

M.V.P. SAMAJ's

Karmaveer Shantarambapu Kondaji Wavare Arts, Science and Commerce College, CIDCO, Nashik (Maharashtra)

Internal Quality Assurance Cell

(IQAC) WATER AUDIT- 2019-20



Dr.M S. Patil & Dr.D.N.Pawar Dr.J.D.Sonkhaskar Dr.R B. Patil Co-ordinator Principal Coordinator Water IQAC COAdmator K.S.K.¹¹¹ Artprincipal Audit K.S.K.WArts, Science and Commerce College CIDCO, Nashik CIDCO, Nashik-422008





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Preface

Report of water audit of the MVP'S KSKW Arts, Science and Commerce College, Uttamnagar, CIDCO, Nashik-08 was framed in the period of July 2019 to June 2020.

The goal of this audit is to express an opinion on the scientific framework that categorizes all water use in the organization, leakages and point of water losses.

Data was collected for each water storage capacity and supply of the campus. The work is completed by considering how many water storage, supply and purification units are accessible to each individual related to organization. Total water consumption was taken in to consideration.

We really appreciate the effort put by MVP'S management for creating awareness of water Audit, through this, we have been cleared the vision of Institution. We really appreciate for various efforts taken by the college.



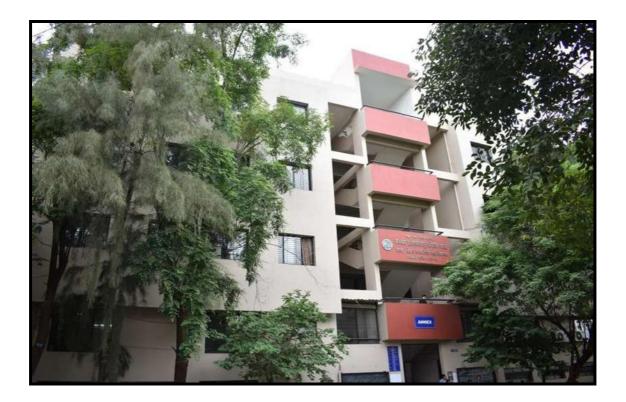
College Main Building





Acknowledgement

We are very much thankful to **Principal Dr. J. D. Sonkhaskar and Dr. D.N.Pawar, IQAC coordinator, NAAC** for motivating us and giving us the opportunity for water audit. We would like to express our sincere thanks to Mr.MangeshSakurikar,Director,Shanmukha Laboratoriesfor providing us water analysis report. We extend our gratitude towards all respected office staff, who have taken part in this audit survey etc. of MVP'S KSKW Arts, Science and Commerce College, Uttamnagar, CIDCO, Nashik-08. We tried our best to present this water audit report as per requirements of college and our expertise work.



College New Building





Introduction of Water Audit

Water is a precious natural resource with almost fixed quantum of availability. Declaring water conservation a national mission, in June 2003, the Prime Minister of India, appealed to all countrymen to collectively address the problem of alarmingly progressive water shortage, by conserving every drop of water and suggested for conducting water audit for all sectors of water use.With continuous growth in country's population, per capita availability of water has been reduce to alarming stage, whereas with ever-rising standard of living of people, all around rapid industrialization and urbanization, demand of fresh water is going up continuously. Unabated discharge of domestic and industrial effluents into water bodies is further aggravating the situation of scarcity of water of acceptable quality& quantity. In-spite of the fact that fresh water is rapidly becoming scarce it is continued to be used wastefully. Therefore, Water audit is an effective management tool for minimizing losses, optimizing various uses and thus enabling considerable conservation of water.

"Water Audit is a qualitative and quantitative analysis of water consumption to identify means of reducing, reusing and recycling of water"

Objectives:

- To utilize water resources effectively and more efficiently.
- To keep check on unwanted excess usage of water.
- To determine water losses and leakages path.
- To identify meter record inaccuracies
- To identify priorities area which need immediate attention for control and maintenance
- For planning of water storage and supply.
- For cost-benefit study related to optimum recovery of water loss.

Benefits:

Water audit improves the knowledge and documentation of your water sources and the distribution system, associated problem and risk areas and a better



understanding of what is happening to the water after it leaves the source point. It helps in analysing water related risk and opportunities as part of sustainability strategy

Water Audit leads to:

- Reduced water losses
- Enhance water conservation
- Improved financial performance
- Create green image
- Satisfy regulatory norms
- Enhance natural resources conservation for sustainable society
- Improved reliability of supply system & distribution system
- Better safeguard to public health and property and Improved public relations







About Institute

Sr. No.	Particulars	Details
1	Name of the Institute:	Maratha Vidya Prasarak Samaj's
		Karmaveer Shantarambapu Kondaji Wavare Arts ,Science and Commerce College, CIDCO,
2	Address:	Uttamnagar, Nashik-422008 Maharashtra State, India.
3	Affiliation:	Affiliated to Savitribai Phule, Pune University,Pune-07 ID No. PU/NS/ASC/047/1993
3	Year of Establishment:	June 1993
5	NAAC Accreditation:	NAAC REACCREDITED "A" GRADE
		with CGPA 3.20 (Third Cycle)
6	Contact:	Phone : 0253-2391110,
		FAX : 0253-2372210
		Email : <u>cidcocollegenasik@rediffmail.com</u>
		Website : <u>www.cidcocollgenashik.com</u>
4	Courses Offered:	XI th and XII th Arts , Commerce & Science
		B. A./B.Com./B.Sc., B. Sc. (Computer Science)
		B. Voc.
		1.Electrical Appliances Maintenance & Repairing
		2.Food Technology
		M. Sc.: Physics, Chemistry, Computer Science, Geography
		M.Com.



Water Supply units in campus

Water is a key driver and is vital to development of Biodiversity, Agriculture, Humans as well as the Economy. With recent experiences across the world and in India, the water scarcity and security is emerging issues. The state of Maharashtra has also faced severe impact of the water scarcity in the recent past. Therefore water management is a crucial step of sustainable development and it also has been made an integral part of the Sustainable Development Goals (SDGs).Unplanned urban growth and economic development has placed unprecedented pressures on natural resources especially on water. Increasing demand for the water in urban areas such as Nashik highlights the necessity of the overall water management.

Sr. No.	Department	UGT capacity in litre	No. of times filled	Water storage/ usage (m3/day)
1	New Building terrace water tank	5,000.00	1.00	90.00
2	Second flour new building aqua plant	100.00	2.00	40.00
3	Old building terrace water tank	15,000.00	2.00	270.00
4	Aqua plant for staff in staff room	100.00	2.00	40.00
5	RCC water tank	20,000.00	2.00	360.00
6	Ground area gents toilet water tank	2500.00	2.00	100.00
7	Ground area ladies toilet water tank	2500.00	2.00	100.00
8	Ground area ladies toilet water tank	2500.00	2.00	100.00
		Total Water Usage:-	30,400 litre	

Water Supply in the campus







Old building terrace water tank



New Building terrace water tank







RCC water tank



Tap water outlet in the college Campus





Tap water outlet in the college Campus





Aqua plant for staff in staff room



RO Water Plant for Students in the college campus



Second flour new building



इंडेक्स नंबर्म0106583 अल्क क्रमींदी ^{3-A)} /नांव : NDMVP SAMAJ,A.S पत्ता : UTTAMINAGAR CIDCO,I चालू रिडींग (लि) मागील रिव	NEW NASHIK		क्रमांख्रम्ताहाLL0120 दिन्तुंगुंगु01/2020 नळजोडणी ासाईज व वापराच् स्रान्तार्डना कालावधी दिनसिर्भ/2019 0ई	माही कोणताब उपाय/संयम
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Nashik Muncipal Corporation Water bill



Drinking water quality in the campus

Quality of drinking water is important to our health and well-being. Monitoring the quality of water and testing is very important to maintain reliable and safe water sources. The analysis of water is aim to determine all water parameters providing quality potential health risks related to water contamination diseases.

Interpretation of Water analysis report

The concentration is the amount of a given substance (weight) in a specific amount of water (volume). The most common concentration unit used is milligrams per liter (mg/l), which, in water, is approximately equal to one part per million (ppm). Many compounds are measured in smaller concentrations, such as micrograms per litre or parts per billion (ppb).

In both the water sample (Old and New building) analysis report indicates that the observed value of most of the water parameters is within the range of standard grade specification so it recommends the water quality as potable i.e it is safe for drinking purpose .The concentration of metals like Nickel, Boron, Lead, Zinc, Manganese, Iron, Calcium, Magnesium, Sodium, Potassium, Cadmium is observed in very minor level.

All water has some form of bacteria in it. The presence of bacteria does not mean the water is unsafe to drink. Only disease-causing bacteria known as pathogens lead to disease. Water test results include total coliform bacteria. Total coliform bacteria are a group of several kinds of bacteria commonly found in the environment, including soil, vegetation and untreated surface water. They also are found in the intestinal tract of warm-blooded animals, including humans.

A laboratory reported total coli form bacteria 6 MPN /100 ml indicating the presence of coli form bacteria. So both the water tanks were chlorinated by addition of sodium hypochlorite solution (NaOCl). In particular, chlorination is used to prevent the spread of waterborne diseases such as cholera, dysentery, and typhoid. This method is used to kill bacteria, viruses and other microbes in water.



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2]	Elec. Conductivity	mic.sim/cm	=	118.2	IS	3025(PART 14):198
3]200 PPM Max.	SULPHATE	PPM	=	4.25	IS	3025(PART 24)2009
4]250 PPM Max.	CHLORIDE	PPM	÷	45.021	IS	3025(PART 32):199
5]45 PPM Max.	NITRATE	PPM	=	1.68		3025(PART 54):200
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7]0.05 PPM Max.	Cu	PPM	=	0.0049	IS	3025 (PART 42):19
8]500 PPM Max.	TDS	PPM	=	82		3025(PART 16):198
9] 10]0.003 PPM Max.	Ni Cd	PPM	=	0.0036		3025(PART 54):200
11]0.5 PPM Max.	BORON AS B	PPM		0.0023		3025(PART 41):199
12]200 PPM Max.	TOTAL HARDNESS (AS CaCO3)	PPM	-	0.026		3025 (PART 57) : RA
13]	COD	PPM	-	26.32		3025 (PART 21):200
14]1 NTU Max.	TURBIDITY	NTU	-	1		3025 (PART 58):200
15]	OIL & GREASE		=	NIL	5.77	3025(PART 10):198 3025(PART 39):199
16]200 PPM Max.	ALKALINITY CaCO3	PPM	-	39.67		3025(PART 23):199
17]	BOD (3 DAY'S)	P PM ···	=	12.8		3025(PART 44):199
18]0.1 PPM Max.	Mn	PPM	14	0.0038		3025(PART 59):200
19]0.01 PPM Max.	Pb	PPM	=	0.0018		3025 (PART 47):199
20]	DISSOLVED OXYGEN	PPM	-	6.66		3025 (PART 38):200
21]	Fe	PPM	-	0.012		3025 (PART 53):200
22]	Ca	PPM	=	16.19		3025(PART 40):199
23]	K	PPM	=	0.042		3025(PART 45):199
24]	Na	PPM	=	1.031		3025 (PART 45):199
25]	TOTAL BACTERIA COUNT		=	<102/100		
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2]	Elec. Conductivity	mic.sim/cm	=	8.58	IS 3025(PART 14):1983
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3]200 PPM Max.	SULPHATE	PPM	-	1.25	IS 3025(PART 24)2009
4]250 PPM Max.	CHLORIDE	PPM	=	1.80	IS 3025(PART 32):1998
5]45 PPM Max.	NITRATE	PPM	=	0.56	IS 3025(PART 54):2003
6]5 PPM Max.	Zn	PPM	=	0.014	IS 3025(PART 49):1994
7]0.05 PPM Max.	Cu	PPM	E.	0.0023	IS 3025 (PART 42):199
8]500 PPM Max.	TDS	PPM	-	6	IS 3025(PART 16):1984
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18]0.1 PPM Max.	Mn	PPM	=	0.0016	IS 3025(PART 59):200
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20]	DISSOLVED OXYGEN	PPM	=	6.55	IS 3025(PART 38):200
21]	Fe	PPM	=	0.017	IS 3025(PART 53):200
22]	Ca	PPM	=	0.405	IS 3025(PART 40):199
23]	K	PPM	=		IS 3025(PART 45):199
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Student Awareness Programs

The activities about water conservation, pollution are conducted by arranging student awareness programs in which NSS, students from environmental science are actively participated.

Activities by students

- Special Winter Camp at village Girnare
 Construction of LBS (Bandhara) was organized by NSS with objectives
- To protect natural water bodies and their aquatic environments.
- To increase the volume and quality of water to remain in rivers for the protection of a natural water body and its aquatic environment.

Pond size: 30.48m x 10.67m x 1.83m (100.00 ft x 35.00 ft x 6.00 ft).

Pond volume: Up to 594,653.8 litres (130,805.5 gallons).

Mahatma Gandhi Jayanti (Swachhata Hich Seva)

Mission of river Nandini clean-up aim at generating greater public participation towards Swachhata and mobilise people and reinforce janaandolan (mass movement) for sanitation to contribute to Mahatma Gandhi's dream of a Clean India.

Ganesh Idol Collection Programme

Environmental awareness was created with objectives of to reduce the quantity of polluting substances discharged into the environment, to increase the use of materials, to minimize the impact of all our activities on our surroundings.

Visit to village Pimplad for Water audit Project

To create awareness about water audit students of S.Y.B.Sc. Environment Sciences visited to Valdevi dam, Conservation water bodies in farm (SHET TALE), Water supply to village, water losses due to leakages.







Honarble Nileemtai Pawar Visited At LBS Location



LBS (Bandhara) work is going on

















Team for water survey at Pimplad



Garbage Collection with Volunteers







Garbage Collection with Volunteers



Discussion on Cleanliness Drive with NMC Administration



🏶 पुढारी

सिडको महाविद्यालयातर्फे नदी खच्छता अभियान

सिडको : प्रतिनिधी

उत्तमनगर, सिडको वेथील सावित्रीबाई फुले पुणे बिद्यापीठ राष्ट्रीय सेवा योजना व कर्मवीर शांतारामबाप् कोंडाजी वावरे कला, विज्ञान व वाणिज्य महाविद्यालय, नाशिक महानगरपालिका सिडको विभाग यांच्या संयुक्त विद्यमाने नंदिनी नदी स्वच्छता मोहीम यन्नस्वीपने राबविण्यात आली.

सावित्रीबाई फुले पुणे विद्यापीठ राष्ट्रीय सेवा योजना परिपत्रकानुसार पुणे विद्यापीठ कार्यक्षेत्रातील पुणे, नगर व नाशिक जिल्ह्यात नदी स्वच्छता मोहीम नालिक कार्यक्षेत्रातील नंदिनी नदी सिडको, नाशिक येथे प्लास्टिकमुक्तीची श्वयधेडन आणिमोठ्या प्रमाणातकचरा प्राचार्य डॉ. जे. डी. सोनखासकर यांच्या शिरोरे व जिल्हा सनन्वयक प्रा. खाँद्र बी. आर. बागूल यांसह सरस्वती



राबविण्यात येत आहे. महाविद्यालयाने 🛛 सिडको : स्वच्छता मोहीम राबविताना वाक्रे महाविद्यालयातील बिद्यार्थी. समवेत प्रा. रविराज वटणे, प्रा. वर्षा शिरीरे, प्रा. र्खींद्र आहिरे, डॉ. अजिता साळुंके, बी. आर. वागुल आदी. (द्याया - राजेंद्र शेळके)

संकलन करून स्वच्छता मोहीम यशस्वी मार्गदर्शनाखाली रासेवो कार्यक्रम आहिरे, नाशिक महानरपालिका सहावक विद्यालय, नागरिक व राष्ट्रीय सेवा केली. हा उपक्रम महाविद्यालयाचे अधिकारी प्रा. खोराव वटणे, प्रा. वर्षा वैद्यकीय अधिकारी डॉ. अजिता साळ्के, योजनेचे विद्यार्थी सहभागी झाले होते.

सिडको : गरुड झेप अकॅडमीतर्फे सिडको परिसरात स्वच्छता जनजागरण रॅली काढण्यात आली. या रॅलीस अंबड पोलीस ठाण्याचे वरिष्ठ पोलीस निरीक्षक श्रीपाद परोपकारी यांनी हिरवा झेंडा दाखवन रॅलीची सुरुवात केली. गरुड झेप अकॅडमोपासून रॅलीस प्रारंभ करण्यात आला. त्यानंतर संभाजी स्टेडियम, पवननगर, उत्तमनगर मार्गे निघालेल्या या रॅलीची रायगड चौक येथे सांगता झाली. स्वच्छ भारत, सुंदर भारत, स्वच्छ नाशिक, सुंदर नाशिक या घोषणांनी नागरिकांचे लक्ष वेधले. दरम्वान ६०० ते ७०० विद्यार्थ्यांनी आपल्या हातामध्ये स्वच्छता पाळण्यासंदर्भात फलक घेऊन रॅलीत सहभाग नोंदवला. रॅलीच्या यसस्वीतेसाठी प्राध्यापक की. ना. साळवे, प्रा. जी. एस. गाढे, प्रा. गणेश गाढे, प्रा. प्रबीण जगताप, एल. के. डोळस, अविनाश मोरे, संदीप मासुळे, अमोल सोनवणे यांसह शिक्षक व शिक्षकेतर कर्मचान्वानी परिश्रम घेतले

गरुड झेप अकॅडमीतर्फे स्वच्छता रॅली

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वावरे महाविद्यालयाच्या विद्यार्थ्यांनी नंदिनी नदीची केली स्वच्छता

प्रतिनिधी | नाशिक

सावित्रीबाई फुले पुणे विद्यापीठ राष्ट्रीय सेवा योजना व सिडको भागातील कर्मवीर शांतारामबापू कोंडाजी वावरे कला, विज्ञान व वाणिज्य महाविद्यालयातर्फे नंदिनी नदी परिसरात स्वच्छता मोहीम राबविण्यात आली.

महात्मा गांधी जवंतीनिमित्ताने या उपक्रमाचे आयोजन करण्यात आले. त्यानिमित्ताने सर्वत्र स्वच्छता मोहीम उपक्रम राबविले जात असताना सावित्रीबाई फुले पुणे विद्यापीठ राष्ट्रीय सेवा योजना परिपत्रकाुसार पुणे विद्यापीठ कार्यक्षेत्रातील पुणे, नगर व नाशिक जिल्ह्यात नदी स्वच्छता मोहीम राबविली जात महाविद्यालयाने आहे. नाशिक कार्यक्षेत्रातील नंदिनी नदी, सिडको, रोधे नाशिक प्लॅस्टिकमुक्तीची शपथ घेऊन आणि मोठ्या प्रमाणात कचरा गोळा करून स्वच्छता मोहीम राबविण्यात आली.

मोहिमेसाठी रासेयो या



नदीतील प्रदुषण टाळण्यासाठी हवेत प्रयत्न

नदीतील प्रदूषण टाळण्यासाठी प्रयत्न करा, नदीपात्रात घाण कचरा टाकू नका, असे आवाहन याप्रसंगी शिक्षकांनी केले, नंदिनी नदीला यंदाच्या पावसाळ्यात तीन ते चार पूर आले. त्यामुळे गाळ व झाडे, झुडपे वाहून आले आहेत. ते या अभियानात स्वच्छ करण्यात आले. परिसरातील लोकांनी नदीत कचरा टाकू नका, असे आवाहन विद्यार्थ्यांनी केले.

कार्यक्रम अधिकारी प्रा. रविराज वटणे, प्रा. वर्षा शिरोरे व जिल्हा समन्वयक प्रा. रवींद्र आहिरे, नाशिक महानगरपालिका सहायक वैद्यकीय अधिकारी डॉ. अजिता साळूंके, बी. आर. बागूल, स्वच्छता निरीक्षक, सरस्वती विद्यालय, नागरिक व मोठ्या संख्येने राष्ट्रीय सेवा योजनेचे स्वयंसेवक उपस्थित होते. उपक्रमासाठी महाविद्यालयाचे प्राचार्य डॉ. जे. डी. सोनखासकर यांचे मार्गदर्शन लाभले.

Newspaper Cutting of the Event







Systematic Line to Collect the Ganesh Idol



Ganesh Idol Collection by the Volunteers





Volunteer Photo with Member of MahanagarPalikaNashik



News cutting of the Event





Summary

The objective of the audit was to study the water utilization pattern of the college, identify the areas where water leakage and loss.

The salient observations and recommendations are given below:

- 1) MVP'S KSKW Arts, Science and Commerce College, Uttamnagar, CIDCO, Nashik uses water for drinking, washing and sanitation purpose which comes from Municipal Corporation
- 2) The campus buildings possess large terrace areas and paved as well as non-paved areas. Currently, none of the buildings have Rain Water Harvesting (RWH) System implemented. The campus has huge potential for Rain Water Harvesting. However, due to inadequate space, the RWH system is not implemented.
- 3) Operational efficiency and maintenance level of all water supply units is good
- 4) Frequent chlorination of water tanks was recommended.
- Recycling of waste water can be done in future. 5)

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