



THE COUNCIL OF EDUCATION'S
SHAHAJI LAW COLLEGE
KOLHAPUR

NAAC Cycle III

Criterion No.: 07

Metrics No.: 7.1.6



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NAAC Cycle III

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Metrics No.: 7.1.6

SHAHAJI LAW COLLEGE

NAAC Cycle III

7.1.6. QUALITY AUDITS ON ENVIRONMENT AND ENERGY

SR. NO.	EVENT
1.	Certificate of Green Audit
2.	Certificate of Energy Audit & Report of Energy Audit
3.	Certificates & Reports of Environmental Audit

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Ref: AAS/SLC/GA 2022-23

Date: 25/08/2022

TO WHOMEVER IT MAY CONSERN

We, Archana Analytical Services, conducted Green Audit 2022-2023 for Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001. This is declared that Green Audit is conducted as per the norms of Ministry of Environment and Forest, Govt. of India and allied agencies whereas applicable. Green Audit is replication of data given by institution and its actual onsite visit verification.



Dr. Vikas V Jadhav

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Laboratory Address

DST-FIST Analytical Instrumentation Laboratory,
Jaysingpur College, Jaysingpur-416101,
Tal-Shirol, Dist-Kolhapur, Maharashtra

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832


Ref: AAS/SLC/GA 2021-22

Date: 25/07/2021

TO WHOMEVER IT MAY CONSERN

We, Archana Analytical Services, conducted Green Audit 2021-2022 for Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001. This is declared that Green Audit is conducted as per the norms of Ministry of Environment and Forest, Govt. of India and allied agencies whereas applicable. Green Audit is replication of data given by institution and its actual onsite visit verification.




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Jaysingpur College, Jaysingpur-416101,
Tal-Shirol, Dist-Kolhapur, Maharashtra



Estd 2009

Shri Balasaheb Mane Shikshan Prasarak Mandal's ASHOKRAO MANE GROUP OF INSTITUTIONS

Address : Vathar Tori Vadgaon, Tal. Halkanangale, Dist. Kolhapur - 416 112 (Maharashtra)
Phone : (0230) 2407740, 2407760 **Fax :** (0230) 2407760 **Email :** director@amgol.edu.in **Website :** www.amgol.org

Approved by : AICTE, New Delhi No. F. No. MS (Newtel) 2009/708, Higher & Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai **Affiliated to :** Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad (B.Tech & M.Tech Programs), Shivaj University, Kolhapur (MBA Program)

1279

Accredited by NAAC with 'A' Grade CGPA 3.08

Founder President
Late Shri. Ashokrao Mane

Director
Dr. H. T. Jadhav, M.C., Ph.D

President
Hon. Shri. Vijaysinh A. Mane

Ref No. AMG/OJ/EE/2021-22/2305


Date 06/05/22.

CERTIFICATE

This is certified that Shahaji Law College Shahupuri, Kolhapur. has undergone detailed Green Audit of their campus and submitted necessary data and credentials for scrutiny academic year 2020-2021. The activities and measure carried out by the college have been verified based on the report submitted and was found to be satisfactory. This green audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.

Place- Kolhapur

Date:05-05-2022.


Dr. H. T. Jadhav
Director, AMGOI, Vathar
Certified Energy Auditor (BEE)
Govt. Of India, Reg. No. - EA - 3023


Coordinator
IQAC
Shahaji Law College,
Kolhapur.




Principal
Shahaji Law College, Kolhapur.

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Ref: AAS/SLC/GA 2018-19

Date: 22/08/2019

TO WHOMEVER IT MAY CONSERN

We, Archana Analytical Services, conducted Green Audit 2018-2019 for Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001. This is declared that Green Audit is conducted as per the norms of Ministry of Environment and Forest, Govt. of India and allied agencies whereas applicable. Green Audit is replication of data given by institution and its actual onsite visit verification.



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Tal-Shirol, Dist-Kolhapur, Maharashtra



Estd. 2009

Shri Balasaheb Mano Shikshan Prasarak Mandal's
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Founder President
 Late Shri. Ashokrao Mane

Director
 Dr. H. T. Jadhav, M.E., Ph.D

President
 Hon. Shri. Vijaysinh A. Mane

Ref No. :

Date :

Certificate of Energy Audit

This is to certified that **Shahaji Law College Shahupuri, Kolhapur**, has successfully undergone **Energy Audit on 17 April 2023** and assessed the electrical energy conservation, energy saving measures and sustainability in compliance with the applicable regulation, policies and standards in the campus were found to be **excellent**.

Place- Vathar Tarf Vadgaon

Dr. H. T. Jadhav
 Director AMGOI, Vathar
 Certified Energy Auditor (BEE)
 Reg. No. - EA - 3023

Coordinator
 IQAC

Shahaji Law College,
 Kolhapur.



Principal

Shahaji Law College, Kolhapur.



Shri Balasaheb Mane Shikshan Prasarak Mandal's ASHOKRAO MANE GROUP OF INSTITUTIONS

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Accredited by NAAC with 'A' Grade CGPA 3.08

1274

Founder President
Late Shri. Ashokrao Mane

Director
Dr. H. T. Jadhav, M.E., Ph.D

President
Hon. Shri. Vijaysinh A. Mane

Ref. No. : AMGOI/EE/2021-22)2304

Date : 06/05/2022.

CERTIFICATE

This is certified that Shahaji Law College Shahupuri, Kolhapur. has undergone detailed Energy Audit of their campus and submitted necessary data and credentials for scrutiny academic year 2020-2021. The activities and measure carried out by the college have been verified based on the report submitted and was found to be satisfactory. This energy audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.

Place- Kolhapur

Date:05-05-2022.

Dr. H. T. Jadhav
Director, AMGOI, Vathar
Certified Energy Auditor (BEE)
Govt. Of India, Reg. No. - EA - 3023

Coordinator
IQAC
Shahaji Law College,
Kolhapur.



Principal
Shahaji Law College, Kolhapur



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Founder President
Late Shri. Ashokrao Mane

Director
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President
Hon. Shri. Vijaysinh A. Mane

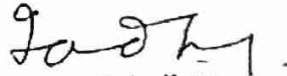
Ref. No. :

Date :

Certificate of Environmental Audit

This is to certified that Shahaji Law College Shahupuri, Kolhapur, has successfully undergone 'Environmental Audit 'on 17 April 2023 to assess the Eco-friendly initiatives planning carried out in the campus to maintain a sustainable environment to the stakeholders was found satisfactory.

Place- Vathar Tarf Vadgaon


Dr. H. T. Jadhav
Director AMGOI, Vathar
Certified Energy Auditor (BEE)
Reg. No. - EA - 3023


Coordinator
IQAC
Shahaji Law College,
Kolhapur.




Principal
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OPE Institute Code : 0217



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1276

Founder President
Late Shri. Ashokrao Mane

Director
Dr. H. T. Jadhav, M.E., Ph.D.

President
Hon. Shri. Vijaysinh A. Mane

Ref No: AMGOJ/EE/2021-22/2306

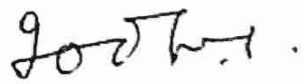
Date: 06/05/2022.

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Place- Kolhapur

Date: 05-05-2022.


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Shahaji Law College, Kolhapur



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SHAHAJI LAW COLLEGE

KOLHAPUR

NAAC Cycle III

Criterion No.: 07

Metrics No.: 7.1.6

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/DW/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Drinking Water
	Nature of sample	Liquid
Sample Collected By	Archana Analytical Services, Kolhapur.	
Drinking Water Analysis Report		

Sr. No.	Parameter	Reading	Limit	Units	Standard Method
1	pH	7.5	6.5-8.5	--	IS: 3025
2	Colour	<5	5	Hazen	IS: 3025
3	Odour	Agreeable	--	--	IS: 3025
4	Chloride	27.5	250	mg/lit	IS: 3025
5	Sulphate	16.1	200	mg/lit	IS: 3025
6	Total Hardness as CaCO ₃	46.8	300	mg/lit	IS: 3025
7	Total Dissolved solids	92.6	500	mg/lit	IS: 3025
8	Turbidity	<1	5	mg/lit	IS: 3025
9	E-coli	ND	Absent	mg/lit	IS: 1622

Water is suitable for drinking purpose.

ANALYZED BY-

Taraji Kanble

AUTHORIZED SIGNATORY



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Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, B Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Main Gate
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Main Gate			
03	Time of Sampling	Hrs	11.am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	29.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	80.5	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.7	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	9.2	25	GC-FID



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Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Third Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Third Floor Corridor			
03	Time of Sampling	Hrs	11.15am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	29.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	32.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	4.1	25	GC-FID



Tony K...
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DST-FIST Analytical Instrumentation Laboratory, Jaysingpur College, Jaysingpur-416101, Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Second Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Second Floor Corridor			
03	Time of Sampling	Hrs	11.30am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	28.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	34.8	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.7	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.4	25	GC-FID



Tanjil Kumbhar
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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	First Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	First Floor Corridor			
03	Time of Sampling	Hrs	11.45am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	28.5	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	32.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.5	25	GC-FID



Tarunji Kumbhar
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Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Gymkhana
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Gymkhana			
03	Time of Sampling	Hrs	12.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	30.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	39.8	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.2	25	GC-FID



Tanaji Karkata
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Email: archana.ehs@gmail.com

Laboratory Address

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Report No: AAN/NE/VAIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, B Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Moot Court Hall
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	

Air Sample Analysis Report

RESULTS

Br. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Moot Court Hall			
03	Time of Sampling	Hrs	12.30pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	27.6	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	34.6	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	4.8	26	GC-FID



[Signature]
AUTHORIZED SIGNATORY

Office address

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Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Library
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Library			
03	Time of Sampling	Hrs	12.45pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.8	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	32.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.5	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.2	25	GC-FID



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Laboratory Address

DST-FIST Analytical Instrumentation Laboratory, Jaysingpur College, Jaysingpur-416101, Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Principal Office
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Principal Office			
03	Time of Sampling	Hrs	1.pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	22.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	27.8	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	2.8	25	GC-FID



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Lux/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Illumination
	Nature of sample	Lux Level
Sample Collected By	Archana Analytical Services, Kolhapur.	
Illumination Observations Analysis Report		

Result

Illumination Observations				
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 11/08/2022	
	Location	Existing Illumination In LUX	Require Lux as per MFR and IS:6665	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	960+	100	Adequate
	Administrative Office	440	100	Adequate
	Principal Office	410	100	Adequate
	Library	850	100	Adequate
	First Floor Corridor	460	100	Adequate
	Second Floor Corridor	480	100	Adequate
	Third Floor Corridor	420	100	Adequate
	Moot Court Hall	410	100	Adequate
	Staff Room	430	100	Adequate
	Gymkhana	640	100	Adequate



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Noise/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Ventilation
	Nature of sample	Ventilation
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Ventilation Observations					
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 11/08/2022		
	Location	Measured Air Velocity Mt/Sec	Measured Air Velocity Mt/Min	Required as per FA in Mt/Min	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	0.7	42	30	Adequate
	Administrative Office	0.6	36	30	Adequate
	Principal Office	0.7	42	30	Adequate
	Library	0.7	42	30	Adequate
	First Floor Corridor	0.7	42	30	Adequate
	Second Floor Corridor	0.7	42	30	Adequate
	Third Floor Corridor	0.7	42	30	Adequate
	Moot Court Hall	0.6	36	30	Adequate
	Staff Room	0.7	42	30	Adequate
	Gymkhana	0.7	42	30	Adequate



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Noise
	Nature of sample	Noise
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Noise level Observations			
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 11/08/2022
Shahaji Law College Kolhapur[SLC]	Location	Measured Noise level (Category Silent Zone)	Limit as per (under rule 3(1) and 4(1) of Noise pollution (Control and Regulation), Rules 1999 (Day Time) MPCB
	Main Gate	48	50
	Administrative Office	46	50
	Principal Office	47	50
	Library	46	50
	First Floor Corridor	43	50
	Second Floor Corridor	45	50
	Third Floor Corridor	46	50
	Moot Court Hall	44	50
	Staff Room	42	50
	Gymkhana		50



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	16/08/2022
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	11/08/2022
	Start Date of Analysis	11/08/2022
	End Date of Analysis	16/08/2022
	Sample Details	Staff Room
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	11/08/2022			
02	Test Location	Staff Room			
03	Time of Sampling	Hrs	3.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	22.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	26.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.7	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	2.8	25	GC-FID



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Tal-Shirol, Dist-Kolhapur, Maharashtra

Contact: 9762629792; 8411815132

DTE Institute Code : 6217



Shri Balasaheb Mane Shikshan Prasarak Mandal's
ASHOKRAO MANE GROUP OF INSTITUTIONS

Address : Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur - 416 112 (Maharashtra)
Phone : (0230) 2407740, 2407760 **Fax** : (0230) 2407750 **Email** : director@amgoi.edu.in **Website** : www.amgoi.org

Approved by : AICTE, New Delhi No. F-No. MS (Newint) 2009 / 08, Higher & Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai. **Affiliated to** : Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad. (B.Tech. & M.Tech. Programs), Shivaji University, Kolhapur. (MBA Program).

Accredited by NAAC with 'A' Grade CGPA 3.08

Founder President
Late Shri. Ashokrao Mane

Director
Dr. H. T. Jadhav, M.E., Ph.D.

President
Hon. Shri. Vijaysinh A. Mane

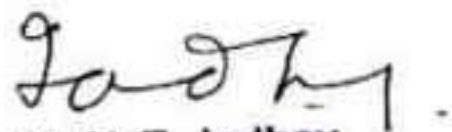
Ref. No. :

Date :

Certificate of Environmental Audit

This is to certified that **Shahaji Law College Shahupuri, Kolhapur**, has successfully undergone '**Environmental Audit**' on **17 April 2023** to assess the Eco-friendly initiatives planning carried out in the campus to maintain a sustainable environment to the stakeholders was found **satisfactory**.

Place- Vathar Tarf Vadgaon


Dr. H. T. Jadhav
Director AMGOI, Vathar
Certified Energy Auditor (BEE)
Reg. No. - EA - 3023

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/DW/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Drinking Water
	Nature of sample	Liquid
Sample Collected By	Archana Analytical Services, Kolhapur.	
Drinking Water Analysis Report		

Sr. No.	Parameter	Reading	Limit	Units	Standard Method
1	pH	7.0	6.5-8.5	--	IS: 3025
2	Colour	<5	5	Hazen	IS: 3025
3	Odour	Agreeable	--	--	IS: 3025
4	Chloride	29.6	250	mg/lit	IS: 3025
5	Sulphate	16.9	200	mg/lit	IS: 3025
6	Total Hardness as CaCO ₃	44.3	300	mg/lit	IS: 3025
7	Total Dissolved solids	91.6	500	mg/lit	IS: 3025
8	Turbidity	<1	5	mg/lit	IS: 3025
9	E-coli	ND	Absent	mg/lit	IS: 1622

Water is suitable for drinking purpose.

ANALYZED BY-

Tanaji Kumbale

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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Main Gate
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Main Gate			
03	Time of Sampling	Hrs	11.am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	32.1	100(CPCB Standards)	IS 5182 Part 2-2001
05	PM10	$\mu\text{g}/\text{M}^3$	61.8	100(CPCB Standards)	IS 5182 Part 2-2001
06	Formaldehyde	ppm	0.7	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	9.5	25	GC-FID



[Signature]
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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Third Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Third Floor Corridor			
03	Time of Sampling	Hrs	11.15am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	31.5	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.4	25	GC-FID



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Second Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Second Floor Corridor			
03	Time of Sampling	Hrs	11.30am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	31.5	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.4	25	GC-FID



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	First Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	First Floor Corridor			
03	Time of Sampling	Hrs	11.45am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	24.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	28.9	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.3	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.2	25	GC-FID



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Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Administrative Office
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Administrative Office			
03	Time of Sampling	Hrs	12.pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	31.5	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.4	25	GC-FID



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Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Gymkhana
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Gymkhana			
03	Time of Sampling	Hrs	12.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	28.9	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	32.4	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.3	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.4	25	GC-FID



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Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Moot Court Hall
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Moot Court Hall			
03	Time of Sampling	Hrs	12.30pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	27.8	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	34.6	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.3	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	4.6	25	GC-FID



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(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Library
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Library			
03	Time of Sampling	Hrs	12.45pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.8	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	30.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.2	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.8	25	GC-FID



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Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Principal Office
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Principal Office			
03	Time of Sampling	Hrs	1.pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	24.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	27.8	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.2	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	2.9	25	GC-FID



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Lux/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahapuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Illumination
	Nature of sample	Lux Level
Sample Collected By	Archana Analytical Services, Kolhapur.	
Illumination Observations Analysis Report		

Result

Illumination Observations				
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 20/07/2021	
	Location	Existing Illumination In LUX	Require Lux as per MFR and IS:6665	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	900+	100	Adequate
	Administrative Office	340	100	Adequate
	Principal Office	360	100	Adequate
	Library	750	100	Adequate
	First Floor Corridor	320	100	Adequate
	Second Floor Corridor	340	100	Adequate
	Third Floor Corridor	350	100	Adequate
	Moat Court Hall	380	100	Adequate
	Staff Room	390	100	Adequate
	Gymkhana	310	100	Adequate



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Noise/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Ventilation
	Nature of sample	Ventilation
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Ventilation Observations					
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 20/07/2021		
	Location	Measured Air Velocity Mt/Sec	Measured Air Velocity Mt/Min	Required as per FA in Mt/Min	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	0.7	42	30	Adequate
	Administrative Office	0.6	36	30	Adequate
	Principal Office	0.7	42	30	Adequate
	Library	0.6	36	30	Adequate
	First Floor Corridor	0.7	42	30	Adequate
	Second Floor Corridor	0.7	42	30	Adequate
	Third Floor Corridor	0.7	42	30	Adequate
	Moot Court Hall	0.6	36	30	Adequate
	Staff Room	0.7	42	30	Adequate
	Gymkhana	0.7	42	30	Adequate



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Noise
	Nature of sample	Noise
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Noise level Observations			
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 20/07/2021
	location	Measured Noise level (Category Silent Zone)	Limit as per (under rule 3(1) and 4(1) of Noise pollution (Control and Regulation), Rules 1999 (Day Time) MPCB
Shahaji Law College Kolhapur[SLC]	Main Gate	42	50
	Administrative Office	40	50
	Principal Office	44	50
	Library	46	50
	First Floor Corridor	40	50
	Second Floor Corridor	41	50
	Third Floor Corridor	42	50
	Moot Court Hall	40	50
	Staff Room	39	50
	Gymkhana	40	50



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Report No: AAS/SLC/AIR/July2021	Date of Report	25/07/2021
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	20/07/2021
	Start Date of Analysis	20/07/2021
	End Date of Analysis	25/07/2021
	Sample Details	Staff Room
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	20/07/2021			
02	Test Location	Staff Room			
03	Time of Sampling	Hrs	3.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	19.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	22.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.3	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	2.4	25	GC-FID



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DTE Institute Code : 6217



Estid 2009

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Phone : (0230) 2407740, 2407760 **Fax** : (0230) 2407750 **Email** : director@amgoi.edu.in **Website** : www.amgoi.org

Approved by : AICTE, New Delhi No. F-No. MS (Newint) 2009 / 08, Higher & Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai. **Affiliated to** : Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad. (B.Tech. & M.Tech. Programs), Shivaji University, Kolhapur. (MBA Program).

Accredited by NAAC with 'A' Grade CGPA 3.08

1276

Founder President
Late Shri. Ashokrao Mane

Director
Dr. H. T. Jadhav, M.E., Ph.D.

President
Hon. Shri. Vijaysinh A. Mane

Ref. No. : AMGOI/EE/2021-22/2306

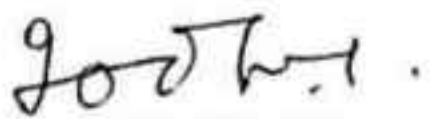
Date : 06/05/2022.

CERTIFICATE

This is certified that Shahaji Law College Shahupuri, Kolhapur. has undergone detailed Environmental Audit of their campus and submitted necessary data and credentials for scrutiny academic year 2020-2021. The activities and measure carried out by the college have been verified based on the report submitted and was found to be satisfactory. This environmental audit is also aimed to assess impact of green initiatives for maintenance of the campus eco-friendly.

Place- Kolhapur

Date:05-05-2022.


Dr. H. T. Jadhav
Director, AMGOI, Vathar
Certified Energy Auditor (BEE)
Govt. Of India, Reg. No. - EA - 3023

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/DW/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Drinking Water
	Nature of sample	Liquid
Sample Collected By	Archana Analytical Services, Kolhapur.	
Drinking Water Analysis Report		

Sr. No.	Parameter	Reading	Limit	Units	Standard Method
1	pH	7.0	6.5-8.5	--	IS: 3025
2	Colour	<5	5	Hazen	IS: 3025
3	Odour	Agreeable	--	--	IS: 3025
4	Chloride	26.4	250	mg/lit	IS: 3025
5	Sulphate	14.5	200	mg/lit	IS: 3025
6	Total Hardness as CaCO ₃	42.4	300	mg/lit	IS: 3025
7	Total Dissolved solids	89.4	500	mg/lit	IS: 3025
8	Turbidity	<1	5	mg/lit	IS: 3025
9	E-coli	ND	Absent	mg/lit	IS: 1622

Water is suitable for drinking purpose.

ANALYZED BY-



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Main Gate
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Main Gate			
03	Time of Sampling	Hrs	11.am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	28.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	59.5	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.8	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	9.2	25	GC-FID



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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Third Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Third Floor Corridor			
03	Time of Sampling	Hrs	11.15am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	28.7	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	33.4	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.5	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.9	25	GC-FID



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Second Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Second Floor Corridor			
03	Time of Sampling	Hrs	11.30am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	24.5	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	32.4	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.1	25	GC-FID



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	First Floor Corridor
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	First Floor Corridor			
03	Time of Sampling	Hrs	11.45am		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	30.1	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.5	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.8	25	GC-FID



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Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Administrative Office
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Administrative Office			
03	Time of Sampling	Hrs	12.pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	32.8	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	33.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.6	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.2	25	GC-FID



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Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Gymkhana
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Gymkhana			
03	Time of Sampling	Hrs	12.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	29.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	33.4	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.7	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.9	25	GC-FID



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Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Moot Court Hall
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Moot Court Hall			
03	Time of Sampling	Hrs	12.30pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	26.4	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	30.2	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	4.5	25	GC-FID



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Laboratory Address
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Jaysingpur College, Jaysingpur-416101,
Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Library
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Library			
03	Time of Sampling	Hrs	12.45pm		
04	PM2.5	µg/M ³	24.2	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	µg/M ³	31.2	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.4	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	3.1	25	GC-FID



[Signature]
AUTHORIZED SIGNATORY

Office address

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Contact: 940555340,
Email:archana.chs@gmail.com

Laboratory Address

DST-FIST Analytical Instrumentation Laboratory, Jaysingpur College, Jaysingpur-416101, Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Principal Office
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Principal Office			
03	Time of Sampling	Hrs	1.pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	21.5	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	25.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.3	2	GC-FID
07	Volatile Organic compounds (As Benzene)	ppm	2.9	25	GC-FID



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Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Lux/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Illumination
	Nature of sample	Lux Level
Sample Collected By	Archana Analytical Services, Kolhapur.	
Illumination Observations Analysis Report		

Result

Illumination Observations				
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 15/08/2019	
	Location	Existing Illumination In LUX	Require Lux as per MFR and IS:6665	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	950+	100	Adequate
	Administrative Office	420	100	Adequate
	Principal Office	390	100	Adequate
	Library	720	100	Adequate
	First Floor Corridor	360	100	Adequate
	Second Floor Corridor	380	100	Adequate
	Third Floor Corridor	370	100	Adequate
	Moot Court Hall	390	100	Adequate
	Staff Room	410	100	Adequate
	Gymkhana	560	100	Adequate



Tranji Kumbhar
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Laboratory Address

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Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/Noise/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Ventilation
	Nature of sample	Ventilation
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Ventilation Observations					
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 15/08/2019		
	Location	Measured Air Velocity Mt/Sec	Measured Air Velocity Mt/Min	Required as per FA in Mt/Min	Remark
Shahaji Law College Kolhapur[SLC]	Main Gate	0.7	42	30	Adequate
	Administrative Office	0.6	36	30	Adequate
	Principal Office	0.7	42	30	Adequate
	Library	0.7	42	30	Adequate
	First Floor Corridor	0.7	42	30	Adequate
	Second Floor Corridor	0.7	42	30	Adequate
	Third Floor Corridor	0.7	42	30	Adequate
	Moot Court Hall	0.6	36	30	Adequate
	Staff Room	0.7	42	30	Adequate
	Gymkhana	0.7	42	30	Adequate



T. J. K. K.
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Laboratory Address

DST-FIST Analytical Instrumentation Laboratory, Jaysingpur College, Jaysingpur-416101, Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Noise
	Nature of sample	Noise
Sample Collected By	Archana Analytical Services, Kolhapur.	
Ventilation Observations Analysis Report		

Result

Noise level Observations			
Name of Institution	Shahaji Law College Kolhapur[SLC]		Date: 15/08/2019
	location	Measured Noise level (Category Silent Zone)	Limit as per (under rule 3(1) and 4(1) of Noise pollution (Control and Regulation), Rules 1999 (Day Time) MPCB
Shahaji Law College Kolhapur[SLC]	Main Gate	46	50
	Administrative Office	45	50
	Principal Office	45	50
	Library	44	50
	First Floor Corridor	42	50
	Second Floor Corridor	43	50
	Third Floor Corridor	45	50
	Moot Court Hall	42	50
	Staff Room	40	50
	Gymkhana	48	50



Tanaji Kumbale
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Tal-Shirol, Dist-Kolhapur, Maharashtra
Contact: 9762629792; 8411815132

Archana Analytical Services

(Consultants for Environment, Health and Safety)

Udhyog Adhar Reg. No. MH15D0001832

Report No: AAS/SLC/AIR/July2021	Date of Report	20/08/2019
Client Name and Address: Shahaji Law College Kolhapur (Council of Education), 1090, E Ward, Shahupuri, Kolhapur, Dist-Kolhapur, Maharashtra, 416001	Date of Sampling	15/08/2019
	Start Date of Analysis	15/08/2019
	End Date of Analysis	20/08/2019
	Sample Details	Staff Room
	Nature of sample	Air Sample
Sample Collected By	Archana Analytical Services, Kolhapur.	
Air Sample Analysis Report		

RESULTS

Sr. No.	Description	Unit	Results	Factories act 1948 Schedule-II (Section 41F)	Reference Method
01	Date of Sampling	15/08/2019			
02	Test Location	Staff Room			
03	Time of Sampling	Hrs	3.15pm		
04	PM2.5	$\mu\text{g}/\text{M}^3$	20.8	100(CPCB Standards)	IS 5182 Part 2:2001
05	PM10	$\mu\text{g}/\text{M}^3$	21.7	100(CPCB Standards)	IS 5182 Part 2:2001
06	Formaldehyde	ppm	0.5	2	GC-FID
07	Volatile Organic compounds (As Benzene)	Ppm	2.9	25	GC-FID


AUTHORIZED SIGNATORY



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Jaysingpur College, Jaysingpur-416101,
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Contact: 9762629792; 8411815132



ENERGY AUDIT REPORT

Client Name	Shahaji Law College Shahupuri, Kolhapur Maharashtra, India
Project Name	Shahaji Law College Shahupuri, Kolhapur Maharashtra, India
Date	Year 2021-22
Submitted by	Ashokrao Mane Group of Institutions Vathar Tarf Vadgaon, Tal- Hatkanangale, Dist.-Kolhapur (Maharashtra state)

Coordinator
IQAC
Shahaji Law College,
Kolhapur.

Principal
Shahaji Law College, Kolhapur.

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ACKNOWLEDGEMENT

We appreciate the interest and participation of Honorable Management and Principal and Faculty in carrying out the energy audit at **Shahaji Law College Shahupuri, Kolhapur**. Our special thanks to Technicians and Staff involved for college who have extended their co-operation and courtesy to the energy audit team during the audit.

THE ENERGY AUDIT TEAM

Team Member

Dr. H. T. Jadhav
Certified Energy Auditor
Bureau of Energy Efficiency
Director AMGOI, Vathar Tarf Vadgaon.

Mr. R. S. Pukale
Assistant Professor
AMGOI, Vathar Tarf Vadgaon.



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Chapter	Title	Page
1	Executive Summery	05
2	Summary of savings potential in Class rooms	07
3	Summary of analysis of current energy Scenario	16
4	Scope of Work	21
5	Methodology of the Audit	22
6	Conclusion and General Recommendations of the Audit	25

1.0 EXECUTIVE SUMMARY (Lighting Load):

Recommendations	Monthly present expenditure in Rs.	Investment for the saving of expenditure in Rs.	Savings per month in Rs.	Payback period in years.
Principal Cabin Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (02 no)	Rs.= 523.152	26 W Fan - Rs.6000 04 No. fan. 18 W LED-Rs.900 02 No. LED bulb. =6900	Cost of energy Rs. 191.8224 Saving=Rs.523.152 -Rs. 191.8224 = Rs.331.329	1.8 yrs.
Office Replace 80W old fan and 40 w old tub light with energy-efficient fan (03 no) and tub light (03 no)	Rs.= 784.728	26 W Fan - Rs.9000 04 No. fan. 18 W LED- Rs.1350 03 No. LED bulb. =10350	Cost of energy Rs. 287.7336 Saving=Rs. 784.728 -Rs. 287.7336 = Rs.496.994	1.8 yrs.
Staff Room Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (03 no)	Rs.= 610.344	26 W Fan - Rs.6000 02 No. fan. 18 W LED- Rs.1350 03 No. LED bulb. =7350	Cost of energy Rs. 231.0588 Saving=Rs.610.344-Rs. 231.0588 = Rs.379.285	1.7 yrs..
Library Replace the 80W old fan with an energy-efficient fan (04 no)	Rs.=697.536	26 W Fan - Rs.12000 04 No. fan. =12000	Cost of energy Rs. 226.6992 Saving=Rs. 697.536-Rs. 226.6992 = Rs.470.836	2.1yrs..
Student Reading Room Replace 80W old fan and 40 w old tub light with energy-efficient fan (04 no) and tub light (02 no)	Rs.=871.92	26 W Fan - Rs.12000 04 No. fan. 18 W LED-Rs.900 02 No. LED bulb. =12900	Cost of energy Rs. 305.172 Saving=Rs. 871.92-Rs. 305.172 = Rs.566.748	1.10yrs
Exam Strong Room Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (02 no)	Rs.= 523.152	26 W Fan - Rs.6000 02 No. fan. 18 W LED-Rs.900 02 No. LED bulb. =6900	Cost of energy Rs. 191.8224 Saving=Rs. 523.152 -Rs. 191.8224 = Rs.331.329	1.8 yrs..
Girl Common Room Replace 80W old fan and 40 w old tub light with energy-efficient fan (01 no) and tub light (01 no)	Rs.= 261.576	26 W Fan - Rs.3000 01 No. fan. 18 W LED-Rs.450 01 No. LED bulb. =3450	Cost of energy Rs. 95.9112 Saving=Rs. 261.576-Rs. 95.9112 = Rs.165.664	1.8 yrs..
Gymkhana Replace 80W old fan and 40 w old tub light with energy-	Rs.=348.768	26 W Fan - Rs.3000 01 No. fan.	Cost of energy Rs. 152.586 Saving=Rs. 348.768-Rs. 152.586	1.6yrs.



efficient fan (01 no) and tub light (02 no)		18 W LED-Rs.900 02 No. LED bulb. =3900	= Rs.196.188	
Corridor Replace the 40W old tub light with an energy-efficient tub light (15 no).	Rs.=1220.688	18 W LED-Rs.450 15 No. LED bulb. =6750	Cost of energy Rs. 588.546 Saving=Rs. 1220.688 -Rs. 588. = Rs.632.1420	0.10yrs
Gents' student washroom Replace the 40W old tub light with an energy-efficient tub light (04 no).	Rs.=348.768	18 W LED-Rs.1800 04 No. LED bulb. =1800	Cost of energy Rs. 156.9456 Saving=Rs. 348.768-Rs. 156.9456 = Rs.191.822	0.10yrs
Gents' staff washroom Replace the 40W old tub light with an energy-efficient tub light (01 no).	Rs.=87.192	18 W LED-Rs.450 01 No. LED bulb. =450	Cost of energy Rs. 39.2364 Saving=Rs. 87.192-Rs. 39.2364 = Rs.47.9556	0.10yrs.
Ladies' staff washroom Replace the 40W old tub light with an energy-efficient tub light (01 no).	Rs.=87.192	18 W LED-Rs.450 01 No. LED bulb. =450	Cost of energy Rs. 39.2364 Saving=Rs. 87.192-Rs. 39.2364 = Rs.47.9556	0.10yrs.
Ladies' student washroom Replace the 40W old tub light with an energy-efficient tub light (02 no).	Rs.=174.384	18 W LED-Rs.900 02 No. LED bulb. =900	Cost of energy Rs. 78.4728 Saving=Rs. 174.384-Rs. 78.4728 = Rs.95.91	0.10yrs

2. SUMMARY OF SAVINGS POTENTIAL OF CLASSROOM

1) Principal Cabin

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (02 no)
2	Fan	80	2	6	160	960	0.96	
3	Computer	300	1	6	300	1800	1.8	
4	LED bulb	20	9	6	180	1080	1.08	
Total					720	4320	4.32	

2) Office

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	3	6	120	720	0.72	Replace 80W old fan and 40 w old tub light with energy-efficient fan (03 no) and tub light (03 no)
2	Fan	80	3	6	240	1440	1.44	
3	Computer	300	5	6	1500	9000	9	
4	LED bulb	20	0	6	0	0	0	
Total					1860	11160	11.16	

3) Staff Room

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	3	6	120	720	0.72	Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (03 no)
2	Fan	80	2	6	160	960	0.96	
Total					280	1680	1.68	

4) Library

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Fan	80	4	6	320	1920	1.92	Replace the 80W old fan with an energy-efficient fan (04 no)
2	Computer	300	1	6	300	1800	1.8	
3	LED bulb	20	12	6	240	1440	1.44	
Total					860	5160	5.16	



5) Student Reading Room

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace 80W old fan and 40 w old tub light with energy-efficient fan (04 no) and tub light (02 no)
2	Fan	80	4	6	320	1920	1.92	
3	Computer	300	7	6	2100	12600	12.6	
4	LED bulb	20	4	6	80	480	0.48	
Total					2580	15480	15.48	

6) Exam Strong Room

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (02 no)
2	Fan	80	2	6	160	960	0.96	
Total					240	1440	1.44	

7) Girl Common Room

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	1	6	40	240	0.24	Replace 80W old fan and 40 w old tub light with energy-efficient fan (01 no) and tub light (01 no)
2	Fan	80	1	6	80	480	0.48	
3	Computer	300	0	6	0	0	0	
4	LED bulb	20	4	6	80	480	0.48	
Total					200	1200	1.2	

8) Gymkhana

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace 80W old fan and 40 w old tub light with energy-efficient fan (01 no) and tub light (02 no)
2	Fan	80	1	6	80	480	0.48	
Total					160	960	0.96	



9) Corridor

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	15	6	600	3600	3.6	Replace the 40W old tub light with an energy-efficient tub light (15 no).
Total					600	3600	3.6	

10) Gents' student washroom

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	4	6	160	960	0.96	Replace the 40W old tub light with an energy-efficient tub light (04 no).
Total					160	960	0.96	

11) Gents' staff washroom

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	1	6	40	240	0.24	Replace the 40W old tub light with an energy-efficient tub light (01 no).
Total					40	240	0.24	

12) Ladies' staff washroom

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace the 40W old tub light with an energy-efficient tub light (01 no).
Total					80	480	0.48	

13) Ladies' student washroom

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	2	6	80	480	0.48	Replace the 40W old tub light with an energy-efficient tub light (02 no).
Total					80	480	0.48	



3. SUMMARY ANALYSIS OF CURRENT SCENARIO

3.1 ANALYSIS ENERGY METER.

As per MSEDCL tariff LT-I Residential Tariff

LT-II COMM < 20KW

Consumption Slab (kWh)	Fixed/ Demand Charge	Wheeling Charge (Rs/kWh)	Energy Charge (Rs. /kWh)
0-100 units	Three Phase - Rs. 415 per month	1.38	7.18
101 – 300 units		1.38	7.18
301 – 500 units		1.38	7.18

LT VII(B) Public Service 0-20KW

Consumption Slab (kWh)	Fixed/ Demand Charge	Wheeling Charge (Rs/kWh)	Energy Charge (Rs. /kWh)
0-100 units	Three Phase - Rs. 373 per month	1.38	4.68
101 – 300 units		1.38	4.68
301 – 500 units		1.38	4.68



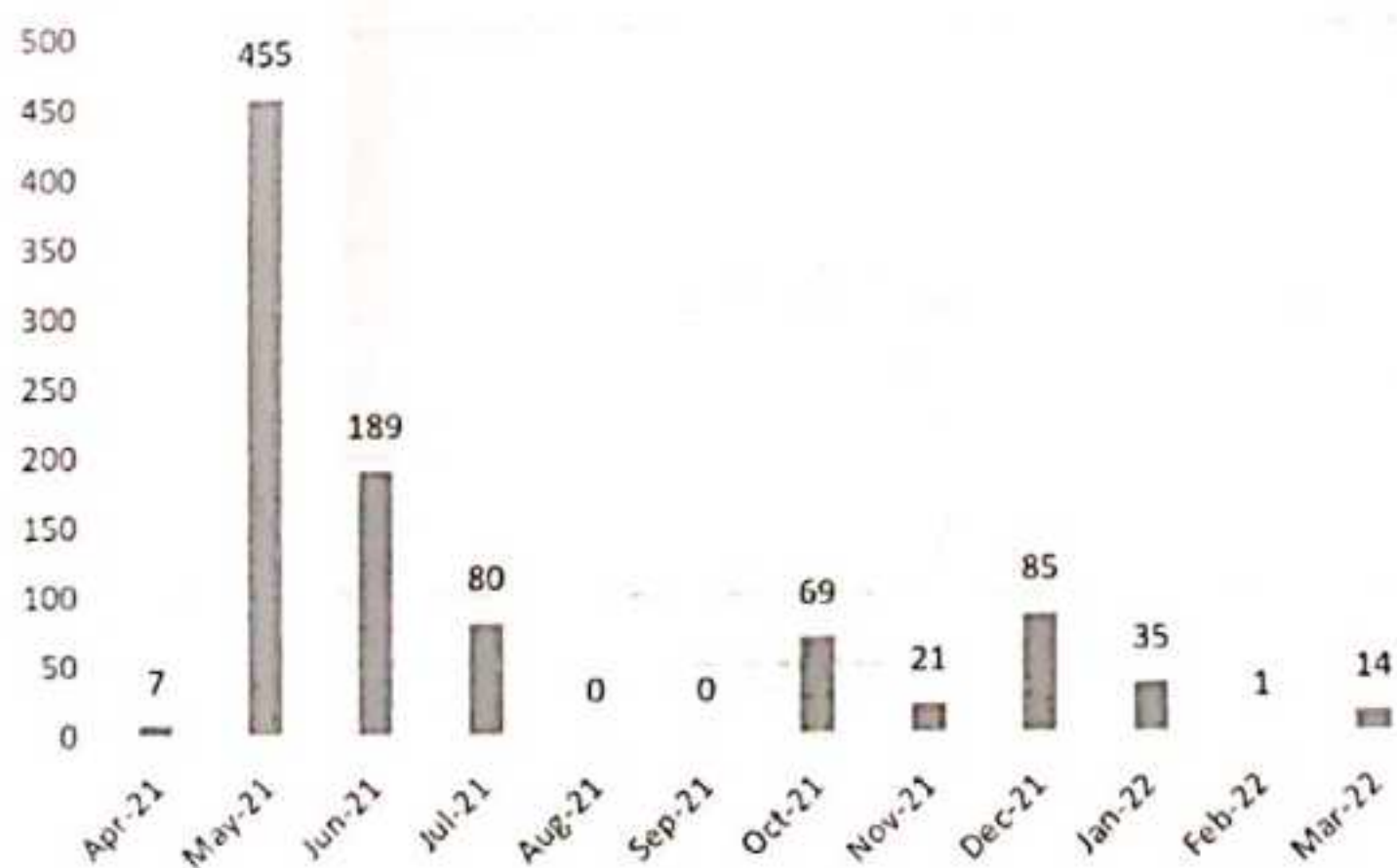
Approx. Unit charges including taxes: - Rs.12.11/- Unit

Back up for computer systems: - Online UPS system installed for all computer systems and Lab.

Maximum Consumption in year 2021/22 = May 2021 (455 units)

250643004301			
Sr.No	Month	Unit Consumed in KWh	Bill Amount, Rs.
1	Mar-22	14	540
2	Feb-22	1	200
3	Jan-22	35	720
4	Dec-21	85	1,090.00
5	Nov-21	21	90
6	Oct-21	69	970
7	Sep-21	0	380
8	Aug-21	0	390
9	Jul-21	80	1,050.00
10	Jun-21	189	2,110.00
11	May-21	455	3,650.00
12	Apr-21	7	500
	Total	956	11690
	Maximum	455	690
	Minimum	0	90
	Average	79.66667	974.1667

Unit Consumed in KWh

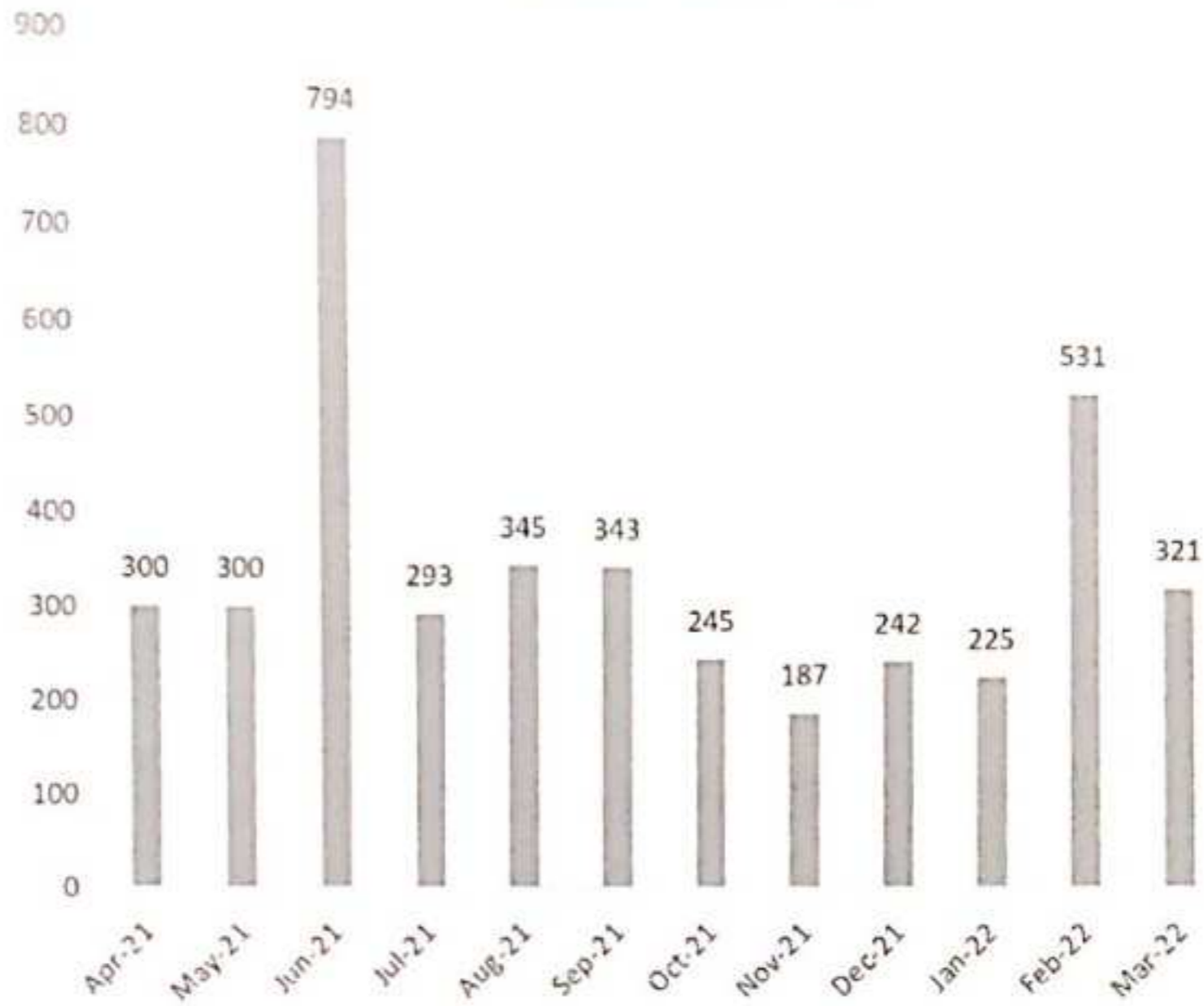


Maximum Consumption in year 2021/22 = Jun 2021 (794 units)

250648712142			
Sr. No	Month	Unit Consumed in KWh	Bill Amount, Rs.
1	Mar-22	321	3,910.00
2	Feb-22	531	3,750.00
3	Jan-22	225	2,870.00
4	Dec-21	242	3,060.00
5	Nov-21	187	2,470.00
6	Oct-21	245	3,130.00
7	Sep-21	343	4,030.00
8	Aug-21	345	4,180.00
9	Jul-21	293	3,570.00
10	Jun-21	794	5,980.00
11	May-21	300	3,390.00
12	Apr-21	300	3690
	Total	4126	44030
	Maximum	794	5,980.00
	Minimum	187	2,470.00
	Average	343.8333	3669.167



Unit Consumed in KWh

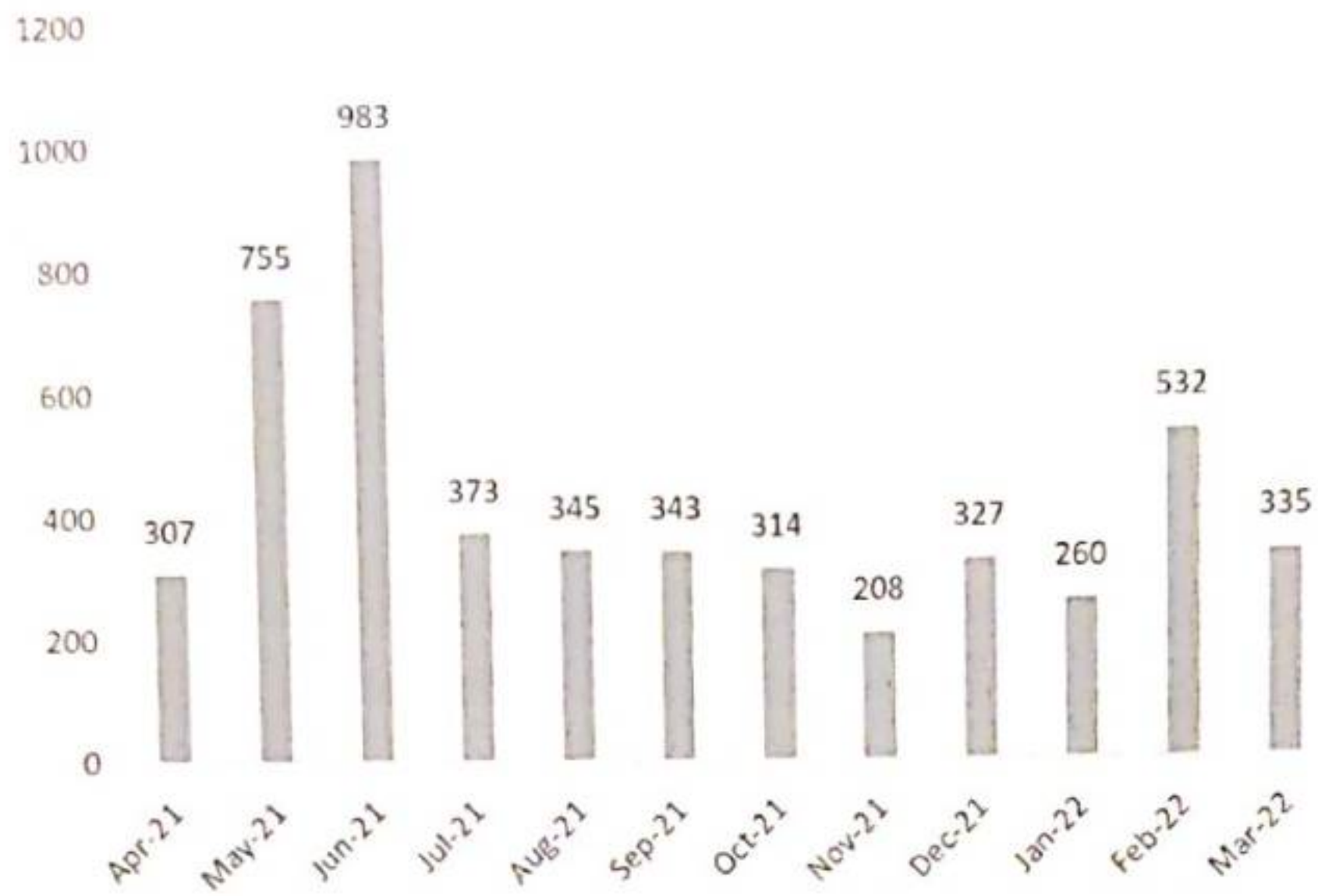


Total

Sr.No	Month	Unit Consumed in KWh	Bill Amount, Rs.
1	Mar-22	335	4450
2	Feb-22	532	3950
3	Jan-22	260	3590
4	Dec-21	327	4150
5	Nov-21	208	2560
6	Oct-21	314	4100
7	Sep-21	343	4410
8	Aug-21	345	4570
9	Jul-21	373	4620
10	Jun-21	983	8090
11	May-21	755	7040
12	Apr-21	307	4190
	Total	5082	55720
	Maximum	983	8,090.00
	Minimum	208	2,560.00
	Average	423.5	4643.333



Unit Consumed in KWh



3.3 INSTITUTE IN PROCESS TOWARDS ENERGY CONSERVATION:

- Step by step replacing the 40 Watt i.e. T12 Fluorescent Tube Lights in the class rooms and Laboratory rooms and using 18W LED which gives almost same luminous flux.
- Replacing the 80W ceiling fan in class rooms and laboratories by energy efficient fans of 26 w is much help to save the energy.



4.0 SCOPE OF WORK:

1. Detailed examination of the existing energy uses of the facility.
2. Measurement and analysis of demand and power factor, energy meter to reduce the energy bill.
3. Detailed examination of lighting system and other electrical equipment in laboratory and class rooms.
4. Survey report of lighting system in overall institute.



and monthly unit consumed by tube set = 0.24×30 days = 7.2kwh / month. Energy consumption of one tube in terms of rupees = 7.2kwh x Rs.12.11 = Rs.87.19

Specimen calculation for Fan :- A old fan capacity is 80W and used for 6 hrs. day so unit consumed by fan is $\frac{80\text{Watt} \times 6\text{hr}}{1000} = 0.48$ kwh per day and monthly unit consumed by fan = 0.48×30 days = 14.4 kwh / month. Energy consumption of fan in terms of Rs. = 14.4 kwh x Rs.12.11 = Rs.174.38.

Computer Lab has one old ceiling fan. So monthly expenditure due to fan is Rs.174.38

If old fan will have replaced by new energy efficient (BEE star rating) it will consume energy Rs. 83.16 for one month.

Principal Cabin: - Replace 80W old fan and 40 w old tub light with energy-efficient fan (02 no) and tub light (02 no)	Cost of energy Rs.523.152	26 W Fan – Rs.6000 04 No. fan. 18 W LED–Rs.900 02 No. LED bulb. =6900	Cost of energy Rs. 191.8224 Saving=Rs.523.152 -Rs.191.8225 = Rs.331.329	Payback period 1.8 yrs.
Tube set type	Cost Rs.	Payback	Life	Efficacy
T-8 LED tube light 1.00 inch	1600-2000	3-4 Yrs	10-15 Yrs.	@100-120 Lumens / watt
T-5 LED tube light 0.625 inch	500	6 month-1yr.	3-4 yrs.	110 lumens /watt

Evolution of BEE 5 star rated Fan

Speed	1	2	3	4	5
Wattage	13 W	24 W	30 W	40W	55W

Cost: - Rs. 1700 -2000 and Life: - 10-15 yrs.

Evolution of regular rated Fan

Speed	1	2	3	4	5
Wattage	14 W	26 W	39 W	48 W	76 W

Cost: - Rs. 1000 -1500 and Life: - 5-10 yrs.

A typical desktop computer uses about up to 250 watts and 20-40 watts for an LCD monitor and don't forget related devices like cable modem uses 7 watts, D-Link DI-604 router uses 4.5 watts,

To calculate your costs, use this formula:

$$\frac{\text{Watts} \times \text{Hours Used}}{1000} \times \text{Cost per kilowatt-hour} = \text{Total Cost}$$

One LCD computer consumes 1.5Kwh (Unit) per day i.e. 9Rs. Per day (300 W x 5 hrs.)

Old version computer consumes 2.5kwh(unit) per day i.e.15Rs. per day (500 W x5hrs)



6.0 CONCLUSIONS AND GENERAL RECOMMENDATION OF THE AUDIT

- a) Replace conventional tube light fittings of 40W with T-5 LED Tube light for 400 – 500 lumens light efficacy. Replace 80 W old fan by energy efficient fans.
- b) Replace old version computer system with energy efficient LCD monitor and new generation energy efficient computer systems.
- c) Ensure maximum natural day light and natural ventilation in class rooms, Labs and staff rooms i.e. when it's bright outside in the daytime, turn off the light and open blinds of windows.
- d) In fact, try to turn on lights in our cabin, labs only after the sun sets. Do your reading and writing near a window or natural illumination.
- e) Installing occupancy sensors to turn ON-OFF lighting and fan can save considerable energy.
- f) Overhead projectors, computers and UPS all use electricity for power. Be sure to unplug these types of items when they're not in use can achieve energy saving considerably.
- g) Use power "saving option" (hibernate mode) for computer and possibly switched off when not in use.
- h) Consider planting trees and shrubs in strategic locations to help to reduce the temperature and airflow in Laboratory, classroom etc. Trees planted on the west and south sides of buildings help to keep the buildings shaded during hotter weather.

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ENERGY AUDIT REPORT

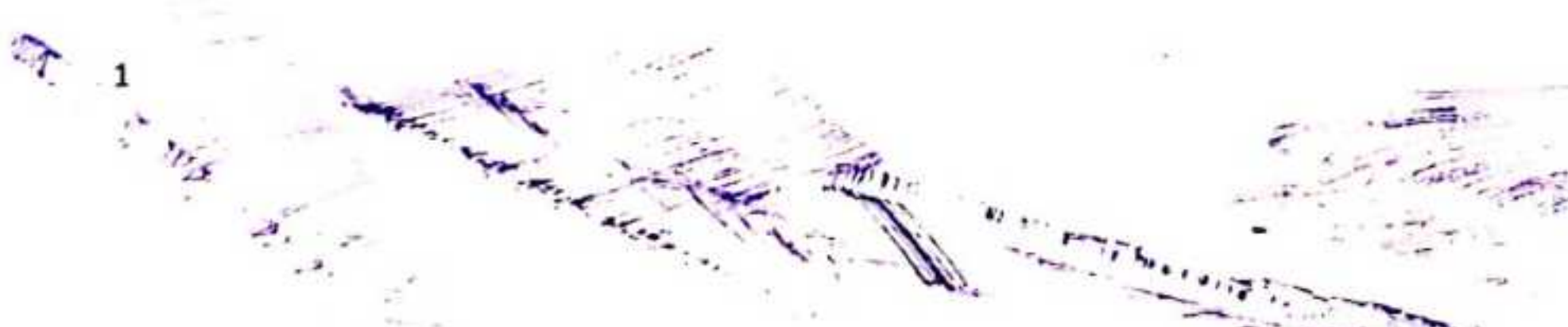
Client Name	Shahaji Law College Shahupuri, Kolhapur Maharashtra, India
Project Name	Shahaji Law College Shahupuri, Kolhapur Maharashtra, India
Date	Year 2020-21
Submitted by	Ashokrao Mane Group of Institutions Vathar Tarf Vadgaon, Tal- Hatkanangale, Dist.-Kolhapur (Maharashtra state)


Coordinator
IQAC

Shahaji Law College,
Kolhapur.


Principal
Shahaji Law College, Kolhapur

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ACKNOWLEDGEMENT

We appreciate the interest and participation of Honorable Management and Principal and Faculty in carrying out the energy audit at **Shahaji Law College Shahupuri, Kolhapur**. Our special thanks to Technicians and Staff involved for college who have extended their co-operation and courtesy to the energy audit team during the audit.



THE ENERGY AUDIT TEAM

Team Member

Dr. H. T. Jadhav
Certified Energy Auditor
Bureau of Energy Efficiency
Director AMGOI, Vathar Tarf Vadgaon.

Mr. R. S. Pukale
Assistant Professor
AMGOI, Vathar Tarf Vadgaon.



INDEX

Chapter	Title	Page
1	Executive Summery	05
2	Summary of savings potential in Class rooms	06
3	Summary of analysis of current energy Scenario	07
4	Scope of Work	10
5	Methodology of the Audit	11
6	Conclusion and General Recommendations of the Audit	13



1.0 EXECUTIVE SUMMARY (Lighting Load):

Recommendations	Monthly present expenditure in Rs.	Investment for the saving of expenditure in Rs.	Savings per month in Rs.	Payback period in years.
<p>Shahaji Law College Shahupuri, Kolhapur.</p> <p>Replace 40W Copper choke tube set by 20 W LED Tube set.</p> <p>Quantity -36 no</p> <p>Replace 80W old fan by energy efficient fan.</p> <p>Quantity -19 no</p>	Rs.= 3132.86	<p>36 W Fan – 04 No. fan. 19*3500 =Rs.66500/-</p> <p>20W LED– 36 No. LED bulb. =36*450 =Rs.16200/- Total=Rs.82700/-</p>	<p>Cost of energy Rs. 1465.88 Saving=Rs.3132.86 -Rs.1465.88 = Rs.1666.98</p>	4.3 yrs.



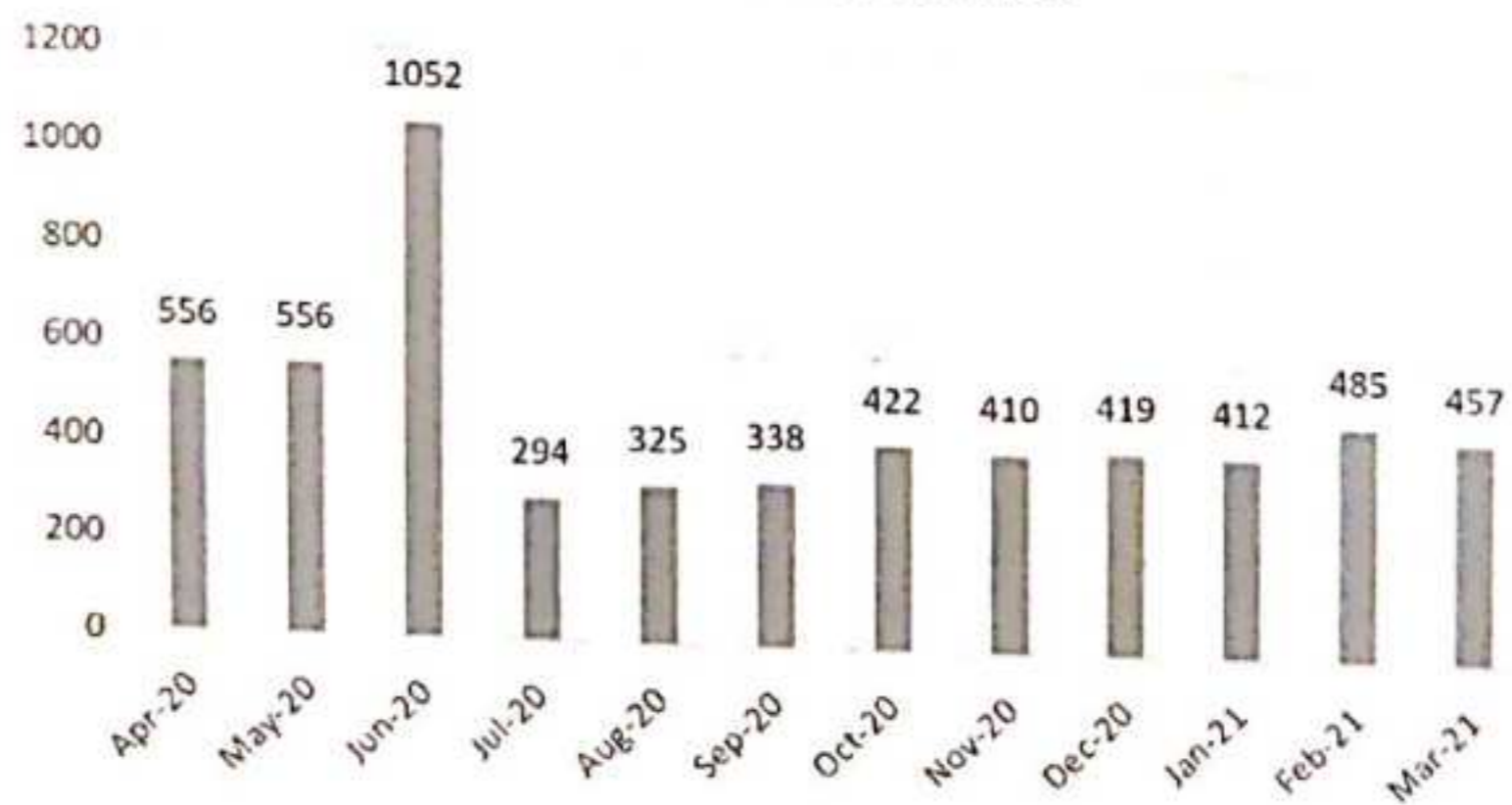
Approx. Unit charges including taxes: - Rs.8.82/- Unit

Back up for computer systems: - Online UPS system installed for all computer systems and Lab.

Maximum Consumption in year 2020-21 = Jun 2020 (1052 units)

266511043255		
Sr.No	Month	Unit Consumed in KWh
1	Apr-20	556
2	May-20	556
3	Jun-20	1052
4	Jul-20	294
5	Aug-20	325
6	Sep-20	338
7	Oct-20	422
8	Nov-20	410
9	Dec-20	419
10	Jan-21	412
11	Feb-21	485
12	Mar-21	457
	Total	5726
	Maximum	1052
	Minimum	294
	Average	477.1666667

Unit Consumed in KWh



3.3 INSTITUTE IN PROCESS TOWARDS ENERGY CONSERVATION:

- Step by step replacing the 40 Watt i.e. T12 Fluorescent Tube Lights in the class rooms and Laboratory rooms and using 18W LED which gives almost same luminous flux.
- Replacing the 80W ceiling fan in class rooms and laboratories by energy efficient fans of 26 w is much help to save the energy.



4.0 SCOPE OF WORK:

1. Detailed examination of the existing energy uses of the facility.
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3. Detailed examination of lighting system and other electrical equipment in laboratory and class rooms.
4. Survey report of lighting system in overall institute.



5. METHODOLOGY:

5.1 MEASURED LUX LEVELS:

S.no.	Location/ Area/ Room	Measured Lux	Recommended Lux Level
01	Principal Cabin	250	300
02	Office	230	300
03	Staff Room	195	300
04	Library	250	300
05	Student Reading Room	200	300
06	Exam Strong Room	210	300
07	Girl Common Room	175	300
08	Gymkhana	290	300
09	Corridor	250	300
10	Gents' student washroom	230	300
11	Gents' staff washroom	250	300
12	Ladies' staff washroom	175	300
13	Ladies' student washroom	175	300

5.2 SAVING POTENTIAL CALCULATION IN EACH CLASS ROOM AND LABORATORY:

Assumptions: - Working hours of class room, laboratory and office = Approx.6hrs
Unit for institute energy bill = Approx. Rs.8.82 / kwh

Specimen calculation for BBA Staff room.

1) Principal Cabin

Sr.no	Particulars	Wattage	Quantity	Run Time (Hr/Day)	Total wattage	Watt Hours/Day	Energy consumed per day kWh/day	Recommendation
1	Tub light	40	4	6	160	960	0.96	Replace 40W old tube light (04 no) & 80W old fan (02 no) by energy efficient tube light & fan.
2	Fan	80	2	6	160	960	0.96	
3	Computer	300	1	6	300	1800	1.8	
4	LED bulb	20	6	6	120	720	0.72	
Total					740	4440	4.44	

Specimen calculation for tube set :- Energy consumption of conventional tube light set :- 40Watt capacity tube set used for 6 hrs per day so unit consumed by tube is $\frac{40\text{Watt} \times 6\text{hr}}{1000} = 0.24\text{kwh}$ per day and monthly unit consumed by tube set = 0.24×30 days = 7.2kwh / month. Energy consumption of one tube in terms of rupees = 7.2kwh x Rs.8.82 = Rs.63.50.



Specimen calculation for Fan :- A old fan capacity is 80W and used for 6 hrs. day so unit consumed by fan is $\frac{80\text{Watt} \times 6\text{hr}}{1000} = 0.48$ kwh per day and monthly unit consumed by fan = 0.48×30 days = 14.4 kwh / month. Energy consumption of fan in terms of Rs. = 14.4 kwh x Rs.8.82 = Rs.127.

Computer Lab has one old ceiling fan. So monthly expenditure due to fan is Rs.127.

If old fan will have replaced by new energy efficient (BEE star rating) it will consume energy Rs. 37.04 for one month.

Principal Cabin: - Replace 80W old fan and 40 w old tub light with energy-efficient fan (04 no) and tub light (02 no)	Cost of energy Rs.338.68	35 W Fan – Rs.7000 02 No. fan, 18 W LED–Rs.900 02 No. LED bulb. =7900	Cost of energy Rs. 158.76 Saving=Rs.338.68 -Rs.158.76 = Rs.179.92	Payback period 4 yrs.
Tube set type	Cost Rs.	Payback	Life	Efficacy
T-8 LED tube light 1.00 inch	1600-2000	3-4 Yrs	10-15 Yrs.	@100-120 Lumens / watt
T-5 LED tube light 0.625 inch	500	6 month-1yr.	3-4 yrs.	110 lumens /watt

Evolution of BEE 5 star rated Fan

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Wattage	14 W	26 W	39 W	48 W	76 W

Cost: - Rs. 1000 -1500 and Life: - 5-10 yrs.

A typical desktop computer uses about up to 250 watts and 20-40 watts for an LCD monitor and don't forget related devices like cable modem uses 7 watts, D-Link DI-604 router uses 4.5 watts,

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One LCD computer consumes 1.5Kwh (Unit) per day i.e. 9Rs. Per day (300 W x 5 hrs.)

Old version computer consumes 2.5kwh(unit) per day i.e.15Rs. per day (500 W x5hrs)


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6.0 CONCLUSIONS AND GENERAL RECOMMENDATION OF THE AUDIT

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THE COUNCIL OF EDUCATION'S
SHAHAJI LAW COLLEGE
KOLHAPUR

NAAC Cycle III

Criterion No.: 07

Metrics No.: 7.1.6

SHAHAJI LAW COLLEGE

NAAC Cycle III

7.1.6. BEYOND THE CAMPUS ENVIRONMENTAL PROMOTION ACTIVITIES

Sr. No.	EVENT
4.a	Environmental Study Tour at “Yashwantrao Chavan Wildlife Sanctuary” at Sagareshwar on 24/9/2022
4.b	Environmental Study Tour at “Dajipur Wildlife Sanctuary” at Dajipur on 28/10/2021
4.c	Environmental Study Tour at “Late Uttamrao Patil Bio Diversity Park at Kagal on 24/2/2020

One Day Environmental Study Tour at "YASHVANTRAO CHAVAN WILD LIFE SANTUARY", Sagareshwar on 24/09/2022.

Principal Dr R Narayana, Asso. Prof. Dr Mrs S R Rasam, Adv Megha Thombare, Shri Vaibhav Kale and 185 students of Shahaji Law College participated in the said event. Coordinated by Professor Dr M C Sheikh. To know the working and function of Wild Life Act, 1972 is the main objective of this very environmental study tour.




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2022 - 23

ENVIRONMENTAL STUDY TOUR

DATE 25/09/2022

YASHVANTRAO CHAVAN SAGARESHWAR

WILD LIFE SANTUARY,

Established on 16th Oct 1985

Area : 1087.75 Hc

Object/Aim:

1. To know the practical aspects of Wild Life Protection Act, 1972
2. To know the working and Authorities constituted under

Beneficiary/ Participants : I LL.B. students

Participants

Co-ordinator : Dr. M.C. Sheikh, Profes:

Accompanying staff (Co-ordinator) : Dr. S.R. Rasam Asso.P

Principal Dr. R. Narayana

Faculty: Adv. Mrs. Megha Thombare

Admin. staff: Shri. Yaibhav Kale, Office Superinte
Shri. Rahul Pandat, Peon.

SAGARESHWAR WILDLIFE SANCTUARY

Introduction

Wildlife is defined under section 2 (37) of the wildlife protection Act 1972 to include any animal either, aquatic or terrestrial and vegetation that forms a part of any habitat.

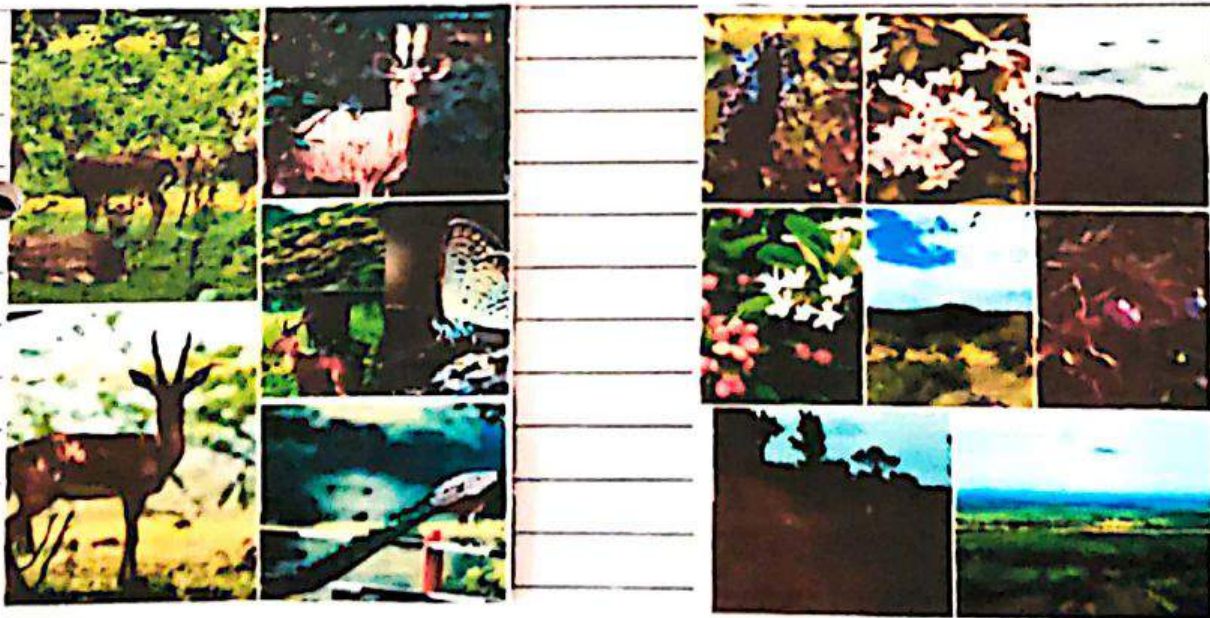
Sagareshwar wildlife sanctuary is a protected area in the meeting of three Tehsils of Sangli district: Kandegevan, waha and palus. The wildlife sanctuary is man-made; it is an artificially cultivated forest without a perennial supply of water, and most of the wildlife species were artificially introduced. It has an area of 1087 km².



Geography : Flora and Fauna

This sanctuary covers total area of 1037.54 km. and mostly comprises forest areas with grassy hill slopes. It is home to a total of 52 species of fauna which includes animals like wild goats, wild cows, rabbits, deer, jackals, peacocks, black bucks, cheetahs, sambors, hyenas, foxes, barking deer, and porcupines. A large number of insects, birds and reptiles such as pythons and other snakes are also present.

The forests are southern dry mixed deciduous and southern thorn forest. Protection from grazing and forest fire has resulted in good department introduced many plants in the area including Tamarind, Neem, Nilgiri, Acacia, Agave, and Khair.



Weather / climate.

The region has a hot - semi arid climate year-round with an average temperature ranging from 19-33 degrees celsius. April and May are the hottest months where the temperature reaches up to 42 degrees celsius. winters are extreme, and the temperature can go as low as 10 degrees celsius at night, but the average daytime temperature is around 26 degrees celsius. The annual rainfall in the region is around 763 mm. The best time of visit the sanctuary is from August to February. Timings 8.00 Am - 05.30 Pm, closed on Tuesday. Entry Rs 55 per person.

Tourism

The sanctuary is a popular tourist destination, with the peak tourism season being from August to February. The most popular tourist activity is hiking to the top of a hill in the sanctuary, from one can see the Kishna River flowing through fields of sugarcane and guavas. Also in the area are numerous shrines to Shiva which were built during the Chalukya dynasty, and the Krishna Valley wine park in Palus. Kundal the region around Sangli, was the capital of the Chalukyas, a historical place.



Conclusion

The wildlife sanctuaries are established to protect the endangered species. It is quite difficult to always relocate the animals from their natural habitat, therefore, protecting them in their natural habitat, therefore, protecting them in their natural environment is advantageous. The endangered species are specially monitored in the wildlife sanctuaries.

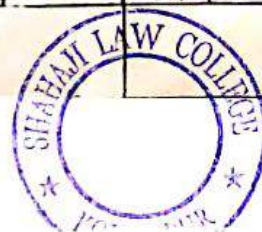
Like wildlife is also a natural resource which not only helps in maintaining the ecological balance but is also beneficial from economic, recreational and aesthetic points of view. There was a time when human interference was minimum the number of wild animals was quite high and there was protection or conservation.



STUDENT PARTICIPANTS

24.03.2022

222	Bharat Shivadi Narale	Bharale
02	Manjiri H. Kulkarni	Manj.
162	Aditi U. Gadekar E.	Gadekar
29	Sanjay S. Suryavanshi	Suryav.
134	Gauri S. Desai	Desai
166	Vaishnavi B. Shelake	Shelake
148	Mayuri P. Powar	Mayuri
39	Dipali Vishnu Patil	Patil
67	Vaishnavi Appasaheb Patil	Patil
260	Amruta Anand Patil	Patil
46	Siddhi Ravalnath Sutar	Sutar
47	Branav Vishwas Pawarskar	Pawarskar
156	Rahul Yashwant Kamble	Kamble
106	Ashish Gajanan Shinde	Shinde
107	Akash Sanjay More	More
79	Sheetal Wattaraj Patil	Patil
98	Pranjali Prakash Methe	Methe
99	Varada Guresh Powar	Powar
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	Gauri S. Desai	Desai
33	Parvez P. Sanadi	Sanadi
34	Aditya Sanjay Gadave	Gadave
	Vishendra Rajgonda Patil	Patil
12	Supriya Vishwas Tadhar	Tadhar
13	Anita Umesh Patankar	Patankar
268	Ranjana Laxman Lambore	Lambore
132	Shradha Sudhakar Shinde	Shinde
86	Utkarsh S. Patankar	Patankar
149	Branav V. Pawarskar	Pawarskar
47	Vinashri Balu Kage	Kage
12	Dhanashri M. Kulkarni	Kulkarni



170	Smelal Nandkumar Kothavale	sktbavul	
110	Suvarna Rajaram Pol	Smel	
234	Amraja Santosh Salokhe	Sub.	
181	Saloni Babaraje Tade	Sub	
103	priyanka sudhir suryavanshi	Ps.	
140	Sadiya Riyaz mulla	Smulla	
256.	Anuja Abhay mirashi	Amuja	
56	Suraj sunil Surve	Surve	
144	Jameer Tajuddin Nayakwade	Jameer	
243	Gautam madhukar kamble	Gautam	
226	Ayan Harun mujawar	Ayan	
254	Amogh Keshav Tashi	Amogh	
08	Ponmai .M. Kalkar	Ponmai	
254	Patil Rahul chandrakant	Patil	
210	Kalekar Digvijay Chandrakant	Patil	
215	Goralch Shantinath Ghosarwade	Patil	
194	patil Bheuso keetaba	Patil	
81	choudhar Akshay onjander	AKH	IP
38	Bedekar Aditya Arinash	ABedk	
208	Patil Kumar Arun	Patil	
105	kamble Mahesh madhukar	Patil	
84	sagar bhitroov patil	Patil	
33	Javool Shabbir Patil	JPatil	
135	viroj vikar Bhosale	V.K.	


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One Day Environmental Study Tour at Dajipur Wildlife Sanctuary

Date - 25th Oct. 2021



Study tour at - Dajipur Wildlife Sanctuary
Location - Radhanagari, Kolhapur

Establishment - year 1958

Area - 351.16 sq.km and 1200m above
the sea level.

Governing Body - Maharashtra Forest Dept.

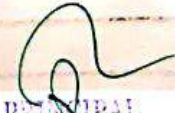
World Heritage - since 2012

Objectives of - i] To learn the practical
study tour aspects of sanctuaries under
Wildlife Protection Act, 1972

ii] To study the working and
functions of Forest Officers


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Dajipur Wildlife Sanctuary, now known as Radhanagari Wildlife Sanctuary. It was declared as First Wildlife Sanctuary in 1958 within Maharashtra. It is a natural World Heritage site since 2012 located at Kolhapur district. It lies at the southern end of the Sahyadri hills. This Dajipur Wildlife Sanctuary is popularly known as the "Bison Sanctuary".

Under the co-ordinationship of Prof. Dr. M.C. Sheikh sir and Prof. Dr. S.K. Pasam ma'am this 'Environmental Study Tour' was organised for the students who participated in 'Tree Plantation Drive' and winners of 'Elocution Competition' under 'Environmental Law', at Dajipur, Radhanagari.

For this study tour, we submitted the letter to the 'Chief Conservator of Forests' for permission to visit and to provide us transportation facility, and they permitted to us visit there and also provided us bus for transportation.

Our journey towards Radhanagari Wildlife Sanctuary started at 7.00 am. with 11 students and 4 teachers i.e. our Principal Dr. R. Narayana sir, Prof. Dr. M.C. Sheikh sir, Prof. Dr. S.K. Pasam ma'am and Librarian Kailash Pawar sir. Firstly we visited the Butterfly Garden (Fulphani Garden). In this garden Mr. Rakesh Ombade, a member of Bison Nature Club gave us a lot of information about Dajipur Wildlife Sanctuary. As per the information given by him, Dajipur Wildlife Sanctuary has covered area of 351.16 sq.km. out of this about 100 sq.km. is available for tourism and the remaining

251 sq. km is a core area and no one is allowed to go there. There are about 800 to 1000 Bison, for which this wildlife sanctuary is famous. There are other type of diversities also. This sanctuary is home of a wide variety of animals, birds, reptiles and butterflies. There are 131 species of butterflies have been recorded in this wildlife sanctuary. out of these 41 species are found in the Butterfly Garden. There are various types of trees in this Butterfly Garden such as Samai flower, Badak flower, Haladi-kunda, in Khukhula, etc.


After this we visited 'Elephant Palace' (Hattimahal), Hattimahal is a building built by Shahu Maharaj where Elephants were kept. Then we also visited to Devrai temple as well as Konkandashan point where boundary of Kolhapur District ends and of Sindhudurg District starts.

We then visited the 'National Information Centre' of Rajapur Wildlife sanctuary. Here we got detailed information about all animals, birds, trees etc which found in this sanctuary. The Radhanagar Wildlife sanctuary contains tropical evergreen forests. 425 species of plants have been recorded in the sanctuary. sanctuary also contains 47 species of mammals, 59 species of reptiles, 264 species of birds. To see this information centre we travelled there by cycle.


After that we had lunch near a pond and after lunch we visited

to Rautwadi Waterfall and lastly to the Radhanagar Dam. And our study tour ended by reaching at Shahaji Law College at 6.00 pm with lots of information, knowledge and memories.




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One Day Environmental Study Tour At- Late. Uttamrao Patil Bio-Diversity Park, Kagal.

One day Environmental Study Tour was arranged on 25th February 2020 At-Late Uttamrao Patil Bio-Diversity Park, And Babasaheb Ambedkar Nursery, Kagal which was situated at Pune-Bangalore Highway. The CO-ordinator for the tour was Dr. M.C. Sheikh Sir, and Dr. S.R. Rasam Madam. The Forest officers Mr. Waghwade Sir, Mr. Devardekar Sir and Mr. Dipak Khade Sir, vice-Director - Social Afforestation Department, Kolhapur were also present for interaction session.

Mr. Waghwade Sir told us wide information of Bio-diversity Park and Babasaheb Ambedkar Nursery. He interact with students. He told that only forest plant species are available in Nursery. The state government provides funds time to time for preservation and protection of forest species. Bio-diversity Park situated in 58 hectares of land. and Nursery in 9 hectares. In Previous Year 102 species of plants were in Nursery. Each plant has medicinal value. There are well, Borewell for water resource, irrigation. Nearly 1,75,000 plants were sold in Year 2019. There are 11 labourers working in Bio-Diversity Park and Nursery. One of the labour named Tanaji gave the information and Demo of 'Mahagani' Plant. He worked in Nursery since 1982. He shared his experience with Dipak Khade Sir

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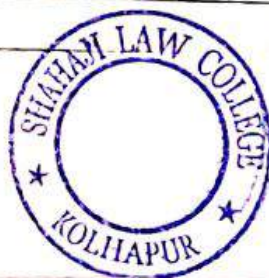
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also interact with us. He concluded the interaction session with a request to law students that they should study the forest and environmental cases thoroughly and check whether it is false case or not. After interaction session we went for observation and visit to Bio-diversity Park with forest officers. We saw there various plant species such as Shami, Bamboo, Sal, Iron, wood tree, Cluster, Fig, Kuchala, Jack fruit, Cane, etc. We also saw Forest lake, Rock Garden, Butterfly garden etc. Then we took group photographs and finished the Study tour with 'Vanbhajan' [Group lunch Activity.]

Co-ordinator : Dr. M. C. Sheikh

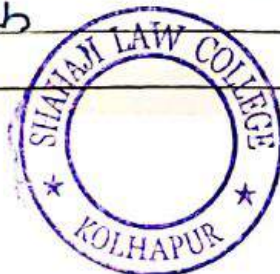


A Group photo with students.





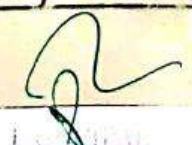
Addressing to the students by
Dr. Sheikh



1. Drishhti Shantlal Patel Pre.Law I 9250119710 Prashant
2. Saniya Javed Makhamalla Pre Law I 7620202033 Prashant
3. Shripada Sunil Tate Pre Law I 9325313593 Prashant
4. Shivali Sunil Satpute ————— 8010918970 Prashant
5. Shivani Sunil Bongale ————— 9359167530 Prashant
- Sanika Sunil Hawal ————— 9805673373 Prashant
6. Kage Vinachri Balu III LLB 7620617619 Prashant
7. Pooja Naitawade III LLB 9022235952 Prashant
8. Njit Bagi J LLB 8222924466 Prashant
9. Akshay Tanaji Bhavake IV NLC 9234763947 Prashant
10. Yash Padmakar Gujar IV NLC 7327192552 Prashant
11. Priyanka Krishnat Tawade IV NLC 7385367662 Prashant
12. Gauri Shivaji Patil IV NLC 8956179411 Prashant
13. Pooja Urnesh Kulkarni IV NLC 2956155702 Prashant
14. Harshada Ananda Porlekar Pre Law I 8788569966 Prashant
15. Sampada Sachin Kulkarni Pre Law I 7558405934 Prashant
16. Vinod Rajaram Bhoide LLB I 7972293562 Prashant
17. Samruddhi Prashant More IV NLC 8788797799 Prashant


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Cleanliness awareness programme was held on 16th Sept, 2019, at Chh. Shahu terminus Kolhapur, by Shahaji Law, College, Kolhapur and Usharaje Girls High-School, Kolhapur Under the co-ordination of Dr. M.C. Sheikh Sir program was took place.

While addressing the programme Shri. Anil Ghatge Sir mentioned the importance of Cleanliness in India. Clean environment plays vital role in our life and this is our responsibility to keep it clean. His words motivate students for clean environment. After his speech we all took the pledge of cleanliness.

स्वच्छता रापथ

महात्मा गांधी ने जिसे भारत का सपना देखा था उसमें सिर्फ राजनैतिक आजादी ही नहीं थी, बल्कि एक स्वच्छ एवं विकसित देश की कल्पना भी थी। महात्मा गांधी ने गुलामी की जंजीरों को तोड़कर माँ भारती को आजाद कराया। अब हमारा कर्तव्य है कि गंदगी को दूर करके भारत माता की सेवा करें। मैं रापथ लेता हूँ कि,

मैं स्वयं स्वच्छता के प्रति सजग रहूँगा और उसके बिप समय दूँगा।

हर वर्ष 300 घंटे यानी हर सप्ताह 2 घंटे प्रमदान करके स्वच्छता के इस संकल्प को चरितार्थ करूँगा। मैं न गंदगी करूँगा न किसी और को करने दूँगा। सबसे पहले मैं स्वयं से, मेरे परिवार से मेरे मुहल्ले से, मेरे गांव से एवं मेरे कार्यस्थल से शुरुआत करूँगा।

मैं यह मानता हूँ कि दुनिया के जो भी देश स्वच्छ दिखाते हैं उसका कारण यह है कि वहाँ के नागरिक गंदगी नहीं करते और न ही होने देते हैं। इस विचार के साथ मैं गांव-गांव और गली-गली स्वच्छ भारत मिशन का प्रचा करूँगा।

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Principal

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में आज जो शपथ ले रहा हूँ, वह अन्य 300
व्यक्तियों से भी करवाऊँगा। वे भी मेरी तरह स्वच्छता
के लिए 300 घंटे दें, उसके लिए प्रयास करूँगा। मुझे
मात्रुम है कि, स्वच्छता की तरह बढ़ाया गया मेरा एक
कदम पूरे भारत देश की स्वच्छ बनाने में मदद करेगा।

Narendra Kamble and his team (Students
of SLIC) presented a drama to create awareness
among people for cleanliness. The drama was
speaking about attitude of people towards clea-
nness. It was full of incidences where people
behave wrongly like throwing garbage at
public places, spitting using plastic bags etc.

Then students of SLIC and Usharaje
High-School jointly participated in rally on rail
platform. In that rally we used slogans like
'Clean India, beautiful India.' 'Clean rail, Clean
India'.

Programme was concluded with distrib-
ution of tea and biscuits.

Co-ordinator : Dr. M.C. Sheikh.

In presence of :

- 1> R. Narayan (Principal of SLIC)
- 2> Anil Ghadge.
- 3> Dr. Savita Rasam.
- 4> Mrs. Suchita Surgihali.
- 5> Panhalkar Sir.



श्री उद्यपती शाहू महासाज टर्मिनस
कोल्हापूर





One-act-play by students in the premises of Central Railway Station, Kolhapur.



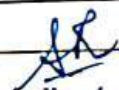


One Day Environmental Study
Tour at Late. Uttamrao Patil Bio-diversity
Park and Nursery. 24/02/20


Sr. No.	Name	Roll No.	Sign
1.	Shivani Pramod Kalantre IV NLC	01	<u>Shivani</u>
2.	Divya Navin Khataikar IV NLC	02	<u>Divya</u>
3.	Sumitra Sunil Kawade IV NLC	25	<u>Sumitra</u>
4.	Nikita Vasantao Patil LLB-II	02	<u>Nikita</u>
5.	Amruta Dhondiram Jadhav IV NLC	09	<u>Amruta</u>
6.	Spehal Ajay Sonavane IV NLC	15	<u>Spehal</u>
7.	Oak Ambika Shivaji II LL.B	09	<u>Oak</u>
8.	Jadhav Tejashri Ashok IV NLC	38	<u>Jadhav</u>
9.	Benade Mayzei Sanjay IV NLC	22	<u>Benade</u>
10.	Siddhi Parmit Gurav IV NLC	27	<u>Siddhi</u>
11.	Amruta Pralhad Walvekar IV NLC	35	<u>A.P.W</u>
12.	KUSUM Ranjit Mulik II LL.B	25	<u>KRMulik</u>
13.	Vajeamshti Anurupa Sunil II LL.B	66	<u>Vajeamshti</u>
14.	Ashwini Balasaheb Patil. LL.B II	70	<u>Ashwini</u>
15.	HANBAR KASAL SURESH LL.B II	36	<u>HKS</u>
16.	Anisa Shahajahan Mullani. LLB II	32	<u>Anisa</u>
17.	Sunita Bajrang Bhatre Parit LLB II	31	<u>Sunita</u>



SR NO.	Name	Roll No	Sign -
18.	Reshma Rajarikant Bedagkar II LLB	72	PR Bedagkar
19.	Shweta Nivas Nalk. IV NLC	52	SNB.
20.	Tejaswini chandrakant kase IV NLC	19	Tejaswini
21	Jash. Jash. Hegdepatil	32	Jash. Hegdepatil
22	Kaustmat. Suresh Duma	16	Kaustmat.
23	Dipak Santosh kulkarni	11	Dipak
24	Agnish vijay Tarade. IV NLC	04	A.V. Tarade


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