water conservation activities.



3.	Cleanliness Drive (Swatchch Bharat Abhiyan)	At-Jeur, Tal-Panhala, Dist- Kolhapur.	July- 2017
4.	Ganesh Murti collection	Warana River	



Before

After



5.	Swatchch Bharat Abhiyan	At-Warananagar, Tal-Panhala, Dist- Kolhapur.	Sept 2017
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Social Service Report

Name of the Activity	Plastic mukti rally
Date	25/8/2018
Place	Warananagar
Beneficiaries	97 Cadets , 20 + Shopkeepers and Street vegetable and fruit sellers
Coordinator	Lt. Dr. S. S. Khot
Remark	Social Awareness rally was organized on the issue <i>Plastic Mukti</i> under the Foot policing





Cleanliness Drive at own village by NCC cadets on 08.12.2020





20.3.2021 Tree plantation in collaboration with SAKAL YIN Youth Inspirations Network , NC, NSS



NSS Camp tree Plantation & other Activity Mohare Tal. Panhala Dist. Kolhapur



NSS volunteers were planting trees.



NSS volunteers were planting trees.



NSS volunteers were planting trees.

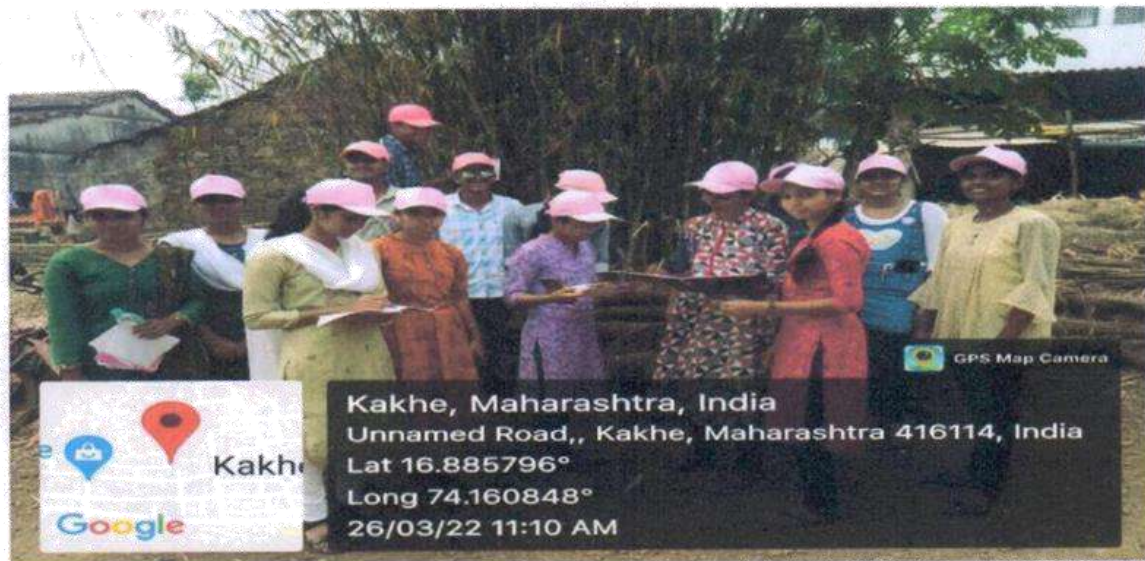


YCWM / National Service Scheme / राष्ट्रीय सेवा योजना





Tree Census	Department of NSS	National Service Schemes	27/03/2022
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YCWM / National Service Scheme / राष्ट्रीय सेवा योजना



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Shree Warana Vibhag Shikshan Mandal's
ashwantrao Chavan Warana Mahavidyalay
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 Affiliated to Shivaji University, Kolhapur

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 Chairman : Dr. Vinay

VM : 680/2021 - 2022
 Date : 17 DEC

प्रति,
 मा. सरपंच,
 मु.पो. पारिवणे
 ता.शाहुवाडी, जिल्हा कोल्हापूर.

विषय:- लोकसंख्या सर्वेक्षणाबाबत...

श्रेय,
 आमच्या महाविद्यालयाच्या भूगोलशास्त्र विभागामार्फत आपल्या गावामध्ये शक्रवार दिनांक:
 12/12/2021 ते शनिवार दिनांक: 14/12/2021 रोजी भूमीउपयोजन सर्वेक्षण आयोजित करण्यात
 आले आहे. सदर सर्वेक्षणामध्ये प्रा.डॉ.पी.एस.राऊत, प्रा.डॉ.आर.वी.पाटील व प्रा.ए.एन.यादव
 या मार्गदर्शनाखाली वी.ए. भाग ३ या वर्गातील भूगोलशास्त्र विषयाचे २५ विद्यार्थी सहभागी होतील.
 त्या, त्यांना सहकार्य करावे व आवश्यक ती माहिती उपलब्ध करून देण्याविषयी आपल्या गावामधील
 सेवक, तलाठी व मुख्याध्यापक, प्राथमिक व माध्यमिक शाळा यांना आवश्यक त्या सूचना देण्यात
 यात.

प्रवे, ही विनंती.

आपला विश्वासू,
 स. च. वारणा महाविद्यालय,
 वारणानगर

