

Annexure

Annexure-A

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Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
Green Audit:2014-2015
Energy Audit : Form A

Form A:-I

(Please see instructions carefully before filling the data sheet)

Energy Use Survey		
Jr. wing / Sr. Wing	Department-	Month-
Energy is – <input type="checkbox"/> Generated on –site <input type="checkbox"/> Supplied by utility(MSEB) <input type="checkbox"/> Other supplier	Energy products used- <input type="checkbox"/> Electricity <input type="checkbox"/> Liquid petroleum/Fluid oil <input type="checkbox"/> Natural gases <input type="checkbox"/> Renewable(solar,wind, etc)	Main Energy Use- <input type="checkbox"/> Office use <input type="checkbox"/> Laboratory <input type="checkbox"/> Transportation <input type="checkbox"/> For classroom practices/ICT <input type="checkbox"/> Other (mention if any)
Number of Employees(All)-	Number of students- Number of Visitors-	Total average occupancy- Hours

(Table.1.) Existing Major Energy - Consuming Equipments in Departments, Labs., and others:

Sr. No.	Equipments	Location	Type	Units	Make / Model	Energy use in watts (see chart enclosed)	Total use of all units in day in hour (sum of use of units)	Total use per day in Watt – Hour (col.7 x col.8)	Total Use / week (col.9 x 6 days) in Watt-hour	KWh/week ($\frac{col.10}{1000}$) kWh	kWh/Month (Col.11 x 4 weeks)
1	2	3	4	5	6	7	8	9	10	11	12
1.											
2.											
3.											

(Table.2.) Existing Less Energy – Consuming (i.e, Fans, Computers and other)Electrical Equipments:

Sr. No.	Equipments	Location	Type	Units	Make / Model	Energy use in watts	Total use of all units in day in hour (sum of use of units)	Total use per day in Watt – Hour (col.7 x col.8)	Total Use / week (col.9 x 6 days) in Watt-hour	KWh/week ($\frac{col.10}{1000}$) kWh	kWh/Month (Col.11x 4 weeks)
1	2	3	4	5	6	7	8	9	10	11	12
1.											
2.											
3.											

Form A:-II

Lightning Use Survey-		
Jr. wing / Sr. Wing	Department-	Month-
For Lighting is Used – <input type="checkbox"/> Incandescent bulbs <input type="checkbox"/> Fluorescent Tubes <input type="checkbox"/> CFL(Compact Fluorescent Lamp) <input type="checkbox"/> HID(High Intensity Discharge) Lamp <input type="checkbox"/> LED Bulbs <input type="checkbox"/> LED Tubes	Fluorescent Ballasts used- <input type="checkbox"/> Electronic <input type="checkbox"/> Magnetic <input type="checkbox"/> Mechanical <input type="checkbox"/> Unknown <input type="checkbox"/> None	Main Lighting Usages- <input type="checkbox"/> Office use <input type="checkbox"/> Laboratory <input type="checkbox"/> For classroom practices <input type="checkbox"/> Exterior <input type="checkbox"/> Other (specify if any)
Number of Employees(All)-	Number of students- Number of Visitors-	Total average occupancy-Hours
Occupancy Schedule	Week Days: -----am to -----pm	Weekends/Holiday (If applicable) -----am to -----pm
Is There enough ventilation and adequate natural light in department, and in classroom?		<input type="checkbox"/> Yes <input type="checkbox"/> No

(Table.3.)Existing Lighting Equipments Used

Sr. No.	Equip ments/ Lighting Type	Locat -ion	Ballasts Type (If applicabl e)	Typ e	Units	Make / Model	Energy use in watts	Total use of all units in day in hour (sum of use of units)	Total use per day in Watt – Hour (col.7 x col.8)	Total Use / week (col.9 x 6 days) in Watt-hour	KWh /wee k (col.10 x 4 weeks)	kWh/M onth (Col.11 x 4 weeks)
1.	2	3	4	5	6	7	8	9	10	11	12	13
2.												

Form A:-III**(Table.4.)Transportation Carbon Footprint Survey:-**

Jr. wing / Sr. Wing	Department-		Month-			
Department / Institute Owned Vehicles						
Sr.No.	Type of Vehicle	Vehicle Make/Model/ Year	Vehicle Number	Average Km/Liter	Total Km/Month	Average liter of Fuel/ Month
1	Two wheeler					
2	Four wheeler					
3	Other					

(Table.5.)Employee, Students and Visitors Vehicle Survey					
Number of students come to college by walk-					
Number of students using bicycle -					
Number of students using state transportation vehicle (ST bus) -					
Number of students using Private transportation -					
Number of students using vehicles in sharing-					
Type of Vehicle	Vehicle Make/Model/Year	Vehicle Number	Average Km/Liter	Total Km/Month	Average liter of Fuel/ Month
Two wheeler					
Four Wheeler					
Other					

Form A:-IV**(Table.6.) Total Energy Use Worksheet for Department of -----, Jr. Wing/ Sr. Wing**

Sr. No.	Year-2014-2015 Month	Natural Gas		Electricity		Fuel Oil (in Liters)	
		Kg	Total Amount	kWh	Total Amount	Liters	Total Amount
1	January						
2	February						
3	March						
4	April						
5	May						
6	June						
7	July						
8	August						
9	September						
10	October						
11	November						
12	December						

Head of Department

Instructions-

- 1) Please tick (✓) if applicable.
- 2) Use separate sheet/forms for Jr. wing and Sr. wing. Submit the information through HOD's .3) Please confirm the wattage of electrical equipments carefully before filling data sheet. For reference see the chart enclosed showing Basic Energy Consumption for different electrical equipments on page no-4(use for **Table-1,Table-2,Table-3** respectively only for col.7 & col.8).If any confusion take help from **Mr. Subhash Shirgave**.
- 4) Record the electrical instruments with their existing locations (like Principal chamber, HOD chamber, Sr. lab, Jr. lab, in corridors, On staircase, in office, etc).
- 5) In **Table .1.** record only high electric energy consuming equipments like- Air conditioner, Air cooler, Freeze. Xerox machine, LAN servers, Water cooler ,Vacuum cleaner, motor pump etc.
- 6) In **Table .2.** record all types of fans separately like(ceiling fans, table fans, wall fans, exhaust fans, pedestal fans etc) and categories desktop computers separately as with CRT monitors, with LCD monitors, with LED monitors etc.
- 7) Record institutional as well as employee's laptops in **Table .2.**
- 8) Record computer accessories separately in **Table .2** for example-inkjet printer, dot matrix printer, laser printer, printer cum Xerox, fax machine, scanners, multimedia, routers/DSL/ cable modems, D.C.battery chargers, micro-ovens, etc .
- 9) Record ICT tools like Handicam, camera, LCD projector, OHP, T.V.,VCD/VCR, etc in **Table .2 .**
- 10) Equipments like incubator, thermostat heating coils (small or large), sound system, amplifier, speakers etc list in **Table .2.**
- 11) While indicating the number of employer consider all(teaching – non-teaching, permanent, part-time, CHB) staff .
- 12) While indicating total number of students at Sr. wing, record only IIIrd year student strength except the Commerce department (they include total strength of B.Com.I,II &III). Compulsory subjects at B.A./B.Sc. I &II year (i.e.English) take into account year wise total strength.(i.e. I,II)
- 13) At Jr. wing total strength of students is combined strength of XIth and XIIth for respective subject.

Dr. Vilas S. Patil

Co-ordinator, Green Audit.

Assistant Professor,

Department of Physics

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

Green Audit:2014-2015

**Solid Waste Audit: From-B
Departmental Information**

Name of the Department:

Month : **Year :**

1. Total No.of Students :
2. Total No. of Employee :
3. Visitors :
4. Events : (Workshops, Conferences, Competitions etc.)
 - a. No of visitors and duration of event.(attach separate sheet if necessary)
 - i)
 - ii)

From-B-1 : FORM FOR MAINTAINING RECORDS OF SOLID WASTE HANDLED

(Roughly in Kg/month)

Month : **Year :**

1. Paper waste :
2. Plastic waste :
 - a. Hard plastic :
 - b. Soft plastic :
 - c. Carry bags.....
 - d. Other :
3. Biodegradable waste :
(Kitchen , garden etc.)
4. Construction waste :
5. Glass waste :
(Bottles, glass, wares etc.)
6. Other :

B.2 : FORM FOR MAINTAINING RECORDS OF DIDPOSAL OF SOLID WASTE

Sr. No.	Specification	Yes	No	NA
1.	Are the solid wastes generated at the facility segregated and stored in designated accumulation areas?			
2.	Are street sweepings burned and stored on pavement ?			
3.	Are solid wastes properly stored/ containerized for offsite disposal? (trash stored in a covered dumpster)?			

4.	Is there evidence of improper disposal in the trash dumpster (batteries, lamps, waste oil , etc.)			
5.	Are solid waste accumulation areas labeled?			
6.	Do the accumulation areas have clearly marked boundaries?			
7.	Are empty containers (containing less then ½ inch of residue) labeled with the word “EMPTY”			
8.	Are Empty Compressed gas cylinders labeled “EMPTY”?			
9.	Is the Biodegradable waste used for composting?			
10.	Is the waste from garden /classroom is in burned?			

B.3 : FORM FOR MAINTANING RECORDS OF SOLID WASTE RECOVERY

Sr.No.	Specification (Y/N)	Segregated (Y/N)	Recycled (Y/N)	Reuse (Y/N)	Other (Specify)
1.	Paper				
2.	Cardboard				
3.	Scrap wood				
4.	Wood pallets				
5.	Scrap Metal				
6.	Plastic Scrap				
7.	Glass				
8.	Laboratory Rags				
9.	Fluorescent Lamps				
10.	Air Filters				
11.	Empty Drums				
12.	Used Tires				
13.	Waste of medical center				
14.	Any other				

Head of Department.

***Give month wise report on separate sheet.**

Annexure-C

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
Green Audit:2014-2015
WATER Audit : Form C

Form C:-I

Name of the DepartmentMonth and Year-

Water User Profile

(Water users include students, staff, visitors etc.)

1. Total number of water users
2. Number of Employee
3. Number of students
4. Number of visitors (Monthly)
5. Total working days (Monthly)
6. Office time
7. Area of paved surfaces in merter² -(if applicable)-----Rain water collected----- liters/year
8. Area of unpaved surfaces in merter²-(if applicable)---- Rain water collected-----liters/year
9. Rain water harvesting system availability – Yes / No
 If Yes Specific Detail.....
10. Is rain water harvesting system working – Yes / No
 If Yes Specific Detail.....
11. Daily water supply -liters (for office use)

Table -1-Assessment of water requirement

Sr. No.	Site	Total No. of Sources	Measurement of Water Uses (Daily)					Total use in week in liters	Total use in month in liters
			Rate of discharge Liter/min	Average duration of Use (Min)	Average Quantity per use (Liters)	Average Number of Uses of sources (No.)	Total daily use in (liter)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Bathroom								
2	Toilet								
3	Laboratory								

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
-----	-----	-----	-----	-----	-----	-----	-----	-----	------

4	Kitchen								
5	Garden								
6	Shower								
7	Drinking								
8	Washing								
9	Others								
TOTAL									

Table-2-Water losses (leakages)

Sr. No.	Site	Total No. of Leakages	Measurement of Water Uses (Daily)				Total loss in week (col.7x6 days)	Total loss in month (col.8x4 week)
			Rate of discharge Liter/min	Rate of discharge Liter/Hour (col.4x 60 min)	Daily loss Liters (col.5x24 hours)	Total loss Liters (col.6xcol.3)		
1	2	3	4	5	6	7	8	9
1	Bathroom							
2	Toilet							
3	Laboratory							
4	Kitchen							
5	Garden							
6	Shower							
7	Drinking							
8	Washing							
9	Others							
Total-								

Table-3-Water Storage (Details of water structures of overflow)

Sr. no.	Storage Tank site	Capacity in liters	Number of tanks	Number of times it is filled (or topped)Daily	Daily Average time of water overflowing min	Flow rate Liter/min	Daily Water losses due to overflow liter	Water loss in week liter	Water loss per month liter

Table-4-Monitoring of Water Tanks to calculate water used per day.

Sr.no.	Storage Tank site	Capacity in liters	Number of tanks	Daily Measurement of water used in liters at early morning (Monitoring before filling) Y / N	Average water used Per day in Liters	Working days of the month	Total water used per month in liters.
1	2	3	4	5	6	7	8

Head of department

Annexure-D

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**Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
Green Audit:2014-2015**

Hazardous Waste and Management: Form D

Department of -----

Month-----

Year-----

1. Name of Department :		
2. Total No. of Employees:----- - Total No. of Visitors :-----	Total No. of Students :-----	
3. Types of Quantity of Hazardous Waste Handled	Category/Item description	Quantity in mg or gram or kg or Liter
4. Types of Quantity of Hazardous Waste Stored		
5. Types of Quantity of Hazardous Waste Transported		
Name, Address and contact details of the destination		
6. Types of Quantity of Hazardous Waste Refurbished	Category/Item description	Quantity in mg or gram or kg or Liter
Name, Address and contact details of the destination of Refurbished materials		
7. Types of Quantity of Hazardous Waste Dismantled	Category/Item description	Quantity in mg or gram or kg or Liter
Name, Address and contact details of the destination		
8. Types of Quantity of Hazardous Waste Recycled	Category/Item description	Quantity in mg or gram or kg or Liter

9. Types of Quantity of Hazardous Waste Recovered		
Name, Address and contact details of the destination		
10. Types and Quantity of Waste treated and disposed	Category/Item description	Quantity in mg or gram or kg or Liter

Head of the Department

Annexure-E
YASHWANTRAO CHAVAN WARANA MAHAVIDYALAYA, WARANANAGAR
Green Audit : 2014-2015
E-Waste : Form-E
Departmental Information
MAINTAINING RECORDS OF e-WASTE HANDLED

Department of:-

Month :-

Year :-

1. Name of department :-		
Total no of employees:-		
Total no. of students:-		Total no. of visitors :-
3. Types & Quantity of e-waste handled -	Category/ Item description	Quantity in mg or kg
4. Types & Quantity of e-waste stored		
5. Types & Quantity of e-waste transported		
Name, address and contact details of the destination		
6.Types & Quantity of e-waste. refurbished	Category/ Item description	Quantity in mg or kg
Name, address and contact details of the destination of refurbished materials		
7.Types it Quantity of e-waste dismantled	Category / Item Description	Quantity in mg or kg
Name, address and contact details of the destination.		
8. Types & Quantity of e-waste recycled	Category / Item Description	Quantity in mg or kg
Types & Quantity of materials recovered		
Name, address and contact details of the destination		
9. Types & Quantity of waste treated & disposed	Category/ Item Description	Quantity in mg or kg

Head of the Department

Annexure -F

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Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

Green Audit: 2014-2015

Energy Audit : Form A

Employees Questionnaires

(for the completion of Form A-III-Table.5.)

1.Name of Employee Dr./Prof./Mr.	Teaching staff / Non-teaching staff
2.Department-	Designation-
<input type="checkbox"/> Male <input type="checkbox"/> Female	Experience - years.
Wing <input type="checkbox"/> Junior wing <input type="checkbox"/> Senior wing	Qualification-
Faculty <input type="checkbox"/> Arts <input type="checkbox"/> commerce <input type="checkbox"/> science <input type="checkbox"/> MCVC	Qualification related to environment (if any)
Class taught:- <input type="checkbox"/> XI <input type="checkbox"/> B.A.-I <input type="checkbox"/> B.Sc.I <input type="checkbox"/> B.Com.I <input type="checkbox"/> XII <input type="checkbox"/> B.A.II <input type="checkbox"/> B.Sc.II <input type="checkbox"/> B.Com.II <input type="checkbox"/> B.A.III <input type="checkbox"/> B.Sc.III <input type="checkbox"/> B.Com.III	Blood group- Mobile no-1) 2) e-mail -1) 2)
Resident is	<input type="checkbox"/> In campus <input type="checkbox"/> In campus
Permanent residential place / Address	
Distance of residential place from college location	Kilometers. (Roughly)
Mode of transportation adopted to college	<input type="checkbox"/> By Walk <input type="checkbox"/> By Bicycle <input type="checkbox"/> By own Vehicle <input type="checkbox"/> By State transportation(ST) <input type="checkbox"/> By Private transportation
If by own vehicle	<input type="checkbox"/> Two wheeler <input type="checkbox"/> three wheeler <input type="checkbox"/> four wheeler <input type="checkbox"/> other
Mention vehicle number in detail	
If two wheeler	<input type="checkbox"/> used by single <input type="checkbox"/> Used in sharing
If four wheeler or other	<input type="checkbox"/> used by single <input type="checkbox"/> Used in sharing <input type="checkbox"/> Used in groups
If by the vehicle, you have the driving license?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If No	<input type="checkbox"/> Have learning <input type="checkbox"/> Applied for it <input type="checkbox"/> Not applied yet
If by the two wheeler, you use the helmet?	<input type="checkbox"/> Yes <input type="checkbox"/> No
The fuel used to vehicle is	<input type="checkbox"/> Petrol <input type="checkbox"/> Diesel <input type="checkbox"/> Natural gas <input type="checkbox"/> CNG
Mention the mileage/ average of vehicle.	KM/Liter

Total kilometers/ month	kilometers/ month
-------------------------	-------------------

Total average liter of fuel required for transportation per month	
PUC checking of own vehicle for carbon neutrality awareness	<input type="checkbox"/> Mostly <input type="checkbox"/> Usually <input type="checkbox"/> Rarely
PUC camp is organized in campus for carbon neutrality awareness	<input type="checkbox"/> Yes <input type="checkbox"/> No
College can run an eco-friendly activities / practices	<input type="checkbox"/> Yes <input type="checkbox"/> No
What is that? Select if applicable.	<input type="checkbox"/> plantation <input type="checkbox"/> Bicycle bank <input type="checkbox"/> eco-friendly Diwali <input type="checkbox"/> Celebration of festivals without water, soil and noise pollution <input type="checkbox"/> Formation of Environmental club <input type="checkbox"/> Programs of yoga <input type="checkbox"/> Celebrating of Environmental Day <input type="checkbox"/> Say to no plastic <input type="checkbox"/> Beautification of campus <input type="checkbox"/> Study tours to biodiversity place <input type="checkbox"/> Placing waste bins
Departmental contribution for eco-friendly activities / practices.	

Employee signature

Annexure -G

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Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

Green Audit: 2014-2015

Energy Audit : Form A

Student Questionnaires (only for B.A/B.Sc./B.Com. III)

(for the completion of Form A-III-Table.5.)

	1.Name of student-	Mr./Miss-
Gender	<input type="checkbox"/> Male <input type="checkbox"/> Female	<input type="checkbox"/> Third
Wing -	<input type="checkbox"/> Junior wing	<input type="checkbox"/> Senior wing
Faculty-	<input type="checkbox"/> Arts <input type="checkbox"/> commerce <input type="checkbox"/> science <input type="checkbox"/> MCVC	Faculty- <input type="checkbox"/> Arts <input type="checkbox"/> commerce <input type="checkbox"/> science
Class-	<input type="checkbox"/> XI <input type="checkbox"/> XII	<input type="checkbox"/> B.A.-I <input type="checkbox"/> B.Sc.I <input type="checkbox"/> B.Com.I <input type="checkbox"/> B.A.II <input type="checkbox"/> B.Sc.II <input type="checkbox"/> B.Com.II <input type="checkbox"/> B.A.III <input type="checkbox"/> B.Sc.III <input type="checkbox"/> B.Com.III
Subjects	Only for III rd year B.A./B.Sc.	
e-mail-		Mobile no.
Blood group-		

Permanent residential place / Address	
Distance of residential place from college location	Kilometers. (Roughly)
Mode of transportation adopted to college	<input type="checkbox"/> By Walk <input type="checkbox"/> By Bicycle <input type="checkbox"/> By own Vehicle <input type="checkbox"/> By State transportation(ST) <input type="checkbox"/> By Private transportation
If by bicycle	<input type="checkbox"/> by own bicycle <input type="checkbox"/> by bicycle from college scheme
If by own vehicle	<input type="checkbox"/> Two wheeler <input type="checkbox"/> three wheeler <input type="checkbox"/> four wheeler <input type="checkbox"/> other
Mention vehicle number in detail	
If two wheeler	<input type="checkbox"/> used by single <input type="checkbox"/> Used in sharing
If three wheeler/ If four wheeler or other	<input type="checkbox"/> used by single <input type="checkbox"/> Used in sharing <input type="checkbox"/> Used in groups
If by the vehicle, you have the driving license?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If No	<input type="checkbox"/> Have learning <input type="checkbox"/> Applied for it <input type="checkbox"/> Not applied yet
If by the two wheeler, you use the helmet?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Fuel used for vehicle	<input type="checkbox"/> Petrol <input type="checkbox"/> Diesel <input type="checkbox"/> Natural gas <input type="checkbox"/> CNG
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Mention the mileage / average of vehicle	KM/Liter
Total kilometers/ month	kilometers/ month
Total average liter of fuel required for transportation per month	
Parents lifted you at college	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes	<input type="checkbox"/> Daily <input type="checkbox"/> Occasionally <input type="checkbox"/> Sometime <input type="checkbox"/> Rarely
PUC camp is organized in campus for carbon neutrality awareness	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Mostly <input type="checkbox"/> Usually <input type="checkbox"/> Rarely
Your college can run an eco-friendly activities	<input type="checkbox"/> Yes <input type="checkbox"/> No
What is that? select if applicable.	<input type="checkbox"/> plantation <input type="checkbox"/> Bicycle bank <input type="checkbox"/> eco-friendly Diwali <input type="checkbox"/> Celebration of festivals without water, soil and noise pollution <input type="checkbox"/> Formation of Environmental club <input type="checkbox"/> Programs of yoga <input type="checkbox"/> Celebrating of Environmental Day <input type="checkbox"/> Say to no plastic <input type="checkbox"/> Beautification of campus <input type="checkbox"/> Study tours to biodiversity place <input type="checkbox"/> Placing waste bins

Student signature

Annexure-H
Yashwantrao Chavan Warana Mahavidyalaya, Warananagar.
Green Audit 2014-2015(Energy Audit : From A)
Staff Data (For the Fuel Consumption)

Senior Wing

Sr NO	Name	Residential Place			Average KM/ Month	Average Liters/ Month	Vehicles			Walk	Bicycle	ST
		Below 10 KM	Below 20 KM	Above 20 KM			Two Wheeler	Four Wheeler	Sharing			
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Prin.Dr.Mrs. Shahpure Surekha Balasaheb		√		1500	75		√				
2	Shri.Chikalkar Milind Gajanan	√			200	11		√				
3	Dr.Lokhande Arun Dattatraya			√	2160	144		√				
4	Dr. Bhoje Prakash Maruti			√	2500	125		√	√			
5	Dr. Lade Sunil Jagannath	√			80	04		√				
6	Shri.Valgadde Basaveshwar Vishwanath			√	1700	60		√	√			
7	Dr.Ladgaonkar Balasaheb Maruti	√			180	20		√				
8	Dr.Chikurdekar Prakash Shankarrao	√			300	65	√					
9	Dr.Chikurdekar Uttam Balvant	√			100	04		√				
10	Mrs. Kulkarni Sharmila Prakash	√			110	07		√				
11	Dr.Shinde Manohar Ganapati	√			48	01				√		
1	Shri.Patil Aannaso Shamrao	√			2000	144	√	√				
2	Dr.Raut Prakash Saudagar	√			125	03	√					
13	Shri.Patil Jaywant Bhimrao			√	00	00		√	√			
14	Dr.Mrs.Gaikawad Meena Devidas	√			80	04	√					
15	Dr.Dhede Dharma Ranaba	√			50	01	√					
16	Dr.Shirke Bajirao Satappa	√			150	07	√					

17	Shri.Sawant Vitthal Gundu			√	00	00	--	--					ST
18	Shri.Golgire Satish Nilkanth	√			208	10		√					
19	Shri.Jadhav Sarjerao Sadashiv			√	00	00		--	√				
20	Dr.Jadhav Sanjay Yashwantrao			√	1600	25		√					
1	2	4	5	6	7	8	9	10	11	12	13	14	
21	Dr. Khot Sudhakar Sambhaji	√			00	00	√			√			
22	Mrs.Ahuja Prajakta Sanjay			√	00		...		√				
23	Shri.Kadam Uttam Dattatraya		√		900	15		√					
24	Shri.Buchade Jagannath Yashwant	√			200	06	√						
25	Dr.Smt.Pawar Manjushri Jaysingrao			√	2400	30		√					
26	Shri.Arde Satyanarayan Muralidhar	√			90	03	√						
27	Shri.Wanole Bhimrao Khnadu	√			150	03	√						
28	Dr.Bhosale D Nanasaheb			√	600	10	√						
29	Dr.Mrs.Salokhe Prabha Ramesh	√			150	05	√						
30	Shri.Patil Manohar Nivrutti	√			600	10	√						
31	Dr.Patil Vilas Shamrao	√			850	15	√						
32	Dr.Satpute Dinesh Dattatrya			√	00	00	--	--	--				
33	Shri.Patil Dinesh Vasanttrao	√			500	12		√					
34	Shri.Patil Rajaram Baburao			√	1300	24		√					
35	Dr.Kavane Rangrao Pandurang			√	1780	21		√					
36	Shri.Jadhav C Ramchandra	√			240	05	√						
37	Shri.Jambhore Umesh Ganeshrao	√			240	05	√						
38	Shri.Pandav Rajkumar Shahaji			√	1920	55	√						
39	Dr.Bhusnar A.Ramchandra	√			110	02	√						
40	Shri.Basnaik Rohit Baban			√	1800	26	√						
41	Hasure			√	00	00			√				

Table showing Percentages Use of Vehicle:-
Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

Using 4 Wheeler	Using 2 wheeler	Sharing 4 Wheeler	walking	Using ST	Total
13	18	04	02	01	40
31.70%	43.90%	17.07%	04.87%	2.43%	

Table Showing Residence of staff:-

No. Staff having residence near campus	No. Staff having residence out of campus
24	17
58.53%	41.46%

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar.

Green Audit 2014-2015(Energy Audit : From A)

Staff Data (For the Fuel Consumption)

Junior Wing:-

Sr. No.	Name	Residential Place			Average KM/ Month	Average Liters/ Month	Vehicles			Walk	Bicycle	ST
		Below 10 KM	Below 20 KM	Above 20 KM			Two Wheeler	Four Wheeler	Sharing			
1	2	4	5	6	7	8	9	10	11	12	13	14
1	Shri.Ghatage Dilip Hindurao			√	2160	120		√				
2	Shri.More Sadashiv Bandu	√			120	04	√					
3	Shri.Nikam Vilas Mahadev	√			900	13	√					
4	Shri.Patil Pratap Shamrao			√	2000	20	√					
5	Shri.Jadhav Krushanarao Ganapatrao	√					√					
6	Shri.Shinde Hambirrao shripati		√		700	12	√					
7	Shri.Chile Sambhaji Dhondiram	√			1000	20	√					
8	Mrs. Pawar Rekha Subhash	√			00	00	√					
9	Shri.Valagade Sharadchandra Ganapatrao	√			1500	30	√					
10	Shri.Kalantre Nitin Rajaram	√			600	10	√					
11	Shri.Shaikh Sikandar Nijamuddin			√	1500	20	√					
1	Shri.Ghaitadak Sanjay Mahaling	√			200	05	√					
2	Shri.Abhrange Baliram Dadu		√		420	25		√				
13	Shri.Atirkar Sambhaji Keru	√			300	05	√					
14	Shri.Deshamukh Anandrao Shashikant	√			1500	100		√				
15	Shri.Patil Jalandar Aabasaheb	√			600	10	√					
16	Shri.Patil Uttam Ramrao	√			325	04	√					

17	Shri.Buddhe Vaibhav Balkrishna	√			65	02				√		
18	Mrs.Patil Shilpa Ashwinkumar	√			1200	24						
19	Mrs.Gaikwad Jayanti Sanjay	√			50	02				√		
20	Shri.Kumbhar Ghansham Yashwant			√	2000	45	√					

1	2	4	5	6	7	8	9	10	11	12	13	14
21	Shri.Chopade Namadeo Rama	√			275	05	√					
22	Shri.Bhangare Ramkrushna Vitthal	√			216	35	√					
23	Mrs.Katkar Seema Rajaram				52	02	√					
24	Shri.Patil Bajirao Vitthalrao				2100	42	√					
25	Shri.Patil Sandip Vasant				60	02	√					
26	Shri.Pange Arvind Shankar	√			00	00						√
27	Shri.Jadhav Santosh Kundlik			√	00	00						√
28	Shri.Ahire Popat Pathan	√			00	00				√		
29	Shri.Bhat Rahul Kamalakar			√	00	00	√		Share			
30	Shri.Lad Sandip Shivaji	√			486	09	√					
31	Shri.Shete Jalindar Shankar		√		500	09	√					
32	Shri.Patil Prakash Shamrao	√			1200	24	√					
33	Shri.Chikurdekar Pavan Nivrutti		√		600	10						

Table showing Percentages Use of Vehicle:-

Using 4 Wheeler	Using 2 wheeler	Sharing 4 Wheeler	walking	Using ST	Total
04	24	01	02	02	33
12.12%	72.72%	3.03%	6.06%	6.06%	100%

Table Showing Residence of staff:-

No. Staff having residence near campus	No. Staff having residence out of campus
21	12
63.63%	36.36%

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar.
Green Audit 2014-2015(Energy Audit : From A)
Staff Data (For the Fuel Consumption)

HSVC Wing :-

Sr. N o.	Name	Residential Place			Average KM/ Month	Average Liters/ Month	Vehicles			Walk	Bicycle	ST
		Below 10 KM	Below 20 KM	Above 20 KM			Two Wheeler	Four Wheeler	Sharing			
1	2	4	5	6	7	8	9	10	11	12	13	14
1	Shri.Gurav Deepak Shankar		√		1000	25		√				
2	Shri.Kulkarni Sunil Raghunath			√	1200	25	√					ST
3	Shri.Pawar Shivaji Vithu		√		1000	20	√					
4	Shri.Sutar Madhukar Aannappa		√		700	15	√					
5	Shri.Ghodake Suresh Ragonath	√			00	00				√		
6	Mrs. Patil Priti Mahendra	√			00	00				√		
7	Mrs. Rajput Varsha Pramod			√	00	00				√		ST
8	Shri.Vitthal Ramling Nivagri	√			250	08	√					
9	Shri.Patil Satish Kondiram	√			1000	20	√					
10	Shri.Todakar Dattatraya Vishwanath	√			125	03	√					
11	Shri.Powar Dilip Shankar	√			250	06	√					
12	Shri.Khot Dilip Anna	√			300	10	√					
13	Shri.Sid Raghunath Mangu		√		1000	30	√					
14	Shri.Khatkar Tukaram Dhondiram	√			700	12	√					
15	Shri.Patil Vijay Anandrao	√			450	08	√					
16	Shri.Korvi Bajarang Baburao		√		750	13	√					
17	Shri.Sutar Manohar Dhondiram		√		800	13	√					

Table showing Percentages Use of Vehicle:-

Using 4 Wheeler	Using 2 Using 4	Sharing 4	walking	Using ST	Total
-----------------	-----------------	-----------	---------	----------	-------

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

		Wheeler			
02	10	Nil	03	02	17
11.76%	58.83%	00	17.64%	11.76%	100%

Table Showing Residence of staff:-

No. Staff having residence near campus	No. Staff having residence out of campus
10	07
58.82%	41.17%

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar.

Green Audit 2014-2015 (Energy Audit : From A)

Staff Data (For the Fuel Consumption)

Administrative / Non Teaching Staff

Sr. No.	Name	Residential Place			Average KM/ Month	Average Liters/ Month	Vehicles			Walk	Bicycle	ST
		Below 10 KM	Below 20 KM	Above 20 KM			Two Wheeler	Four Wheeler	Sharing			
1	2	4	5	6	7	8	9	10	11	12	13	14
1	Shri.Ladgaonkar Balasaheb Jotiram	√			650	13	√					
2	Shri.Gaikawad Haridas Ramchandra	√			1000	20	√					
3	Dr.Jadhav Sandip Balasaheb	√			700	14	√					
4	Shri.Patil Mahesh Lalaso	√			400	08	√					
5	Shri.Deshmukh Krushnat Chandar	√			400	08	√					
6	Shri.Shirgave Subhash Bhupal			√	1600	32	√					
7	Shri.Koli Raghunath Hindurao		√		800	23	√					
8	Shri Harale Bhimrao Shankar	√			200	05	√					
9	Shri.Nalawade Aadinath Shivram		√		1200	24	√					
10	Shri.Khिलारे Vijay Ganapati	√			00	00						ST
11	Shri.Shinde Tanaji Shankar	√			100	02	√					
12	Shri.Deshmukh Atish Aloba	√			600	12	√					
13	Shri.Shete Bhalchandra Shankar		√		1650	33	√					
14	Shri.Pawar Rejendra Chintaman	√			00	00				Walk		
15	Shri.Patil Sanjay Dnyandev	√			500	10	√					
16	Shri.Patil Swapnil Baburao		√		400	07	√					
17	Shri.Kale Pradip Bhimrao	√			00	00				Walk		
18	Shri.Patil Dattatraya Shankar	√			1000	15	√					

20	Shri.Lohar Pralhad Sadashiv	√			00	00					Walk		
21	Shri.Ghatage Sampat Damaji		√		600	20	√						
22	Shri.Vadar Maruti Keraba			√	00	00							ST

1	2	4	5	6	7	8	9	10	11	12	13	14
23	Shri.Shelake Ananda Mahadev	√			00	00					bicycle	
24	Shri.Dabhade Vilas Gama		√		384	5	√					
25	Shri.Pandharbale Vishnu Yeshwant	√			00	00	√			Walk		
26	Shri.Desai Nandkumar Gajanan		√		00	00	√					
27	Shri.Gaikwad Atul Shamrao	√			399	10	√					
28	Shri.Mangale Satish Shamrao	√			00	00				Walk		
29	Shri.Sone Dnyanu Hindurao	√			200	05	√					
30	Shri.Parit Rajendra Mahadev	√			300	06	√					
31	Shri.Gholap Prakash Ramchandra	√			300	06	√					
32	Shri.Bodake Anil Shripati	√			200	05	√					
33	Shri.Kumbhar Pundalik Annappa	√			200	06	√					
34	Shri.Dhalait Samir			√	1875	37	√					
35	Shri.Kumbhar Uttam Kundlik	√			260	05	√					
36	Shri.Mankar Mahadev Maruti	√			00	00					Bicycle	
37	Shri.Parit Sopan Babu	√			300	05	√					
38	Shri.Nagaonkar Subhash Suryappa			√	1800	38	√					
39	Shri.Nagaonkar Bhimrao Suresh-	√			00	00				Walk		
40	Shri.Bagul Mahendra	√			140	04	√					
41	Shri.Mahale Hiranman	√			00	00					bicycle	
42	Shri.Chavan Prashuram Sambhaji		√		00	00					Bicycle	
42	Shri.Patil Shivaji Anandrao	√			600	12	√					
44	Shri.Patil Pratap Baburao	√			00	00				Walk		
45	Shri.Mahale Vijay	√			300	06	√					

	Marulal											
46	Shri.Patil Dilip Maruti	√		600	12	√						
47	Shri.Paymal Dilip Anandrao	√		500	14	√						
48	Mrs. Mulik Balabai Sambhaji		√	00	00							ST
49	Shri.More Bajirao Bhagwan	√		500	10	√						
50	Shri.Durgade Laxman Dinakar	√		500	10	√						

Table showing Percentages Use of Vehicle:-

Using 4 Wheeler	Using 2 wheeler	Sharing 4 Wheeler	Walking	Using ST	Using Bicycle	Total
00	36	Nil	07	03	04	50
00	72%	00	14%	06%	08%	100%

Table Showing Residence of staff:-

No. Staff having residence near campus	No. Staff having residence out of campus
35	15
70%	30%

Annexure-J

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar.

Green Audit 2014-2015(Energy Audit : From A)

Number of Vehicles and Their Fuel Consumption

(For the completion of from AIII-Table.5)

Sr. No	Department	Staff				Visitors				Total				Remark
		2 Wheelers	Liters/month	4 Wheelers	Liters/month	2 Wheelers	Liters/month	4 Wheelers	Liters/month	2 Wheelers	Liters/month	4 Wheelers	Liters/month	
1.	Library	6	110	1	30	5	30	--	--	11	140	1	30	
2.	Physics	08	132	1	50	02	60	--	--	10	192	1	50	10kg/10
3.	Chemistry	14	255	04	62	04	120			18	375	04	62	100kg
4.	Maths	04	20	02	102	02	60			6	30	02	102	
5.	Botany	08	130	02	125	02	60			10	190	02	125	30kg
6.	Zoology	04	56	03	201	02	60			06	116	03	201	
6.	IT-Comp	02	50			02	60			04	110			
7.	Commerce	02	55	01	108	02	60			04	115	01	108	
8.	Gymkhana	03	120	02	220	35	400			38	520	02	220	
9.	CAP	12		11						12	11			
10.	VKCA	30	63			01	30			31	93			
11.	Gardan	03	35							03	35			
12.	Office	45	900	1	80	15	150			55	1050	01	80	
13.	Marathi	04	35	1	80	04	82			08	117	1	80	
14.	Hindi	04	38	1	111	03	32			07	70	1	111	
15.	English	02	32	2	23	2	30			04	62	2	23	
16.	History	03	31	1	130	02	30			05	61	01	130	
18.	Economics	04	15			02	22			06	37			
19.	Sociology	03	42	1	40	02	52			05	94	1	40	
20.	Hsvc	18	183	7	122	2	60			20	243	07	122	
21.	Geography	04	38	01	26	02	30			06	68	1	26	

Department of Vehicles and Fuel Consumption.

Sr.No	Department	Vehicles			
		2 Wheelers	Liters/month	4 Wheelers	Liters/month
1.	Science				
	Physics	10	192	01	50
	Chemistry	18	375	04	62
	Maths	06	80	02	102
	Botany	10	190	02	125
	Zoology	06	116	03	201
	students	160	1600	00	00
Total-	210	2553	12	540	
2.	Commerce	04	115	01	108
	Students	36	360	00	00
	Total-	40	475	1	108
3.	Arts				
	Marathi	08	117	01	80
	Hindi	07	70	1	111
	English	04	62	2	23
	History	05	61	1	130
	Economics	06	37	00	00
	Sociology	05	94	01	40
	Geography	06	68	01	26
	Hsvc	20	243	07	122
	Students	26	260	00	00
Total-	87	1012	14	532	
4.	Computer IT	04	110	00	00
5.	Office				
	Main	55	1050	01	80
	CAP	12	10	00	00
	Total-	67	1060	1	80
6.	Gymkhana	38	520	02	220
7.	Exteriors	03	35	00	00
8.	CFC				
	Library	11	110	1	30
	Canteen	02	60	01	120
	VKCA	31	93	00	00
	Boys Hostel	04	27	00	00
	Girl Hostel	08	48	00	00
Staff Quarter	45	345	18	428	

	Health center	26	265	06	98
	Medical center	00	00	01	21
	Total-	127	948	27	697

Total Vehicles and Fuel Consumption in college:

Sr.No	Department	Vehicles			
		2 Wheelers	Liters/month	4 Wheelers	Liters/month
1.	Science	210	2553	03	201
2.	Commerce	40	475	01	108
3.	Arts	87	1012	14	532
4.	Computer IT	04	110	00	00
5.	Office	67	1060	01	80
6.	Gymkhana	38	520	02	220
7.	Exteriors	03	35	00	00
8.	CFC	127	948	27	697
	Total	576	6713	48	1838

Annexure-K
Yashwantrao Chavan Warana Mahavidyalaya Warananagar,
Tal- Panhala, District- Kolhapur
Water Audit
2014-2015
Staff Quarters
Water Losses (Leakages)

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	140	140	140	140	140	140	140	140	140	140	140	140	1680
Toilet	710	710	710	710	710	710	710	710	710	710	710	710	8520
Laboratory	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Kitchen	720	720	720	720	720	720	720	720	720	720	720	720	8640
Garden	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Shower	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Drinking	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	20736
Washing	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	3298	3298	3298	3298	3298	3298	3298	3298	3298	3298	3298	3298	39576

Department of Chemistry

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Toilet	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	10.36 8	124.416
Laboratory	107.1 3	107.1 3	107.1 3	107.1 3	000.0 0	53.42 0	107.1 3	107.1 3	107.1 3	000.0 0	107.1 3	107.1 3	1017.59
Kitchen	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Garden	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Shower	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Drinking	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Washing	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	117.4 98	117.4 98	117.4 98	117.4 98	10.36 8	63.78 8	117.4 98	117.4 98	117.4 98	10.36 8	117.4 98	117.4 98	1142.00

Department of Zoology

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Toilet													

Laboratory	1728	1728	1728	1728	0000	1728	1728	1728	1728	1728	0000	1728	17280
Kitchen													
Garden	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Shower	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Drinking	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Washing	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	1728	1728	1728	1728	0000	1728	1728	1728	1728	1728	0000	1728	17280

Department of Garden

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Toilet	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Laboratory													
Kitchen	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Garden	21600	21600	21600	21600	21600	00000	00000	00000	00000	10800	10800	10800	140400
Shower	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Drinking	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Washing	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Other	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Total	21600	21600	21600	21600	21600	00000	00000	00000	00000	10800	10800	10800	140400

Water Losses (Leakages)

1. Department of Physics
Nil
2. Department of Mathematics
Nil
3. Department of Botany
Nil
4. Department of Marathi
Nil
5. Department of English
Nil
6. Department of Hindi
Nil
7. Department of HSVC
Nil
8. Department of Commerce
Nil
9. Department of IT
Nil
10. Department of Office
Nil
11. Department of VKCA
Nil
12. Department of Gymkhana
Nil
13. Department of Library

- Nil
 14. Department of Geography
 Nil
 15. Department of History
 Nil
 16. Department of Economics
 Nil
 17. Department of Sociology
 Nil

Annexure-L
 Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
 Water Losses (Leakages)
 2014-15
 Science

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	--	--	--	--	--	--	--	--	--	--	--	--	--
Toilet	360	360	360	360	360	360	360	360	360	360	360	360	4320
Laboratory	1948	1948	1872	1872	--	1948	1948	1948	1948	1728	1728	1728	24936
Kitchen	--	--	--	--	--	--	--	--	--	--	--	--	--
Garden	--	--	--	--	--	--	--	--	--	--	--	--	--
Shower	--	--	--	--	--	--	--	--	--	--	--	--	--
Drinking	--	--	--	--	--	--	--	--	--	--	--	--	--
Washing	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	2308	2308	2232	2232	360	2308	2308	2308	2308	2088	2088	2088	29256

Exterior

Site	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Bathroom	140	140	140	140	140	140	140	140	140	140	140	140	1680
Toilet	710	710	710	710	710	710	710	710	710	710	710	710	8520
Laboratory	--	--	--	--	--	--	--	--	--	--	--	--	--
Kitchen	720	720	720	720	720	720	720	720	720	720	720	720	8640
Garden	21600	21600	21600	21600	21600	0000	0000	0000	0000	10800	10800	10800	140400
Shower	--	--	--	--	--	--	--	--	--	--	--	--	--
Drinking	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	1728	20736
Washing	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	219298	219298	219298	219298	219298	3298	3298	3298	3298	14098	14098	14098	179976

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
 Water Losses (Leakages)
 2014-15
 Science

Site	Total
Bathroom	--
Toilet	4320
Laboratory	24936
Kitchen	--
Garden	--

Shower	--
Drinking	--
Washing	--
Total	29256

Exterior

Bathroom	1680
Toilet	8520
Laboratory	--
Kitchen	8640
Garden	140400
Shower	--
Drinking	20736
Washing	--
Total	179976
Total	198398

Average Water Losses (Leakages) per month in college:

Sr. No.	Departments	Water loss site								Total water loss per Year in Lit.	Total water loss per Month in Lit.
		Bathroom	Toilet	Laboratory	Kitchen	Garden	Shower	Drinking	Washing		
1	Science	--	4320	24936	--	--	--	--	--	29256	2438
2	Gymkhana	--	--	--	--	--	--	--	--	--	--
3	Office	--	--	--	--	--	--	--	--	--	--
4	Common Facility Centers	--	--	--	--	--	--	--	--	--	--
5	Exterior	1680	8520	--	8640	140400	--	20736	--	179976	14998

Annexure-M

Yashwantrao Cava Warana Mahavidyalaya Warananagar,

Tal- Panhala, District- Kolhapur

Water Audit

2014-2015 Water Storage (Details of water structures of overflow)

Sr. No.	Storage Tank Site	Capacity in liters	Number of Tanks	Number of Times it is filled Daily	Daily Average time of water over flowing min	Flow rate Liter / min	Daily water losses due to overflow liter	Water loss in week liter	Water loss per month liter	Water loss in Year liter
1	Science Building	20265	01	One	18	35.28	635.04	4445.28	17781.12	213373.44
2	Shivneri Ground	8950	01	One	15	35.57	533.57	3734.85	14939.4	179272.8
3	Gymkhana New-1	5094	01	One	09	80.14	721.28	5048.82	20195.28	242343.36
4	Gymkhana New-2	5094	01	One	10	38.71	387.1	2709.7	10838.8	130065.6
5	YCWM Library-1	1097	01	One	08	46.28	370.28	2591.68	10366.72	124400.64
6	YCWM Library-2	3119	01	One	18	35.00	630.00	4410.00	17640.00	211680
7	YCWM Office	47250	01	One	15	64.85	972.85	6809.25	27237.00	326844
8.	F,M.Filter House Tank-1	194779687	01	one	400	09	3600	25200	100800	1209600
9.	F,M.Filter	75072	01	one	--	--	--	--	--	--

	House Tank-2									
10.	Canteen-1	5074	01	one	15	130	1950	13650	54600	655200
11.	Canteen -2	5074	01	one	15	40	600	4200	16800	201600
12.	Quarter-1	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
13.	Quarter-2	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
14.	Quarter-3	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
15.	Quarter-4	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
16.	Quarter-5	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
17.	Quarter-6	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804

Yashwantrao Cava Warana Mahavidyalaya Warananagar,
Tal- Panhala, District- Kolhapur

Water Audit
2014-2015

Water Storage (Department wise details of water structures of overflow)

Sr. No.	Departments	Storage Tank Site	Capacity in liters	Number of Tanks	Number of Times it is filled Daily	Daily Average time of water over flowing min	Flow Rate Liter / min (Average)	Daily Water losses due to overflow liter (Average)	Water loss in week liter (Average)	Water loss per month liter (Average)	Water loss in Year liter (Average)
1	Science	a)Science building	20265	01	one	418	44.28	4235	29645	118580	1422960
		b) F.M.Filter house tank	19477	02							
			9687	03							
2	Gymkhana	a)Shivneri	8950	01	one	34	154.42	1642	11494	45976	551772
		b)Gymkhana New-1	5094	01							
		c) Gymkhana New-1	5094	01							
				03							
3	Office	Office-1	47250	01	one	15	64.85	973	6811	27244	326928
4	CFC	a)YCWM Library-1	1097	01		56	251.28	3550	24850	99400	1192800

		b)YCWM Library-2	3119 5074	01 01	one						
		c)Canteen -1	5074	01							
		d)Canteen -2									
				04							
5	Exterior	Quarters Total 6	6536 each	06	one	144	394	9461	66227	264908	3178896
	Total			17		667	908.83	19861	139027	556108	6673356

Yashwantrao Cava Warana Mahavidyalaya Warananagar,
Tal- Panhala, District- Kolhapur
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Water Loss Monitored

Sr. No.	Storage Tank Site	Capacity in liters	Number of Tanks	Number of Times it is filled Daily	Daily Average time of water over flowing min	Flow rate Liter / min	Daily water losses due to overflow liter	Water loss in week liter	Water loss in liter per month	Water loss in Year liter
1	Science Building	20265	01	One	18	35.28	635.04	4445.28	17781.12	213373.44
2	Shivneri Ground	8950	01	One	15	35.57	533.57	3734.85	14939.4	179272.8
3	Gymkhana New-1	5094	01	One	09	80.14	721.28	5048.82	20195.28	242343.36
4	Gymkhana New-2	5094	01	One	10	38.71	387.1	2709.7	10838.8	130065.6
5	YCWM Library-1	1097	01	One	08	46.28	370.28	2591.68	10366.72	124400.64
6	YCWM Library-2	3119	01	One	18	35.00	630.00	4410.00	17640.00	211680
7	YCWM Office	47250	01	One	15	64.85	972.85	6809.25	27237.00	326844
8.	F,M.Filter House	194779687	01	one	400	09	3600	25200	100800	1209600

	Tank-1									
9.	F,M.Filter House Tank-2	75072	01	one	--	--	--	--	--	
10.	Canteen-1	5074	01	one	15	130	1950	13650	54600	655200
11.	Canteen -2	5074	01	one	15	40	600	4200	16800	201600
12.	Quarter-1	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
13.	Quarter-2	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
14.	Quarter-3	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
15.	Quarter-4	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
16.	Quarter-5	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804
17.	Quarter-6	6536	01	one	24	65.7	1576.8	11037.6	44150.4	529804

Annexure-N

Water Audit - 2014-15 (Water Tank Monitoring Illustrative Report)

Duration- One Week/month -

Sr. No.	Description of tank	Date of Monitoring	Type of Tank Cement	Volume of tank					Daily Water expense in liter	Tank Over Flow Monitoring			Total water used per day	Remark if any
				Length in Cm	Breadth of Tank	Height of Tank	Circumference of Tank ($2\pi r$)	Total volume of Tank in Liters		Rate of flow in liter/minute	Over flow in Monitoring	Volume of water over flow In liters		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Quarter Building -1 A-Wing	13/07/2014	Syntax A	-	-	170	480	3118	-	-	-	-	-	-
		13/07/2014				125	$\pi r^2=18343$	2292	2292	12	30	360	2665	
		14/072014				120		2201	2201	12	35	420	2621	
		15/072014				125		2292	2292	12	30	360	2665	
		16/072014				120		2201	2201	12	35	420	2621	
		17/072014				120		2201	2201	12	35	420	2621	
		18/072014				125		2292	2292	12	30	360	2665	
		19/072014				120		2201	2201	12	35	420	2621	
	B-Wing	13/07/2014	Syntax B	-	-	170	480	3118	-	-	-	-	-	-
		13/07/2014				125	$\pi r^2=18343$	2292	2292	12	30	360	2665	
		14/072014				120		2201	2201	12	35	420	2621	
		15/072014				125		2292	2292	12	30	360	2665	
		16/072014				120		2201	2201	12	35	420	2621	
		17/072014				120		2201	2201	12	35	420	2621	
18/072014					125		2292	2292	12	30	360	2665		
19/072014			120		2201	2201	12	35	420	2621				
2	Quarter Building -2 A-Wing	13/07/2014	Syntax A	-	-	170	480	3118	-	-	-	-	-	
		13/07/2014				125	$\pi r^2=18343$	2292	2292	12	30	360	2665	
		14/072014				120		2201	2201	12	35	420	2621	
		15/072014				125		2292	2292	12	30	360	2665	
		16/072014				120		2201	2201	12	35	420	2621	
		17/072014				120		2201	2201	12	35	420	2621	
		18/072014				125		2292	2292	12	30	360	2665	
		19/072014				120		2201	2201	12	35	420	2621	
	B-Wing	13/07/2014	Syntax B	-	-	170	480	3118	-	-	-	-	-	-
		13/07/2014				125	$\pi r^2=18343$	2292	2292	12	30	360	2665	
		14/072014				120		2201	2201	12	35	420	2621	
		15/072014				125		2292	2292	12	30	360	2665	
		16/072014				120		2201	2201	12	35	420	2621	
		17/072014				120		2201	2201	12	35	420	2621	
18/072014					125		2292	2292	12	30	360	2665		
19/072014			120		2201	2201	12	35	420	2621				

(e.g. From- 13/07/2014 to 19/07/2014)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Sr. No.	Description of Wing	3 Quarter Building g-3 A-Wing	13/07/2014	Syntax A	-	-	170	480	3118	-	-	-	-	-		
			13/07/2014	Syntax A	--	--	125	$\pi r^2=18343$	2292	2292	12	30	360	2665		
			14/072014		--	--	120		2201	2201	12	35	420	2621		
			15/072014		--	--	125		2292	2292	12	30	360	2665		
			16/072014		--	--	120		2201	2201	12	35	420	2621		
			17/072014		--	--	120		2201	2201	12	35	420	2621		
			18/072014		--	--	125		2292	2292	12	30	360	2665		
			19/072014		--	--	120		2201	2201	12	35	420	2621		
			13/07/2014		Syntax B	--	--		170	480	3118	-	-	-	-	-
		13/07/2014	Syntax B	--	--	125	$\pi r^2=18343$		2292	2292	12	30	360	2665		
		14/072014		--	--	120		2201	2201	12	35	420	2621			
		15/072014		--	--	125		2292	2292	12	30	360	2665			
		16/072014		--	--	120		2201	2201	12	35	420	2621			
		17/072014		--	--	120		2201	2201	12	35	420	2621			
		18/072014		--	--	125		2292	2292	12	30	360	2665			
		19/072014		--	--	120		2201	2201	12	35	420	2621			
		4 Quarter Building g-4 A-Wing		13/07/2014	Syntax A	--		--	170	480	3118	-	-	-	-	-
		13/07/2014	Syntax A	--	--	125		$\pi r^2=18343$	2292	2292	12	30	360	2665		
		14/072014		--	--	120	2201		2201	12	35	420	2621			
15/072014	--	--		125	2292	2292	12		30	360	2665					
16/072014	--	--		120	2201	2201	12		35	420	2621					
17/072014	--	--		120	2201	2201	12		35	420	2621					
18/072014	--	--		125	2292	2292	12		30	360	2665					
19/072014	--	--		120	2201	2201	12		35	420	2621					
13/07/2014	Syntax B	--		--	170	$\pi r^2=18343$	3118		-	-	-	-	-			
13/07/2014		--	--	125	2292		2292		12	30	360	2665				
14/072014		--	--	120	2201		2201	12	35	420	2621					
15/072014		--	--	125	2292		2292	12	30	360	2665					
16/072014		--	--	120	2201		2201	12	35	420	2621					
17/072014		--	--	120	2201		2201	12	35	420	2621					
18/072014		--	--	125	2292		2292	12	30	360	2665					
19/072014		--	--	120	2201		2201	12	35	420	2621					

o.	Of tank	Sr. No.	Description of tank	Date of Monitoring	Tank Cement / Syntax	Length in Cm	Breadth of Tank in Cm	Height of Tank in Cm	Circumference Of Tank ($2\pi r$)	Total volume of Tank in Liters	expense in liter	Rate of Flow in liter / minute	Over flow in minute	Volume of water over flow	used per day in Liters (10+13)	if any	
																	1
5	Quarter Building g-5 A-Wing	1	13/07/2014	13/07/2014	Syntax	--	--	170	480	3118	-	-	-	-	-	-	
		2	14/07/2014	14/07/2014	Syntax	--	--	125	$\pi r^2=18343$	2292	2292	12	30	360	2665		
		3	15/07/2014	15/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		4	16/07/2014	16/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		5	17/07/2014	17/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		6	18/07/2014	18/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		7	19/07/2014	19/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		8	13/07/2014	13/07/2014	Syntax	--	--	170	480	3118	-	-	-	-	-	-	-
		9	13/07/2014	13/07/2014	Syntax	--	--	125	$\pi r^2=18343$	2292	2292	12	30	360	2665		
	B-Wing	10	14/07/2014	14/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		11	15/07/2014	15/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		12	16/07/2014	16/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		13	17/07/2014	17/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		14	18/07/2014	18/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		15	19/07/2014	19/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		16	13/07/2014	13/07/2014	Syntax	--	--	170	480	3118	-	-	-	-	-	-	
		17	13/07/2014	13/07/2014	Syntax	--	--	125	$\pi r^2=18343$	2292	2292	12	30	360	2665		
		18	14/07/2014	14/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		19	15/07/2014	15/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
6	Quarter Building g-6 A-Wing	1	13/07/2014	13/07/2014	Syntax	--	--	170	480	3118	-	-	-	-	-		
		2	14/07/2014	14/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		3	15/07/2014	15/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		4	16/07/2014	16/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		5	17/07/2014	17/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		6	18/07/2014	18/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665		
		7	19/07/2014	19/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621		
		8	13/07/2014	13/07/2014	Syntax	--	--	170	480	3118	-	-	-	-	-	-	
B-Wing	9	13/07/2014	13/07/2014	Syntax	--	--	125	$\pi r^2=18343$	2292	2292	12	30	360	2665			
	10	14/07/2014	14/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621			
	11	15/07/2014	15/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665			
	12	16/07/2014	16/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621			
	13	17/07/2014	17/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621			
	14	18/07/2014	18/07/2014	Syntax	--	--	125		2292	2292	12	30	360	2665			
	15	19/07/2014	19/07/2014	Syntax	--	--	120		2201	2201	12	35	420	2621			

	Building	13/07/2014	"	622.5	210	70.00	--	9150	9150	18	35	630	9780	--
		14/072014	"	"	"	62.05	--	8170	8170	"	40	720	8890	
		15/072014	"	"	"	67.05	--	8823	8823	"	32	576	9399	
		16/072014	"	"	"	90.00	--	1176	1176	"	42	756	12521	
Sr. No.	Description Of tank	Date	Type of Tank	Length in Cm	Breadth	Height of Tank	Volume of tank	Total expense	Rate of flow in liter	Tank Over flow in minute	Monitoring Volume of water used per day	Remarks		
1	Shivneri Ground	13/07/2014	Sement	232.5	195	197.5	8950	8950	Flow in liter	30	450	13170		
2		13/07/2014	"	"	"	60.00	2720	2720	15	35	525	3698		
3		14/072014	"	"	"	70.00	3173	3173	15	35	525	3698		
4		15/072014	"	"	"	90.00	4080	4080	15	42	630	4710		
5	YCW M Library	16/072014	Syntax	--	--	67.05	350	2833	15	22	330	3163		
		13/072014	"	"	"	70.00	375	2773	15	35	525	3363		
		14/072014	"	"	"	73.05	9752	4420	15	42	630	4490		
		19/072014	"	"	"	89.00	4080	4080	15	42	630	4470		
3	Gymkhana New	13/07/2014	Syntax-1	255	--	--	500	5094	5094	--	--	--	--	
		13/07/2014		55	--	--	$\pi r^2 = 1900$	1094	1094	9	60	540	1634	
		14/072014		65	--	--	"	1293	1293	9	90	810	2103	
		15/072014		80	--	--	"	1592	1592	9	92	828	2420	
		16/072014		82	--	--	"	1631	1631	9	82	738	2369	
		17/072014		85	--	--	"	1691	1691	9	70	630	2321	
		18/072014		90	--	--	"	1791	1791	9	75	675	2466	
		19/072014		80	--	--	"	1592	1592	9	92	828	2420	
4	Gymkhana New	13/07/2014	Syntax-2	255	--	--	500	5094	5094	-				
		13/07/2014		40	--	--	$\pi r^2 = 1900$	796	796	10	30	300	5394	
		14/072014		40	--	--	"	796	796	10	22	220	1016	
		15/072014		55	--	--	"	1094	1094	10	45	450	1846	
		16/072014		65	--	--	"	1293	1293	10	42	520	1614	
		17/072014		42	--	--	"	895	895	10	42	420	1713	
		18/072014		55	--	--	"	1094	1094	10	48	480	1375	
		19/072014		65	--	--	"	1293	1293	10	42	420	1713	

		16/072014		--	--	78		760	760	8	52	416	1176	
		17/072014		--	--	95		926	926	8	65	520	1446	
		18/072014		--	--	92		897	897	8	22	176	1073	
		19/072014		--	--	78		760	760	8	52	416	1176	
6	YCW M Library	13/07/2014	Syntax	--	--	170	480	3119						
		13/07/2014		--	--	52	$\pi r^2 =$	954	954	18	20	360	1314	
		14/072014		--	--	60	18347	1100	1100	18	32	576	1676	
		15/072014		--	--	55		1009	1009	18	42	756	1765	
		16/072014		--	--	67		1229	1229	18	48	864	2093	
		17/072014		--	--	60		1100	1100	18	35	630	1730	
		18/072014		--	--	52		954	954	18	20	360	1314	
		19/072014		--	--	67		1229	1229	18	48	864	2093	
7	YCW M Office	13/07/2014	Cement	840	375	150	--	47250						
		13/07/2014		--	--	50	--	15750	15750	15	62	930	16680	
		14/072014		--	--	45	--	14175	14175	15	67	1005	15180	
		15/072014		--	--	52	--	16380	16380	15	70	1050	17430	
		16/072014		--	--	42	--	13230	13230	15	65	975	14205	
		17/072014		--	--	50	--	15750	15750	15	58	870	16620	
		18/072014		--	--	45	--	14175	14175	15	67	1005	15180	
		19/072014		--	--	42	--	13230	13230	15	65	975	14205	
8	Behind FM Filter house tank	13/07/2014	Cement	1282	750	202.5	--	19477 9687	-	-	-	-	-	-
		13/07/2014		1282	750	202.5	--	19477 9687		400	10	4000	-	-
		14/072014		1282	750	202.5	--	19477 9687		-	-	-	-	-
		15/072014		1282	750	202.5	--	19477 9687		400	5	2000	-	-
		16/072014		1282	750	202.5	--	19477 9687		-	-	-	-	-
		17/072014		1282	750	202.5	--	19477 9687		400	12	4800	-	-
		18/072014		1282	750	202.5	--	19477 9687		-	-	-	-	-
		19/072014		1282	750	202.5	--	19477 9687		-	-	-	-	-

Annexure-O

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar Dist- Kolhapur -416113

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

**WATER AUDIT
2014-2015
Table No. 1
Total water used at Science Building**

Sr. No.	Month	Tank Capacity	Water used in Per day	Water used in Month
1	January	20265	9780	293400
2	February	20265	8890	266700
3	March	20265	9399	281970
4	April	20265	12521	375630
5	May	20265	7367	221010
6	June	20265	9834	295020
7	July	20265	9399	281970
8	August	20265	9780	293400
9	September	20265	9399	281970
10	October	20265	9834	295020
11	November	20265	7367	221010
12	December	20265	7561	226830
Total		243180	111131	3333930

**Table No. 3. 1
Water used per Month in Science Departments**

Sr. No.	Month	Tank Capacity (One Tank)	Water used in Month
1	January	20265	293400
2	February	20265	266700
3	March	20265	281970
4	April	20265	375630
5	May	20265	221010
6	June	20265	295020
7	July	20265	281970
8	August	20265	293400
9	September	20265	281970
10	October	20265	295020
11	November	20265	221010
12	December	20265	226830
Total		243180	3333930

Table No. 3. 2
Water used per Month in Gymkhana

Sr. No.	Month	Tank Capacity (Three Tanks)	Water used in Month
1	January	19138	161125
2	February	19138	181148
3	March	19138	224578
4	April	19138	254215
5	May	19138	256541
6	June	19138	142154
7	July	19138	123512
8	August	19138	125436
9	September	19138	112457
10	October	19138	102456
11	November	19138	124578
12	December	19138	135464
Total		229656	1943664

Table No. 3. 2
Water used per Month in Exterior of college

Sr. No.	Month	Tank Capacity (Eight Tanks)	Water used in Month
1	January	4216	182136
2	February	4216	214578
3	March	4216	251245
4	April	4216	261245
5	May	4216	254125
6	June	4216	145246
7	July	4216	162456
8	August	4216	154536
9	September	4216	144651
10	October	4216	161264
11	November	4216	142156
12	December	4216	143689
Total			2217327

Table No. 3.4

Water used per Month in Office Department

Sr. No.	Month	Tank Capacity (One Tank)	Water used in Month
1	January	47250	888852
2	February	47250	905579
3	March	47250	931425
4	April	47250	982368
5	May	47250	984568
6	June	47250	885462
7	July	47250	781254
8	August	47250	721254
9	September	47250	721548
10	October	47250	784524
11	November	47250	754215
12	December	47250	785464
Total		567000	10126513

Table No. 3. 5

Water used per Month in Common Facilities Centers

Sr. No.	Month	Tank Capacity (Four Tanks)	Water used in Month
1	January	97564	1232564
2	February	97564	1305468
3	March	97564	2245452
4	April	97564	2345782
5	May	97564	2456782
6	June	97564	1245782
7	July	97564	1145786
8	August	97564	1145236
9	September	97564	1542478
10	October	97564	1345678
11	November	97564	1348697
12	December	97564	1444758
Total			18804463

Total Average Water Used per Month in the college (From Monitoring of Tanks)

Sr.No.	Storage Tank Site	Total Average Water Used Per Year(Lit.)	Total Average Water Used Per Month(Lit.)
1	Science	3333930	277827
2	Arts	--	--
3	Commerce	--	--
4	Computer Lab/I.T.	--	--
5	Office	10126513	843876
6	Gymkhana	1943664	161972
7	Exterior	2217327	1847777
8	Common Facility Centers	18804463	1567038

Annexure- P
Yashwantrao Chavan Warana Mahavidyalaya, Warananagar
Green Audit –(2014-15)
(Plants Counting in Campus of the Institute)

The green audit was conducted in the last week of September 2015. During these studies, we have reported presence of more than 5000 individuals of the plants belonging to variety of groups as foliage, flowering, fruiting trees, shrubs, herbs and climbers, making this campus lush green in appearance. The plants included large trees of evergreen species like Mango, Jackfruit, banyan trees and palms. The roads are decorated by avenue trees namely Ficus benjamina, ashoka, royal palms etc. Ornamental foliage and flowering plants are cultivated in the carries between road dividers. The campus is well maintained by irrigating the vegetation with sprinklers and drip irrigations where ever possible. Campus includes formal gardens namely Nilkantheswara garden, botanical garden, Tatyasaheb Kore garden and informal gardens at TK college of Pharmacy, YCWM garden, HSVC garden, and TKIET garden. The gardens are supported with spacious lawns and water-bodies. This gives a pleasant and eco-friendly feel to every visitor.

There are 355 flowering individuals those serve as source of pollen food and nectar for many insect likewise more than 640 individuals that bears delicious fruits are attraction for varieties of birds. The conserved area with dense vegetation, source of water, and least disturbance is an ideal place as habitat of biodiversity.

Table. 1. Total Plants (Campus Excluding Botanical Garden)

S. No.	Name	Types	Total No.
1	Trees	85	3087
2	Shrubs	46	1424
3	Herbs	17	473
4	Climbers	4	37
Grand Total		152	5021

Table. 2. Classification as per utility of Tree Plants (Campus Excluding Botanical Garden)

Sr. No.	Plant class	Types	Quantity
1	Avenue trees	16	817
2	Flowering plants	22	355
3	Fruiting Trees	27	640
4	Gymnosperm	05	076
5	Ornamental trees	08	375
6	Palms	07	824
Total		85	3087

Table 3. Avenue trees in the campus

S. No.	Name	No.	Remark
1.	Acacia auriculiformis	13	A

2.	Acacia nilotica	9	A
3.	Azadirachta indica	134	A
4.	Cassia	10	A
5.	Cassurina equesitifolia	3	A
6.	Cinnamomum verum	1	A
7.	Dendrocalamus strictus	144	A
8.	Eucalyptus lanceolatus	88	A
9.	Ficus elastic	1	A
10.	Grevillea robusta (Silvar oak)	20	A
11.	Holoptelia integrifolia (Vaval)	3	A
12.	Melia azadirchta	7	A
13.	Polyalthia longifolia	222	A
14.	Quercus	16	A
15.	Sapindus trifoliatus (Soap berry)	9	A
16.	Tectona grandis	137	A
Avenue trees (16)		817	

Table 4. Flowering trees in the campus

S. No.	Name	No.	Remark
1.	Albizia lebbeck	5	FL
2.	Allamanda cathartica	49	FL
3.	Alstonia scholaris	46	FL
4.	Arabica coffee	2	FL
5.	Bauhinia racemosa	1	FL
6.	Bauhinia variegata	1	FL
7.	Bignonia	39	FL
8.	Bombax sp.	1	FL
9.	Butea monosperma	2	FL
10.	Cassia fistula	1	FL
11.	Dalbergia sissoo	41	FL
12.	Delonix regia	8	FL
13.	Maduca indica	4	FL
14.	Magnolia champaca	7	FL
15.	Millingtonia hortensis	9	FL
16.	Mimusops elengi	1	FL
17.	Murraya exotica	7	FL
18.	Peltophorum pterocarpum	2	FL
19.	Polyanthus tuberosa Nishigandha	1	FL
20.	Kigelia pinnata	1	FL
21.	Saraca indica	119	FL
22.	Spathodia companulata	8	FL
Flowering plants (22)		355	

Table 5. Fruit bearing trees in the campus

S. No.	Name	No.	Remark
1.	Aegle marmelos	4	FR
2.	Annona reticulate	5	FR
3.	Annona squamosa	36	FR
4.	Artocarpus heterophyla	12	FR
5.	Carrisa carandas	1	FR
6.	Citrus lemon	53	FR
7.	Emblca officinarum	18	FR
8.	Eugenia jambolana (Syzygium cumini)	24	FR
9.	Ficus benghalensis	5	FR
10.	Ficus carica	3	FR
11.	Ficus racemosa (glomerata)	41	FR
12.	Ficus religiosa	4	FR
13.	Ficus rubiginosa (Pimpari)	1	FR
14.	Lucana (Subabhul)	7	FR
15.	Mangifera indica	198	FR
16.	ManilKara zapota (Acrus sapota)	12	FR
17.	Morinda citrifolia	5	FR
18.	Moringa oleifera	9	FR
19.	Muntingia calabura	18	FR
20.	Musa indica	34	FR
21.	Pithecolobium dulce	13	FR
22.	Psidium guajava (Guava)	80	FR
23.	Punica granatum (Dalimb)	2	FR
24.	Santalum album (Chandan)	20	FR
25.	Tamarindus indica	24	FR
26.	Terminalia bellirica (Bhehada)	1	FR
27.	Terminalia catappa	10	FR
Fruiting Trees (27)		640	

Table 6. Gymnosperm trees in the campus

S. No.	Name	No.	Remark
1.	Podocaurps	18	G
2.	Cycas circinalis	13	G
3.	Cuprus	1	G
4.	Pinus sp.	6	G
5.	Thuja occidentalis (Gymnosperm)	38	G
Gymnosperm (05)		76	

Table 7. Ornamental trees in the campus

Yashwantrao Chavan Warana Mahavidyalaya, Warananagar

S. No.	Name	No.	Remark
1.	Caesalpinia	75	O
2.	Callistemon lanceolatus	1	O
3.	Dracaena sanderiana (Lucky bamboo)	63	O
4.	Dracaena fragrance (Long Leaf)	8	O
5.	Euphorbia pulcherrima	13	O
6.	Ficus benamina	207	O
7.	Sansevieria cylindrical	5	O
8.	Sansevieria trifasciata	3	O
Ornamental trees (08)		375	

Table 8. Ornamental trees in the campus

S. No.	Name	No.	Remark
1.	Areca catechu (Bittlenut)	81	P
2.	Caryota urens	15	P
3.	Coccus nucifera	232	P
4.	Dypsis lutescens (Areca Palm)	348	P
5.	Phoenix sylvestris	5	P
6.	Roystonea regia	111	P
7.	Washingtonia robusta (Fan palm)	32	P
Palms (07)		824	

Table 9. Shrubs growing in the campus

S. No.	Name	Individual No.
1	Acalypha	672
2	Acalypha hispida	84
3	Acalypha nuda	42
4	Acalypha nuda Red	253
5	Acalypha thema	9 x 1
6	Adenium	2
7	Adhatoda vasica	3
8	Agave	3
9	Asparagus racemosus	1
10	Barleria	1
11	Bougainvelia	5
12	Cajanus cajan	50
13	Calatropis procera	5
14	Calliandra haematocephala	31
15	Cestrum noctarnum (Ratrani)	2
16	Chlorophytum	122
17	Citharexylum quadrangulare (Sitaranjan)	7

18	Clerodendron	20
19	Clerodendron inermis	115x2.5
20	Croton	197
21	Dieffenbachia	8
22	Duranta repens (Erecta) golden	220
23	Duranta variegata	189
24	Euphorbia milii	5
25	Galpamia glauca (Gracilis yellow fl hedge)	27
26	Hamelia patens	14
27	Hibiscus rosa-sinensis	29
28	Ixora chinensis	3
29	Ixora coccinia	10
30	Ixora miniature	13
31	Jatropha curcuns	22
32	Lantana camera	13
33	Morus alba	5
34	Mussenda	15
35	Nerium oleander	112
36	Nyctanthes arbor-tristis (Parijatak)	1
37	Plumbago auriculata (Neeli tilvan)	40
38	Plumbago zeylanica (saphed tilvan)	10
39	Plumeria acuminata (Pivala Chapha)	18
40	Ricinus cummunis	2
41	Rose	6
42	Tabebuia chrysantha (Yellow tebebua)	26
43	Tabernaemontana	91
44	Tabernaemontana variegata	59
45	Tecoma stans	193
46	Thevetia neriifolia	96
	Shrubs	1424

Table. 10. Herbaceous plants growing in the campus

S. No.	Name	No.
1	Abelmoschus esculentus Bhendi	1
2	Aloe vera	9
3	Alternanthera Spices	27 M
4	Bepilia	6x5x2
5	Canabis indica	110
6	Catharanthus alba	21
7	Catharethus roseus	13
8	Catharethus wrinkifolia	45
9	Convolvulus	34
10	Cymbopogon	12
11	Nymphaea lotus	35
12	Ocimum sanctum	55
13	Panocracium	35
14	Pentos	2
15	Pimenta dioica (All spices)	1
16	Solanum xanthocarpum	9
17	Typha	101
	Herbs	473

Table. 11. Climbers growing in the campus

S. No.	Name	No.
1	<i>Quisqualis indica</i>	16
2	<i>Polygonon leptopus</i>	12
3	<i>Mansoa allicaema</i>	7
4	<i>Bignonia venusta</i>	2

Report on Botanical Garden

The Warana Mahavidyalaya Botanical garden supported 170 angiosperms belonging to 66 families and 8 species of gymnosperms belonging to 6 families in addition to many seasonal plants. Cryptogams included 6 algae, 7 bryophytes and 9 pteridophyte species. This phyto-diversity included many medicinal plants. Studies further showed 16 species of birds and many insects.

The diversity of plants and birds was studied by arranging frequent visits for one year to the Botanical garden of the Y. C. Warana Mahavidyalaya, Warananagar, situated in Western Ghats (Sahyadri ranges) at 16.854535 N and 74.197676 N in Kolhapur district (Maharashtra).

Table 12. Diversity of cryptogams in the Botanical Garden

Group of plants	Algae	Bryophytes	Pteridophytes
No. of species	06	07	09

Table 13. Diversity of phanerogams in the Botanical Garden

Group of Plants	Gymnosperms	Angiosperms		Total No.
		Dicotyledonous	Monocotyledonous	
No. of Species	08	137	33	178
No. of Families	06	52	14	74

Table 14. Birds observed in the Botanical Garden

Sr. No.	Name	Common name
1	Sparrow	Chimani
2	Sunbird	Sunbird
3	Hornbill	Rakhi Dhanesh
4	Black Drongo	Kotval
5	Koyal	Kokila
6	Kingfisher	Khandya
7	Crow	Kawala
8	Red vented Bulbul	Red vented Bulbul
9	Tailor Bird	Shimpi
10	Maina	Salunkhi
11	Iora	Iora
12	Pigeon	Kabutar , Parava
13	Roseringed Parakeet	Popat, parrot
14	Owl	Ghubad
15	Yellow browed bulbul	Yellow browed bulbul
16	Grey Heron	Bagala