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	beyond the campus with geo tagged photographs with	
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	Policy Document on Environment and energy usage	View Document
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	Green audit Environmental audit report from recognized	View Document
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Summary

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7.1.3: Action Taken Report and Achievement Report as Clean and Green Campus Initiative

The Modern College of Pharmacy, Nigdi, Pune continuously takes efforts for environmental sustainability, responsible use of resources and awareness initiatives for clean and green campus. Green campus initiatives by institute includes organization of Cleanliness Drive in association with the NSS unit, utilization of natural resources like rain water and energy, waste management using proper segregation techniques without harming the environment, Plantation in and around the campus in association with NSS Unit. Students and staff members participate in these initiatives with great enthusiasm. Green audit, energy audit and environment audit has been conducted by the institute regularly. Slogans on Energy Conservation, Water conservation, Conservation of Greenery have been placed by the institute within the campus to create awareness among the students and staff. These Strategies have been included in institutional planning in order to create a clean and environmentally friendly campus. This Report focuses on initiatives taken to promote environmental conservation, clean and green campus.

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2022-23	1	Plastic Collection Drive
2021-22	2	Swachhta Pakhawada
	3	Training to Non-teaching staff about waste
		management
	4	Training to Non-teaching staff about sterilization
		microbial waste disposal
2019-20	5	Swachhta Pakhawada
	6	Tree Plantation
2018-19	7	Save water save environment Camp
	8	Tree plantation



2	Introduc	ction of Environmental sciences subject in the curriculum.				
3	Other m	Other measures for Clean and Green Campus				
	1	Rain water harvesting				
	2	Digital library				
	3	Paperless operating procedure				
	4	Use of VmEdulife Software				
	5	Complete ban on plastic in campus				
	6	Signage of plastic free campus				
	7	Landscaping with trees and plants				
	8	Recycling bin for e-waste (MOU of ECA)				
	9	Restricted entry of vehicles				
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-	11	No smoking campus signage				
	12	E-vehicle notice on notice board				
	13	Solid waste management				
	14	E-waste management				
	15	Biomedical waste management				
Outco	ome of all cle	ean and green campus initiative.				





CLEAN AND GREEN CAMPUS INITIATIVES SUMMARY

Action Taken Report and Achievement Report as Clean and Green Campus Initiative

The Modern College of Pharmacy, Nigdi, Pune continuously takes efforts for environmental sustainability, responsible use of resources and awareness initiatives for clean and green campus. Green campus initiatives by institute includes organization of Cleanliness Drive in association with the NSS unit, utilization of natural resources like rain water and energy, waste management using proper segregation techniques without harming the environment, Plantation in and around the campus in association with NSS Unit. Students and staff members participate in these initiatives with great enthusiasm. Green audit, energy audit and environment audit has been conducted by the institute regularly. Slogans on Energy Conservation, Water conservation, Conservation of Greenery have been placed by the institute within the campus to create awareness among the students and staff. These Strategies have been included in institutional planning in order to create a clean and environmentally friendly campus. This Report focuses on initiatives taken to promote environmental conservation, clean and green campus.



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			Training to Non-teaching staff about sterilization and			
		4	microbial waste disposal			
	22527250	5	Swachhta Pakhawada			
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	14	E-waste management				
	15	Biomed	lical waste management			



۱C P P. E. Society's Modern College of Pharmacy Yamunanagar Soctor No 2" Nigdi, Pune-411044



1. Awareness campaigns

NSS department has organized various awareness programs in and out of the campus. Environmental promotion activity, awareness campaigns are encouraged to facilitate effective implementation of the Green Campus, Energy and Environment policies.

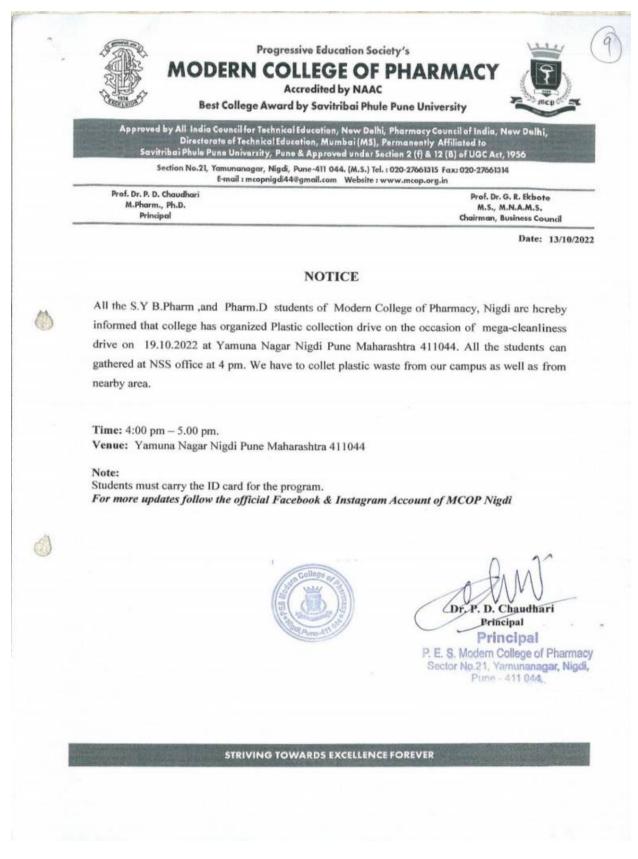
On daily basis the sweepers clean the campus and toilet. Institute has sufficient staff for cleaning of classrooms, corridors, faculty rooms, laboratories etc. During pandemic situation the fumigation and sanitization of the campus is frequently carried out. In the pandemic period sanitization of a hand before entering to the college premises and checking temperature by digital temperature were practiced.

Following are the details of sensitization program conducted since last 5 years with in campus.





1. Plastic Collection Drive (2022-23)



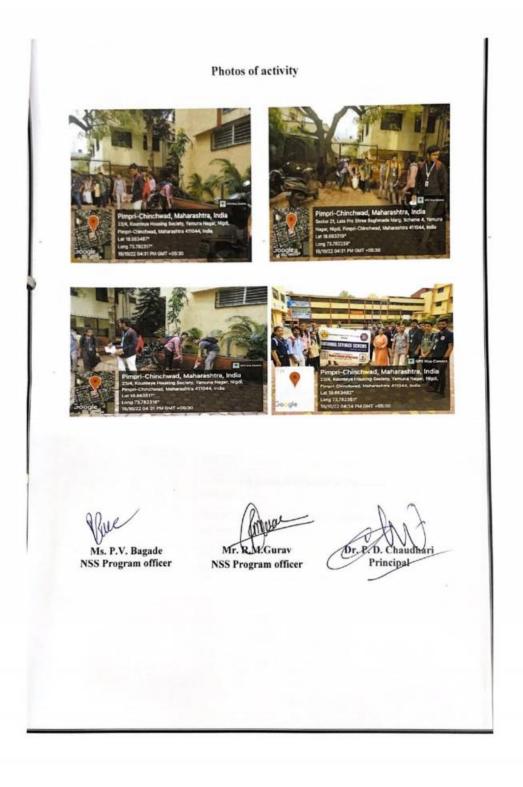




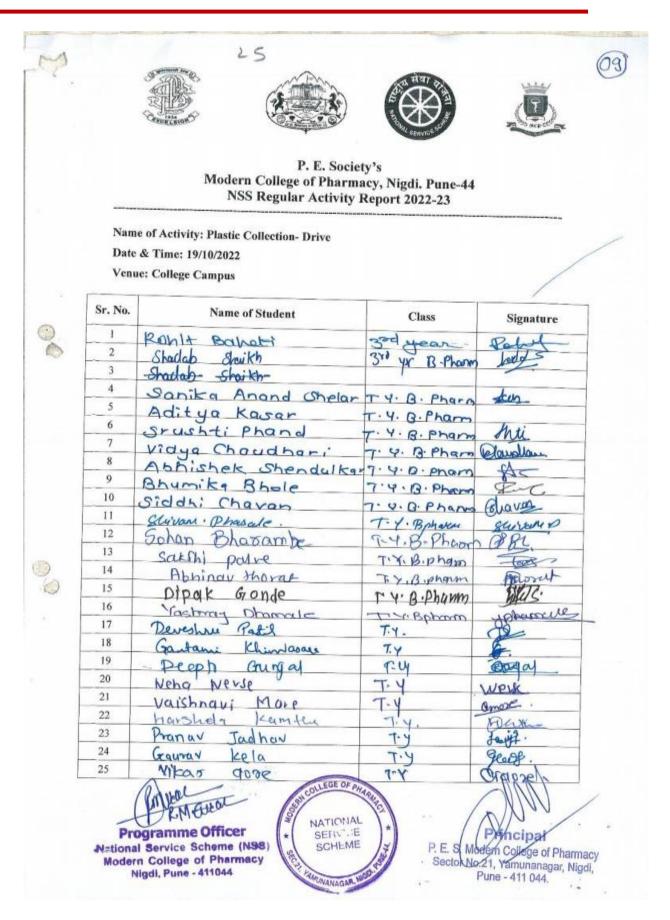
	NSS RECU	LAR ACTIVITY REPORT 2022-2023
1.	Name of activity	
	E	PLASTC COLLECTION- DRIVE
2.*	Date of activity	19.10.2022
3.	Time	4PM-5PM
4.	Total no students participate	25
5.	Occasion of activity	MEGA-CLEANLINESS DRIVE –PLASTC COLLECTION
6.	Inauguration by	Ms. Priyanka Bagade
7.	Place of activity	Yamuna Nagar Nigdi Pune Maharashtra 411044
8.	Objectives of activity	To clean the premises or Destruction of plastic from premises. To make the students aware about use of cloth bags instead of plastic
9.	Outcome of activity	Premises is free from plastic and students got idea regarding hazards effect of plastic on environment.
10.	Activity co-	Mr. R.M.Gurav.
	coordinator	Ms. P.V.Bagade.
		And



Photos of Plastic Collection Drive dated 19/10/2022

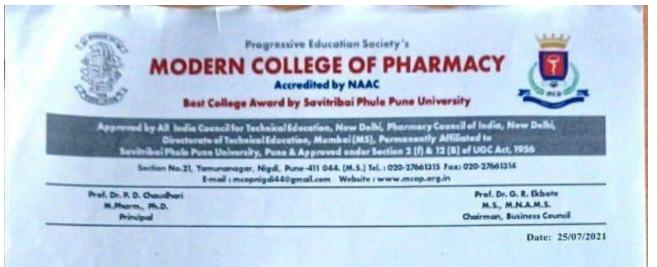








2. Swachhta Pakhawada (2021-22)



NOTICE

All the students & staff members are hereby informed that NSS Unit of the college has organized following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: Swachhata Pakhwada Date & Time: 01/08/2021 to 15/08/2021, 10.00 am to 6.00 pm Venue: College Campus. Note: Wear mask, Use Hand Sanitizers, Maintain Safe Distance



Dr. A. S. Tapkir NSS Program Officer

Programme Officer National Service Scheme (NSS) Modern Chiless of Pharmacy Nation, Page 411044



Dr. P. D. Chaudhari Principal Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



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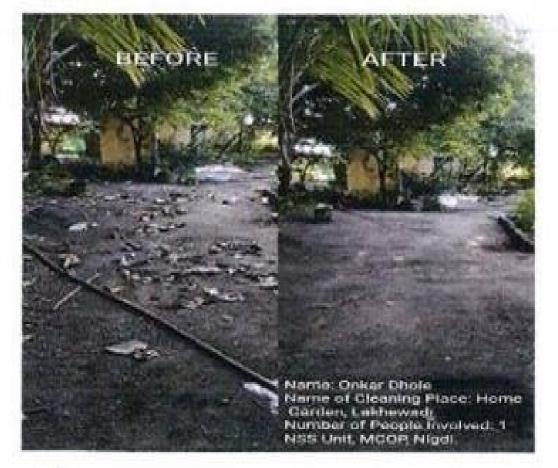


R. M. B.		P. E. Society's
		EGE OF PHARMACY, NIGDI, PUNE-44 EGULAR ACTIVITY REPORT 2021-22
1.	Name of Activity	Swachhata Pakhwada
2.	Date of activity	01.08.2021
3.	Time	10.00 am to 6.00 pm
4.	Total no students participated	100
5.	Occasion of activity	Swatchha Bharat Abhiyan
6.	Inauguration by	Dr. P.D. Chaudhari
7.	Place of activity	PES Modern College of Pharmacy, Nigdi, Pune-44
8.	Objectives of activity	To generate awareness about sanitation and its links to public health. To aware about waste management. To spread awareness about how to clean the premices. To maintain public health with the help of cleaning.
9.	Outcome of activity	Generated awareness in students and society regarding Swatchh bharat Abhiyan. Students understood how to do management of solid waste. As a pharmacist discussed and counseled regarding health and cleanliness and its relation in causing various diseases.
10.	Activity co- coordinator	Dr. A. S. Tapkir Prof. R. M.Gurav Prof. P. A.Pawar
10.		Dr. A. S. Tapkir Prof. R. M.Gurav



Photo of Swachata Pakhawada dated 01/08/2021

Date of activity: 01.08.2021



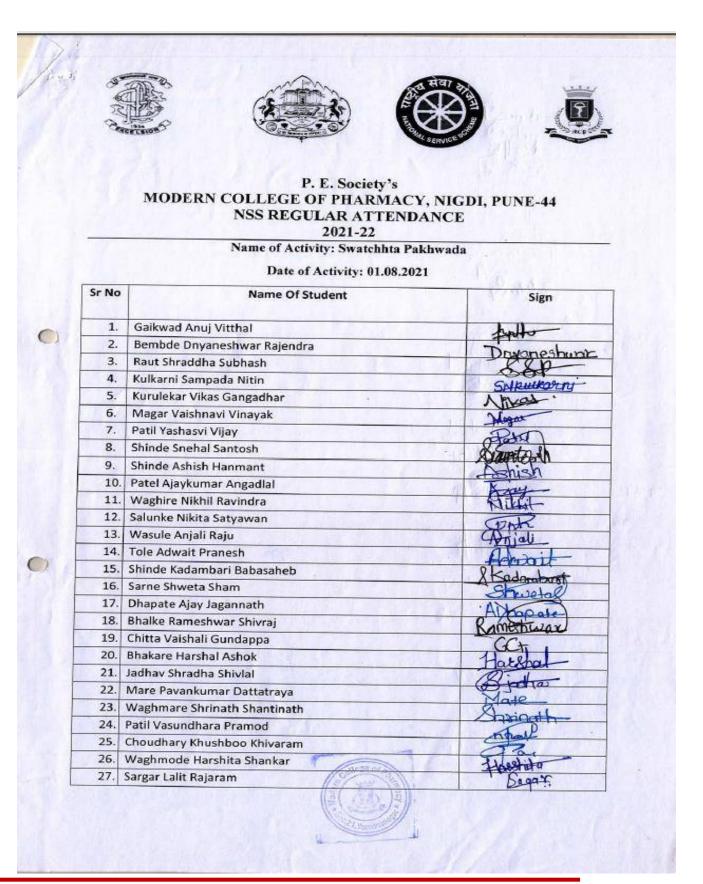
Dr. A. S. Tapkir NSS Program officer



P.D. Chaudheri Br. **Tincipal**

P. E. S. Modern College of Pharmacy Sector No.21, Yamuna Urgan Milest Pune + 411 Dirt







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29	Basate Tejaswini Shrimant	Taur
30	. Salve Ajinkya Prakash	Ainkva
31	. Gaikwad Siddhant Fulchand	Libbert
32	Bhale Bhagirathi Narayan	Burg
33	Kumbhar Nikhita Dattatray	Atumbhor.
34.	Hojage Sneha Navnath	Sight
35.	Shinde Varsha Pandurang	XSminde
36.	Ganjure Kaveri Uddhav	Kaveri
37.	Telang Akansha Gangadhar	Alapapa
38.	Hamdulay Yusra Rafiq O	Jum
39.	Hande Maithil Dattatray	Mittil
40.	Gohil Khushabu Bhikubhai	Ghuennet
41.	Taru Deepak Khandu	Dau
42.	Raut Pratiksha Laxman	inorthy
43.	Barwad Naresh Ramakant	TALA
44.	Khandagale Saakshi Suresh	Sakchi
45.	Giri Rutuja Vitthal	Bartun
46.	Harne Shivani Sahadeo	Shiringi
47.	Rokade Manish Subhash	Hart
48.	Hage Valbhav Ganesh	Ventehatt
49.	Dighe Trupti Eknath	TODRE
50.	Mate Dnyaneshwari Sandip	TAR
51.	Kale Rushikesh Hanmant	Dushikesh
52.	Gulhane Riteeka Ravindra	Ditertas
53.	Dhumal Neha Vinod	Tehri
54.	Patil Sayali Dipak	STAL
55.	Shrivastav Kalyani Rahul	Roll
56.	Chavan Guruprasad Satish	lanti-
57.	Deo Akshay Nitin	Alstar
58.	Deshmukh Rutuja Vitthal	Ruthing
59.	Kudale Sakshi Sunil	Shutte
50.	Majgaonkar Manali Mahadev	Marall
51.	Ladkat Hrushikesh Pandurang	Ruspikes h.
52.	Date Mayuresh Sitaram	all -
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69	Surwase Onkar Vishnu	(D. J.
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71	Supe Akshay Ramdas	(Akohna)
72	Shirsat Pranali Sanjay	Grade
73	Jachak Dhanashree Nitin	What
74	Bhongale Prasad Bharat	Proceed
75	Jadhav Swaroopa Sanjay	Spetapa
76	Gaikwad Siddhi Gulchand	& gaikand
77.	Nemmaniwar Abhishek Sunil	ASA
78.	Phapale Sanchit Prakash	Destit
79.	Gahiine Pritesh Namdev	wort
80.	Rane Tejashree Satish	- Khar
81.	Gavali Kartik Rajendra	Kartik -
82.	Badhe Prathamesh Babanrao	Shipat
83.	Shete Shivhar Baswraj	Pr
84.	Pandit Neha Kishor	Handit
85.	Dyagatwar Milind Gangadhar	Tillind
86.	Agalave Shravani Pandurang	Strempor
87.	Shinde Utkarsha Namdevrao	Apinett
88.	Dighe Shivani Appasaheb	Stiche
89.	Mane Rutuja Sanjay	Jane
90.	Pekamwar Mahesh Mukund	Throat
91.	Chavan Pooja Ramrao	Altaion
92.	Chavhan Ankush Laxman	Ankuch
93.	Kalyan Akshay Devidas	Kalpo
94.	Ahirrao Shraddha Anil	Shidde
95.	Banakar Truptee Hiralal	Inspee
96.	Bajare Shruti Sanjay	Darrel
97.	Andhale Rahul Balasaheb	Panul
98.	Chavan Dnyaneshwari Dasu	Ful-
99.	Dhole Onkar Nishikant	OUL

Signature

e

NSS Programme Officer



3



P. E. Society's Modern College of Pharmacy Nigdi-44

Supportive Staff/ Non-Teaching Training

Notice

Date: 8/10/2024

All Non-teaching staff/supportive staff of our college are hereby informed that, our college has organized trainings related to laboratory safety/ practical experimental work/Instruments handling etc, all must be present during the training session on given date and time, the details of training is as follows

Topic for training: Waste Management Place: MCOP, Nigdi, pune. Date: 09/10/2024

Other Instruction if any: -

R.A. JINturkaz

Name & Sign of Trainers

HOD

Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044

Copy to

- 1. Academic section
- 2. Class teachers 3. Office

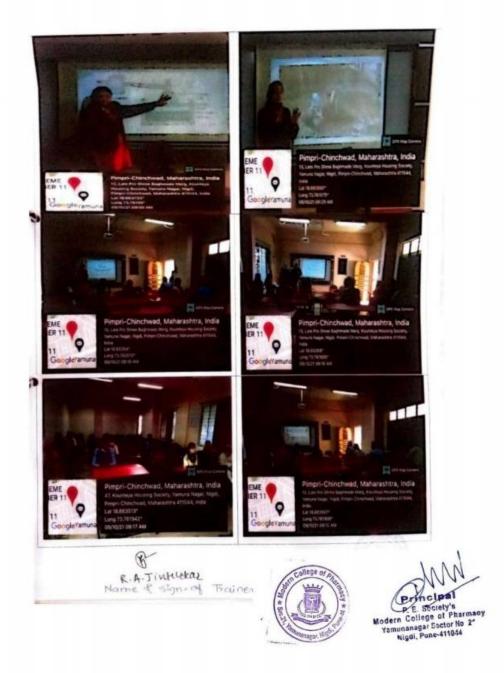
 - 4. Circulation to all supportive staffs



1. Name of activity:	upportive Staff/ Non-Teaching Training Supportive Staff/ Non-Teaching Training
2. Topic of training	Waste Management.
3. Date of activity	09/10/ 2021
4. Total no Staff participated	12
5. Occasion of activity	supportive staff training.
6. Place of training	Modero college of pharmacy Nigdip
7. Scope & Objectives of training	- To protect student, staff and public health and safty by regulating Laboratory practices. - To creat awareness among- non-teaching staff regarding waste management - monitoring + regulation of profess
8. Training given by	R.A.Jinturkar
9. Outcome of training	 To understand different type of wastes 4 their disposal methods. Pre-treatments of waste chemicals before disposal. Importance of soak pits designing it near laboratory.
10. Activity co- coordinator	Dr. Vitthal V Chopade and Ms Shubhada Jagdale
RA-Sinturkol. Name & sign of Trainers	College of Anthone Record of Pharmacy Yamunanegar Soctor No 2* Nigdi, Pune-411044



Photos of Training to Non-teaching staff about waste management dated 09/10/2021





P. E. Society's Modern College of Pharmacy Nigdi-44

Supportive Staff/ Non-Teaching Training

Attendance during training

Topic for training: Waste management. Place: MCOP, Nigdi, pune. Date: 09/10/2021

Sr. No	Name of Supportive staff	Signature
1.	Prachyja Pasesh Nagarker	ery.
2.	Ankita k. kamale	Acul
3.	Anupama Mohite	Anutre.
4	Davingave shradha halai	trencher_
5	maherder, K	Di.
6	Shubhangi Thalcall	Phaleate
45	S-A. Town	An
81	S.S. Shirke	SWITC
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(0)	Arwale horrishemuncher,	Hornwell
11	Amol. SUKal.	Arms
12)	promod Bohlsat	Folirat

R.A. Jinturkal Name & Sign of Trainers

HOD

cipal Principal

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



3

4. Training to Non-teaching staff about sterilization and microbial waste disposal

P. E. Society's Modern College of Pharmacy Nigdi-44

Supportive Staff/ Non-Teaching Training

Notice

Date: 28/11/2021

All non-teaching staff/supportive staff of our college are hereby informed that, our college has organized trainings related to laboratory safety/ practical experimental work/Instruments handling etc. all must be present during the training session on given date and time, the details of training is as follows

Topic for training: Sterilization and Microbial waste disposal

Place: Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 44

Date: 29/10/2021

Other Instruction if any:

All non-teaching staff of pharmaceutics department has been informed to be present in Pharmaceutics laboratory 5 on 29/10/2021 (Friday) at 3.00 pm.

150

Name & Sign of Trainers

HOD

Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044

Copy to

- 1. Academic section
- 2. Class teachers
- 3. Office
- 4. Circulation to all supportive staffs



	Modern Co	ollege of Pharmacy, Nigdi. Pune-44
	REPORT OF Sup	portive Staff/ Non-Teaching Training
1.	Name of activity:	Supportive Staff/ Non-Teaching Training
2.	Topic of training	Sterilization and microbial waste disposal
3.	Date of activity	29/10/2021
4.	Total no Staff participated	1 05
5.	Occasion of activity	National Pharmacy Week
6.	Place of training	Pharmaceutics Laboratory 4
7.	Scope & Objectives of training	Enhancement of microbiological skills of nonteaching sta Demonstration of 1. Wrapping of glasswares for autoclaving. 2. Microbiological waste disposal.
8.	Training given by	Dr Ujwala Desai
9.	Outcome of training	The practical hand of non teaching staff for handling different microbial cultures and disposal of microbiological waste was improved and enhanced by training session.
10	Activity co-	Dr. Vitthal V Chopade and Ms Shubhada Jagdale
G Gi-U Name	s - Besai & sign of trainer	



Photos of Training to Non-teaching staff about sterilization and microbial waste disposal dated 29/10/2021

<section-header><section-header>

Denci A. J.S Denzy

Name & sign of Trainers



Society Modern College of Pharmacy Yamunanagar Sactor No 2" Nigdi, Pune-411044





P. E. Society's

Modern College of Pharmacy Nigdi-44

Supportive Staff/ Non-Teaching Training

Attendance during training

Topic for training: Sterilization and microbial waste disposal

Place: Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 44

Date: 29/10/2021

Sr. No	Name of Supportive staff	Signature
15	Hulsuse Rached Masayan	Oppy.
27	Powar Repati rikas.	TuPaucos
37	Nalaryte S. 8.	B.
21)	soundary B. Vanlat	ANDS
53	Amol. s. Sulkee	Anul .

Perai

Name & Sign of Trainers

HOD

rincip Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunariagar, Nigdi, Pune - 411 044

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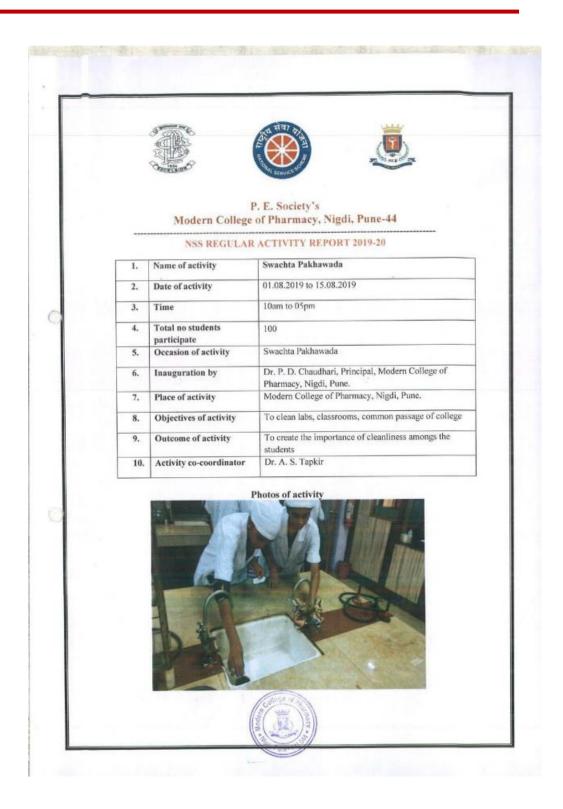




5. Swachhta Pakhawada (2019-20)

P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44 Date: 25/07/2019 NOTICE All the NSS Volunteers are hereby informed that NSS Unit of the college has organised "Swachta Pakhawada" activity from 01.08.2019 to 15.08.2019. Detailed schedule of activity will be shared soon on official WhatsApp group. All are requested to actively participate in the activity. 0 Dr. P. D. Chaudhari Dr. A. S. Tapkir Principal **NSS Program Officer** Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

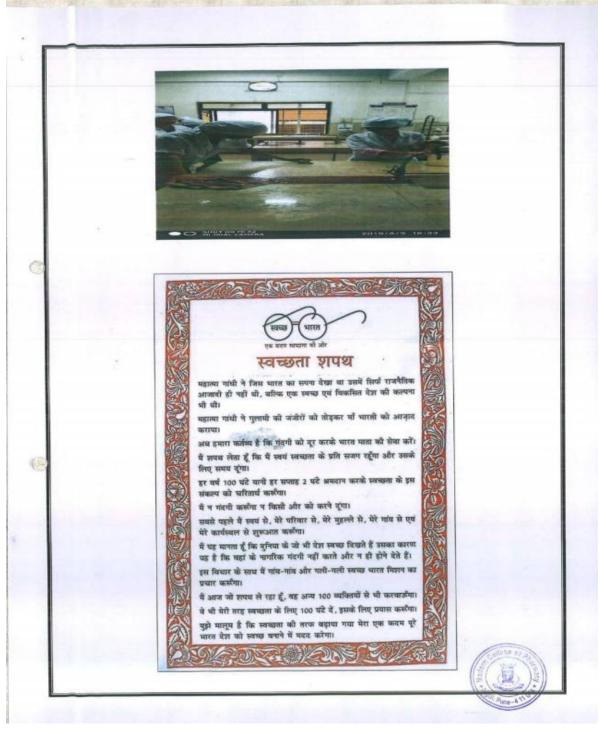




Photos of Swachata Pakhawada dated 01/08/2019 to 15/08/2019



Photos of Swachata Pakhawada dated 01/08/2019 to 15/08/2019





Photos of Swachata Pakhawada dated 01/08/2019 to 15/08/2019







	and	Bill Service Street
	P. E. Society MODERN COLLEGE OF PHARM NSS REGULAR ATT 2019-2020	IACY, NIGDI, PUNE-44 ENDANCE
	Name Of Activity: Swach Date of Activity: 01.08.201	
Sr.	No Name of Student	Sign
1.	Kothari Vinay Nitinkumar	VID40
2.	YeoleAkshay Ashok	KKOLYO-
3.	NarwadeSwapnadeepNamdeo	Nomende.
4.	Thakare Vivek Vasant	Viliole
5.	PowarSayali Raju	tayall .
6.	Deshmukh Ketki Dinesh	TOPTKI
7.	More Mayur Satish	Mayler
8.	Pujari Suraj Shivaji	(N)
9.	Gurav Tushar Sanjay	Tucha
10		Bhansada
11		Eande
12	. DhongadeJanhavi Satish	- Lingari
13	. Jadhav Nikita Yashwant	Nikita
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4	5. Hamdulay Yusra Rafiq	- Jugoch
4	7. Dighe Trupti Eknath	traph'
4	 Borole Samiksha Vishnu 	Bondel.
4	 Taru Deepak Khandu 	Deepak
5	 Rokade Manish Subhash 	WRetedo_
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5		The
5	5. Kale RushikeshHanmant	Hichikeh
5	 Ranaware Sunita Ramdas 	Sunita
5	 GulhaneRiteeka Ravindra 	Rileeko
5	 Gohil KhushabuBhikubhai 	Am
5	 Dhumal Neha Vinod 	S.P.
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79.	Patil Dinesh Vasudeo	Fint
80.	Gaikwad Siddhi Gulchand	-sidelai
81.	JachakDhanashree Nitin	they
82.	Gite RoshaniSuryabhan	Pashni
83.	Surwase Onkar Vishnu	Sanker_
84.	BandukeMugdha Vikas	Der
85.	SuryawanshiVaibhavi Ramesh	Vaibhavi.
86.	Mande Tanvi Sanjay	tang?
87.	Date Mayuresh Sitaram	Magnet
88,	Khedekar Tejas Gulab	The
89.	Nemmaniwar Abhishek Sunil	Thisbelt
90.	Jadhav Swaroopa Sanjay	Surreana_
91.	KalaskarSmitesh Narayan	Kamitesh
92.	Shelke Ganesh Suresh	-Similar h
93.	Bhongale Prasad Bharat	Pragad
94.	PhapaleSanchit Prakash	Seinchit
95.	Gahiine Pritesh Namdev	Friday
96.	YedagePranita Sanjay	(troorita
97.	Ratnaparkhi Aniket Girishrao	ANIVET
98.	Sawant Nitesh Shankar	Nites -
99.	BandukeMugdha Vikas	mprojent
100.	Mahajan Akshay Gopal	Atrau

Signature

NSS Programme Officer





6. Tree Plantation (2019-20)

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P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44

Date: 06/09/2019

NOTICE

All the NSS Volunteers are hereby informed that NSS Unit of the college has organised "Tree Plantation" activity on 09.09.2019 at 10:00 am to 1:00pm in college campus. All are requested to actively participate in the activity.

Note:

Samplings will be provided from the college authority.

Dr. A. S. Tapkir

NSS Program Officer

Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



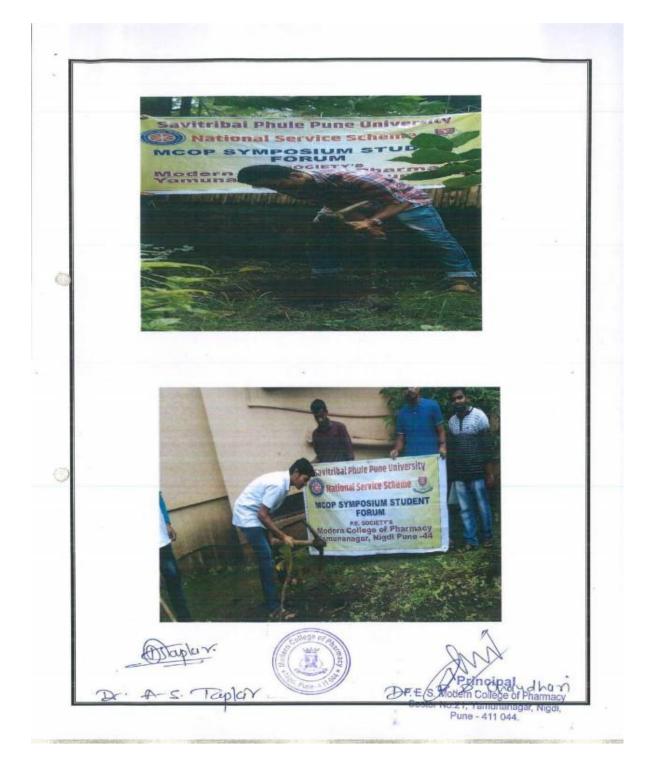


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		Charleston	AL REPORT OF	
			P. E. Society's	
			llege of Pharmacy, Nigdi, Pune-44	
			ULAR ACTIVITY REPORT 2019-20	
	1.	Name of activity	Tree Plantation	
-	2.	Date of activity	09.09.2019	
	3.	Time	8.00 am 10.30 am	
	4.	Total no students participate	50	
	5.	Occasion of activity		
	6.	Inauguration by	Dr. P. D. Chaudhari, Principal, Modern College of Pharmacy, Nigdi, Pune.	
	7.	Place of activity	Modern College of Pharmacy, Nigdi, Pune.	
	8.	Aim of activity	Plantation	
	9.	Outcome of activity	Plantation was done successfully(Number of samplings planted:50)	
	10.	Activity co- coordinator	Prof. Mr. A. S. Tapkir	
			Photos of activity Thai Phute Pune University attenail Service Scheme P SYMPOSIUM STUDEN Pollege harms agan, N	

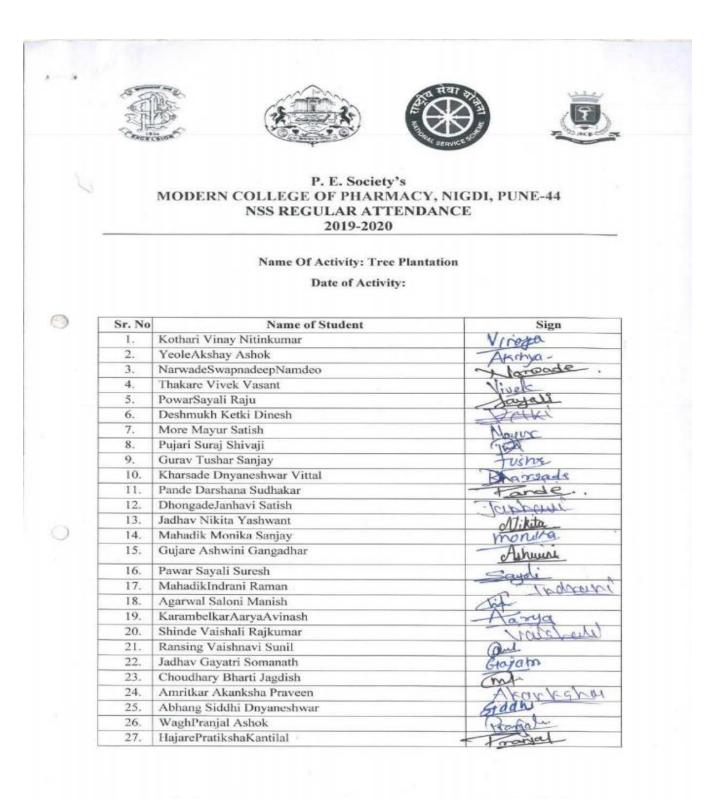
Photo of Tree Plantation dated 09/09/2019



Photo of Tree Plantation dated 09/09/2019









	20	Change Share 1	
	28.	Choure Saurabh Kailas	Saurabh
	29.	Deshpande Urvi Vijay	Desponde
	30.	Shirke Disha Ajay	
	31.	Suryawanshi Pooja Prakash	P. POOLO
	32.	Naykinde Sandhya	Sandhiya
	33.	Andre Rutuja Sunil	Partial Cl
	34.	Padale Neha Madan	Neddle.
	35.	Shaikh Sufiyan Mohamadaslam	Sufiger
	36.	Pathan Ayesha Vinus	Vathan.
	37.	ThoratRutuja Mahesh	Rutiasa
	38.	Tantri Rashmi Raveendra	Pashanu
	39.	SavaseBhagyashreeHaridas	Anger astruce
	40.	Chaudhari Sagar Rohidas	Jagar .
	41.	Tiwari Shrusti Ashok	Storbatel'
	42.	Richardson Charmine .	charmand
	43.	Sudrik Kranti Gorakh	Kranti
	44.	Chavan Yash Dinesh	Capit
- 1	45.	Todkar Aniket Sunil	Aniret
	46.	Hamdulay Yusra Rafiq	Pur rel
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		Dr. A. S. 7	oplar
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7. Save water save environment Camp (2018-19)

	Directorate of Technical Education, ai Phule Pune University, Pune & Apy on No.21, Yamunanagar, Nigdi, Pune-4	proved under Section 2 (j 11 044. (M.S.) Tel. : 020-2766	A 12 (8) of UGC Art, 1956 1315 Fax: 020-27661314
Prof. Dr. P. D. Ox M.Pharm., P Prindpal		Learn Website : www.zhcog	Prof. Dr. G. R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council
- Siles			Date: 09/03/20
	N	OTICE	
college will be	students of Modern College of organizing save water save	e environment cam	
students can cor	npulsorily report to NSS office	at 10.00am.	
Date:12.03.201	9		
Time: 10:00 an Venue:Modern	i to 12:00 pm college of Pharmacy, Nigdi Pu	ne.	
Note: Breakfast will b	e provided by college.		
Students must c	arry the ID card for the program	n.	1
			AW
	10	Selection (Dr. F. D. Chaudhari
		() P.	E.S. Modern College of Pharmacy
		and a second	Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.





giving message to save water and environment. 2. Date of activity 12/03/2019 3. Time 10AM –12PM 4. Total no students participate 50 5. Occasion of activity NSS activity 6. Inauguration by Dr. Amit Tapkir 7. Place of activity Modern college of Pharmacy, Nigdi, Pune 8. Objectives of activity To increase awareness of students about the saving and securing the environment. 9. Outcome of activity Student understood the role of each human being twater and environment	Name of activity Save water save environment camp-wall paintings for giving message to save water and environment. Date of activity 12/03/2019 Time 10AM –12PM Total no students articipate 50 Deceasion of activity NSS activity nauguration by Dr. Amit Tapkir Disce of activity Modern college of Pharmacy, Nigdi, Pune Dispectives of activity To increase awareness of students about the saving wand securing the environment. Dutcome of activity Student understood the role of each human being to sa	Name of activity Save water save environment camp-wall paintings for giving message to save water and environment. Date of activity 12/03/2019 Time 10AM –12PM Total no students participate 50 Occasion of activity NSS activity Inauguration by Dr. Amit Tapkir Place of activity Modern college of Pharmacy, Nigdi, Pune Objectives of activity To increase awareness of students about the saving water and securing the environment. Outcome of activity Student understood the role of each human being to saver water and environment Activity co- Dr. Amit Tapkir	1. Name of activity Save water save environment camp-wall paintings for giving message to save water and environment. 2. Date of activity 12/03/2019 3. Time 10AM –12PM 4. Total no students participate 50 5. Occasion of activity NSS activity 6. Inauguration by Dr. Amit Tapkir 7. Place of activity Modern college of Pharmacy, Nigdi, Pune 8. Objectives of activity To increase awareness of students about the saving water and securing the environment. 9. Outcome of activity Student understood the role of each human being to save
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10 Activity co.	water and environment	Dr Amit Lankir	Dr Amit Lankir
Dr Amit Lankir	Dr Amit Lankir	coordinator	
Photos of activity	Directory of a chinic	Photos of activity	Photos of activity
	Photos of activity		

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044

NSS Program officer

Principal

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



	P. E. Society's Modern College of Pharmacy, Nigo National Service Scheme 201	
	Name of Activity: Save Water Save Environm Place: PES, Modern College of Pharmacy, N Date:12/03/2019	
Sr. No.	Name of student	Signature
1.	Choudhary Sandeep Kukaram	
2.	Jadhav Mayuresh Nandkumar	Carpent
3.	Chinchole Swapnil	Ferinehok
4.	Gawade Sonali Bhalchandra	Budi
5.	Khamkar Pooja Manohar	Poque
6.	Patil Lokesh Gopal	(glush:
7.	Mekhe Aniket Rajendra	Aniket
8.	Shinde Sneha Rajendra	Enelia
9.	Shirude Snehal Sunil	F.
10.	Shah Ankita Harshavardhan	Ankita
11.	Pawar Anagha Satish	Aspuwar
12.	Wagh Anupa Dnyaneshwar	Anupar
13.	Sabana Khatun	blobora
14.	Sathe Rahul Shivaji	Rahulsathe
15.	Vanarote Omkar Nagesh	and and
16.	Takawle Mayuresh Vijaykumar	el Hinthdia
17.	Sonawane Pratiksha Devidas	Sprawape
18.	Nimbalkar Omkar Sanjay	Demilieras
19.	Uttarkar Manasi Mannojj	regenause
20.	Darshana Pandit	Porcha
Prof. A. S Prof. A. C		D. P. D. Chaudhari Principal Principal P. E. S. Modern College of Pharmac Sector No. 21, Yamunanagar, Nigel, Pune - 411 044,





8. Tree Plantation 2018-19

Progressive Education Society's MODERN COLLEGE OF PHARMACY Accredited by NAAC Best College Award by Savitribai Phule Pune University ved by All India Council for Technical Education, New Delhi, Pharmacy Council of India, New D Directarate of Technical Education, Membai (MS), Permanently Affiliated to avitribai Phule Pune University, Pune & Approved under Section 2 (f) & 12 (B) of UGC Act, 1956 Section No.21, Yamunanagar, Nigdi, Pune-411 044. (M.S.) Tel. : 020-27661315 Fax: 020-27661314 E-mail : mcapnigdi449gmail.com Website : www.mcep.org.in Prof. Dr. G. R. Ekbote Prof. Dr. P. D. Chaudhari M.S., M.N.A.M.S. M.Pharm., Ph.D. Principal Chairman, Business Council Date: 28/07/2018 NOTICE All the B.Pharm students of Modern College of Pharmacy, Nigdi Pune are hereby informed that our college will be organizing Tree plantation activity in college campus on 07.8.2019. Interested students can compulsorily report to NSS office at 10.00am. Date:07.08.2018 Time: 10:00 am to 5:00 pm Venue:Modern college of Pharmacy, Nigdi Pune. Note: Breakfast will be provided by college, Students must carry the ID card for the program. Chaudhari Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdl, Pune - 411 044 STRIVING TOWARDS EXCELLENCE FOREVER





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	No. of the second se	
		Service
		P. E. Society's
	Modern Co	ollege of Pharmacy, Nigdi, Pune-44
	NSS REGU	LAR ACTIVITY REPORT 2018-2019
1.	Name of activity	Tree Plantation
2.	Date of activity	07/08/2018
3.	Time	10AM -11AM
4.	Total no students participate	100
5.	Occasion of activity	NSS activity
6.	Inauguration by	Dr. Amit Tapkir
7.	Place of activity	Modern college of Pharmacy, Nigdi, Pune
. 8.	Objectives of activity	To make the students aware about the tree plantation To make the premises green.
9.	Outcome of activity	Students got idea how to do tree plantation and importance of tree plantation for our forest Eco system.
10.	Activity co- coordinator	Dr. Amit Tapkir
	coordinator	Photos of activity
Contraction of the second		entited ya ya Bautin sonth tegetar Atar athorna On attage organism streams Atar attached
	Dr. Amit Tapkir SS Program officer	Dr. P. B. Chaudhari Principiatal P. E. S. Modern College of Pharman



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P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44 National Service Scheme 2018-19

Name of Activity: Tree Plantation

Place: PES, Modern College of Pharmacy, Nigdi, Pune-44

Date: 07/08/2018

Sr. No.	Name of student	Signature
1.	Choudhary Sandeep Kukaram	though my_
2.	Jadhav Mayuresh Nandkumar	Alahow
3.	Chinchole Swapnil	Schineho
4.	Gawade Sonali Bhalchandra	- Cli
5.	Khamkar Pooja Manohar	Sund
6.	Patil Lokesh Gopal	Peeja
7.	Mekhe Aniket Rajendra	Aniket makes
8.	Shinde Sneha Rajendra	Enebe-
9.	Shirude Snehal Sunil	Friend
10.	Shah Ankita Harshavardhan	CS.
11.	Pawar Anagha Satish	Ankita
12.	Wagh Anupa Dnyaneshwar	A pawa
13.	Sabana Khatun	Hunta-
14.	Sathe Rahul Shivaji	Thatur
15.	Vanarote Omkar Nagesh	Kassiler
16.	Takawle Mayuresh Vijaykumar	entrandez
17.	Sonawane Pratiksha Devidas	
18.	Nimbalkar Omkar Sanjay	(Numballare
19.	Uttarkar Manasi Mannojj	2
20.	Darshana Pandit	Darsbard

Prof. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer

Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044,





Introduction of Environmental sciences subject for B. Pharm and Pharm D. students: Institute has offered educational program focused on the environment, such as environmental science subject in the curriculum of B. Pharm and Pharm D students

Item No.1: To introduce/add environmental studies subject in Second Year Pharm D. as per guidelines of UGC and PCI and to implement syllabus and evaluation pattern led down by UGC/SPPU for environmental studies. With reference to Circular No.266/2020 dated 05/10/2020, It was unanimously decided that environmental studies subject should be introduced as compulsory subject in Second Year Pharm D. as per UGC guidelines and syllabus and evaluation pattern led down by UGC & SPPU should be implemented as follows. It will be effective from academic year 2021-22.

> Syllabus for Ability Enhancement Compulsory Course (AECC – Environment Studies) for under graduate (For Second Year Pharm D) It is as per UGC guidelines and framing

Unit 1 : Introduction to environmental studies • Multidisciplinary nature of environmental studies; • Scope and importance; Concept of sustainability and sustainable development. (2 lectures)



College of Pharmacy Modern amunanagar Sector No 2* Nigdl, Pune-411044



Unit 2 : Ecosystems • What is an ecosystem? Structure and function of ecosystem ; Energy flow in an ecosystem : food chains, food webs and ecological succession. Case studies of the following ecosystems : a) Forest ecosystem b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries) (3 lectures)

Unit 3 : Natural Resources : Renewable and Non-renewable Resources • Land resources and landuse change; Land degradation, soil erosion and desertification.
• Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. • Water : Use and over-exploitation of surface and ground water, floods, droughts conflicts over water (international & inter-state). • Energy resources : Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies. (10 lectures)

Unit 4: Biodiversity and Conservation • Levels of biological diversity : genetic, species and cosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots • India as a mega-biodiversity nation; Endangered and endemic species of India • Threats to biodiversity : Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity. • Ecosystem and biodiversity services : Ecological, economic, social, ethical, aesthetic and

Informational value. (10 lectures) Unit 5 : Environmental Pollution * Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution • Nuclear hazards and human health risks • Solid waste management : Control measures of urban and industrial waste. • Pollution case studies. (10 lectures)

industrial waste. • Pollution case studies. (10 rection) Unit 6 : Environmental Policies & Practices • Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture • Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Wildlife Protection Act; Forest Conservation on Biological Diversity (CBD). • Nature reserves, tribal populations and rights, and human wildlife conflicts in

Indian context. (10 lectures) Unit 7 : Human Communities and the Environment • Human population growth: Impacts on environment, human health and welfare. • Resettlement and rehabilitation of project affected persons; case studies. • Disaster management : floods, earthquake, cyclones and landslides. • Environmental movements : Chipko, Silent valley, Bishnois of Rajasthan, • Environmental ethics: Role of



S Modern College of Pharmacy Yamunanagar Sactor No 2" Nigdi, Pune-411044



Indian and other religions and cultures in environmental conservation. . Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi): (5 lectures) =

Unit 8 : Field work

- · Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- · Study of simple ecosystems-pond, river, Delhi Ridge, etc. (Equal to 5 lectures)

References :

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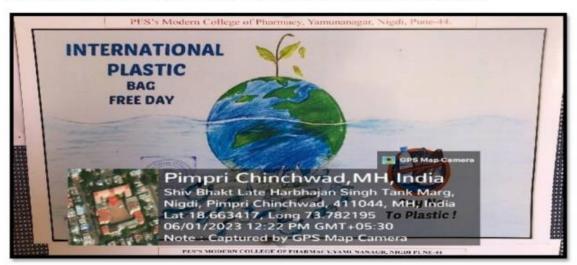
E. Society's Modern College of Pharmacy Yamunanagar Sactor No 2 Nigdi, Pune-4110-44



Other measures as Clean and Green campus initiatives

Complete ban on plastic in campus.

The college is committed to make the campus plastic-free and environmentally friendly. Our institute has a MOU with the Environmental Conservation Association (ECA) to promote various environment awareness activities and programs. We have sign boards in our campus displaying ban on use of plastic materials.



Display of poster creating awareness of plastic free campus on Notice Board

Signage of Plastic Free Campus

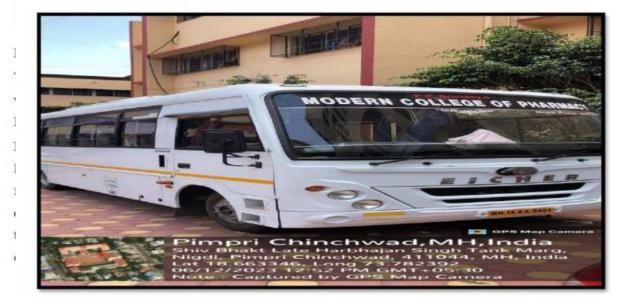








CNG Bus







No Smoking Campus

Institute is completely free from smoke and tobacco, smoking and chewing of tobacco is strictly prohibited in the college.

Display of Notice (No Smoking Campus Signage)



Display of Notice (E-vehicle awareness)





Solid Waste Management

Waste is collected on a daily basis from various sources and colour coded dustbins are used for different types of wastes. Students and staff are educated on proper waste management practices through lectures, advertisement on notice boards, displaying slogan boards in the campus.



Liquid Waste Managenment:

Soak Pit: Waste water generated during the practicals in chemistry laboratory is discharged into specially designed soak pit. Soak pit contains porous layers of bricks, graded stones, sand that helps to treat the waste water and allows treated water to soak into the ground.



E-waste Management: Old monitors and CPUs are repaired by our technician and reused. The institute has MOU with the ECA (Environment Conservation Association) an NGO working in Pune and PCMC. Institute has tie ups with the local municipal corporation (PCMC) and in support with them institute manages the solid and liquid waste and hazardous chemicals waste management.

E-Waste Management



Biomedical Waste Management: The institute have a tie up with PASSCO environmental solutions, Pimpri which is managed by Pimpri-Chinchwad Municipal Corporation. We follow the waste disposal procedure as per the norms of PASSCO. For the disposal of biological waste, we use 2 types of the bags i.e., red biohazard bag and yellow biohazard bag. Red biohazard bags are used to collect anatomical waste including human body fluids like semen, saliva, tissues, organs and animal carcasses. Yellow biohazard bags are used to dispose of clinical waste like swabs, dressings, tissues, soiled gloves and aprons. Theses wastes collected from the college were further processed by PASSCO.





Biomedical Waste Management



P.E. Society's Modern College of Pharmacy Yamunanagar Sector No 2*

Nigdi, Pune-411044







Biomedical Waste Management





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P.E. Society's Modern College of Pharmacy Yamunanagar Sactor No 2* Nigdi, Pune-411044





7.1.3: Certificates of Awards received from recognized agency.

P.E.S. Modern College of Pharmacy is recipient of an award from VM EDUlife. VM EDUlife is an ISO 9001:2015 certified Company, it is an industry associate of SCGJ, India. Also, it is an Official Member of NASSCOM. It is a cloud-based learning platform provider for various educational institutions This organization has awarded P.E.S. Modern College of Pharmacy, Nigdi, Pune-44 to honor the valuable contribution towards implementation of online platform which contributes for sustaining greener nation.

This certificate of award is given for academic year 2022-23 as a continuation with previous award for the year 2016-21.

This is greatest outcome of all clean and green campus initiative.





Certificate of award by VM EDULife (2022-2023):











7.1.3: Report on Environmental Promotional activities conducted beyond the campus with geo tagged photographs





7.1.3 Report On Environmental Promotional Activities Beyond Campus During 2018-19 To 2022-23.

P.E.S. Modern College of Pharmacy has always taken efforts to raise awareness, promote sustainability, and address environmental challenges within our institute and community at large. Institute helps to educate the students and public about environmental issues, such as pollution, deforestation, save water, cleanliness etc. To achieve the same, institute has participated, organized and conducted various campaigns like Gram SwachhataAbhiyaan, Swachha Bharat Abhiyaan, Samartha Bharat Abhiyaan, Water conservation drive, Clean India Camp, Mazi Vasundhara Abhiyaan, etc. As 'Save water' initiative, institute has organized national level webinar for the community on the topic 'Catch the Rain' featuring expert speakers and researchers in collaboration with Ministry of Youth and Sports Govt. of India. In this webinar our faculty member Dr. Bhushan Pimple, (Head, Pharmacognosy dept) talkedonthe necessity of awareness among the people about Rain Water Harvesting and Save Water campaign. Institute have organized public events, such as Clean Campaigns and Tree-plantation initiatives, to engage the community and encourage their active participation in environmental conservation efforts. The following report outlines the environment promotional activities undertaken by Modern College of Pharmacy, Nigdi, Pune during the period [2018-19 to 2022-23].

INDEX

A.Y.	Sr. Title of environmental promotional Activities	
	No	
<u>Summary</u>		
<u>2022-23</u>	1	Alandi river cleaning drive
	2	Tree plantation activity on Bhandara hills
	3	Tree plantation activity on Durga Tekdi on occasion of Pharmacist day
	4	Tree plantation and cleaning activity at Jambhawade village.
	5	Plastic collection drive at Yamuna Nagar
	6	Public awareness rally and swachhabharatabhiyaan
<u>2021-22</u>	7	"Catch the Rain" national level webinar

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044





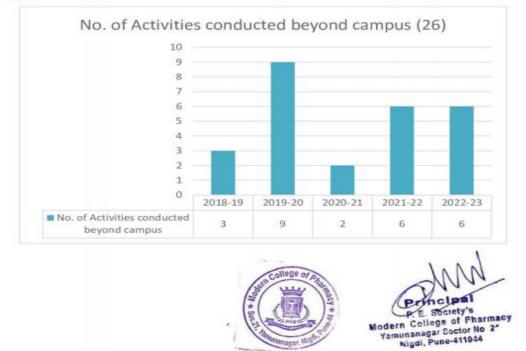
	8	Mazi vasundhara Abhiyaan
	9	Gram Swachhta Abhiyaan
	10	Tree plantation at Jambavade Village
	11	Water and Soil analysis
	12	University level Nature conservation camp
<u>2020-21</u>	13	Tree plantation
	14	Swachha bharat abhiyaan- cleaning campaign
<u>2019-20</u>	15	World record participation: Tree plantation in the "Palakhi Marg"
	16	Swachhawari-swasthawari- nirmalwari-haritwariAbhiyaan- leaf patravalivatap
	17	Save water (Ganesh idols donation and Nirmalya collection activity)
	18	Swachh bharatabhiyan Cleaning campaign MoryaGosaviMandir
	19	Clean India Awareness rally
	20	Gram SwachhtaAbhiyaan
	21	Tree plantation
	22	Sinhagadh Fort cleaning camp
	23	Swachha Bharat Abhiyaan- Ratangadh, Kalsubai camp
<u>2018-19</u>	24	Gram swachhataAbhiyaan
	25	Plastic free India, Samartha Bharat Abhiyaan
	26	Street play :swachha Bharat
	1	Total 26 Environmental Promotional Activities.
Sustainable	Practi	ces



SUMMARY OF ENVIRONMENTAL PROMOTIONAL ACTIVITIES BEYOND CAMPUS

REPORT ON ENVIRONMENTAL PROMOTIONAL ACTIVITIES BEYOND CAMPUS DURING 2018-19 to 2022-23.

Modern College of Pharmacy has always taken efforts to raise awareness, promote sustainability, and address environmental challenges within our institute and community at large. Institute helps to educate the students and public about environmental issues, such as pollution, deforestation, save water, cleanliness etc. To achieve the same, institute has participated, organized and conducted various campaigns like Gram SwachhataAbhiyaan, Swachha Bharat Abhiyaan, Samartha Bharat Abhiyaan, Water conservation drive, Clean India Camp, Mazi Vasundhara Abhiyaan, etc.As 'Save water' initiative institute has organized national level webinar for the community on the topic 'Catch theRain' featuring expert speakers and researchers in collaboration with Ministry of Youth and Sports Govt. of India. In this webinar our faculty member Dr. Bhushan Pimple, (Head, Pharmacognosy dept) talkedon the necessity of awareness among the people about Rain Water Harvesting and Save Water campaign. Institute have organized public events, such as Clean Campaigns and Tree-plantation initiatives, to engage the community and encourage their active participation in environmental conservation efforts. The following report outlines the environment promotional activities undertaken by Modern College of Pharmacy, Nigdi, Pune during the period [2018-19 to 2022-23].





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	No					
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	2	Tree plantation activity on Bhandara hills				
	3	Tree plantation activity on Durga Tekdi on occasion of Pharmacist day				
	4	Tree plantation and cleaning activity at Jambhawade village.				
	5	Plastic collection drive				
	6	Public awareness rally and swachha bharat abhiyaan				
2021-22	7	"Catch the Rain" national level webinar				
	8	Mazi vasundhara Abhiyaan				
	9	Gram SwachhtaAbhiyaan				
	10	Tree plantationat Jambavade Village				
	11	Water and Soil analysis				
	12	University level Nature conservation camp				
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	26	Street play :swachha Bharat				
		Total 26 Environmental Promotional Activities.				



Modern College of Pharmacy Yamunanagar Sactor No 2' Nigdi, Pune-411034

1



AWARENESS CAMPAIGN

2022-23





1. Alandi river cleaning drive Report:

Progressive Education Soc MODERN COLLEGE OF Accredited by NAAC Best College Award by Savitribai Phu	PHARMACY
Approved by All India Council for Technical Education, New Delt Directorate of Technical Education, Mumbai (MS), Savitribai Phule Pune University, Pune & Approved under S	Permanently Affiliated to
Section No.21, Yamunanagar, Nigdi, Pune-411 044. (M.S.) Te E-mail : mcopnigdi44@gmail.com Website :	
Prof. Dr. P. D. Chaudhari	Prof. Dr. G. R. Ekbote
M.Pharm., Ph.D.	M.S., M.N.A.M.S.
Principal	Chairman, Business Council

Date: 15/06/2022

NOTICE

All the B. Pharm and Pharm. D students of Modern College of Pharmacy, Nigdi, Pune are hereby informed that our college will be organizing Alandi River cleaning drive on 22.06.2022 at Shree Sant Dnyaneshwar Mandir Alandi Maharashtra - 412105. Interested students can give their names to Mr. R. M. Gurav on 20.06.2022. Interested students should compulsorily report to NSS office at 8.15am.

Date:22.06.2022

Time: 10:00 am to 5:00 pm Venue: Shree Sant Dnyaneshwar Mandir Alandi Maharashtra - 412105.

Note:

Breakfast will be provided by college. Students must carry the ID card for the program. For more updates follow the official Facebook & Instagram Account of MCOP Nigdi





Modern College of Pharmacy Yamunanagar Sector No 2' Nigdi, Pune-411044

> Dr. P. D. Chaudhari Principal

STRIVING TOWARDS EXCELLENCE FOREVER

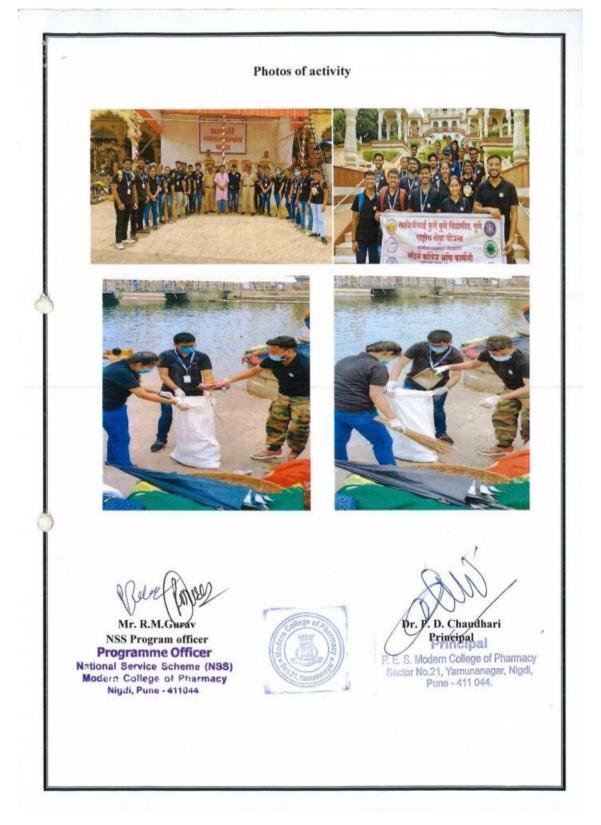




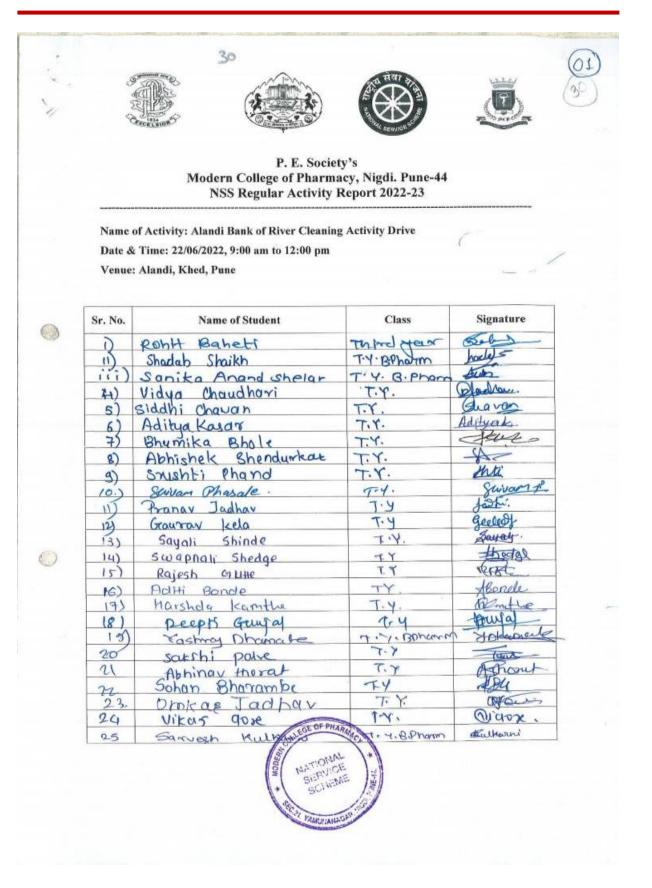
		Contraction of	Har Har Providence
			P. E. Society's ollege of Pharmacy, Nigdi, Pune-44 LAR ACTIVITY REPORT 2022-2023
	1.	Name of activity	Alandi River cleaning Drive
	2.	Date of activity	22. 06 .2022
	3.	Time	10AM -1 PM
3—	4.	Total no students participate	30
	5.	Occasion of activity	Alandi Yatra
	6.	Inauguration by	Mr. Amit Tapkir
	7.	Place of activity	Shree Sant Dnyaneshwar Mandir Alandi Maharashtra – 412105.
	8.	Objectives of activity	To clean the premises of Alandi. To make the students aware about the clean environments importance near temple premises. To help out temples sweepers
4	9.	Outcome of activity	Alandi Premises has been free from unwanted dusty materials and students got idea regarding importance of cleaning activity to keep good environment.
	10.	Activity co-	Mr. Amit Tapkir
		coordinator	Mr. R.M.Gurav.
			The second secon



Photos of Alandi River cleaning Drive dated 22/06/2022









Sr. No.	Name of Student	Class	Signature
26.	Dipak Gande	TY.B. Pharm	411
27.	Dipak Gonde Unter Jadie	T-J.B. Nom.	12
29.	Prathanesh Pangada	-T.Y.B. Pharm	£
	Ahush paver Ankita Khaire	T-Y.B. Mus T.Y.B. Phon	\$-C
29.	Ankita Khaire	T. Y. B. Phon	Aven
20	Aditya Babhalkar	TYAL	Reditors
30	Aditye Babhakkar	Tir.B pham	Manges.
		1-3-1 	17.7°
	Alandi Bank of River Cleani	ing Activity Drive	
P Nation	SS Program Officer rogramme Officer nal Service Scheme (NSS) ern College of Charmacy Nigdi, Pune - 411044	montal stor	Principal Principal dem College of Phan 21, Yamunanagar, N une - 411 044.





2. Tree plantation activity at Bhandara Hills Report:

Progressive Education Society's đ. MODERN COLLEGE OF PHARMACY Accredited by NAAC Best College Award by Savitribai Phule Pune University ncil for Technical Educe of Technical Education Approved by All India Cour Directorate of Technical Education, Mumbai (MS), Permanently Affiliated to ai Phule Pune University, Pune & Approved under Section 2 (f) & 12 (8) of UGC Act, 195 ation, No 1, Mumba Section No.21, Yamunanagar, Nigdi, Pune-411 044. (M.S.) Tel. : 020-27661315 Fax: 020-27661314 E-mail : mcopnigdi44@gmail.com Website : www.mcop.org.in Prof. Dr. P. D. Chaudhar M.Pharm., Ph.D. Principal Prof. Dr. G. R. Ekbote M.S., M.N.A.M.S. irman, Business Council Chain Date: 18/07/2022 NOTICE All the B.Pharm, and Pharm.D students of Modern College of Pharmacy, Nigdi Pune are hereby 0 informed that our college will be organizing Tree plantation activity on 22.07.2022 at Bhandara Hills Dehu Pune Maharashtra 410507. Interested students can give their names to Mr. R.M.Gurav on 19.07.2022. College bus will be departing sharp at 8.30 am for Tree plantation. Interested students can compulsorily report to NSS office at 8.15am. Date: 22.07.2022 Time: 10:00 am to 5:00 pm Venue: Bhandara Hills Dehu Pune Maharashtra 410507. Note: Breakfast will be provided by college. Students must carry the ID card for the program. For more updates follow the official Facebook & Instagram Account of MCOP Nigdi 0 D. Chaudhari Principal Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044. STRIVING TOWARDS EXCELLENCE FOREVER



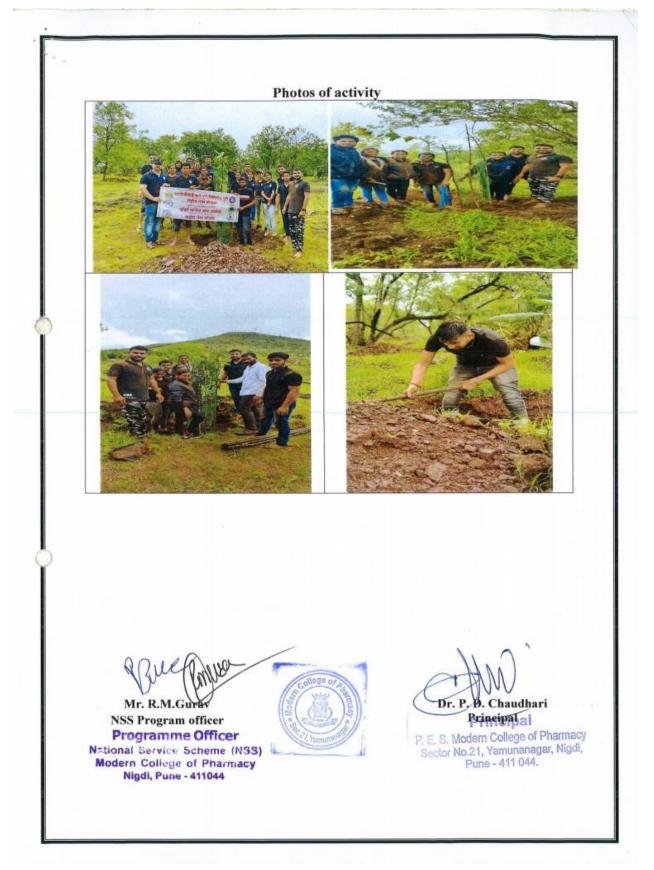


		Care a caron		
			P. E. Society's ollege of Pharmacy, Nigdi, Pune-44	
Г	1.	NSS REGU	LAR ACTIVITY REPORT 2022-2023 Tree Plantation activity on Bhandara Hills.	
_	1. N. S. K.			
-	2.	Date of activity* Time	22.07.2022 * 10AM - 5PM	
F	3. 4.	Total no students participate	35	
	5.	Occasion of activity	NSS activity	
	6.	Inauguration by	Mr. Amit Tapkir	
	7.	Place of activity	Bhanara Hills Dehe Pune Maharashtra 410507.	
	8.	Objectives of activity	To clean the Bhandara hill premises or Destruction of unwanted weeds and to row the seeds for plant growth. To make the students aware about the tree plantation on hills. To make the premises green.	
	9.	Outcome of activity	Premises of Bhandara hills is free from unwanted weeds and students got idea how to do tree plantation and importance of tree plantation for our foresteco system.	
	10.	Activity co- coordinator	Mr. Amit Tapkir. Mr. R.M.Gurav.	
			College of the second s	





Photos of Tree plantation activity at Bhandara Hills dated 22/07/2022







		35		
		P. E. Society Modern College of Pharma NSS Regular Activity R	cy, Nigdi. Pune-44	
	Nam	e of Activity: Tree Plantation Activity at Bha	ndara Hills	
	Date	& Time: 22/07/2022, 8:00 am to 12:00 pm		
	Venu	ie: Jambawade, Maval, Pune		
s	r. No.	Name of Student	Class	Signature
	1	Rohit Baheti	Third year	aby
	2	Shadab Shaikh	T.Y.B.Pharm	Speel
	3	Sanika Anond Shelan	T.Y.B. Pharm	stela
	4	Aditya Kasar	T. Y. B. Phan	, Adityeta-
	5	Stushti Phand	7. Y. B. Pharm	Aht.
	6	Vidya Chaudhani	T.Y.B.P.Dan	Claudlan:
	7	Abhishek Shendulkar		-stz
	8	Bhymika Bhole	T.Y. B. Pham	0 + 1 ·
	9	siddh: chavan	T. 4. B. Pham	Buavan
	10	Shivan. Phasale.	T-Y.Bphaven	SWVan.P.
	11	Schan Bharrambe	Try. BPhoom	all 1
	12	Pranav Jadhav	T.Y.B. Pharm	Jost.
	13	Granvar Icela	T.y.B. Pharm	geolf.
	14	Rajesh Chutte	T.Y.B. Pharm	THE.
	15	Sayan Shinde	T.Y. B Pharm	sayery-
	16	Swaphali Shedge	T.Y.B Pharm	theore
	17	Aditi Bonde	TY.B Phaim.	Alende.
	18	Harshda Kamthe	T.y. Q. pham	Wantle
	19	Sarvesh KullAgrn'	T.Y.B. Phone	gaselleerni.
	20	omkae Jadhav	T.Y. B. Phon	allow
	21	gove Nikas	1-1-13. pham	
	22	rashray phamate	T. Y.B. Phonm	ADhumans
	23	Ajit Saini	T.Y. B. Pharn	25
	24	Onley Jadia	TY B. mm	Juch.
	25	Winayakashish Kulkarui	T. 4. Bphanm	Course of





	Sr. No.	Name of Student	Class	Signature
	26	Prathamezh Ponzeide	T-Y.B. Phoma	&_
	27		T.Y	tos
	28	Abbinar thorat	Tir	Samo
	29	Akash Pawar	T-Y	Et
	30	Ankita Khaire	TY	Qui
	31	Aditya Babhalkar	T.Y. Bpham	Reditors
	32	Neha Nesse	T.Y.B. Phaim	We use
	33	Vaishnaui More	T.Y.	Small_
3	34	Pron a pati	7.4	Colar 1
	35	Pratham Pawar	T.Y.B. Phon	Ant.
	- 36			<u> </u>
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	42			
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	44			
	45			
	46			
	47			
	49		-	
	50			
	Pi Nation Mode	Tree Plantation Activity	turning and the second	Principal ipal Modern College of Pharm No.21 Yourmanagar, Nig Pune - 411 044.





3. Tree plantation on Durga tekadi on occasion of Pharmacist day Report:

6 **Progressive Education Society's** MODERN COLLEGE OF PHARMACY Accredited by NAAC Best College Award by Savitribai Phule Pune University Approved by All India Council for Technical Education, New Dolhi, Pharmacy Council of India, New D Directorate of Technical Education, Mumbai (MS), Permanently Affiliated to Savitribai Phule Pune University, Pune & Approved under Section 2 (f) & 12 (B) of UGC Act, 1956 Deihi, Pharmacy Council of India, New Dolhi, Section No.21, Yamunanagar, Nigdi, Pune-411 044, (M.S.) Tel. : 020-27661315 Fax: 020-27661314 E-mail 1 mcopnigdi44@gmail.com Website 1 www.mcop.org.in Prof. Dr. P. D. Choudhari Prof. Dr. G. R. Ekbote M.Pharm., Ph.D. Principal M.S., M.N.A.M.S. Chairman, Business Council Date: 20/09/2022 NOTICE All the B.Pharm, and Pharm.D students of Modern College of Pharmacy, Nigdi Pune are hereby informed that our college will be organizing Tree plantation activity on the occasion of Pharmacist Day at Bhakati-Shakati, Durga Tekadi Nigdi Pune, Maharashtra 411044. Interested students can give their names to Mr. R.M.Gurav on 23.07.2022. Interested students can compulsorily report to NSS office at 9.15am. Date: 25.09.2022 Time: 10:00 am to 2:00 pm Venue: Bhakati Shakati-Durga Tekadi Nigdi Pune, Maharashtra 411044 Note: Breakfast will be provided by college. Students must carry the ID card for the program. For more updates follow the official Facebook & Instagram Account of MCOP Nigdi Dr. P. D. Chaudhari Principal Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044. STRIVING TOWARDS EXCELLENCE FOREVER

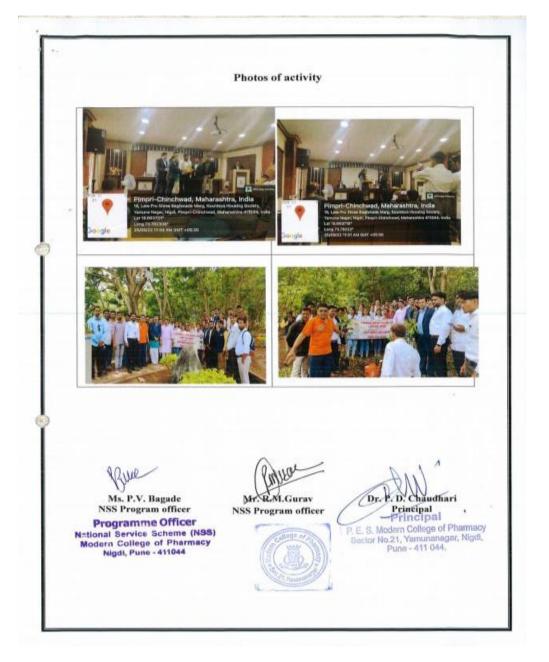




		A ROPERTOR	O6
			P. E. Society's llege of Pharmacy, Nigdi, Pune-44 LAR ACTIVITY REPORT 2022-2023
	1.	Name of activity	Tree Plantation on the occasion of Pharmacist Day
	2.	Date of activity	25.09.2022
	3.	Time	10 AM - 1PM
	4.	Total no students participate	50
	5.	Occasion of activity	Pharmacist Day
	6.	Inauguration by	Dr. Vitthal Chopade
	7.	Place of activity	Bhakati Shakati–Durga Tekadi Nigdi Pune, Maharashtra 411044.
)	8.	Objectives of activity	To clean the durga hills premises or Destruction of unwanted weeds and to row the seeds for plant growth. To make the students aware about the tree plantation on hills. To make the premises green.
	9.	Outcome of activity	Premises of durga hills is free from unwanted weeds and students got idea how to do tree plantation and importance of tree plantation for our foresteco system.
	10.	Activity co- coordinator	Mr. R.M.Gurav. Ms. P.V.Bagade.
			College Contraction

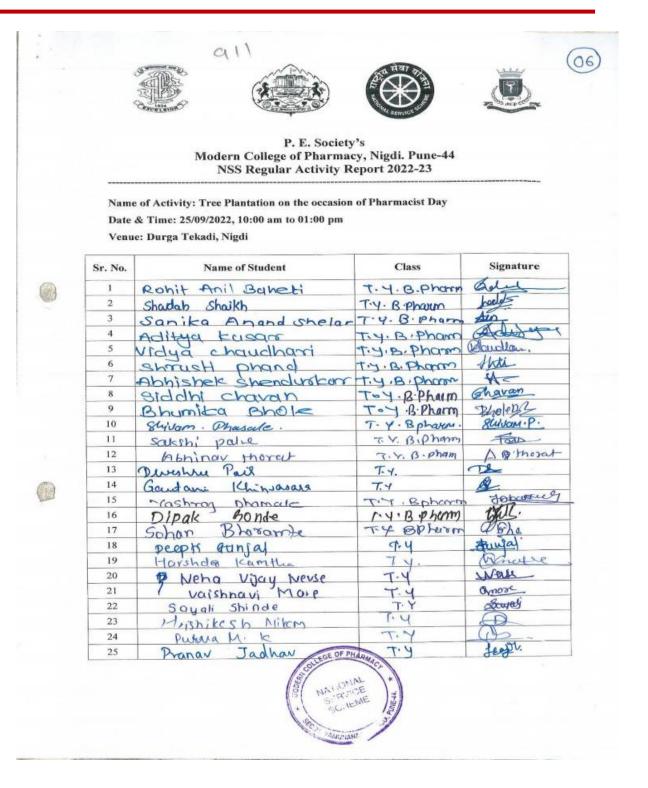






Photos of Tree plantation on Durga tekadi on occasion of Pharmacist day dated 25/09/2022









5	Sr. No.	Name of Student	Class	Signature
	26	Graurav kela	7.4	Googh.
	27	Utkarsha Patu	Final Year	OPatu
	28	swapnali shedge	TY	-Bedag
	29	Adity bonde	Y7	ponder
	30	Omkar Jadhav	T.Y	altan
	31	Vishal Gergovano	7-7.	Garanson
	32	Proton nousar	TY	2th
	33	ORIKAN Jardhan	T. N.R	Tion
	34	Pratham Pawar	TYB	Care .
	35	propa pati	74.B	Preut
_	36	Tejashree Rane	Hinal Year	Ran
-	37	gone Mikas	7-Y-B	Quarose
_	38	Ahush penus	T.Y.B	3 t
-	39	Ankita Khaire	TYB	Youth-
-	40	Rajah Cutte	T.4.11.	rente
-	41	Vichal Sarade	-t. y. B.	AL RES
-	42	Hrichikceh wikam	THIB	Bulbarni
-	43	Sarvesh Kulkanni	T.M.B.Pharm	(B)
-	45	Punaturde Ajit Saini	1-V-	A
	46	Jhayakamish kulhani	T.Y.B	Bull
8	47		T.Y. Bphan	A ditree
	48	Aditya Bubhalker Pragnomesh Panzade	T.Y.B. Phone	l
-	49	Gauri Karande	T.Y.B. Pharm	Curte
	50	Pranoya Nawale	T.Y. Bpharm	Provages
	Pi Nation Mode	Tree Plantation on the occas M. e.o.r.w. M. M. Gulfu NSS Program Officer rogramme Officer nal Service Scheme (NSS) rm College of Pharmacy Nigdl, Pune - 411044		Principal din cipal otem College of Pharma o.21, Yammanagar, Nig Pune - 411 044.

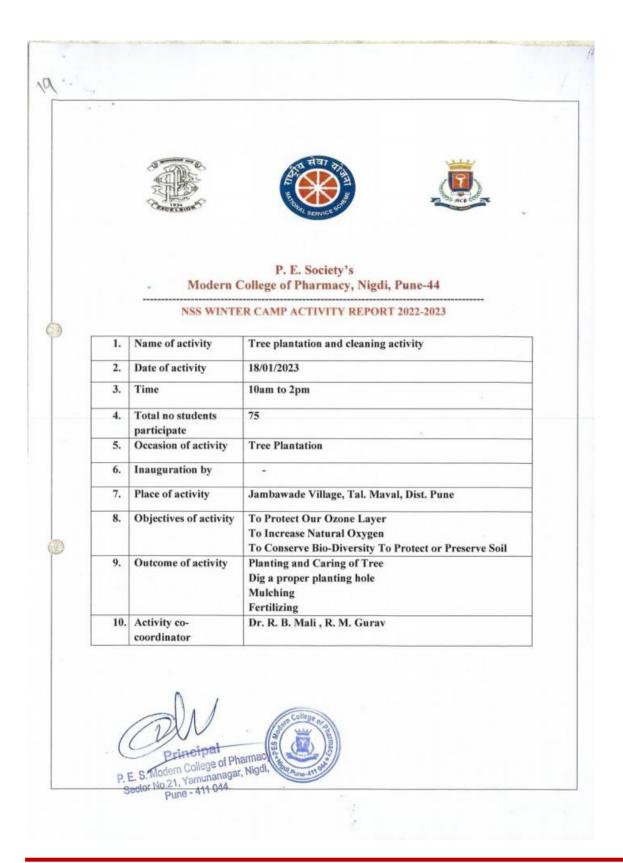


4. Tree plantation and cleaning activity at Jambawade village

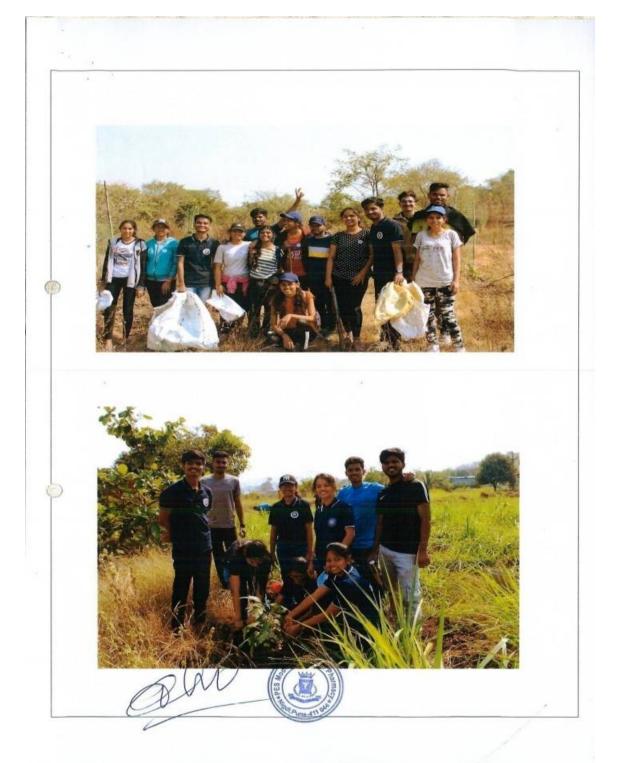
Report:

0.000	Best College Award by Savitr Approved by All India Council for Technical Education,	New Delhi, Pharmacy Council of India, New Delhi,
TING ST	Directorate of Technical Education, Mun Savitribai Phule Pune University, Pune & Approvi	ad under Soction 2 (f) & 12 (B) of UGC Act, 1956
1000000	Section No.21, Yamunanagar, Nigdi, Pune-411 04 E-mail 1 mcopnigdi44@gmail.com	14. (M.S.) Tel. : 020-27661315 Fax: 020-27661314
_	Prof. Dr. P. D. Chaudhari M.Pharm., Ph.D. Principal	Prof. Dr. G. R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council
		Date: 10/01/2023
	NOT	ICE
	All the selected voluntcers for Special NSS camp	for the academic year 2022-23 hereby informed
	All the selected volunteers for Special NSS camp that camp will be conducting from 16 th January t	o 22 th January 2023 at A/P Jambhawade, Tal.
	Maval, Dist. Pune. All the selected students co	ampulsorily submit parent's concern form on or
	before 13.01.2023 to NSS office. Bus for the cam	p will be departing from college ground sharp at
	8.30am. All the students note that for whole we	ek of camp Breakfast, lunch and dinner will be
	8.30am. All the students hote that for whole we	I carpet and blanket for you. Detailed Scheduled
	provided by conege you have to only only and	ntation the meeting will be held at class room no:
	2 on 13.01.2023 at 11am. Attendance is compulse	
	2 on 13.01.2023 at 11am. Auchdance is computer	
	Note:	
	Parent's concern form is mandatory. Students must wear College uniform and apron.	
	Students must carry the ID card for the camp. Don't carry expensive jewellery and costly things	e if anything is loosed then college will not be
	responsible	
	For more updates follow the official Facebook	& Instagram Account of MCOP Nigdi
	* 1	
	College of a	1. · · · · ·
	Philoso AVI 2	- tal N
		TOUV
		Dr. P.D. Chaudhari Principal
		Principal
		P. E. S. Modern College of Phar Sector No.21, Yamunanagar, N
		Pune 44 044
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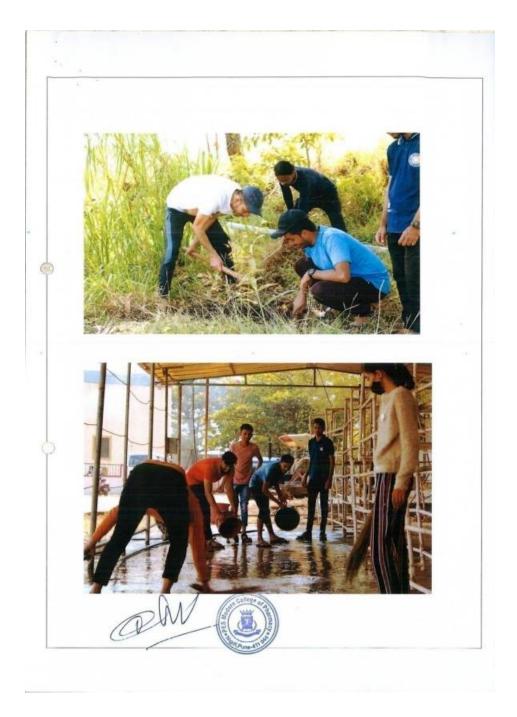




Photos of Tree plantation and cleanigng activity at Jambawade village dated 18/01/2023

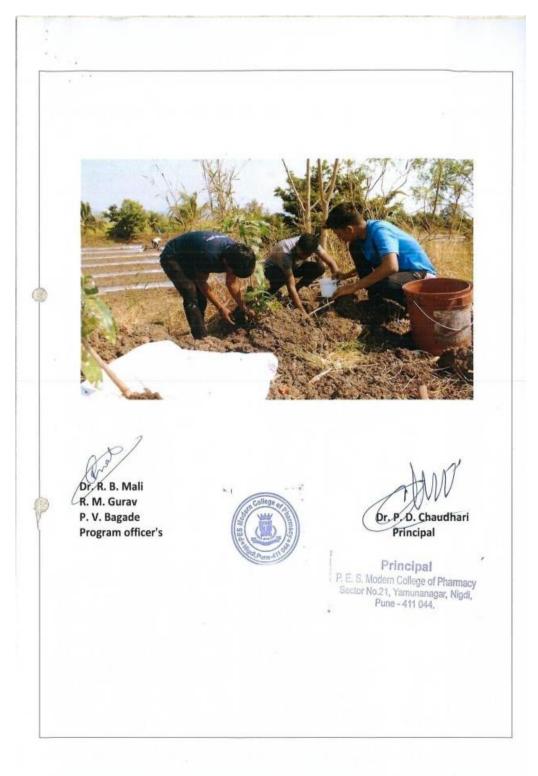


Photos of Tree plantation and cleanigng activity at Jambawade village dated 18/01/2023





Photos of Tree plantation and cleanigng activity at Jambawade village dated 18/01/2023







4.4		Progressive Education Society's MODERN COLLEGE OF PHARMACY Yamunanagar, Nigdi, Pune -44			
		16 th January 2 Place: A/P Jambawad	heme 2022-23 (Special Ca 023 to 22 nd January 2023 le village, Tal. Mawal, Dis ednesday, 18/01/2023		
	Sr. No.	Name of Student	Morning Attendance	Night Attendance	
	1	Niranjan G. Rajput	Najput	regiput	
	2	Vaishnavi D. More	Qmore.	amaxe	
	3	Aditya L. Babhalkar	Rdilgos	Adily	
	4	Deepti M. Gunjal	Ranjat	trungat	
	5	Prathamesh Panzade	E.	to	
	6	Akshaya A. Meher	BANK	anna	
	7	Prerana P. Kulkarni	(P) Lukarri	@ Jullard	
	8	Pratham U. Pawar	they	the	
	9	Yashraj R Dhamale	yohamale_	> Sphancele	
	10	Aditi S Bonde	Abandi	ABCONCE	
	11	Neha K. Pandit	Handet	Mardet	
	12	Shailesh H. Kendre	all-	ALE	
	12	Mansi N Zanwar	Sanuga	Agnogr	
	14	Jayesh R Jaiswal	Jozz	40-1-5	
	15	Sakshi P Palve	Tatve.	targe	
	16	Vikas Gore	Digore	, Diaore -	
	17	Shreyan Y Chavan	Sugelin	Augebra	
	18	Vidya D Chaudhari	Cladler .	Glaudlas.	
	19	Satsang A. Kumthekar	let	Sat	
	20	Tejashree S Rane	BRANE	GRONE:	
	20	Sayyed Ajmat Sameer	abeanyed	areasued	
	21	Shivhar B Shete	These.	theke	
	-	Nitesh R Misal	PED	(Dpp)	
	23	Swapnali L Shedge	Hedge	hedge	
		Jadhao Ankit Dilip	Padhao'	Badlias.	
	25		otto	1941R	
	26	Omkar H Pande	Nott	Portit	
	27	Rajesh M Gutte	trat	hant	
	28	Shruti H Dere	1 . 4.	dinte	
	29	Samarth D Shinde	alinian_	- The aven	
A	7 30	Sidum S Chavan	5 Quar	200	
11 1	101	Devesh S Chaudhari	abit	anti	





drive b		MODERN COLL	ducation Society's EGE OF PHARM Ir, Nigdi, Pune -44	
	Sr. No.	Name of Student	Morning Attendance	Night Attendance
	33	Purva M. Korde	Bat	also -
	34	Sarvesh D Kulkarni	Bulkerow	Herthans
	35	Rani D Dagade	Rad.	Rod .
	36	Swapnil V. Patil	Bant	Gall
	37	Tanvi S Madane	(Towary-	Threay
	38	Shivam S Phasale	glasale	Phasala
	39	Sayali R Shinde	Bargali	Bayat
	40	Madhavi Vikharankar	Coshit	(A)
	41	Gaurav P Kela	gooloog.	garloog.
	42	Bhumika K Bhole	Bhdegle.	2hole
	43	Prema M Patil	Greatit	Preasil
	44	Shruti R Bhosale	Shough	Shough
	45	Omkar N Jadhav	0502	ada
	46	Soham Bharmabe	able	ABUR.
	47	Gaurav J Kharabi	BA	pha
	48	Gauri P Karande	ant	ant
	49	Hrishikesh A Nikam	Ol.	(B)
	50	Vinayakashish Kulkarni	Bashish	asusting
	51	Harsh G Wadekar	there	House
	52	Vasundhara Deosarkar	V.N. DeosarKar	V. N. Deosarkay
	53	Sonawane Srusti Nitin	pat-	The second
	54	Kirti S Savali	Giavali	plavali.
	55	Moharkar shuh	Shruh	Chruti-
	56	Tanmay R Satkar	FAnmay.	Synmay.
	57	Priya K. Shete	(P)=	(p)
	58	Mayuri M More	rioas	Moze
	59	Pranav P Jadhav	fagge.	Jean .
	60	Rohit A Baheti	Colus	Jan
	61	Vishal S Gangawane	Gargaware	Crangemore
	62	Siddhi S Dhawade	fiddly.	Brally
	63	Niranjan Sonawane	Abten	Alle
	64	Yuvraj B Jadhav	YUXI 0	YUVLO
	65	Vishal S Sarode	B_t	Pte
	66	Panchabhai Pushkar Kishor	Alus .	Ale -
	67	Raviraj Shinde Nation of og	Shinke	Shudes
1	68	Neba V Nevse	New	Mere

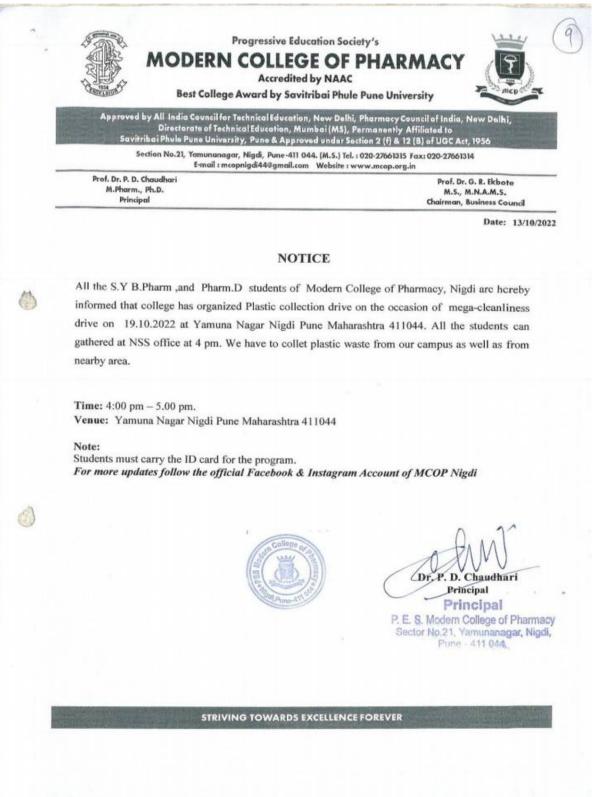




	MODERN COLLE Yamunanaga	r, Nigdi, Pune -44	ACT
Sr. No.	Name of Student	Morning Attendance	Night Attendance
70	Aditya Kasar	Ndity ak	Addy als
71	Utkarsha C Patil	CIPatil	Weater
72	Sakshi D Kute	Kitterte	KHOW
73	Sarvesh Yeole	- Sucola	Freedla
74	Akash B Pawar	Kanishma	kanishma
75	Main Kanshma	Maintenary.	Fundades .
Met N8	S Program Officer	Collage of crumacy and a collage of crumacy and collage of crumacy and collage of crumacy and collage of colla	Princip Princip E.S. Modern Colleg Sector M6.21, Yamuna Pune - 411 0



5. Plastic collection drive at Yamuna Nagar report:



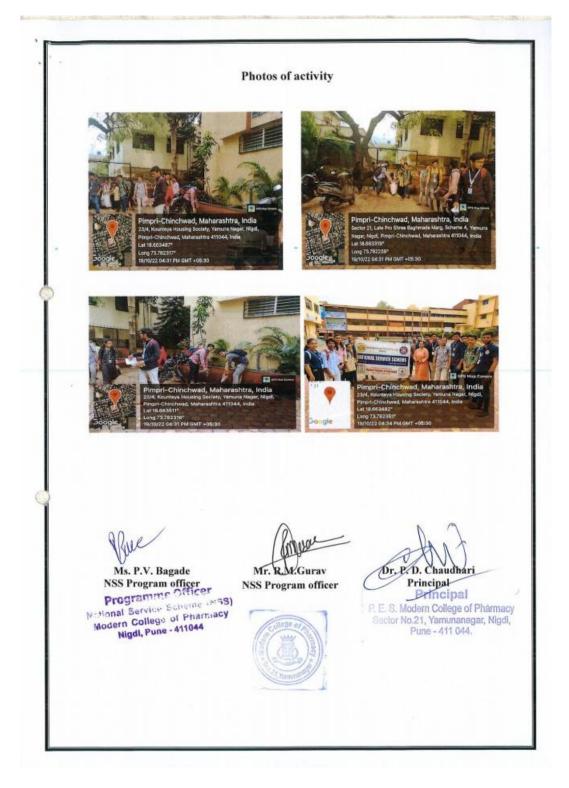




		NSS REGU	LAR ACTIVITY REPORT 2022-2023
	1.	Name of activity	
			PLASTC COLLECTION- DRIVE
	2.*	Date of activity	19.10.2022
	3.	Time Total no students	4PM-5PM
)	4.	participate	25
	5.	Occasion of activity	MEGA-CLEANLINESS DRIVE –PLASTC COLLECTION
	6.	Inauguration by	Ms. Priyanka Bagade
	7.	Place of activity	Yamuna Nagar Nigdi Pune Maharashtra 411044
	8.	Objectives of activity	To clean the premises or Destruction of plastic from premises. To make the students aware about use of cloth bags instead of plastic
	9.	Outcome of activity	Premises is free from plastic and students got idea regarding hazards effect of plastic on environment.
	10.	Activity co- coordinator	Mr. R.M.Gurav. Ms. P.V.Bagade.
			College or or market with the second se



Photos of Plastic collection drive at Yamuna Nagar dated 19/10/2022



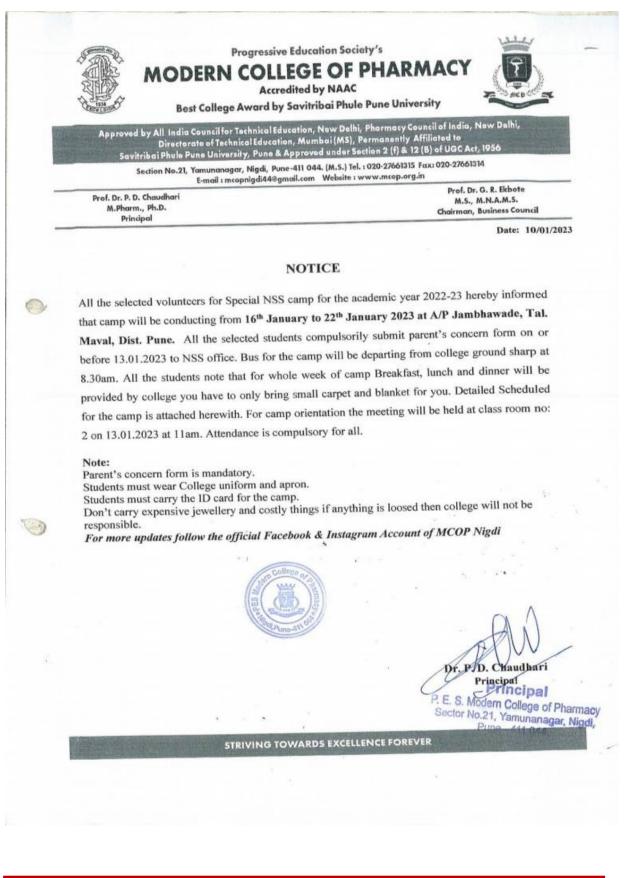








6. Public awarness rally and swachha Bharat Abhiyaan Report:

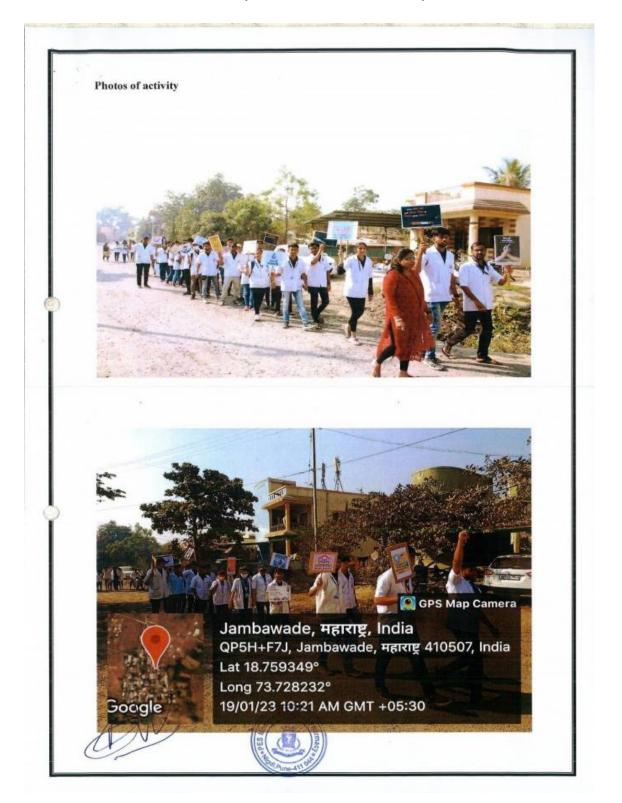




		A CONTRACTOR	P. E. Society's
		***********************	CAMP ACTIVITY REPORT 2022-2023
	1.	Name of activity	Public awareness rally and Swachh Bharat Abhiyan
	2.	Date of activity	19.01.2023
	3.	Time	9.00 am to 1.00 pm
)	4.	Total no students participate	75
	5.	Occasion of activity	NSS Residential Camp
	6.	Inauguration by	Mrs. Rupali Jinturkar and Mrs. Suvarna Vadje
	7.	Place of activity	MahadevMandir, Tal. Jambhavade
)	8.	Objectives of activity	To aware people about personal hygiene. Awareness regarding cleanliness of the surrounding and its importance. Some measures to utilize water correctly and avoiding its wastage. To make girls and their parents aware about the education for girls. Encouraging girls and women to speak for their rights. To make people aware of the importance of trees and the self hygiene and of the environment.
	9.	Outcome of activity	Around 80 villagers were made aware regarding all the all the points mentioned above. A rally along with different slogans was held to make people aware. In Swachh Bharat Abhiyan, the complete residential area of the villagers was cleaned. Many students were engaged in tree plantation and cleanliness drive.
	10.	Activity co- coordinator	R & Ginar, Dr. R. B. Mali, P.V.Bagade



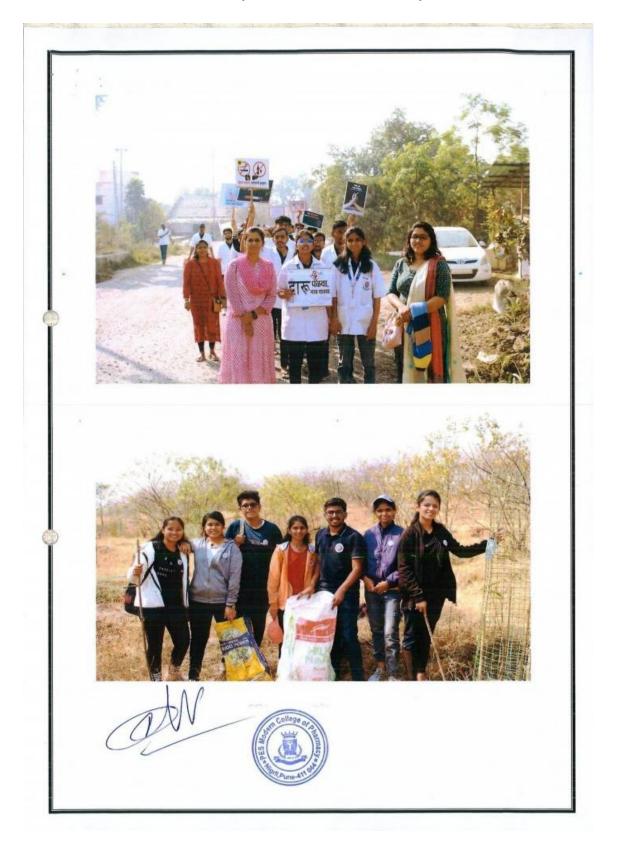
Photos of Public awarness rally and swachha Bharat Abhiyaan dated 19/01/2023





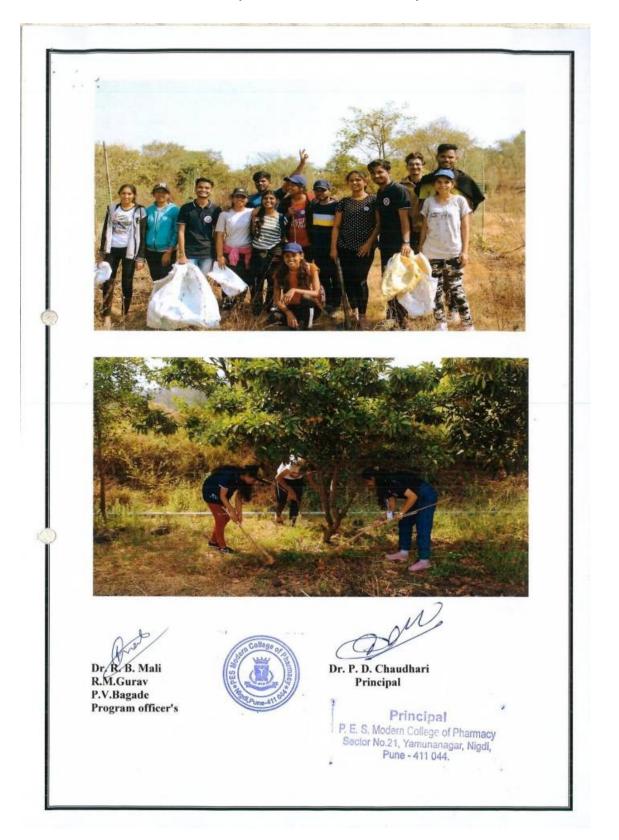


Photos of Public awarness rally and swachha Bharat Abhiyaan dated 19/01/2023





Photos of Public awarness rally and swachha Bharat Abhiyaan dated 19/01/2023





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Progressive Education Society's MODERN COLLEGE OF PHARMACY Yamunanagar, Nigdi, Pune -44



National Service Scheme 2022-23 (Special Camp) 16th January 2023 to 22nd January 2023 Place: A/P Jambawade village, Tal. Mawal, Dist Pune

Day 04: Thursday, 19/01/2023

Sr. No.	Name of Student	Morning Attendance	Night Attendance
1	Niranjan G. Rajput	Negiput	Pajout
2	Vaishnavi D. More	Omore.	Omore .
3	Aditya L. Babhalkar	Rdilf	Aditos
4	Deepti M. Gunjal	ganjat-	punjal
5	Prathamesh Panzade	S	de
6	Akshaya A. Meher	Stansed	32069
7	Prerana P. Kulkarni	Phylain	Calkand
8	Pratham U. Pawar	Aget	184
9	Yashraj R Dhamale	yohamale	Appamale
10	Aditi S Bonde	ABernee	Apande
11	Neha K. Pandit	Nandit	Nandit
12	Shailesh H. Kendre	aprile	and
13	Mansi N Zanwar	Approprie	Anoar
14	Jayesh R Jaiswal	70072	Joyest
15	Sakshi P Palve	-Tay-	Taive
16	Vikas Gore	Oigore	. Gigore
17	Shreyan Y Chavan	Suffer	Jurgen
18	Vidya D Chaudhari	Cladlan.	Blaidan.
19	Satsang A. Kumthekar	Sert	Set
20	Tejashree S Rane	BROAM	BAR
21	Sayyed Ajmat Sameer	Decayted	assayled
22	Shivhar B Shete	there	Abek.
23	Nitesh R Misal	(CE3	(DPD)
24	Swapnali L Shedge	hedge	bedge
25	Jadhao Ankit Dilip	(Dadhao.	Jadha
26	Omkar H Pande	offer-	OKC-
27	Rajesh M Gutte	Cox2.	esty.
28	Shruti H Dere	truch	treat
0 29	Samarth D Shinde	Samuel	forth
BAN	Siddhi S Chavan	Claver	Clarall
X/31V	Devesh S Chaudhari	ESCHERT-	El and
32	Dipak P Gonde	Balls	these s

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index



	Progressive Education Society's MODERN COLLEGE OF PHARMACY Yamunanagar, Nigdi, Pune -44			
Sr. No.	Name of Student	Morning Attendance	Night Attendance	
33	Purva M. Korde	Que .	Also.	
34	Sarvesh D Kulkarni	Bulkerry	Europan"	
35	Rani D Dagade	Red	Ray .	
36	Swapnil V. Patil	Gard	Both	
37	Tanvi S Madane	(Topady-	(Imady	
38	Shivam S Phasale	Sphasale	Phasala	
39	Sayali R Shinde	Bayati	Layali	
40	Madhavi Vikharankar	De	SAR	
41	Gaurav P Kela	gall of	Geoloof	
42	Bhumika K Bhole	Bhole 22	Pholeples.	
43	Prema M Patil	GPast.	Preasil	
44	Shruti R Bhosale	Shrup	Shough	
45	Omkar N Jadhav	Officer	afaers	
46	Soham Bharmabe	able	able.	
47	Gaurav J Kharabi	the	Sha	
48	Gauri P Karande	Gutte	Gyrb	
49	Hrishikesh A Nikam	L.	LA OI	
50	Vinayakashish Kulkarni	auserioly	asustrish	
51	Harsh G Wadekar	Harst	thread	
52	Vasundhara Deosarkar	V.N. Deoscurkar	V. N. DeasarKa	
53	Sonawane Srusti Nitin	The second	The second	
54	Kirti S Savali	chavale	gravalt	
55	Moharikan Shruti	Shrub	Shruh	
56	Tanmay R Satkar	Enmay.	Sannay.	
57	Priya K. Shete	Qi	(P)-	
58	Mayuri M More	Moss	MOZS	
59	Pranav P Jadhav	Jemps-	fenger.	
60	Rohit A Baheti	Dolug	alus	
61	Vishal S Gangawane	Gorgawane	Gangawan	
62	Siddhi S Dhawade	Ridder	Riddur	
63	Niranjan Sonawane	- Alter	- Om	
64	Yuvraj B Jadhav	yuri -	-Yeuri -	
65	Vishal S Sarode	P-t-	P-1-	
1 1/96	Panchabhai Pushkar Kishor	- Clase	Also .	
1/1/67	Raviraj Shinde	Stick	Shore	
N 68	Neha V Nevse	Nerthe	NEUS	





- 2 - 4		MODERN COLLE	ducation Society's GE OF PHARN r, Nigdi, Pune -44	
	Sr. No.	Name of Student	Morning Attendance	Night Attendance
	70	Aditya Kasar	Ndotwak	Addy als
	71	Utkarsha C Patil	WPatil	Walit
	72	Sakshi D Kute	Killente	XHAU
	73	Sarvesh Yeole	(Syleala)	FRIEDIE
	74	Akash B Pawar	GE	870
	75	Main Kan karishma	Karishma.	kanshmg.
		Dina		
)	Or NSS	S Program Officer	College or other mach	Principal Principal De Modern College of Phar Sector Mo.21, Yamunanagar, N Pune - 411 044.





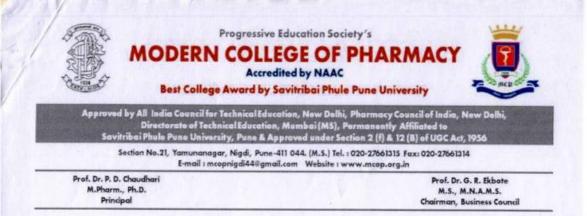
2021-22



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Date: 20/08/2021

NOTICE

All the students & staff members are hereby informed that NSS Unit of the college has organized following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: National Level Webinar on Catch the Rain Date & Time: 23/08/2021, 11.00 am to 1.00 am Venue: Online Platform. Zoom Meeting

Note: Registration link is shared on official WhatsApp group. Registration is mandatory.

Dr. A. S. Tapkir NSS Program Officer

Programme Officer National Service Scheme (NSS) Modern College of Pharmacy Nigal, Pune - 411044



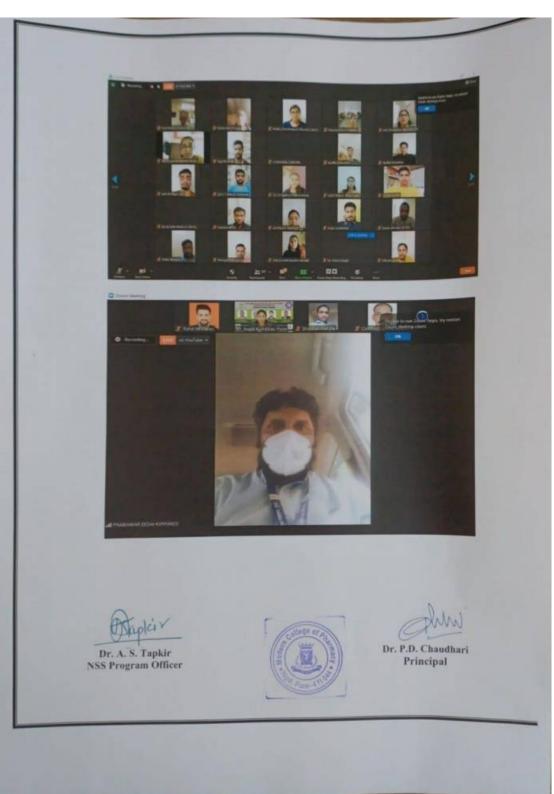
Dr. P. D. Chaudhari Principal Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.





NSS REGULAR ACTIVITY REPORT 2021-22				
1.	Name of activity	National Level Webinar on Catch the Rain		
2.	Date of activity	23.08.2021		
3.	Time	11.00 am to 1.00 am		
4.	Total no students " participated	1344		
5.	Occasion of activity	Azadi ka Amrit Mohotstav		
6.	Inauguration by	Dr. P. D. Chaudhari		
7.	Place of activity	PES Modern College of Pharmacy Nigdi, Pune (Online		
8.	Objectives of activity	To spread awareness and knowledge regarding water us and methods of rain water storage. To help in decrease in global warming To improve water and air quality To increase green spaces in cities. To conserve water and biodiversity.		
9.	Outcome of activity	Participants got the importance of water and its use. Students got exposed to nature and understood importance of conservation of nature and biodiversity. Student get aware about proper scientific techniques of water and raining.		
10.	Activity co-coordinator	Dr. A. S. Tapkir Prof. R. M. Gurav Prof. P. A. Pawar		
		Prof. P. A. Pawar		

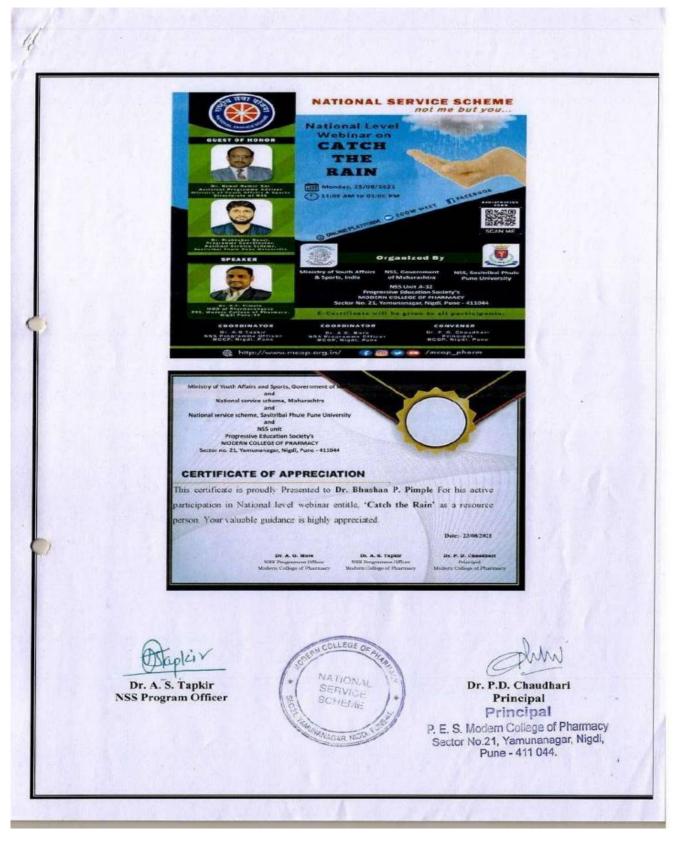




Photos of National level Webinar: Catch The Rain dated 23/08/2021









8. Mazi vasundhara Abhiyaan Report:



NOTICE

All the students and teaching & non-teaching staff members are hereby informed that NSS Unit of the college has organized following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: Mazi Vasundhara Abhiyaan Date & Time: 09/10/2021, 10 to 5 pm Venue: Student own house, Road sides

Note: Kindly take one geo tag photo & submit it on google form & WhatsApp.

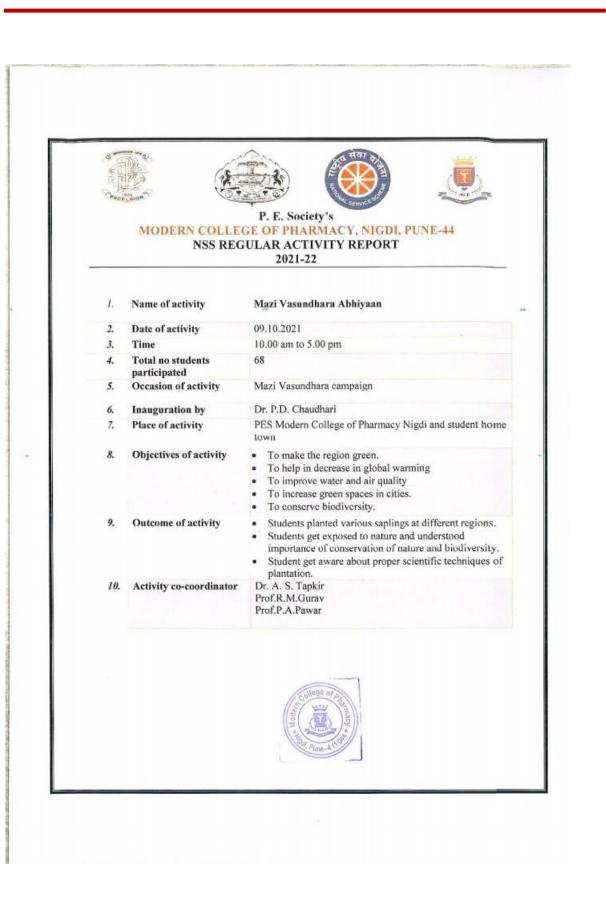


Dr. A. S. Tapkir NSS Program Officer Programme Officer National Service 'Scheme (N38) Modern College of Pharmecy Nigdl, Pune - 411044



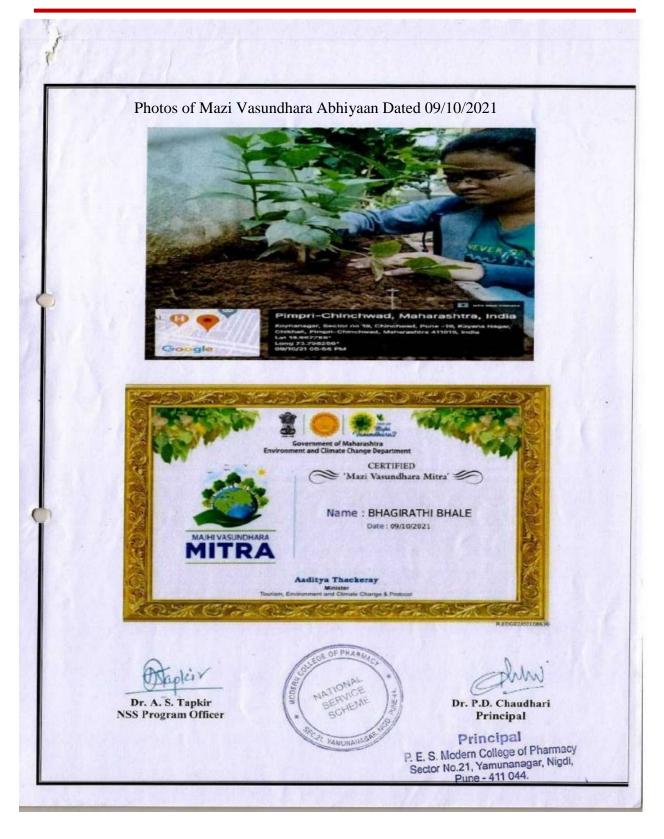
Dr. P. D. Chaudhari Pririetipal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.





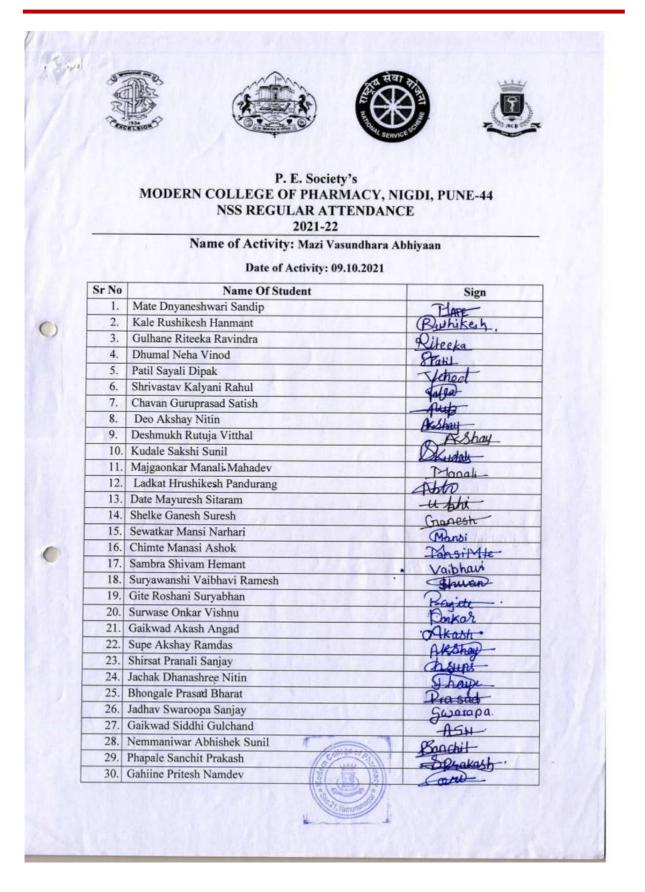
















31.	Rane Tejashree Satish	Blans
32.	Gavali Kartik Rajendra	Karthik
33.	Badhe Prathamesh Babanrao	Ras-
34.	Shete Shivhar Baswraj	Shipp
35.	Pandit Neha Kishor	· Nandet
36.	Dyagatwar Milind Gangadhar	Milind
37.	Agalave Shravani Pandurang	Shravari
38.	Shinde Utkarsha Namdevrao	1010cartog
39.	Dighe Shivani Appasaheb	Stighe.
40.	Mane Rutuja Sanjay	Mane.
41.	Pekamwar Mahesh Mukund	. Rahesh-
42.	Chavan Pooja Ramrao	Rehavan
43.	Chavhan Ankush Laxman	Antrush
44.	Kalyan Akshay Devidas	Akalyan.
45.	Ahirrao Shraddha Anil	Shraa
46.	Banakar Truptee Hiralal	Truptee
47.	Bajare Shruti Sanjay	Spiare
48.	Andhale Rahul Balasaheb	Popul
49.	Chavan Dnyaneshwari Dasu	HQ.
50.	Dhole Onkar Nishikant	Oakhate-
	Rane Tejashree Satish	- Pane
52.	Gavali Kartik Rajendra	Karthik
53.	Badhe Prathamesh Babanrao	apenus
54.	Shete Shivhar Baswraj	Shraw
55.	Pandit Neha Kishor	Handit
	Dyagatwar Milind Gangadhar	Milind
57.	Agalave Shravani Pandurang	Sherawanj_
1202.1	Shinde Utkarsha Namdevrao	Shinds
	Dighe Shivani Appasaheb	B Dight-
	Mane Rutuja Sanjay	· Mare ·
10000	Pekamwar Mahesh Mukund	Manesh-
	Chavan Pooja Ramrao	Repayan-
	Chavhan Ankush Laxman	Ankush
	Kalyan Akshay Devidas	Acalyan.
	Ahirrao Shraddha Anil	Shraa
- Contraction of the local division of the l	Banakar Truptee Hiralal	Truptee
	Bajare Shruti Sanjay	SBajare-
68.	Anghale Rahul Balasaheb	Pahily
gnatu SS Pro	ogramme Officer	- Common -



9. Gram Swachhta Abhiyaan Report.

Progressive Educatio MODERN COLLEGE Accredited by N Best College Award by Savitriba	OF PHARMACY	
ved by All India Council for Technical Education, Nev Directorate of Technical Education, Mumbai avitribai Phule Pune University, Pune & Approved un Section No.21, Yamunanagar, Nigdi, Pune-411 044. (M	(MS), Permanently Affiliated to Ider Section 2 (f) & 12 (B) of UGC Act	, 1956
Directorate of Technical Education, Mumbai	(MS), Permanently Affiliated to ider Section 2 (f) & 12 (B) of UGC Act .5.) Tel. : 020-27661315 Fax: 020-2766131	, 1956

NOTICE

All the students are hereby informed that NSS Unit of the college has organised following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: NSS Special Camp Date & Time: 22 Feb to 28 Feb 2022 Venue: A/p Jambavade Tal. Maval, Dist.

Note: All NSS volunteers are informed that the selection process will be conducted on 07th Feb 2022.

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Dr. A. S. Tapkir NSS Program Officer Programme Officer National Service Scheme (N36) Modern College of Pharmacy

Nigai, Pune - 411044



Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index







P. E. Şociety's Modern College of Pharmacy, Nigdi. Pune-44





Date: 11/02/2022

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS³ for this year is arranged at Jambhawade village Tal. Mawal, Dist Pune, from 22nd February 2022 to 28th February 2022. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health-related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display and circulate soon.

Thanking you.

0

Dr. A. S. Tapkir Dr. Mrs. A. G. More Prof. Rohit M. Gurav Prof. Prashant A. Pawar (Activity Coordinators)

Chaudhari

E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



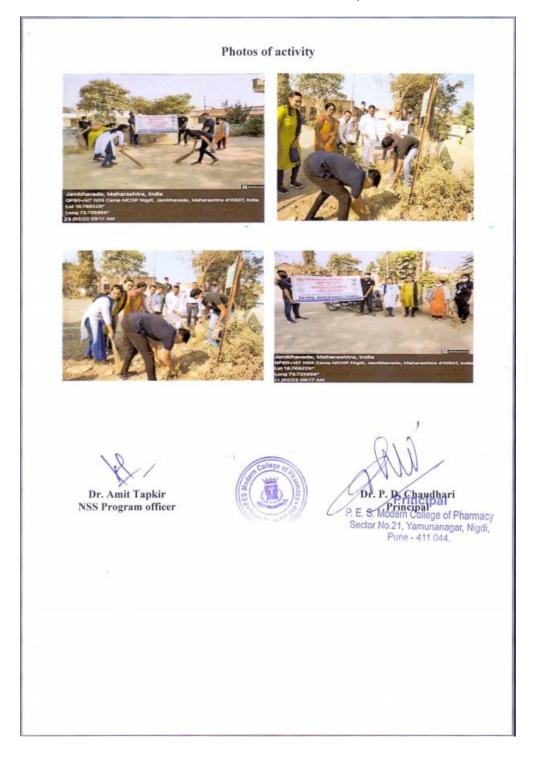


	CREETEION	Quil SERVICE SCI
	Modern Co	P. E. Society's ollege of Pharmacy, Nigdi, Pune-44
	NSS CA	MP ACTIVITY REPORT 2021-2022
1.	Name of activity	Gram swachata Abhiyan
2.	Date of activity	25/02/2022
3.	Time	7.30 am to 12.00pm
4.	Total no students participate	50
5.	Occasion of activity	NSS camp
6.	Inauguration by	Dr. Amit Tapkir
7.	Place of activity	Jambhawade, Tal. Maval, Dist. Pune 410507.
8.	Objectives of activity	To clean the premises of At post Jambhawade, Tal. Maval, Dist. Pune 410507. To make the students aware about the cleaning.
9.	Outcome of activity	Jambhawade Premiseshas been free from unwanted dusty materials and students got idea regarding importance of cleaning activity to keep good environment.
10.	Activity co- coordinator	Dr. Amit Tapkir
		College or other and the second secon





Photos of Gram Swachhta Abhiyaan dated 25/02/2022















P. E. Society's Modern College of Pharmacy, Nigdi, Pune-411044 NATIONAL SERVICE SCHEME

Special Winter Camp

Place: A/P Jambawde, Tal: Maval, Dist: Pune Date: 22/02/2022 to 28/02/2022 Attendance Sheet

Date:22/02/2022

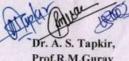
Sr No.	Name of the Volunteers	Morning	Evening
1	DHOLE ONKAR NISHIKANT	apole	shuke
2	ROKADE MANISH SUBHASH	Rozade	Mercade.
3	SURWASE ONKAR VISHNU	Conc	come
4	HAGE VAIBHAV GANESH	GHE	Noves
5	TARU DEEPAK KHANDU	Caeu.	Easers.
6	MATE DNYANESHWARI SANDIP	That	tute
7	HARNE SHIVANI SAHADEO	-tiham'	- Alivani.
8	SHELKE GANESH SURESH	Coshemue	Cashellike
9	SAMBRE SHIVAM HEMANT	hanter	Justice
10	BARWAD NARESH RAMAKANT	art	At.
11	SUPE AKSHAY RAMDAS	Asupe	Asupe
12	KUMBHAR NIKHITA DATTATRAY	Aunthon	Aumbhar
13	SARNE SHWETA SHAM	Shto	anto
14	SARGAR LALIT RAJARAM	Sargar	8 angar
15	KURULEKAR VIKAS GANGADHAR	Netest.	Nekat.
16	SHINDE ASHISH HANMANT	Ahish	Adria
17	TOLE ADWAIT PRANESH	Alle	tale
18	PATIL VASUNDHARA PRAMOD	Uppatil	"in noted

NATIONAL SERVICE SCHEME





19	WAGHMARE SHRINATH SHANTINATH	Spagneth	Shoinatto
20	SHINDE KADAMBARI BABASAHEB	Kadamboel S.	Vadamberis.
21	BHALE BHAGIRATHI NARAYAN	Black	Bald
22	JADHAV SHRADHA SHIVLAL	Abridhan	a to jachar
23	GANJURE KAVERI UDDHAV	Kowen.	tari
24	PATIL YASHASVI VIJAY	Pati	Patis
25	AHIRRAO SHRADDHA ANIL	Shoraddha	shraddha
26	PANDIT NEHA KISHOR	Nordet	Handit
27	HOJAGE SNEHA NAVNATH	shoha	Freha
28	DIGHE SHIVANI APPASAHEB	Chiani	alizani
29	BASATE TEJASWINI SHRIMANT	duis	dui
30	AGALAVE SHRAVANI PANDURANG	Seagalance	SPAgalone
31	SHINDE VARSHA PANNDURANG	Scooppa	Simoney .
32	RANE TEJASHREE SATISH	BRAAK	BROW
33	GAIKWAD SIDDHI GULCHAND	Cosiphi	Cesiphi
34	HANDE MAITHIL DATTATRAY	Malthu Hande	Meethul Hand
35	MARE PAVANKUMAR DATTATRAY	Ring	Run.
36	WASULE ANJALI RAJU	driele	drjal:
37	GAIKWAD ANUJ VITTHAL	adril	asked
38	PATEL AJAY ANGADLAL	, free	Hal
39	DYAGATWAR MILIND GANGADHAR	Diration	Aprila e
40	DATE MAYURESH SITARAM	mpall	mpat .
41	PHAPALE SANCHIT PRAKASH	Psoneit!	Dronit
42	BHONGALE PRASAD BHARAT	Front	apprents
43	GAIKWAD AKASH ANGAD	AKCHA	AKOK
44	CHAUDHARI KHUSHBOO KHIVARAM	Bushboy	Bushbaa
45	NEMMANIWAR ABHISHEK SUNIL	NAphs	Abhs
46	GULHANE RITEEKA RAVINDRA	Certinico	Cerki
47	SEVATKAR MANSI NARHARI	Samather	Anter
48	MAJGAONKAR MANALI MAHADEV	maneli	manali
49	WAGHMODE HARSHITA SHANKAR	Haze	HON
50	KALE RUSHIKESH HANMANT	At-Kalk	Attland



Prof.R.M.Gurav Prof.P.A.Pawar **NSS Programme Officer**

Programme Officer National Service Scheme (NSS) Modern College of Pharmacy Nigdi, Pune - 411044



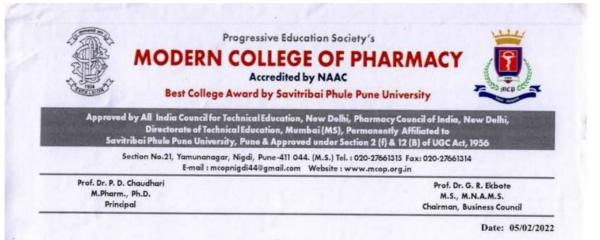
r. P. D. Chaudhari Principal Principal

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



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10. Tree plantation at Jambavade Report:



NOTICE

All the students are hereby informed that NSS Unit of the college has organised following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: NSS Special Camp Date & Time: 22 Feb to 28 Feb 2022 Venue: A/p Jambavade Tal. Maval, Dist.

Note: All NSS volunteers are informed that the selection process will be conducted on 07th Feb 2022.



Dr. A. S. Tapkir NSS Program Officer

Programme Officer National Service Scheme (N96) Modern College - Pharmacy Nigoi, Pune - 411044



Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



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P. E. Şociety's Modern College of Pharmacy, Nigdi. Pune-44





Date: 11/02/2022

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS for this year is arranged at Jambhawade village Tal. Mawal, Dist Pune, from 22nd February 2022 to 28th February 2022. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health-related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display and circulate soon. Thanking you.

Statist

Dr. A. S. Tapkir Dr. Mrs. A. G. More Prof. Rohit M. Gurav Prof. Prashant A. Pawar (Activity Coordinators)



Dr.P. D. Chaudhari

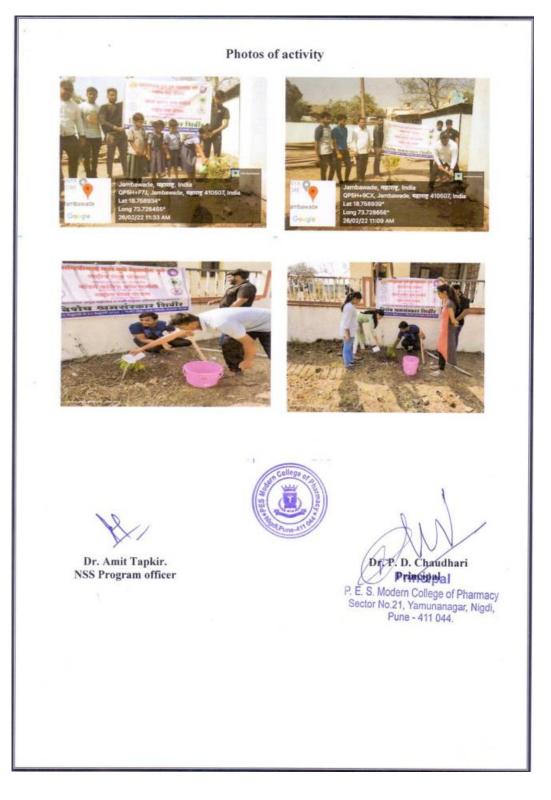
E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



	NSS REGU	LAR ACTIVITY REPORT 2021-2022
1.	Name of activity	Tree Plantation activity.
2.	Date of activity	26.02.2022
3.	Time	11am-1pm **
4.	Total no students participate	50
5.	Occasion of activity	NSS camp activity
6.	Inauguration by	Dr. Amit Tapkir
7.	Place of activity	Jambhawade, Tal. Maval, Dist. Pune 410507.
8.	Objectives of activity	To clean the premises of Jambhawade,or destruction of unwanted weeds and to row the seeds for plant growth. To make the students aware about the tree plantation on hills. To make the premises green.
9.	Outcome of activity	The Premises of Jambhawade, is free from unwanted weeds and students got idea how to do tree plantation and importance of tree plantation for our foresteco system.
10.	Activity co- coordinator	Dr. Amit Tapkir.
		Collage or runnaci



Photos of Tree plantation at Jambavade dated 26/02/2022















P. E. Society's Modern College of Pharmacy, Nigdi, Pune-411044 NATIONAL SERVICE SCHEME

Special Winter Camp

Place: A/P Jambawde, Tal: Maval, Dist: Pune Date: 22/02/2022 to 28/02/2022 Attendance Sheet

Date:22/02/2022

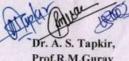
Sr No.	Name of the Volunteers	Morning	Evening
1	DHOLE ONKAR NISHIKANT	apole	shuke
2	ROKADE MANISH SUBHASH	Rozade	Mercade.
3	SURWASE ONKAR VISHNU	Conc	come
4	HAGE VAIBHAV GANESH	GHE	Noves
5	TARU DEEPAK KHANDU	Caeu.	Easers.
6	MATE DNYANESHWARI SANDIP	That	tute
7	HARNE SHIVANI SAHADEO	-tiham'	- Alivani.
8	SHELKE GANESH SURESH	Coshemue	Cashellike
9	SAMBRE SHIVAM HEMANT	hanter	Justice
10	BARWAD NARESH RAMAKANT	art	At.
11	SUPE AKSHAY RAMDAS	Asupe	Asupe
12	KUMBHAR NIKHITA DATTATRAY	Aunthon	Aumbhar
13	SARNE SHWETA SHAM	Shto	anto
14	SARGAR LALIT RAJARAM	Sargar	8 angar
15	KURULEKAR VIKAS GANGADHAR	Netest.	Nekat.
16	SHINDE ASHISH HANMANT	Ahish	Adrida
17	TOLE ADWAIT PRANESH	Alle	tale
18	PATIL VASUNDHARA PRAMOD	Uppatil	"in noted

NATIONAL SERVICE SCHEME





19	WAGHMARE SHRINATH SHANTINATH	Spagneth	Shoinatto
20	SHINDE KADAMBARI BABASAHEB	Kadamboel S.	Vadamberis.
21	BHALE BHAGIRATHI NARAYAN	Black	Bald
22	JADHAV SHRADHA SHIVLAL	Abridhan	a to jachar
23	GANJURE KAVERI UDDHAV	Kowen.	tari
24	PATIL YASHASVI VIJAY	Pati	Patis
25	AHIRRAO SHRADDHA ANIL	Shoraddha	shraddha
26	PANDIT NEHA KISHOR	Nordet	Handit
27	HOJAGE SNEHA NAVNATH	shoha	Freha
28	DIGHE SHIVANI APPASAHEB	Chiani	alizani
29	BASATE TEJASWINI SHRIMANT	duis	dui
30	AGALAVE SHRAVANI PANDURANG	Seagalance	SPAgalone
31	SHINDE VARSHA PANNDURANG	Scooppa	Simoney .
32	RANE TEJASHREE SATISH	BRAAK	BROW
33	GAIKWAD SIDDHI GULCHAND	Cosiphi	Cesiphi
34	HANDE MAITHIL DATTATRAY	Malthu Hande	Meethul Hand
35	MARE PAVANKUMAR DATTATRAY	Ring	Run.
36	WASULE ANJALI RAJU	driele	drjal:
37	GAIKWAD ANUJ VITTHAL	adril	asked
38	PATEL AJAY ANGADLAL	, free	Hal
39	DYAGATWAR MILIND GANGADHAR	Diration	A publice.
40	DATE MAYURESH SITARAM	mpall	mpat .
41	PHAPALE SANCHIT PRAKASH	Psoneit!	Dronit
42	BHONGALE PRASAD BHARAT	Front	apprents
43	GAIKWAD AKASH ANGAD	AKCHA	AKOK
44	CHAUDHARI KHUSHBOO KHIVARAM	Bushboy	Bushbaa
45	NEMMANIWAR ABHISHEK SUNIL	NAphs	Abhs
46	GULHANE RITEEKA RAVINDRA	Certinico	Cerki
47	SEVATKAR MANSI NARHARI	Samather	Anter
48	MAJGAONKAR MANALI MAHADEV	maneli	manali
49	WAGHMODE HARSHITA SHANKAR	Haze	HON
50	KALE RUSHIKESH HANMANT	At-Kalk	Attland



Prof.R.M.Gurav Prof.P.A.Pawar **NSS Programme Officer**

Programme Officer National Service Scheme (NSS) Modern College of Pharmacy Nigdi, Pune - 411044



r. P. D. Chaudhari Principal Principal

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



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11. Water and Soil analysis Report:



NOTICE

All the students are hereby informed that NSS Unit of the college has organised following mentioned activity. All are requested to actively participate in the activity. Details of the activity is mentioned below:

Name of Activity: NSS Special Camp Date & Time: 22 Feb to 28 Feb 2022 Venue: A/p Jambavade Tal. Maval, Dist.

Note: All NSS volunteers are informed that the selection process will be conducted on 07th Feb 2022.

Saple

Dr. A. S. Tapkir NSS Program Officer

Programme Officer National Service Scheme (N96) Modern College - Pharmacy Nigoi, Pune - 411044



Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



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P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44





Date: 11/02/2022

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS³ for this year is arranged at Jambhawade village Tal. Mawal, Dist Pune, from 22nd February 2022 to 28th February 2022. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health-related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display and circulate soon.

Thanking you.

Blaghing -

Dr. A. S. Tapkir Dr. Mrs. A. G. More Prof. Rohit M. Gurav Prof. Prashant A. Pawar (Activity Coordinators)



D. Chau dhari

Principal 2. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

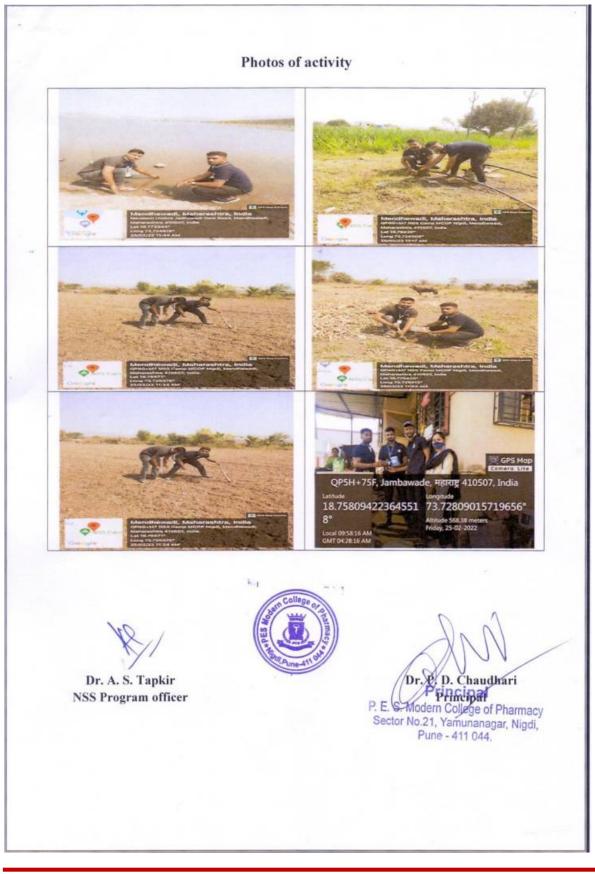




	NSS REGU	LAR ACTIVITY REPORT 2021-2022
1.	Name of activity	Water & soil analysis
2.	Date of activity	25/02/2022
3.	Time	10am - 12pm
4.	Total no students participate	50
5.	Occasion of activity	NSS Campactivity
6.	Inauguration by	Dr. P.D. Chaudhari (Principal)
7.	Place of activity	Jambhawade, Tal. Maval, Dist. Pune 410507.
8.	Objectives of activity	To analyses Soil and Water. To check safety of water, and certain chemical parameters for safe limits. To determine the level of availability of nutrients in the soil.
9.	Outcome of activity	Soil and water analysis was done. Many villagers/Farmers got result for water purity and quality of soil for the growth of farm. Students got information regarding testing of water and soil.
10.	Activity co- coordinator	Dr. A. S. Tapkir



Photos of Water and Soil analysis dated 25/02/2022















P. E. Society's Modern College of Pharmacy, Nigdi, Pune-411044 NATIONAL SERVICE SCHEME

Special Winter Camp

Place: A/P Jambawde, Tal: Maval, Dist: Pune Date: 22/02/2022 to 28/02/2022 Attendance Sheet

Date:22/02/2022

Sr No.	Name of the Volunteers	Morning	Evening
1	DHOLE ONKAR NISHIKANT	apole	shuke
2	ROKADE MANISH SUBHASH	Rozade	Morade.
3	SURWASE ONKAR VISHNU	Conc	come
4	HAGE VAIBHAV GANESH	GHE	Noves
5	TARU DEEPAK KHANDU	Caeu.	Easers.
6	MATE DNYANESHWARI SANDIP	That	tute
7	HARNE SHIVANI SAHADEO	-tiham'	- Alivani.
8	SHELKE GANESH SURESH	Coshemue	Cashellike
9	SAMBRE SHIVAM HEMANT	hanter	Justice
10	BARWAD NARESH RAMAKANT	art	At.
11	SUPE AKSHAY RAMDAS	Asupe	Asupe
12	KUMBHAR NIKHITA DATTATRAY	Aunthon	Aumbhar
13	SARNE SHWETA SHAM	Shto	anto
14	SARGAR LALIT RAJARAM	Sargar	8 angar
15	KURULEKAR VIKAS GANGADHAR	Netest.	Nekat.
16	SHINDE ASHISH HANMANT	Ahish	Adrida
17	TOLE ADWAIT PRANESH	Alle	tale
18	PATIL VASUNDHARA PRAMOD	Uppatil	"in noted

NATIONAL SERVICE SCHEME



20 21 22 23 24	SHINDE KADAMBARI BABASAHEB BHALE BHAGIRATHI NARAYAN JADHAV SHRADHA SHIVLAL	Kadamber S.	Kadamberis
22		Bhale.	ROD
23	JADHAV SHRADHA SHIVLAL	(Deeri	(1))
100		Ahlindhar	A tojothar
24	GANJURE KAVERI UDDHAV	Koncen.	karsi
24	PATIL YASHASVI VIJAY	Patil	Patie
25	AHIRRAO SHRADDHA ANIL	Shouddha	shouldba
26	PANDIT NEHA KISHOR	Nondet	Handit
27	HOJAGE SNEHA NAVNATH	stoha	Freha
28	DIGHE SHIVANI APPASAHEB	Chiani	Quini
29	BASATE TEJASWINI SHRIMANT	duii	duin
30	AGALAVE SHRAVANI PANDURANG	Seagalance	Spagalone
31	SHINDE VARSHA PANNDURANG	Scooppa	Someney.
32	RANE TEJASHREE SATISH	BRAAK	BRAN
33	GAIKWAD SIDDHI GULCHAND	Costphi	Cesiphi
34	HANDE MAITHIL DATTATRAY	Malthul Hande	Matthil Hand
35	MARE PAVANKUMAR DATTATRAY	Piuro-	Run.
36	WASULE ANJALI RAJU	driele	drjal'
37	GAIKWAD ANUJ VITTHAL	Goky	aded
38	PATEL AJAY ANGADLAL	, Lacos	ficel
39	DYAGATWAR MILIND GANGADHAR	Angel Http	And ale
40	DATE MAYURESH SITARAM	mall	mpat .
41	PHAPALE SANCHIT PRAKASH	Deeneit	Damit
42	BHONGALE PRASAD BHARAT	Borent	about
43	GAIKWAD AKASH ANGAD	AKath	AKOK
44	CHAUDHARI KHUSHBOO KHIVARAM	Rushbay	Rushbaa
45	NEMMANIWAR ABHISHEK SUNIL	NAPhr	Abhs
46	GULHANE RITEEKA RAVINDRA	Certinico	CoRI
47	SEVATKAR MANSI NARHARI	Stawatter	Angles
48	MAJGAONKAR MANALI MAHADEV	manaly	manali
49	WAGHMODE HARSHITA SHANKAR	Hat	Hart
50	KALE RUSHIKESH HANMANT	Challe	Att //all

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

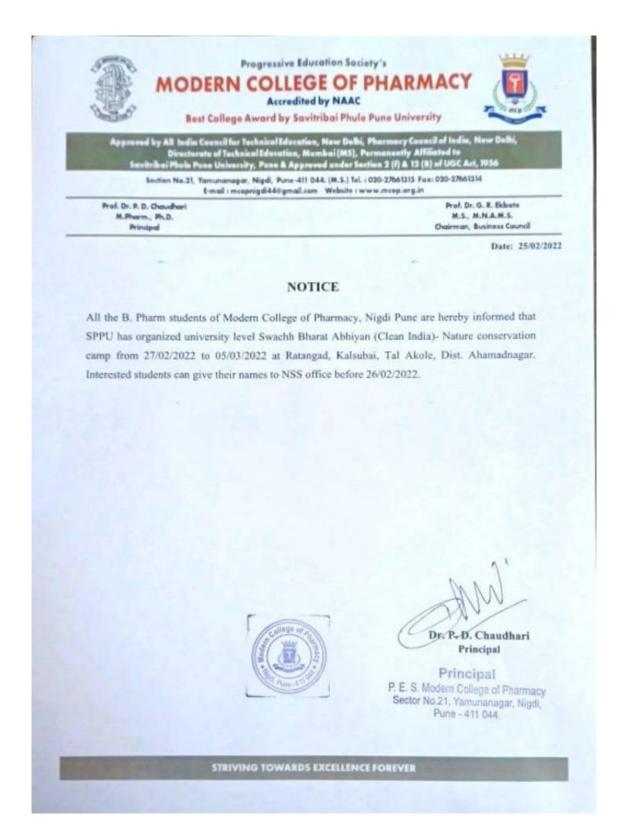
SCHEME

Programme Officer

National Service Scheme (NSS) Modern College of Pharmacy Nigal, Pune - 411044



12. University level Nature conservation camp Report:









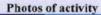


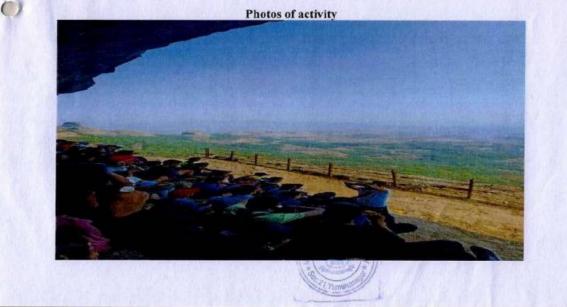




P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44 NSS REGULAR ACTIVITY REPORT 2021-2022

1.	Name of activity	University level Nature Conservation Camp
2.	Date of activity	27 Feb to 05 Mar 2022
3.	Time	6.00 am to 10.00 pm
4.	Total no students participated	1(Ganesh Shelke)
5.	Occasion of activity	Nature Conservation Camp
6.	Inauguration by	Dr. Prabhakar Desai
7.	Place of activity	Kalsubai Shikhar
8.	Objectives of activity	 Awareness about Nature To take part in nature conservation Nature Empowerment
9.	Outcome of activity	 Participant learn about social values and activities related to nature conservation, development, exchange of culture and humanity
10	Activity co-coordinator	Dr. A. S. Tapkir Prof. R. M. Guray

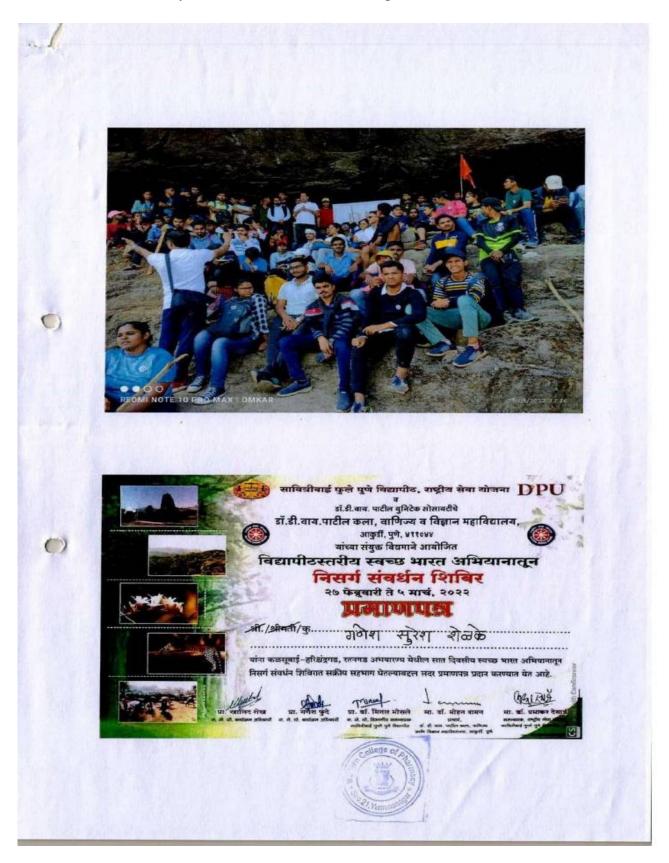




Photos of University level Nature conservation camp dated 27/02/2022-05/03/2022



Photos of University level Nature conservation camp dated 27/02/2022-05/03/2022







AWARENESS CAMPAIGN

2020-21





13. Tree plantation Report:

0 0		P. E. Society's lege of Pharmacy, Nigdi. Pune-44 GULAR ACTIVITY REPORT 2020-2021
1.	Name of activity	Tree Plantation-Swatchh bharat Abhiyan
2.	Date of activity	03.07.2020
3.	Time	10.00 am to 2.00 pm
4.	Total no students participated	50
5.	Occasion of activity	Tree Plantation
6.	Inauguration by	Dr. P.D. Chaudhari
7.	Place of activity	PES Modern College of Pharmacy, Nigdi, and student home town
8.	Objectives of activity	To make the region green. To help in decrease in global warmingTo improve water and air quality
		To increase green spaces in cities.To conserve biodiversity.
9.	Outcome of activity	Students planted various saplings at different regions. Students get exposed to nature and understood importanceof conservation of nature and biodiversity. Student get aware about proper scientific techniques of plantation.
10	Activity co-coordinator	Dr. A. S. Tapkir







Progress E. Society's MODERN COLLEGE OF PHARMACY, Yamunanagar, Nigdi, Pune-44



Date: 01/07/2020

NOTICE

All the NSS Volunteers are hereby informed that NSS Unit of the college has organised **"Tree Plantation" on 3rd July 2020** at your nearby area. All are requested to actively participate in the activity.

Note:

All are requested to take a photograph during the activity & forward it the coordiantor.

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Dr. A. S. Tapkir **NSS Program Officer**



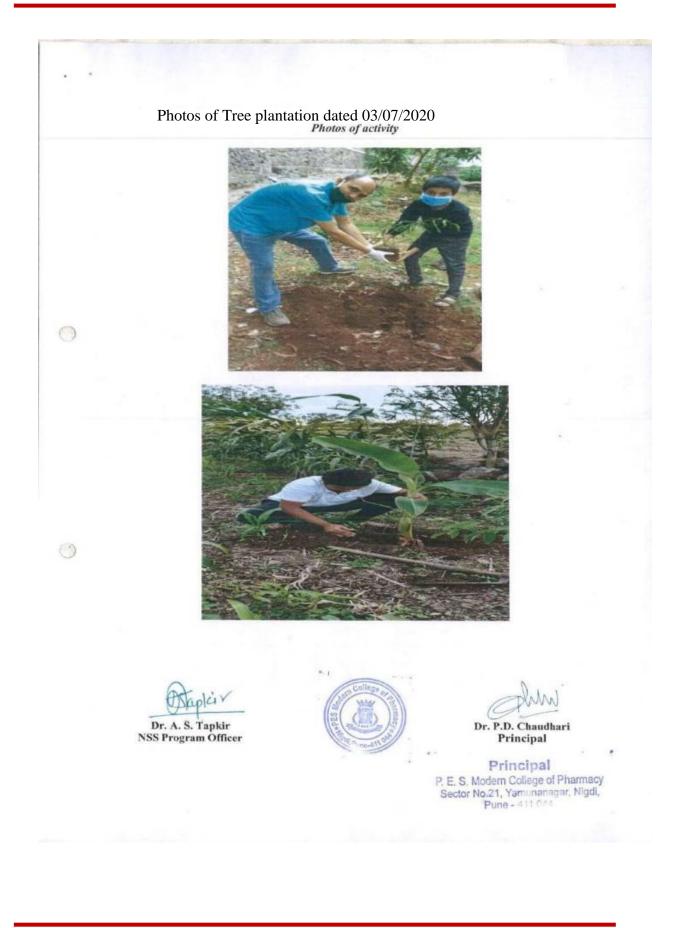
Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index









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24.

Shaikh Tabassum Rahim

Maskare Mayuri Santosh

Barwad Naresh Ramakant

Ratnaparkhi Aniket

Nikalje Pritam

Chimate Manasi Ashok

Kumbhar Nikhita Dattatray

Gaikwad Abhijit Atmaram

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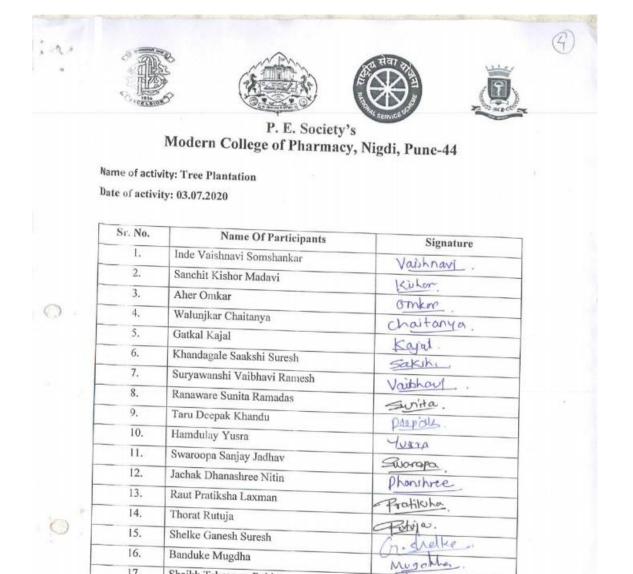
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	26.	Dalvi Aditya Navnath	D. Adilyo	_
	27.	Date Mayuresh Sitaram	Maywash	_
	28.	Deokar Saakshi Shrikant	Sakshi	
	29,	Dhawade Siddhi		_
	30.	Patil Shubham	Siddhi D.	_
	31.	Khedekar Tejas		_
ſ	32.	Shinde Ashish Hanmant	Tejas .	_
1	33.	Dhumal Neha	S.Ashish	
	34.	Shirsat Pranali Sanjay	Weher	
Ē	35.	Borole Samiksha Vishnu	Prunoli S.	
	36.	Sambra Shivam Hemant	S.V. Borole.	
	37.	Shinde Shivanjali Bhau	Shivom	
	38.	Gaikwad Siddhi Gulchand	Shivonjali	
	39.	Patil Sayali Dipak	Siddhi Gy	
	40.	Sewatkar Mansi Narhari	Sayelli Fatil.	<u>.</u>
	41.	Supe Akshay Ramdas	Mansi	
	42.	Gite Roshani Suryabhan	SAlpshery	
F	43.	Gahiine Pritesh Namdey	Roshani Gi.	
	44.	Pawar Siddhant Deepak	Bitesh	1
-	45.	Bansode Nikhil Pramod	S.D. Awar.	
-	46.	Yedage Pranita Sanjay	Nichil	
0 -	47.	Hage Vaibhav Ganesh	ponita y.	
-	48.	Chavan Yash Dinesh	Vaubhau.	
-	49.	Onkar Dhole	Y.D. Chavan.	
	50.	Swapnil Dhobe	Onkar. Thobe S.	

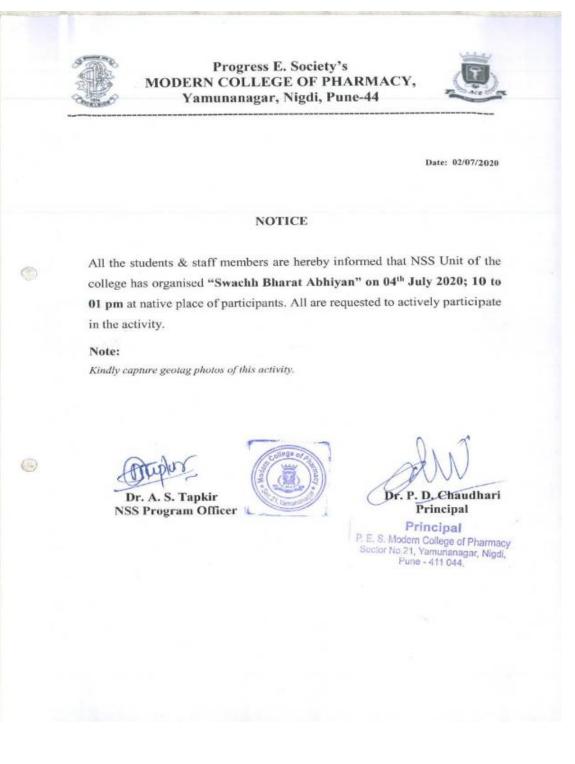
Dr. A.S. Tapkir

NSS Program Officer





14. Swachha Bharat Abhiyaan- cleaning campaign Report:





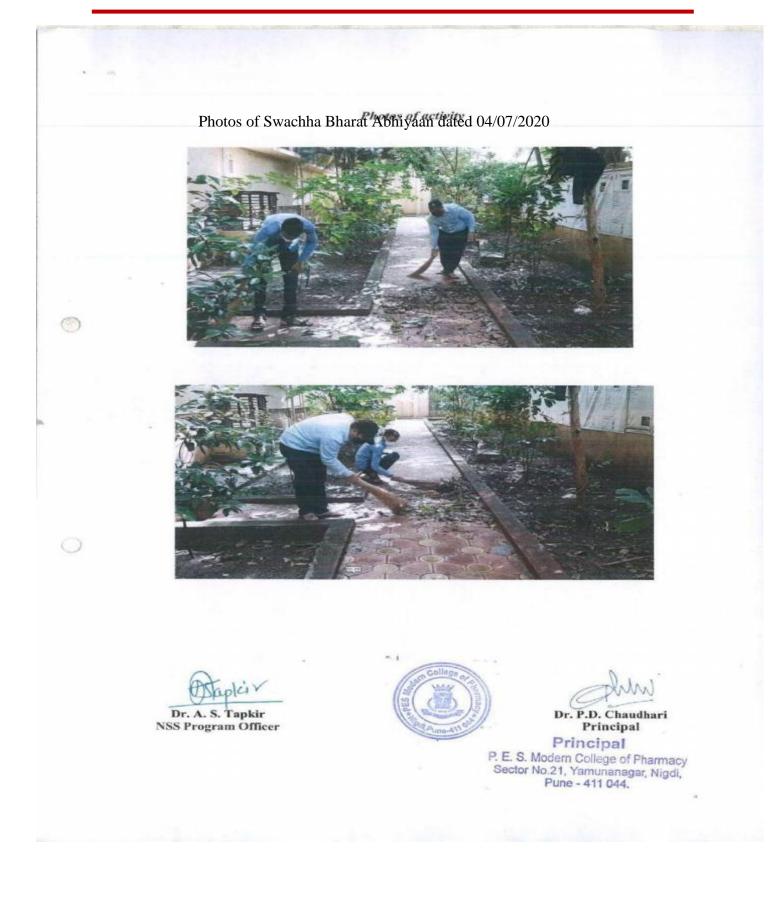


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P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 NSS REGULAR ACTIVITY REPORT 2020-2021						
	1.	Name of activity	Swachh Bharat Abhiyan			
1	2.	Date of activity	04.07.2020			
	3.	Time	10.00 am to 2.00 pm			
	4.	Total no students participated	25			
	5.	Occasion of activity	Cleaning activity on occasion of swachh wari sunder wari haritwari			
	6.	Inauguration by	Dr. P.D. Chaudhari			
	7.	Place of activity	PES Modern College of Pharmacy, Nigdi, Pune-44			
	8.	Objectives of activity	To generate awareness about sanitation and its links to publichealth. To aware about waste management. To spread awareness about how to clean the premises. To maintain public health with the help of cleaning.			
	9.	Outcome of activity	Generated awareness in students and society regardingSwatchh bharat Abhiyan. Students understood how to do management of solid waste. As a pharmacist discussed and counseled regarding health andcleanliness and its relation in causing various diseases.			













		P. E. Society's	
		Modern College of Pharmacy,	Nigdi, Pune-44
	Name of acti	vity: Swachh Bharat Abhiyan-Cleaning c	Impaion
	Date of activ	ity: 04.07.2020	Pin-Bin
	Sr. No.	Name of Participants	Signature
	1.	Dalvi Aditya Navnath	D.Adilya
	2.	Date Mayuresh Sitaram	Mayuresh
	3.	Deokar Saakshi Shrikant	Jako hi
	4.	Dhawade Siddhi	Siddhi D.
	5.	Patil Shubham	Shubhan .
	6.	Khedekar Tejas	Tejas.
	7.	Shinde Ashish Hanmant	Stopich
	8.	Dhumal Neha	(Neha,
	9.	Shirsat Pranali Sanjay	Bandlis.
	10.	Borole Samiksha Vishnu	
	11.	Sambra Shivam Hemant	S.V. Borole. Shivom
	12.	Shinde Shivanjali Bhau	Shivanjali
	13.	Gaikwad Siddhi Gulchand	Siddhi G
	14.	Patil Sayali Dipak	CURH
	15.	Sewatkar Mansi Narhari	Mansi
	16.	Supe Akshay Ramdas	Alpshay
Γ	17.	Gite Roshani Suryabhan	
	18.	Gahiine Pritesh Namdev	Roshani Gi.
T	19.	Pawar Siddhant Deepak	
	20.	Bansode Nikhil Pramod	S.D. Powar.
	21.	Yedage Pranita Sanjay	Nichi
	22.	Hage Vaibhav Ganesh	Pronita 4.
F	23.	Chavan Yash Dinesh	Vaibhav.
F	24.	Onkar Dhole	4. D. Chavan
	25.	Swapnil Dhobe	Onkor.









15. World record participation: Tree plantation in the "Palakhi

Marg" Report:

P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44

Date: 18/06/2019

NOTICE

All the NSS Volunteers are hereby informed that NSS Unit of the college has going to participate in "Guinness World Record: Neem Sampling Distribution" organised by the Savitribai Phule Pune University on 23rd June 2019. All are requested to actively participate in the activity.

Note:

Lunch & Tshirts will be provided by the University.

Dr. A. S. Tapkir **NSS Program Officer**

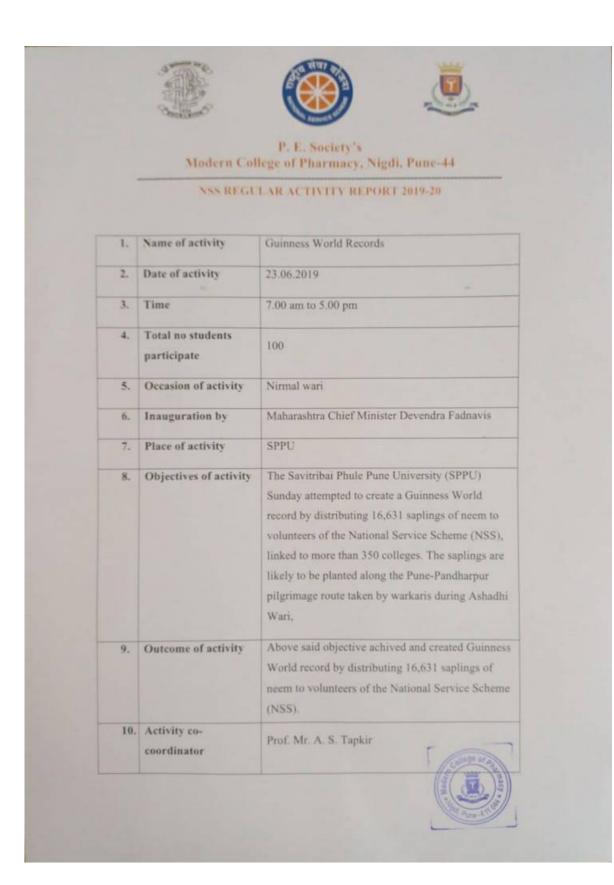


D. Chaudhari . P Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.



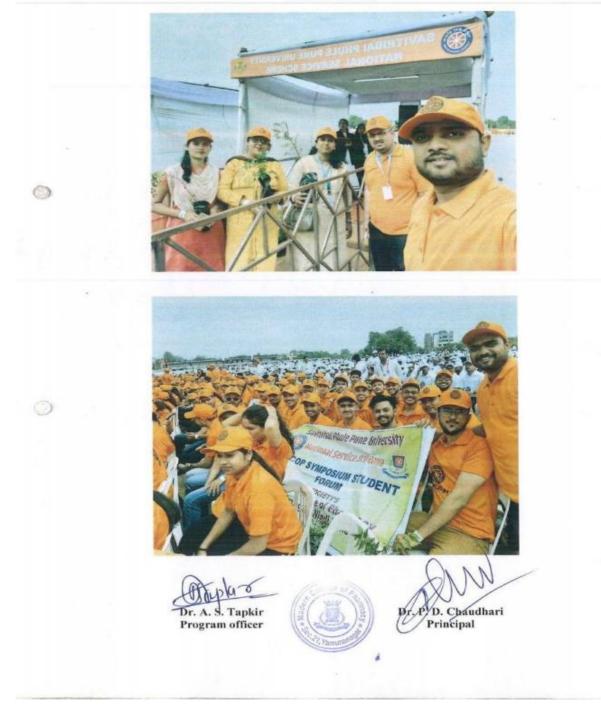






Photos of World record participation: Tree plantation in the "Palakhi Marg" dated 23/06/2019

Photos of activity



Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index



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Cont	and the second second	
	P. E. Society's	
	MODERN COLLEGE OF PHARMAG	CY, NIGDI, PUNE-44
	NSS REGULAR ATTEN	DANCE
_	2019-2020	
	Name Of Activity: Guinness We	orld Records
	Date of Activity: 23.06.1	
Sr. No		Sign
1.	Kothari Vinay Nitinkumar	Virgia
2,	YeoleAkshay Ashok	Ashong-
3.	NarwadeSwapnadeepNamdeo	the for
4.	Thakare Vivek Vasant	taiall
5.	PowarSayali Raju Deshmukh Ketki Dinesh	Talki
6.		Elter
7.	More Mayur Satish	Blow r
8.	Pujari Suraj Shivaji Gurav Tushar Sanjay	Turhez
10.	Kharsade Dnyaneshwar Vittal	Rhansade
11.	Pande Darshana Sudhakar	Face
12.	DhongadeJanhavi Satish	Terripolini
13.	Jadhav Nikita Yashwant	Nikita
14.	Mahadik Monika Sanjay	monute
15.	Gujare Ashwini Gangadhar	Ashingi
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16.	Pawar Sayali Suresh MahadikIndrani Raman	-Sayahi
17.	Agarwal Saloni Manish	- ALANA
18.	KarambelkarAaryaAvinash	Harryg
20.	Shinde Vaishali Rajkumar	1 Sacra
21.	Ransing Vaishnavi Sunil	Que
22.	Jadhav Gayatri Somanath	Cloyath
23.	Choudhary Bharti Jagdish	Giordian
24.	Amritkar Akanksha Praveen	Cat di
24.	Abhang Siddhi Dnyaneshwar	siddhe
25.	WaghPranjal Ashok	Oct
26.	HajarePratikshaKantilal	Hondal
21.		= Jorentat
28.	Choure Saurabh Kailas	Saurabh





29.	Deshpande Urvi Vijay	Tapande
30.	Shirke Disha Ajay	Dicha
31.	Suryawanshi Pooja Prakash	P. P00)P
32.	Naykinde Sandhya	Jandhya.
33.	Andre Rutuja Sunil	Dah
34.	Padale Neha Madan	Madale.
35.	Shaikh Sufiyan Mohamadaslam	Supern
36.	Pathan Ayesha Vinus	Arend
37.	ThoratRutuja Mahesh	Rutuaja
38.	Tantri Rashmi Raveendra	Rashanii
39.	SavaseBhagyashreeHaridas	Blogiotisce
40.	Chaudhari Sagar Rohidas	Salton
41.	Tiwari Shrusti Ashok	Threahi
42.	Richardson Charmine .	champine
43.	Sudrik Kranti Gorakh	Kranbi
44.	Chavan Yash Dinesh	Jast
45.	Todkar Aniket Sunil	Aniret.
46.	Hamdulay Yusra Rafiq	Lugzer
47.	Dighe Trupti Eknath	druppi
48.	Borole Samiksha Vishnu	Porder
49.	Taru Deepak Khandu	Deceaks
50.	Rokade Manish Subhash	Orakada
51.	HandeMaithil Dattatray	Hands
52.	Shrivastav Kalyani Rahul	Kalyon
53.	SawkarRutuja Nitin	Ruffite-
54.	Gaikwad Akash Angad	The
55.	Kale RushikeshHanmant	Suspikesto
56,	Ranaware Sunita Ramdas	Subita
57.	GulhaneRiteeka Ravindra	Riterka
58.	Gohil KhushabuBhikubhai	Alex
59.	Dhumal Neha Vinod	Jup-
60.	Harne Shivani Sahadeo	S-Marine
61.	ShirsatPranali Sanjay	Pachall
62.	Gatkal Kajal Baliram	(lobia)
63.	Mate Dnyaneshwari Sandip	Dayanuhunari
64.	Shinde ShivanjaliBhau	-Spiscini cili
65.	Raut Pratiksha Laxman	Praticoha
66.	Patil Sayali Dipak	- John -
67.	Sewatkar Mansi Narhari	phana!
68.	Supe Akshay Ramdas	Supe
69.	Barwad Naresh Ramakant	Norest
70.	Chimte Manasi Ashok	mancy



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71.	Dever Siddhant Deensk	Edward
72.	Pawar Siddhant Deepak Bansode Nikhil Pramod	Post.
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73.	Dhole Onkar Nishikant	guilden
74.	Hage Vaibhav Ganesh	Vaibhau
5.	Khandagale Saakshi Suresh	Held
6.	GiriRutujaVitthal	Rutuiq.
7.	Patil Shubham Mahadev	Spubham
8.	SambraShivam Hemant	-5 Hama
9.	Patil Dinesh Vasudeo	tit
0.	Gaikwad Siddhi Gulchand	Stad hi
1.	JachakDhanashree Nitin	that
2.	Gite RoshaniSuryabhan	Fastar
3.	Surwase Onkar Vishnu	Sonkate.
4.	BandukeMugdha Vikas	as
5.	SuryawanshiVaibhavi Ramesh	Vaibbavi
6.	Mande Tanvi Sanjay	Langer .
7.	Date Mayuresh Sitaram	Mayord
8.	Khedekar Tejas Gulab	GT
9.	Nemmaniwar Abhishek Sunil	-Abhishets
ю.	Jadhav Swaroopa Sanjay	Junarcana -
1.	KalaskarSmitesh Narayan	Ramiterto
2.	Shelke Ganesh Suresh	-game to
3.	Bhongale Prasad Bharat	thorald
4.	PhapaleSanchit Prakash	Sanchut
5.	Gahiine Pritesh Namdev	Bidesh
6.	YedagePranita Sanjay	trantg
7.	Ratnaparkhi Aniket Girishrao	Anther
8.	Sawant Nitesh Shankar	Withsh
9.	BandukeMugdha Vikas	mintand
0.	Mahajan Akshay Gopal	h h

Signature

NSS Programme Officer



16. Swachha Wari – Swastha Wari- Nirmal Wari – Harit WariAbhiyaan-leaf patravalivatap Report:

P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44

Date: 22/06/2019

NOTICE

All the NSS Volunteers are hereby informed that NSS Unit of the college has going to participate in "Swachha Wari-Swastha Wari-Nirmal Wari-Hareet Wari Abhiyan: Patrawali Vatap" activity organised by Modern College of Pharmacy, Nigdi on 24/06/2019. All are requested to actively participate in the activity.

Note:

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Interested volunteers are informed to submit their names to NSS office.

Dr. A. S. Tapkir **NSS Program Officer**

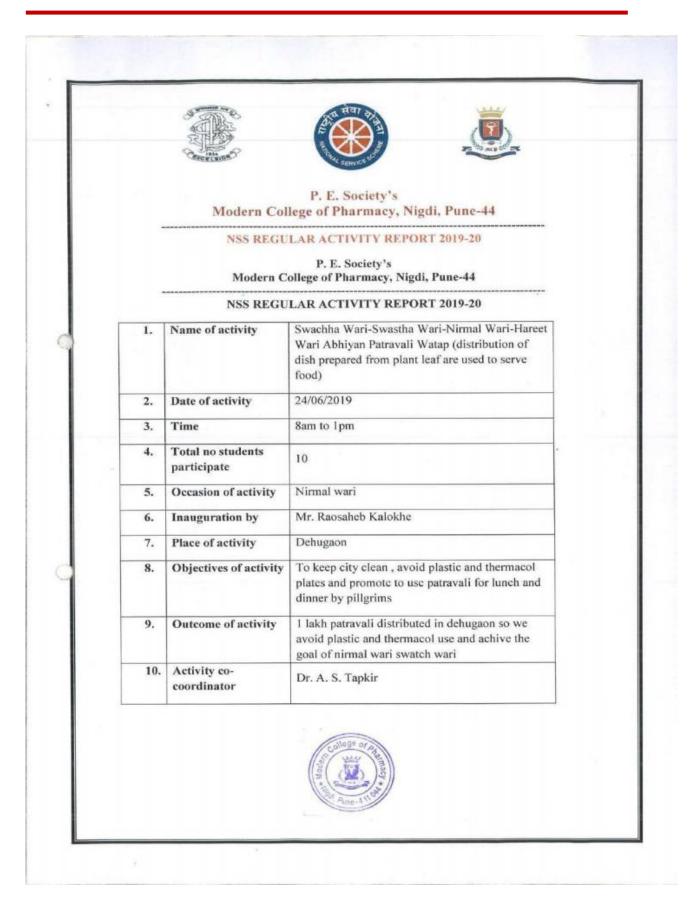


. D. Chaudhari Dr. Principal

Principal P. E. S. Modern College of Pharmacy Sector No 21, Yamunanagar, Nigdi, Pune - 411 044.









Photos of Swachhawari-swasthawari- nirmalwari-haritwariAbhiyaan-leaf patravalivatap



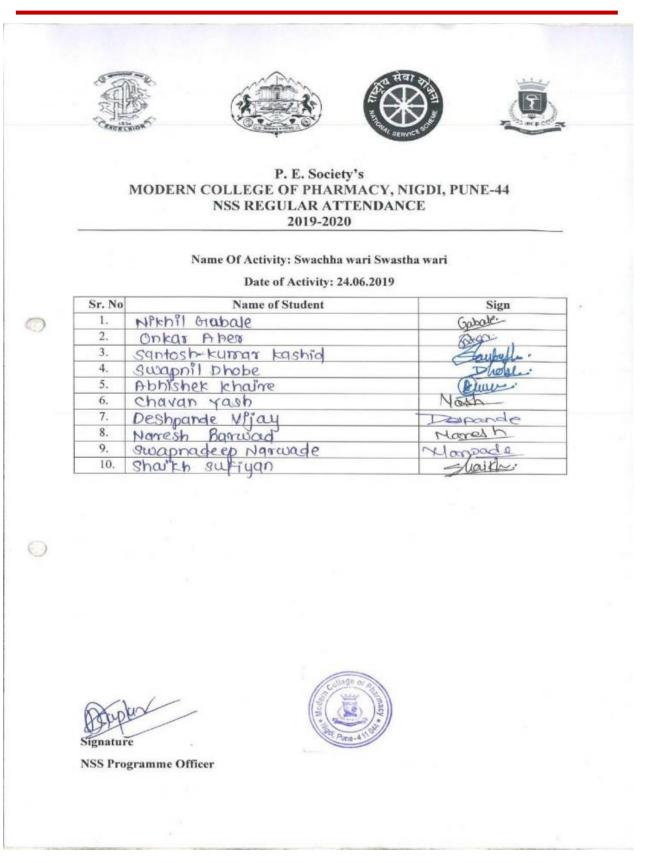


Photos of Swachhawari-swasthawari- nirmalwari-haritwariAbhiyaan-leaf patravalivatap dated 24/06/2029



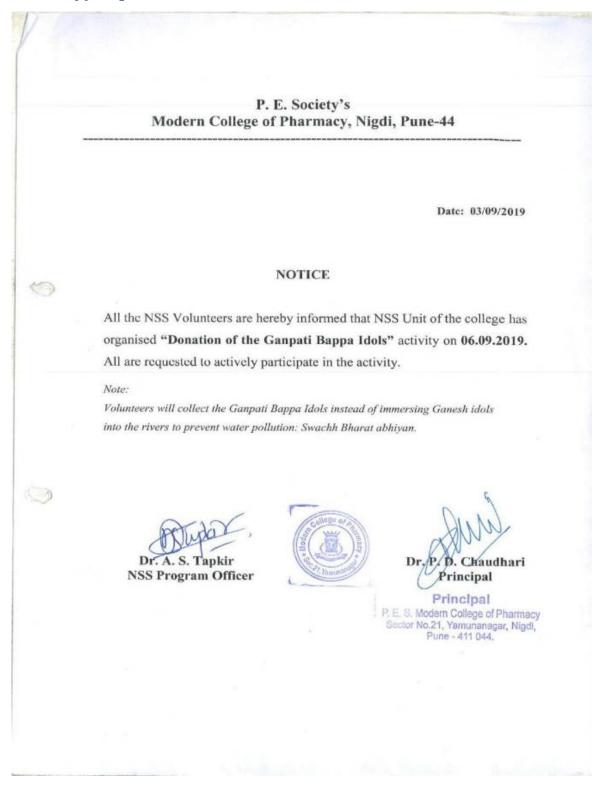




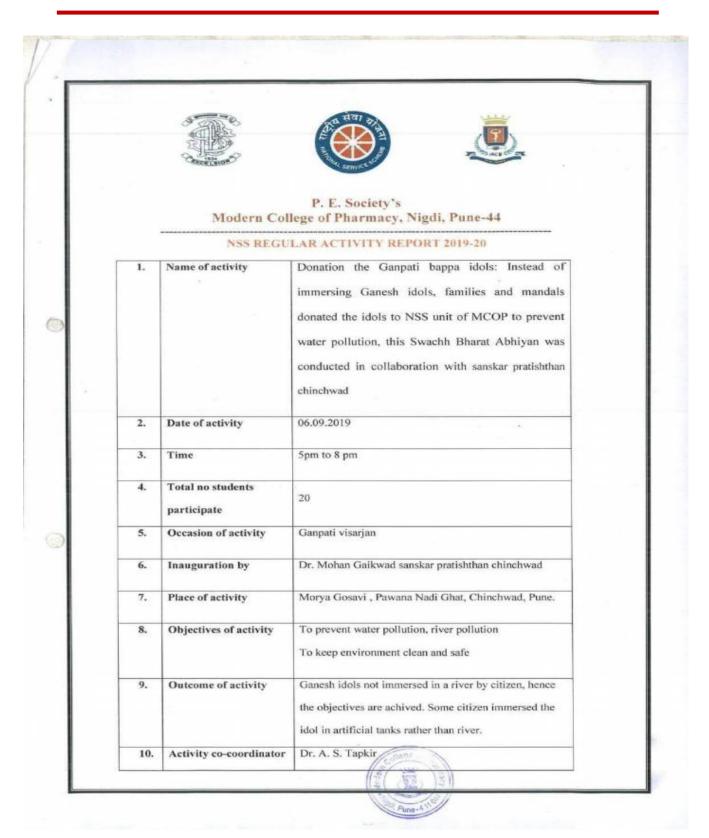




17. Save water (Ganesh idols donation and Nirmalya collection activity) Report:



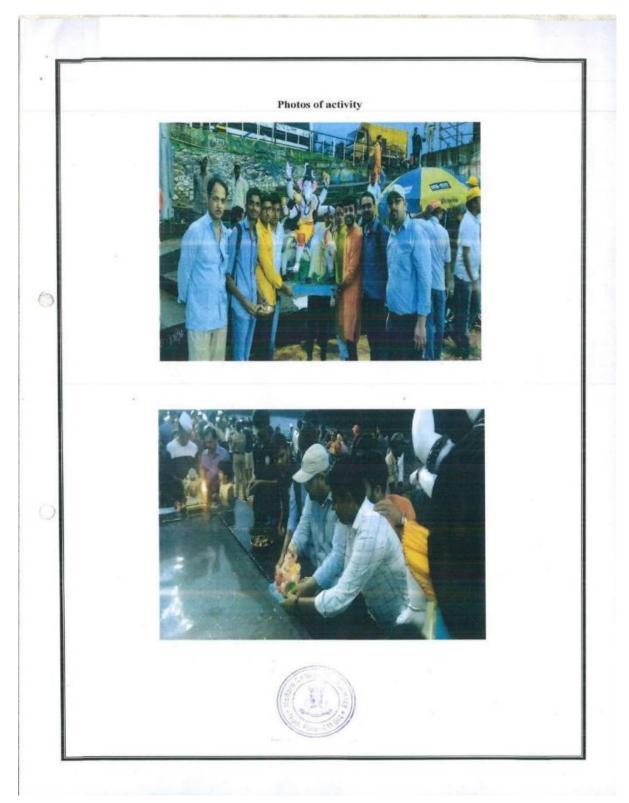






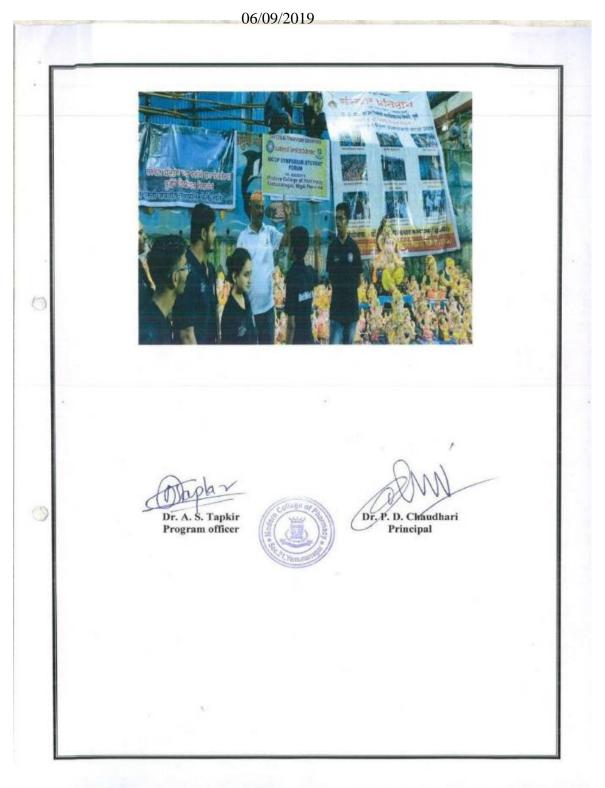
Photos of Save water (Ganesh idols donation and Nirmalya collection activity) dated

06/09/2019





Photos of Save water (Ganesh idols donation and Nirmalya collection activity) dated





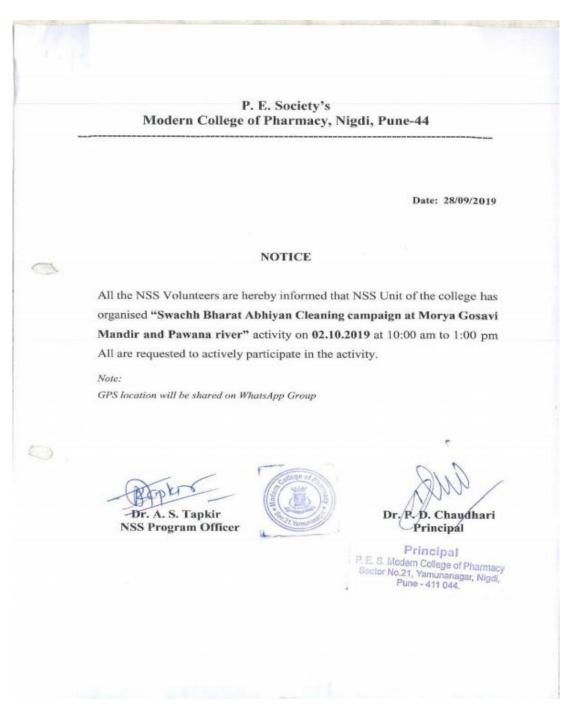
	P K Society's	
	P. E. Society's MODERN COLLEGE OF PHARMAC NSS REGULAR ATTENI 2019-2020	
	Name Of Activity: Donation the Gan Date of Activity: 06.09.20	019
Sr. No		Sign
1.	Shrusti Tiwari	STIWASI
2.	swapnil Dhobe	Bhoke.
3.	Shalkh Sufiyan	<i>sshaikh</i>
4.	Onkar Aher	-Onkaz-
5.	Onkar Dhole	Toobe
6.	Yealsh Girwani	
		7. Ghu.
6. 7. 8.	Yogish Girwani Rushi Kale	7. Ghu. Rohi Kale
6. 7. 8. 9.	Yogish Girwani Rushi Kale Rutuja Thorat Abbishek Nimmniwar	Fight. Rohi Kale. Thorat.
6. 7. 8.	Yogish Girwani Rushi Kale Rutuja Thorat Abbishek Nimmniwar	7. Ghu. Rohi Kale
6. 7. 8. 9. 10. 11.	Yogish Girwani Rushi kale Rutuja Thorat	T.Ghu. Rohi Kale. That AN.
6. 7. 8. 9. 10. 11. 12.	Yogish Girwani Rushi Kale Rutuja Thorat Abhishek Nimmniwar Onkar Surwase Akash Gaikwad Athanya Mande	T.Ghu. Roshi Kale. Physit. AN. Onlear
6. 7. 8. 9. 10. 11. 12. 13.	Yogish Girwani Rushi Kale Rutuja Thorat Abhishek Nimmniwar Onkar Surwase Akash Gaikwad Athanya Mande Akshay Mahamuni	Y.Ghu. Roshi Kale. Physick ANT. Onlear- Gitaik.
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6. 7. 8. 9, 10. 11. 12. 13. 14. 15.	Yaqish firwani Rushi kale Rutuja Thorat Abbishek Nimmniwar Onkar Surwase Akash Gaikwad Athanna Mande Akshay Mahamuni Sumit Udawant Sanket Talegaonkar Shiva khanal	Y. Ghu. Rohi Kale Physich ANT. Ordeor Graik Graik Mahamunt. Sumit. Sonket Sina.
6. 7. 8. 9, 10. 11. 12. 13. 14. 15. 16. 17.	Yaqish firwani Rushi kale Rutuja Thorat Abbishek Nimmniwar Onkar Surwase Akash Gaikwad Athanya Mande Akshay Mahamuni Sumit Udawant Sanket Talegaonkar Shiya khanal Pranay Yelamlar	7. Ghu. Rohi Kale Physich ANT. Ondeor Graik. Alande. Mahamunt. Sumit. Sonket Siva. Borev.
6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	Yaqish firwani Rushi kale Rutuja Thorat Abbishek Nimmniwar Onkar Surwase Akash Gaikwad Athanya Mande Akshay Mahamuni Sumit Udawant Sanket Talegaonkar Shiya khanal Pranay Yelamlar Divya Hagawane	7. Ghu. Frohi Kale. Physich. ANT. Ondeor. Groik. Alande. Mahamunt. Sumit Sonket Siva Fronex Troya
6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	Yaqish firwani Rushi kale Rutuja Thorat Abbishek Nimmniwar Onkar Surwase Akash Gaikwad Athanya Mande Akshay Mahamuni Sumit Udawant Sanket Talegaonkar Shiya khanal Pranay Yelamlar	7. Ghu. Frohi Kale Physich ANT. Ondeor Groik. Alande. Mahamunt. Sumit. Sonket Siva. Borev.

Signature

NSS Programme Officer



18. Swachh Bharat Abhiyan Cleaning campaign near Morya Gosavi mandir Report:





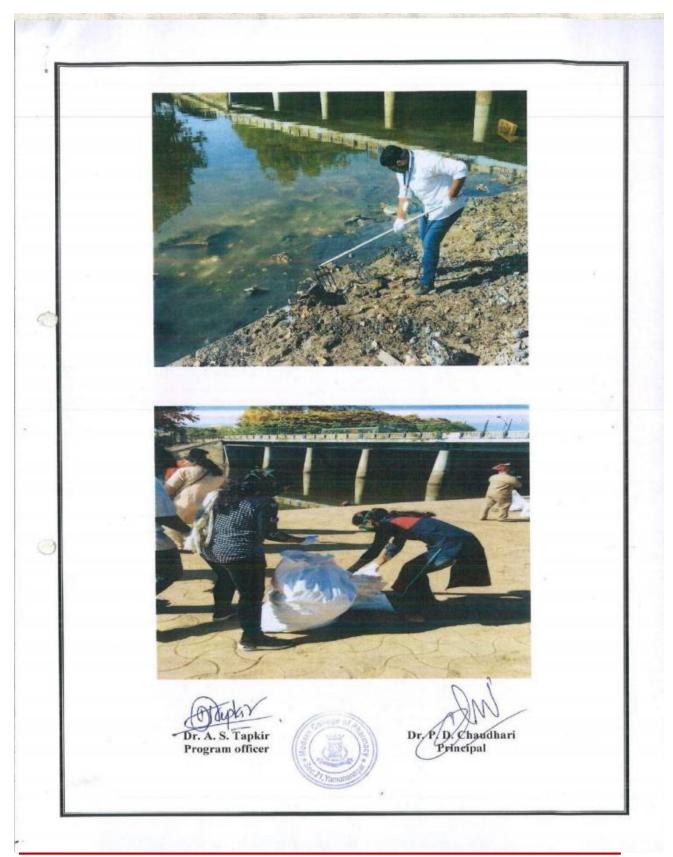


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1		Brownings	The second secon
			P. E. Society's
		Modern Col	lege of Pharmacy, Nigdi, Pune-44
		NSS RECU	LAR ACTIVITY REPORT 2019-20
		Name of activity	Swachh bharat abhiyan Cleaning campaign Morya
	1.	Name of activity	Gosavi mandir and Pawana river on occasion of
		10 C	-
			Mahatma Gandhi Jayanti Celebration
	2.	Date of activity	02.10.2019
	3.	Time Total no students	7am to 10am
		participate	20
-	5.	Occasion of activity	Gandhi jayanti
-	6.	Inauguration by	NSS volenters
	7.	Place of activity	Morya Gosavi mandir parisar
	8.	Objectives of activity	To prevent water pollution, river pollution
			To keep environment clean and safe
	9.	Outcome of activity	River area is clean successfully, area was cleaned
	10.	Activity co-coordinator	Dr. A. S. Tapkir
			Photos of activity

Photo of Swachh Bharat Abhiyan Cleaning campaign nearMoryaGosavi mandir dated 02/10/2019



Photos of Swachh Bharat Abhiyan Cleaning campaign nearMoryaGosavi mandir dated 02/10/2019



Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044
Back to Index



P. E. Society's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE-44 NSS REGULAR ATTENDANCE 2019-2020 Name Of Activity: Swachh Bharat Abhiyan Morya Gosavi

Sr. No	Name of Student	Sign
1.	shrusti Tiwavi	STIWOTI .
2.	Swapnil Dhobe	Phobe?
3.	shaikh sufiyan	s shaikh.
4.	Shaikh Sufiyan Onkar Ahes	Onka-D-
5.	onkar Phole	Ohole.
6.	Yogish Girwani	× Ghe
7.	Rushi kale	-Rushi kale.
8.	Rutuja Thorat	-Thoset-
9.	Abhishalk Nimniwars	CAA.
10.	onkar surwase	And Omkoz
11.	Powar sayali	Jayala
12.	padale Neha	Madale
13.	chavan Yash	Valt
14.	Grite Roshani	Feshi
15.	Giri Rutuja	Rutuja_
16.	Deshpande Vijay	Despande
17.	Pathan Ayesha	Pathan
18.	Deshpande Vijay Pathan Ayesha Narwade Swapnadeep Patil sayalf	Marabade
19.	Patil sayal	SPatt
20.	Barwad Naresh	Namesh

Signatur

NSS Programme Officer





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19. Clean India Mission Awareness rally Report:

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2019-20

Date: 06/01/2020

NOTICE

All the NSS volunteers for the year 2019-20 are hereby informed that NSS SPECIAL CAMP for this year is arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 13th January 2020 to 19th January 2020. Interested volunteers those who have enrolled for the year 2019-20 as NSS volunteers can enroll their names to undersigned before 09/01/2020.

Total no. of volunteers to be enrolled for camp are: 50

Sequence of preference to be enrolled

- 1) Final year Students
- 2) Third year students
- 3) Second year students

Further details of the camp will be notice soon.

Dr. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer

Programme Officer National Service Scheme (N95) Modern College of Pharmacy Nigdi, Pune - 411044.

Dr. P. D. Chaudhari

Principal

Principal P. E. S. Modern College of Pharmacy Yamunanager, Sector No.21, Nigdi, Puna - 411 044.

VATIONAL

SERVICE

SCHEME



J

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2019-20

Date: 06/01/2020

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS for this year is arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 13th January 2020 to 19th January 2020. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display and circulate soon. Thanking you.

NATIONAL

SCHEME

Prof. A. S. Tapkir

Prof. A. G. More N.S.S. Programme officer

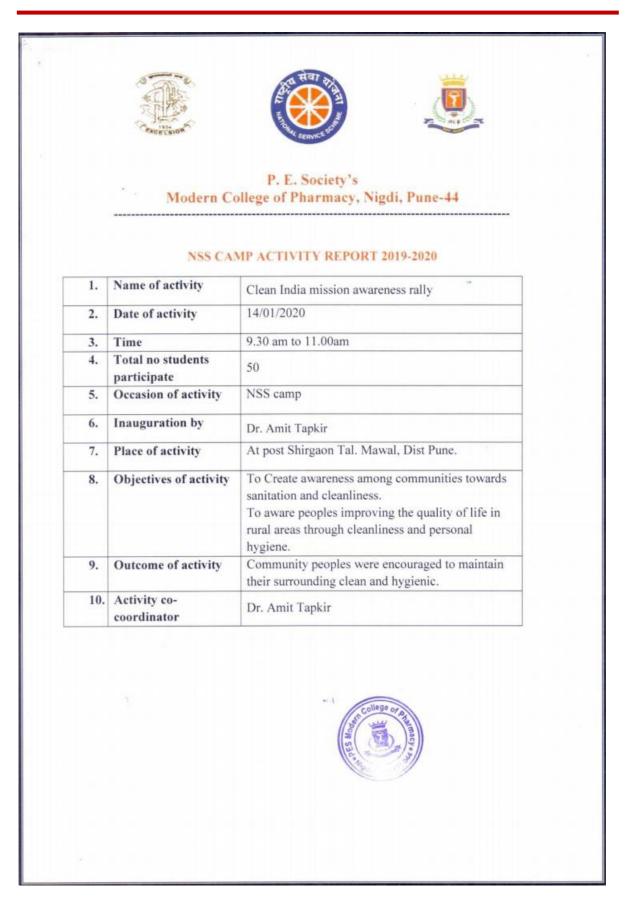
Programme Officer National Service Scheme (NSS) Modern College of Pharmacy Nigdi, Pune - 411044.

Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Yamunanagar, Sector No.21, Nigdl, College or Sume - 411 044.

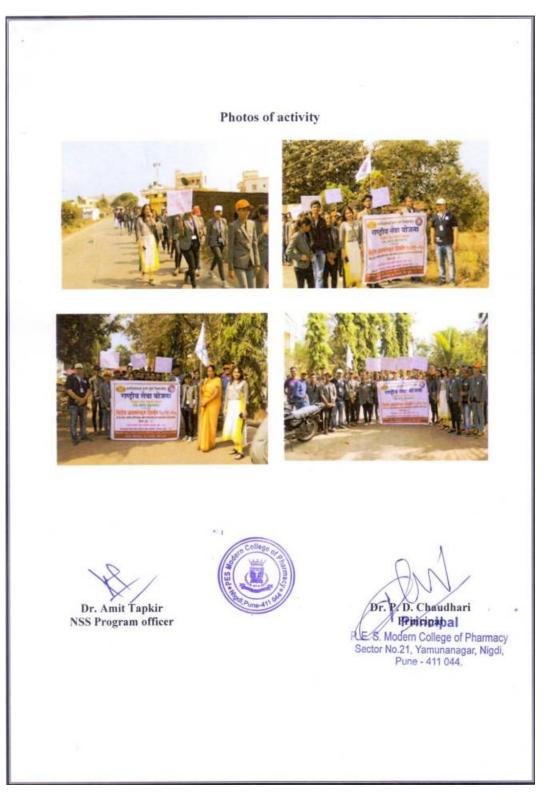






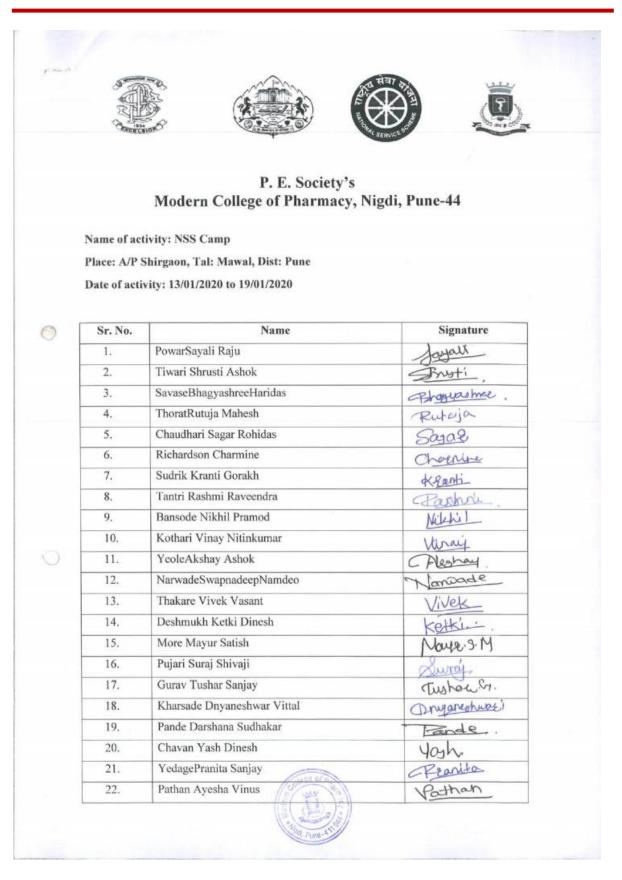


Photos of Clean India Mission Awareness rally dated 14/01/2020













	23.	DhongadeJanhavi Satish	Janhaw'i Phogade
	24.	Jadhav Nikita Yashwant	Vilita-
	25.	Mahadik Monika Sanjay	Maniko-M.
	26.	Gujare Ashwini Gangadhar	Ashwini
	27.	Pawar Sayali Suresh	Savali
	28.	Dhat Vaishnavi Shriram	Vaishnewi
	29.	MahadikIndrani Raman	Abdik
	30.	Agarwal Saloni Manish	Gabori
	31.	KarambelkarAaryaAvinash	Barya
	32.	Shinde Vaishali Rajkumar	Vaishali.
_	33.	Ransing Vaishnavi Sunil	Vauhravi
9	34.	Jadhav Gayatri Somanath	Grayon
	35.	Choudhary Bharti Jagdish	Ber
	36.	Amritkar Akanksha Praveen	Aleaneba
	37.	Abhang Siddhi Dnyaneshwar	Arddhi.
	38.	WaghPranjal Ashok	Franjal
	39.	HajarePratikshaKantilal	C-Pratikiha
	40.	Choure Saurabh Kailas	Sturable
	41.	Deshpande Urvi Vijay	Tespande
	42.	Shirke Disha Ajay	Duba
	43.	Suryawanshi Pooja Prakash	Poija
B	44.	Naykinde Sandhya	Sandhya
0	45.	Andre Rutuja Sunil	Rotujas
	46.	Ratnaparkhi Aniket Girishrao	Anikat
	47.	Sawant Nitesh Shankar	Mitch
	48.	Padale Neha Madan	Nedale
	49.	Shaikh Sufiyan Mohamadaslam	dufiyan
	50.	Pawar Siddhant Deepak	Deepak P.

Dr. A. S. Tapkir NSS program officer





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20. Gram Swachhta Abhiyaan Report:

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2019-20

Date: 06/01/2020

NOTICE

All the NSS volunteers for the year 2019-20 are hereby informed that NSS SPECIAL CAMP for this year is arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 13th January 2020 to 19th January 2020. Interested volunteers those who have enrolled for the year 2019-20 as NSS volunteers can enroll their names to undersigned before 09/01/2020.

Total no. of volunteers to be enrolled for camp are: 50

Sequence of preference to be enrolled

- 1) Final year Students
- 2) Third year students
- 3) Second year students

Further details of the camp will be notice soon.

Dr. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer

Programme Officer National Service Scheme (N95) Modern College of Pharmacy Nigdi, Pune - 411044.

Dr. P. D. Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Yamunanager, Sector No.21, Nigdi, una - 411 044.

VATIONAL

SERVICE

SCHEME

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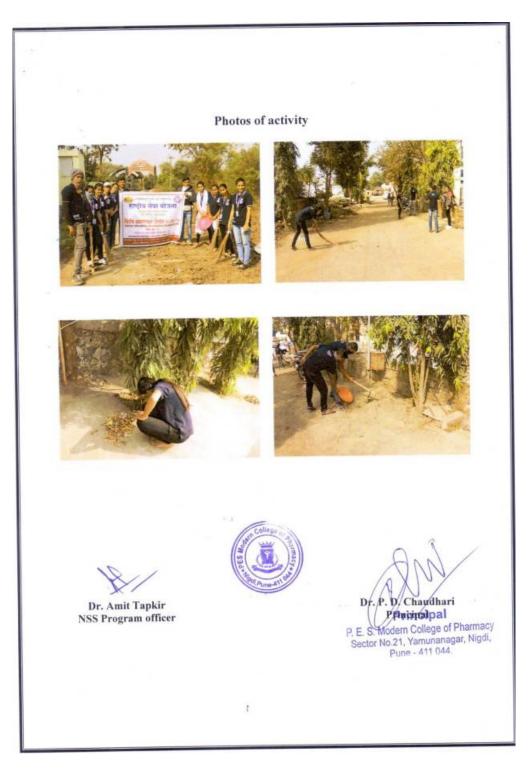




		P. E. Society's
	Modern Co	ollege of Pharmacy, Nigdi, Pune-44
	NSS CA	MP ACTIVITY REPORT 2019-2020
1.	Name of activity	Gram swachataAbhiyan
2.	Date of activity	15/01/2020
3.	Time	7.30 am to 12.00pm
4.	Total no students participate	50
5.	Occasion of activity	NSS camp activity
6.	Inauguration by	Students and Villagers
7.	Place of activity	At post Shirgaon Tal. Mawal, Dist Pune.
8.	Objectives of activity	To clean the premises of At post Shirgaon Tal. Mawal, Dist Pune. To make the students aware about the cleaning.
9.	Outcome of activity	ShirgaonPremiseshas been free from unwanted dusty materials and students got idea regarding importance of cleaning activity to keep good environment.
10.	Activity co- coordinator	Dr. Amit Tapkir
		Jain College or of
		((Sil (Sil ())))
		and a state of the



Photos of gram Swachata Abhiyaan dated 15/01/2020







sa./1			B
		P. E. Society's Modern College of Pharmacy	
	Name of ac	tivity: NSS Camp	
		Shirgaon, Tal: Mawal, Dist: Pune	
		vity: 13/01/2020 to 19/01/2020	
0	Sr. No.	Name	Signature
	1.	PowarSayali Raju	Jayall
	2.	Tiwari Shrusti Ashok	Brusti
	3.	SavaseBhagyashreeHaridas	Phoppasmee.
	4.	ThoratRutuja Mahesh	Rutaja
	5.	Chaudhari Sagar Rohidas	Saga &
	6.	Richardson Charmine	Charrise
	7.	Sudrik Kranti Gorakh	K. Canti
	8,	Tantri Rashmi Raveendra	Bashry.
	9.	Bansode Nikhil Pramod	Nilehi !
	10.	Kothari Vinay Nitinkumar	Vieraij
).	11.	YeoleAkshay Ashok	C Aleshay
	12.	NarwadeSwapnadeepNamdeo	Nanwade
	13.	Thakare Vivek Vasant	Vivek
	14.	Deshmukh Ketki Dinesh	ketkin.
	15.	More Mayur Satish	Noye.S.M
	16.	Pujari Suraj Shivaji	Surces
	17.	Gurav Tushar Sanjay	Tushow Cr.
	18.	Kharsade Dnyaneshwar Vittal	Druganeshuez!
	19.	Pande Darshana Sudhakar	Fande.
	20,	Chavan Yash Dinesh	Yosh.
	21.	YedagePranita Sanjay	CREENite
	22.	Pathan Ayesha Vinus	Pathan





	23.	DhongadeJanhavi Satish	Janhav'i Dhegade
	24.	Jadhav Nikita Yashwant	Dileta
	25.	Mahadik Monika Sanjay	Maniko M.
	26.	Gujare Ashwini Gangadhar	Ashwini
	27.	Pawar Sayali Suresh	Sayali
	28.	Dhat Vaishnavi Shriram	Vaishrani
	29.	MahadikIndrani Raman	Abdik
	30.	Agarwal Saloni Manish	Galoni
	31.	KarambelkarAaryaAvinash	Aarya
	32.	Shinde Vaishali Rajkumar	Vaishali.
	33.	Ransing Vaishnavi Sunil	Vaishnavi
9	34.	Jadhav Gayatri Somanath	Grayoth
	35.	Choudhary Bharti Jagdish	Ber
	36.	Amritkar Akanksha Praveen	Aleanshe
	37.	Abhang Siddhi Dnyaneshwar	Arddh'i.
	38.	WaghPranjal Ashok	Franja
	39.	HajarePratikshaKantilal	Fratiksha
	40.	Choure Saurabh Kailas	Aurable
	41.	Deshpande Urvi Vijay	Tesparde
	42.	Shirke Disha Ajay	Duba
	43.	Suryawanshi Pooja Prakash	Poija
0	44.	Naykinde Sandhya	Sandhya
	45.	Andre Rutuja Sunil	addingas
	46.	Ratnaparkhi Aniket Girishrao	Anikot
	47.	Sawant Nitesh Shankar	Witch
	48.	Padale Neha Madan	NBobale
	49.	Shaikh Sufiyan Mohamadaslam	dufiyan
	50.	Pawar Siddhant Deepak	Deepake P.

Dr. A. S. Tapkir NSS program officer



Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index



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21. Tree plantation Report:

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2019-20

Date: 06/01/2020

NOTICE

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- 3) Second year students

Further details of the camp will be notice soon.

Dr. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer

Programme Officer National Service Scheme (N95) Modern College of Pharmacy Nigdi, Pune - 411044.

Dr. P. D. Chaudhari

Principal Principal P. E. S. Modern College of Pharmacy

Yamunanager, Sector No.21, Nodi,

Puna - 411 044.

NATIONAL

SERVICE

SCHEME

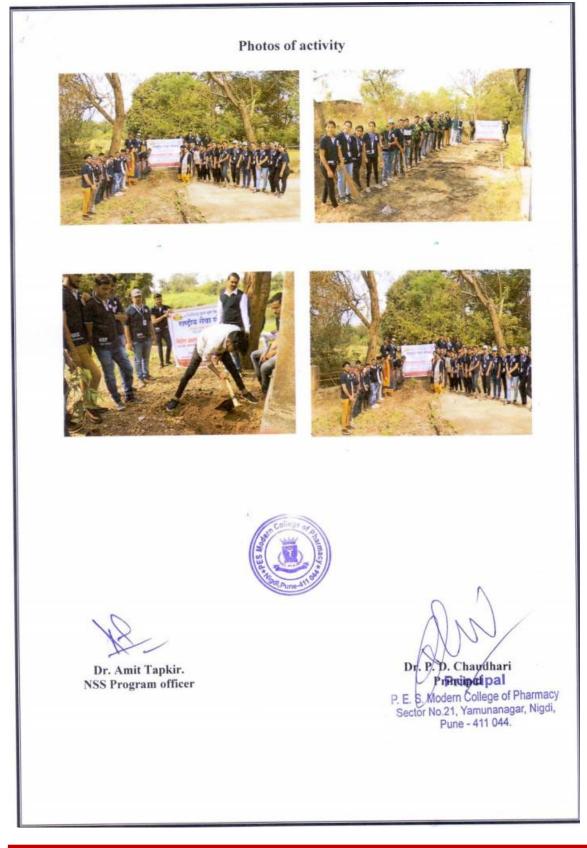
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	 Name of activity Date of activity
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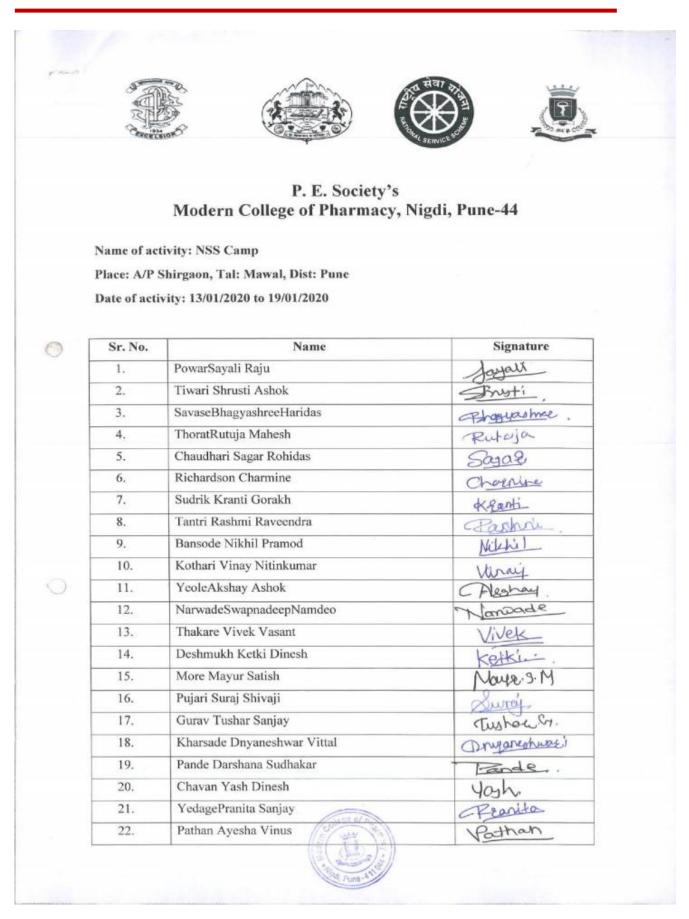
Photos of Tree plantation dated 16/01/2020



Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index











	23.	DhongadeJanhavi Satish	Janhav'i Phogand
	24.	Jadhav Nikita Yashwant	Uilita_
0	25.	Mahadik Monika Sanjay	Maniko-M.
	26.	Gujare Ashwini Gangadhar	Ashwini
	27.	Pawar Sayali Suresh	Sayali
	28.	Dhat Vaishnavi Shriram	Vaishnewi
	29.	MahadikIndrani Raman	Maik
	30.	Agarwal Saloni Manish	Galori
	31.	KarambelkarAaryaAvinash	Aarya
	32.	Shinde Vaishali Rajkumar	Vaishali.
	33.	Ransing Vaishnavi Sunil	Vauhravi
	34.	Jadhav Gayatri Somanath	Grayoth
	35.	Choudhary Bharti Jagdish	Ben
	36.	Amritkar Akanksha Praveen	Risansha
	37.	Abhang Siddhi Dnyaneshwar	Arddh'i.
	38.	WaghPranjal Ashok	Franjal
	39.	HajarePratikshaKantilal	Foratikiha
٩	40.	Choure Saurabh Kailas	Aurabh
	41.	Deshpande Urvi Vijay	Tesparde
	42.	Shirke Disha Ajay	Dùba
	43.	Suryawanshi Pooja Prakash	Poija
	44.	Naykinde Sandhya	Sandhya
	45.	Andre Rutuja Sunil	advijas
	46.	Ratnaparkhi Aniket Girishrao	Anikot
	47.	Sawant Nitesh Shankar	Mitch
	48.	Padale Neha Madan	NBdale
	49.	Shaikh Sufiyan Mohamadaslam	dufiyan
	50.	Pawar Siddhant Deepak	Deepak P.

Dr. A. S. Tapkir NSS program officer





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22. Sinhagadh Fort cleaning camp Report:

P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44

Date: 20/02/2020

NOTICE

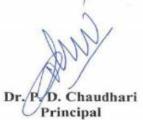
All the NSS volunteers are hereby informed that NSS Unit of the college has organised **"Sinhgad Fort Cleaning Camp & conservation of fort"** activity on **23.02.2020** at 07 am to 07 pm

Note:

All interested participants are informed to report before 6:50am at Sinhgad fort.

Dr. A. S. Tapkir NSS Program Officer





Principal P.E.S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdl, Pune - 411 044.





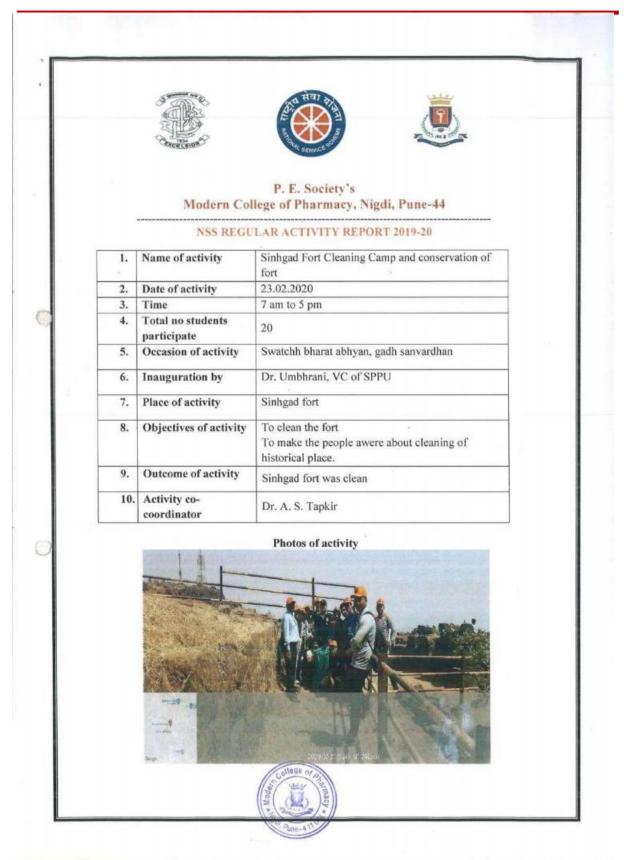
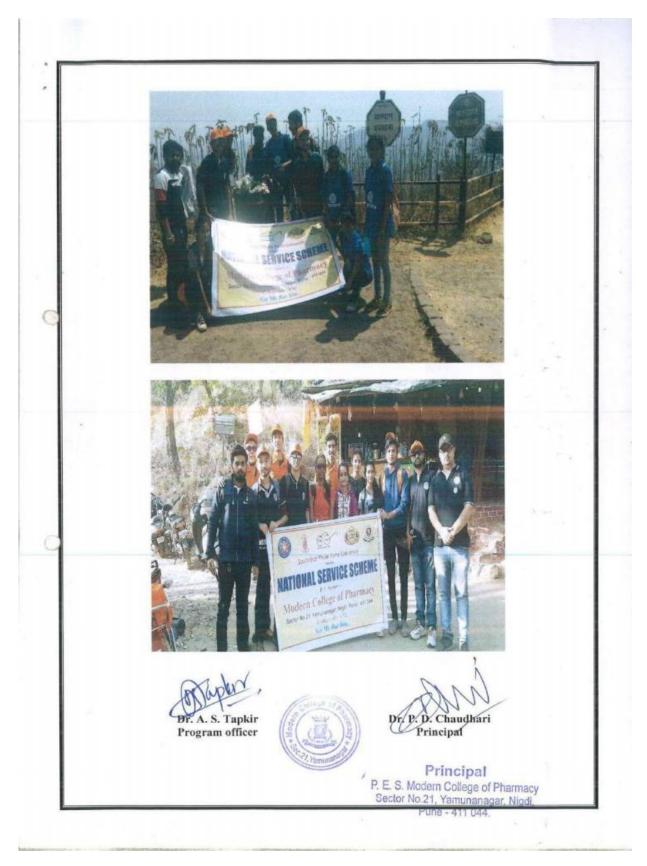


Photo of Sinhagadh Fort cleaning camp dated 23/02/2020



Photo of Sinhagadh Fort cleaning camp dated 23/02/2020













23. Swachha Bharat Abhiyaan- Ratangadh, Kalsubai camp Report:

P. E. Society's Modern College of Pharmacy, Nigdi, Pune-44

Date: 10/02/20.20

NOTICE

All the NSS volunteers are hereby informed that NSS Unit of the college is going to participate in University level "Swacha Bharat Abhiyan", Ratangad, Kalsubal Camp" on 17.02.2029 to 23.02.2020 interested volunteers are informed to give their names at NSS Office before 12/02/2014

A. S. Tapkir **NSS Program Officer**



Dr. P/D. Chaudhari Principal Principal E.S. Modern College of Pharmacy List No 21, Yumunanagar, Nigd, Puna - 411 044,



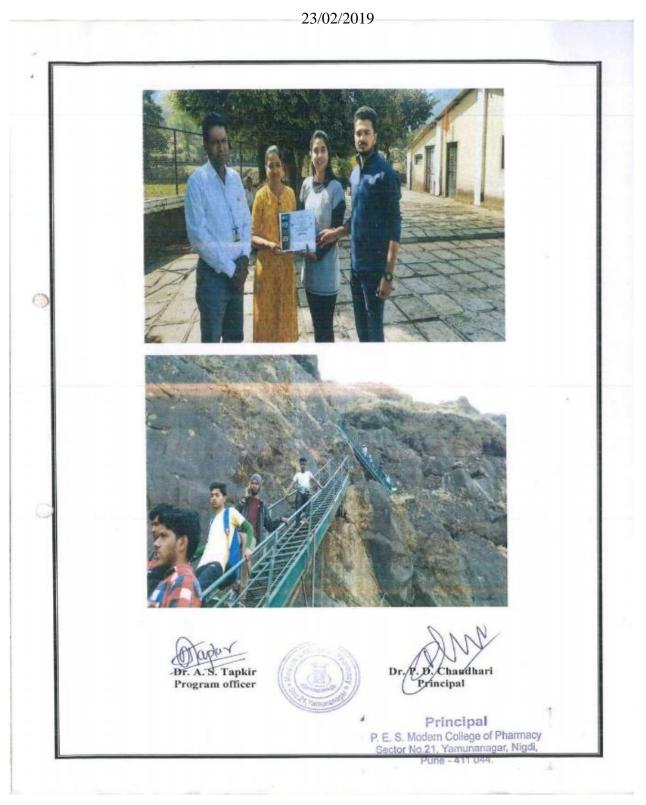


		邈		
		Modern Co	P. E. Society's lege of Pharmacy, Nigdi, Pane-44	
		NAS REGI	LAR ACTIVITY REPORT 2019-20	
	- he	Name of activity	"Swacha bharst Abbiyan", Ratingted, Kalsabai uamp university level residential comp	
	1.	Date of activity	17.02.202.010 21.02.202.0	1
	3.	Time	Residential camp	
	4	Total ne stadents participate		
1.00	1.5	Gerasion of activity		
	6.	Inauguration by	Dr. D. Y. Paul ACS College, Pingmi, Pane & Dr. D.Y. Paul ACS College, Akardi, Pane	
EU	. Tr.	Place of activity	Ratarwadi, Kahabai Szest, Tq: Akole , Dist- Ahenobragar.	
	1.15	Objectives of activity	Swacha Sharat Abhryan	
		Outcome of activity	To create awaysees amongst the students. The ratanged fort was cleaned by NSS volunteers.	
	10.	Activity ca-	Dr. A. S. Tapicir	
			Photos of activity	

Photos of Swachha Bharat Abhiyaan- Ratangadh, Kalsubai camp dated 17/02/2020-23/02/2020



Photos of Swachha Bharat Abhiyaan- Ratangadh, Kalsubai camp dated 17/02/2019-







-	2019-2020	CY, NIGDI, PUNE-44 IDANCE
	Name Of Activity: Swatchh Bha Date of Activity: 17.02.201.000	unu Abbisan (Rajary acl. 23.02.2020 (Kajasubai Camp)
Sr. No	Name of Student	Sign
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3.	Onkor oher	Secore.
4.	Priatiksha Jadhav	-reditates





2018-19





P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

Date: 09/01/2019

NOTICE

All the teaching and non teaching faculty members are hereby informed that Special winter camp of NSS volunteers of Modern College of Pharmacy, Nigdi will be arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 14th January 2019 to 20th January 2019.

Attached listed student of Second year, Third year and Final year B. Pharm are selected for above camp, you are informed that consider their attendance on above period.

This is for your information and necessary action.

Dr. P. D. Chaudhari Principalncipal

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 111 044. Copy to.

- 1. Academic section
- 2. Exam Section
- 3. Final Year B. Pharm Class Teachers
- 4. Third Year B. Pharm Class Teachers
- 5. Second Year B. Pharm Class Teachers





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P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

Date: 09/01/2019

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS for this year is arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 14th January 2019 to 20th January 2019. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display and circulate soon.

Thanking you.

Prof. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer



Dr. P. D. Chaudhari Principal Incl

P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.

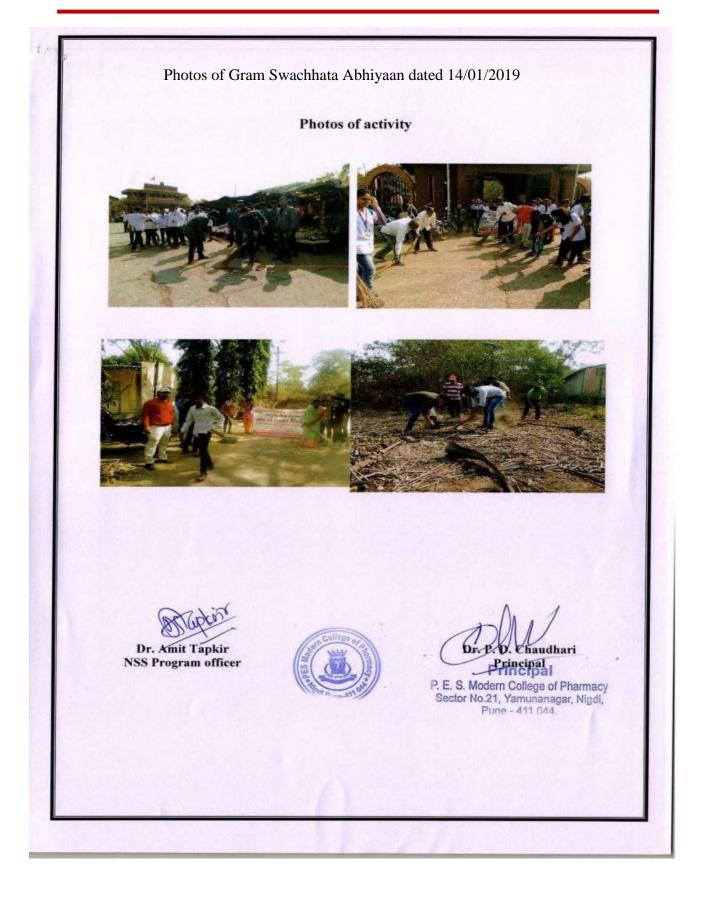




	Breaking	TOUR SERVICES
	Modern C	P. E. Society's ollege of Pharmacy, Nigdi, Pune-44
	NSS CA	MP ACTIVITY REPORT 2018-2019
1.	Name of activity	Gram swachata Abhiyan
2.	Date of activity	14/01/19
3.	Time	7.30 am to 12.00pm
4.	Total no students participate	50
5.	Occasion of activity	NSS camp
6.	Inauguration by	Dr. P. D. Chaudhari
7. 8. 9.	Place of activity Objectives of activity Outcome of activity	At post Shirgaon Tal. Mawal, Dist Pune. 1. All Road and Street 2. Schools 3. Colleges 4. Grampanchayat 5. Prarthanasthal 6. Cremation ground (Shamashanbhumi) etc 7. River etc. To clean the premises of At post Shirgaon Tal. Mawal, Dist Pune. To make the students aware about the cleaning. Shirgaon Premises has been free from unwanted dusty materials and students got idea regarding importance of cleaning activity to keep good environment.
10.	Activity co- coordinator	Dr. Amit Tapkir











		1					College	1. 1 22
			Natio	onal Service Sc	heme		College co	de: A-32
				mp Attendance	e - Morning			
Name	of the college: Modern Colleg	e of Pharmacy, Nig	gdi Pune-44					
Camp	of Camp Place: A.P. Shirgaor Date: 14/01/19 to 20/01/19	1, Talmaval, Dist.	- Pune,					
Sr.No.	Name Of NSS Volunteers	14/01/2019	15/01/2019		1	1	1	11
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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index



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25. Plastic free India, Samartha Bharat Abhiyaan Report:

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

Date: 09/01/2019

NOTICE

All the teaching and non teaching faculty members are hereby informed that Special winter camp of NSS volunteers of Modern College of Pharmacy, Nigdi will be arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 14th January 2019 to 20th January 2019.

Attached listed student of Second year, Third year and Final year B. Pharm are selected for above camp, you are informed that consider their attendance on above period.

This is for your information and necessary action.

r. P. D. Chaudhari

Principalncipal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 111 044.

Copy to.

- 1. Academic section
- 2. Exam Section
- 3. Final Year B. Pharm Class Teachers
- 4. Third Year B. Pharm Class Teachers
- 5. Second Year B. Pharm Class Teachers







P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

Date: 09/01/2019

NOTICE

All teaching and non teaching faculty members are hereby informed that WINTER SPECIAL CAMP of NSS for this year is arranged at At post Shirgaon Tal. Mawal, Dist Pune, from 14th January 2019 to 20th January 2019. All teaching staff members are requested to share the own views, ideas on any activity related to NSS, patriotism, personality development, safety training, safety of health related camp, with the NSS volunteers in the camp and cooperate for conducting the camp. Your suggestions if any are welcome. The scheduled of the activities/collaborative projects in the camp will be display

Thanking you.

and circulate soon.

Prof. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer



PID D Chaudha Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi,

Pune - 411 044.

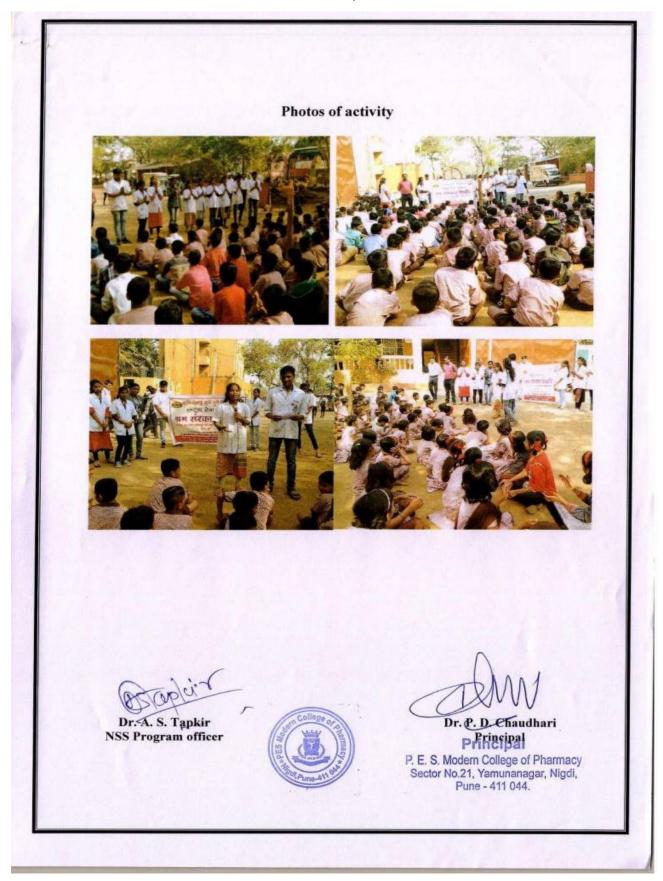




	Creetiston	GIAL SERVICE SO
	Modern C	P. E. Society's ollege of Pharmacy, Nigdi, Pune-44
	NSS CA	MP ACTIVITY REPORT 2018-2019
1.	Name of activity	Sessions on:
		1. Plastic free India
	2.5	2. Samarth Bharat Abhiyan
		3. SakshamYuvaAbhiyan
2.	Date of activity Time	18/01/2019 8 00 to 11 00
3. 4.	Total no students	8.00 to 11.00
	participate	50
5.	Occasion of activity	NSS Camp
6.	Inauguration by	Dr. A. S. Tapkir
7.	Place of activity	At post Shirgaon Tal. Mawal, Dist Pune
8.	Objectives of activity	To make the orphanage students aware about use of cloth
		bags instead of plastic bags and plastics drawbacks. To awareorphanage students for being responsible for
		development of nation.
		To awareorphanage students regarding the actual work and
		dedication required by young generation for ruler society
0	Onterna de la tra	development
9.	Outcome of activity	Orphanagestudents got idea regarding hazards effect of plastic on environment.
		Many orphanage students has been motivates for
		development of nation.
		Orphanage students realized the importance of hard work
		and dedication required for developing ruler society.
10.	Activity co- coordinator	Dr. A. S. Tapkir.
		Collage of Anthe



Photos of Plastic free India, Samartha Bharat Abhiyaan dated 18/01/2019







			Special Ca	onal Service Sci mp Attendance	- Morning			
A COMPANY OF	of the college: Modern College of Camp Place: A.P. Shirgaon Date: 14/01/19 to 20/01/19	e of Pharmacy, Nig , Talmaval, Dist.	di Pune-44 – Pune.					
Sr.No.	Name Of NSS Volunteers	14/01/2019	15/01/2019	16/01/2019	17/01/2019	18/01/2019		
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27.	Rathod Shital Ganpat	S.H.Jatsuk	S.H.Pasule	S.H.Parsule	S.H.Patsule	5-H.Patsute	SH. Patsute	S.H.Patsi
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	of the college: Modern College of Camp Place: A.P. Shirgaon, Date: 14/01/19 to 20/01/19	of Pharmacy, Nigd Talmaval, Dist	Special Can	nal Service Sch np Attendance-	eme Morning		College cod	le: A-32
Sr.No.	Name Of NSS Volunteers	14/01/2019	15/01/2019	16/01/2019	17/01/2019	10/01/2010		
41.	Choudhary Radhika N.	Walking-	- alitaly	hite	A	18/01/2019	19/01/2019	20/01/2019
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	of the college: Modern College of Camp Place: A.P. Shirgaon, Date: 14/01/19 to 20/01/19	, Talmaval, Dist.	gdi Pune-44 – Pune,					
Sr.No.	Name of NSS Volunteers	14/01/2019	15/01/2019	16/01/2019	17/01/2019	10.001.0010		1
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T AND DE L	of the college: Modern College of Camp Place: A.P. Shirgaon, Date: 14/01/19 to 20/01/19	of Pharmacy, Nig Talmaval, Dist.						
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41.	Choudhary Radhika N.	Subhe	RUTE		17/01/2019	18/01/2019	19/01/2019	20/01/2
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Dr. Amit S. Tapkir NSS Po Programme Officer Netional Service'Scheme (NSS) Modern College of Pharmacy Nigdi, Pune - 411044,

P. E. Schart College of Phermetry Yamunansgar, Sactor No.21, Nigd, Pune - 411 044.







26. Street play on topic Swachha Bharat Report:

P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

Date: 09/01/2019

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This is for your information and necessary action.

Dr. P. D. Chaudhari Principalncipal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 111 044. Copy to.



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P. E. Society's Modern College of Pharmacy, Nigdi. Pune-44 National Service Scheme 2018-19

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Thanking you.

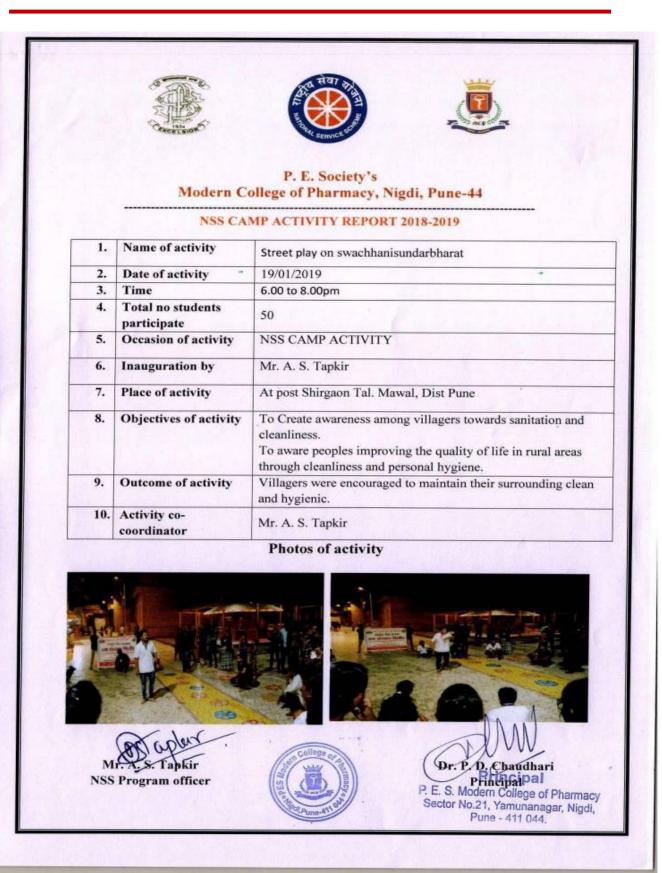
Prof. A. S. Tapkir Prof. A. G. More N.S.S. Programme officer



Dr/P/A Chaudhari Principal

Principal P. E. S. Modern College of Pharmacy Sector No.21, Yamunanagar, Nigdi, Pune - 411 044.





Photos of Street play on topic Swachhaaani Sundar Bharat dated 19/01/2019





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	of the college: Modern College of Camp Place: A.P. Shirgaon, Date: 14/01/19 to 20/01/19	of Pharmacy, Nig Talmaval, Dist	Special Ca	nal Service Scl mp Attendance	ieme e- evening		College cod	le: A-32
Sr.No.	Name of NSS Volunteers	14/01/2019	15/01/2019	16/01/2019	1201-0010	T		
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Dr. Amit S. Tapkir NSS Po Programme Officer Netional Service'Scheme (NSS) Modern College of Pharmacy Nigdi, Pune - 411044,

P. E. Schart College of Phermetry Yamunansgar, Sactor No.21, Nigd, Pune - 411 044.





Sustainable Practices:

Sustainable Practices:

Institute adopt sustainable practices within their own operations. This include implementing energy-efficient measure like using eco-friendly transportation options. Institute encourages students to maximize use of public transport and has CNG bus facility for Pharm D hospital visits.

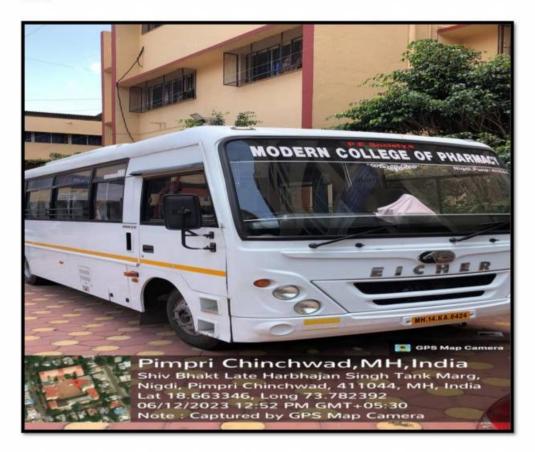




Photo of CNG bus



7.1.3: Policy Document on Environment and energy usage certificates from auditing agency.





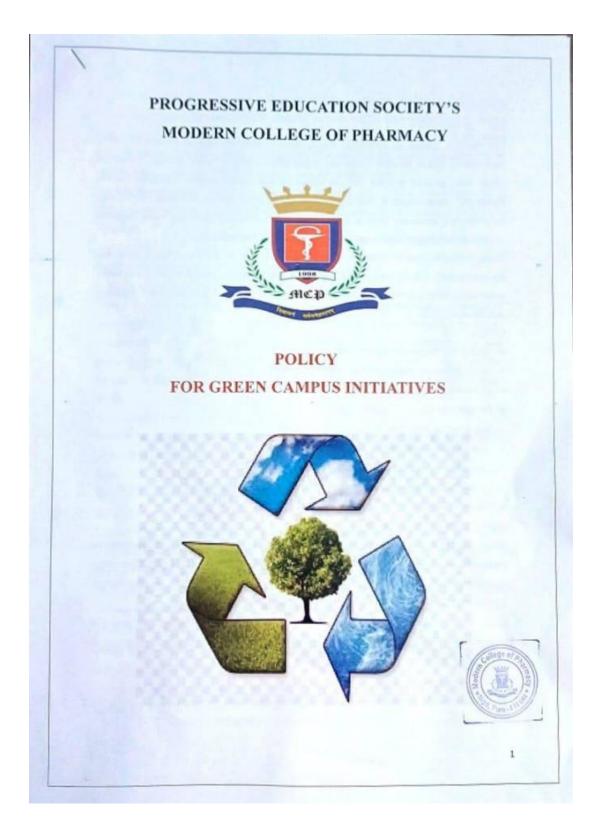
7.1.3: Policy Document on Environment and energy usage certificates from auditing agency.

INDEX

1	Policy Document on environment and energy usage
2	Certificates from auditing agency
	2022-23
	2021-22
	2020-21
	2019-20
	2018-19



1. Policy Document on environment and energy usage





GREEN CAMPUS INITIATIVES POLICY PREAMBLE

The Modern College of Pharmacy, Nigdi, Pune, outline its support for environmental sustainability and responsible energy use in this policy paper. A "green campus" is a setting where environmental practise and instruction coexist. Green campus initiatives include purchasing environmentally friendly equipment, utilising natural resources, developing environmental awareness through extracurricular activities, and removing waste materials using proper segregation techniques without harming the environment.

These Strategies must be included in institutional planning in order to create a clean and environmentally friendly campus. The goals of this policy are to develop an environmentally sustainable campus and promote environmental stewardship among faculty, staff, students, and the community.

OBJECTIVE

- To take energy conservation measures
- To identify and segregates different types of waste.
- · To make the campus plastic free.
- · To minimize the use of paper
- · To encourage students to keep environment clean.
- · To use rain water harvesting for water conservation
- · To conduct green and energy audits from time to time.
- To conduct awareness programmes for environmental issues in and out of the campus.
 ENVIRONMENTAL POLICY OF THE COLLEGE

Energy Use and Conservation

Solar power plant: The institution has facilities of Roof-top Solar Plants of 12 kVA capacity as alternate sources of energy, which is useful for the power requirement of institute's low range equipment's like lights, fans etc. LED bulbs are mostly used in campus to save energy. Electric and electronic equipment's are turned off after usage

Usage of LED Bulbs: LED and CFL bulbs are installed in the institution to conserve electricity and therefore energy. Power output of solar panels is used to supply electricity to LED and CFL bulbs.

Waste Management

Solid Waste Management: Waste should collect on a daily basis from various sources. Colour coded dustbins are used for different types of wastes. Students and staff are





educated on proper waste management practices through lectures, advertisement on notice boards, displaying slogan boards in the campus. Institute has tie ups with the local municipal corporation (PCMC) and in support with them institute manages the solid and liquid waste and hazardous chemicals waste management. For **Biomedical waste management**The institute has a tie up with PASSCO environmental solutions, Pimpri.

E-waste management: Old monitors and CPUs should be repaired by technician and reused. The institute has MOU with the ECA (Environment Conservation Association) for e waste collection.

Ban on Single-use Plastics on the Campus

Institute has banned the single use of plastic in the campus.

Paperless Operating Procedure

What's app group class wise, department wise, is prepared for e communication to reduce the usage of papers in notices and circulars. Study material is shared on e-platform and e - assignment is given to students in skill-based tutorial classes like presentation to avoid massive use of papers.Different software like ERP software for office work ,Autolibfor library, VM edulifeas a LMS,Talley software for daily accounting is used to reduce paper work.

Landscaping with Trees and Plants

Institute has medicinal Garden where variety of medicinal plants are cultivated and nurtured so it help to clean the atmosphere.

Rainwater harvesting

Rain water from our terrace is collected and the tube wells are recharged.

Air Pollution Management Clean Air Initiatives

Restricted Use of Automobiles: College employees and students are encouraged to frequently use public transport, bicycles, electronic Vehicle to limit the emissions. CNG bus facility is provided to Pharm D students for hospital visit.

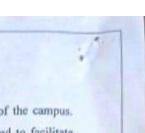
No Smoking Campus: Institute is completely free from smoke and tobacco, smoking and chewing of tobacco is strictly prohibited in the college.

Green Audit, Energy Audit, Environment Audit

Green audit, EnergyAudit, Environment Audit should be conducted on yearly basis to identify, quantify, describe and priorities a framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. Full time staff should be appointed for the maintenance of clean and Green Campus.

3





4

Organization of sensitization programmes

NSS department should organize various awareness programme in and out of the campus. Environmental promotion activity, awareness campaigns should be encouraged to facilitate effective implementation of the Green Campus, Energy and Environment policies.



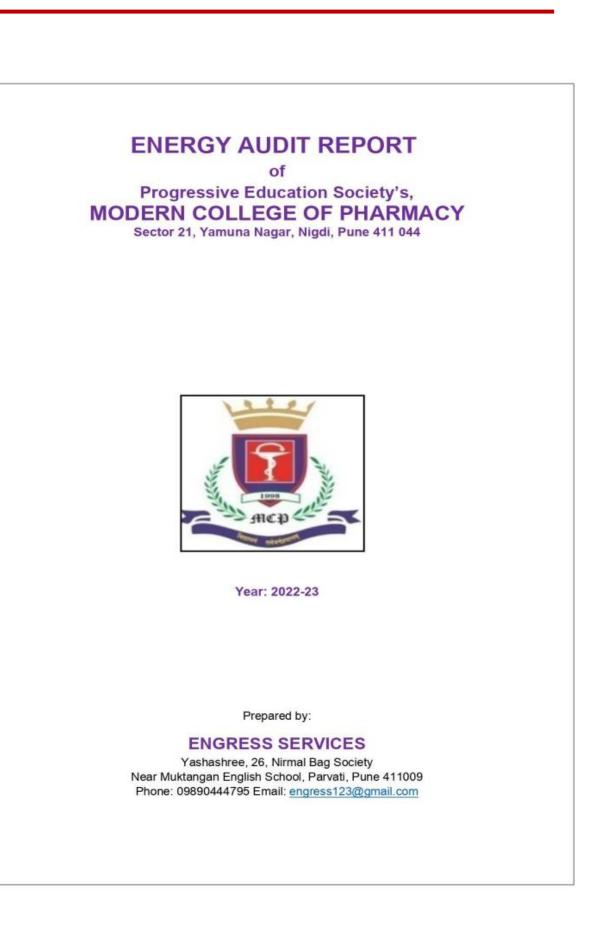
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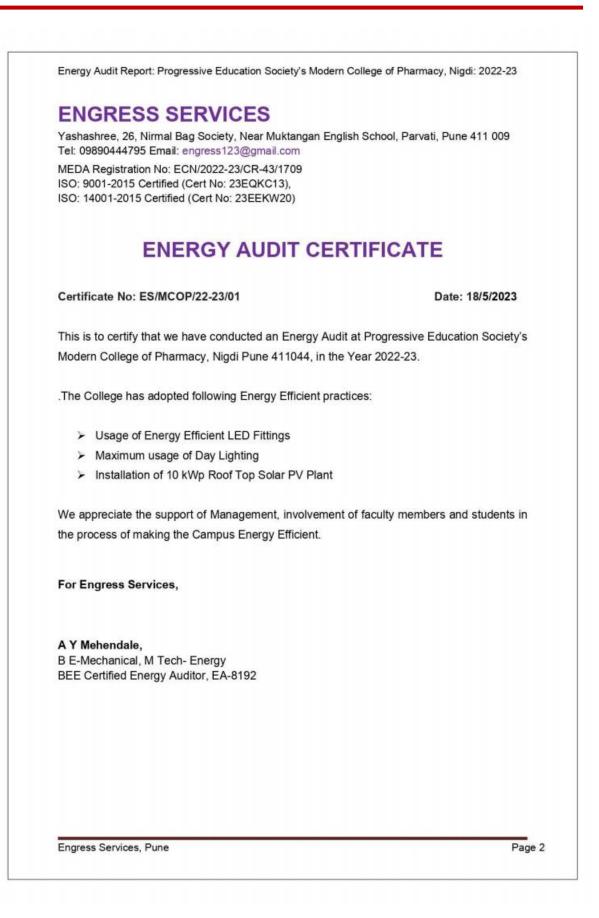
2022-23





















ENVIRONMENTAL AUDIT REPORT of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi 411 044 Year: 2022-23 Prepared by: **ENGRESS SERVICES** Yashashree, 26, Nirmal Bag Society Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: engress123@gmail.com



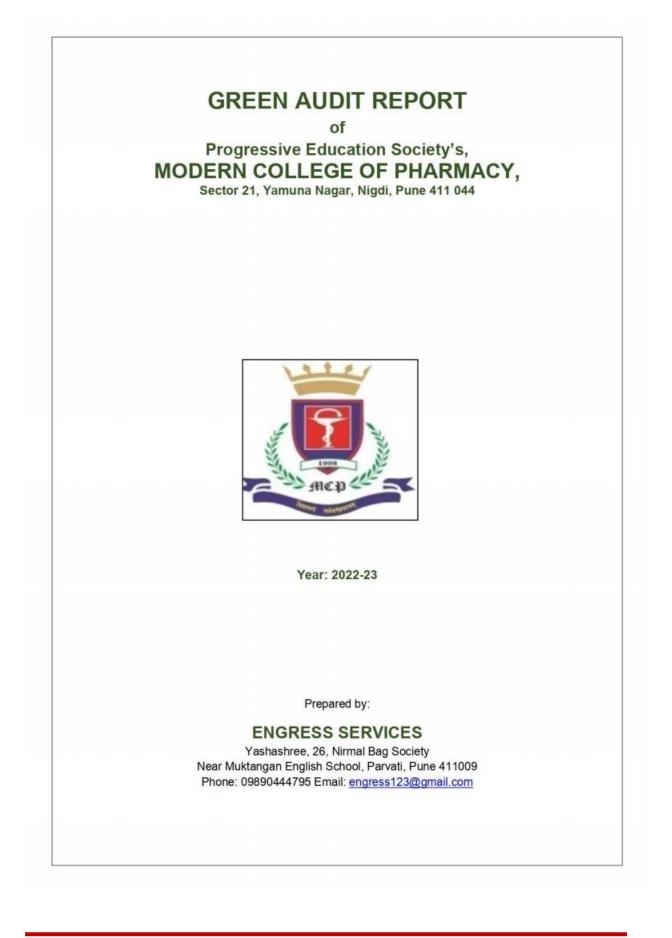


















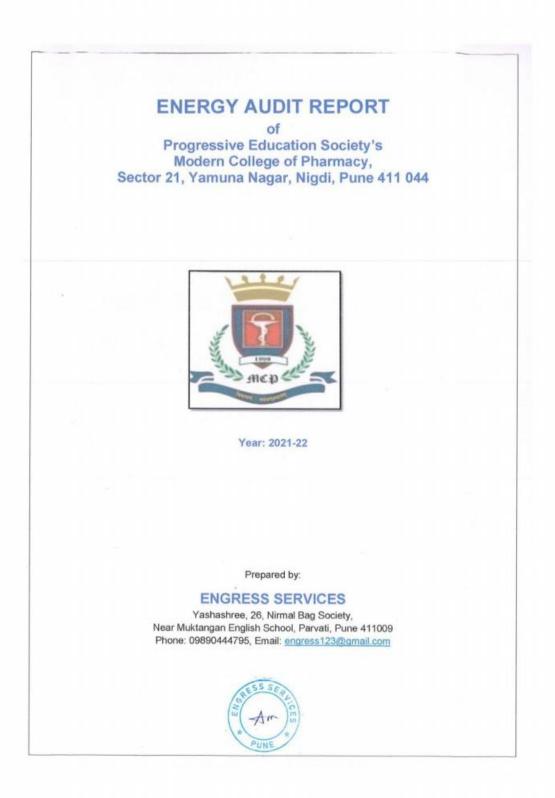






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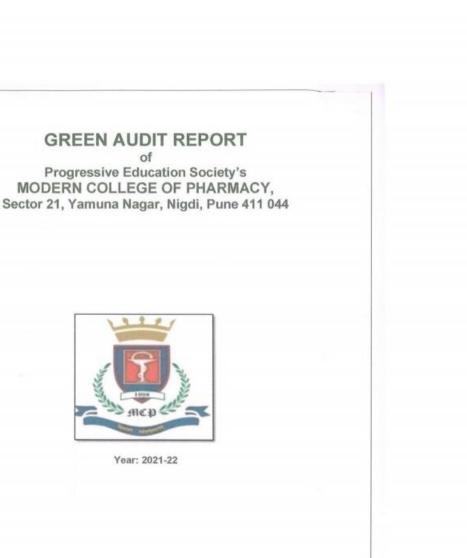


Energy Audit Report: Progressive Education Society's M	odern College of Pharmacy, Nigdi: 2021-22
ENGRESS SERVICES	
Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 Tel: 09890444795 Email: <u>engress123@gmail.com</u>	009
Ref: ES/MCOP/21-22/01	Date: 11/6/2022
CERTIFIC	ATE
This is to certify that we have conducted Energy	Audit at Progressive Education Society
Modern College of Pharmacy, Nigdi, Pune, in the A	
The College has adopted following Energy Efficien	Practices:
Usage of Energy Efficient LED Fittings	
Usage of BEE STAR Rated Energy Efficient	Equipment
Maximum usage of Day Lighting	
Installation of 10 kWp Roof Top Solar PV Pla	ant
We appreciate the support of Management, involve	ment of faculty members and students is
the process of making the Campus Energy Efficient	
For Engress Services,	ESS SE
Mehendale	See Sta
A Y Mehendale,	
Certified Energy Auditor	
EA-8192	PUNE



	MAHARASHTRA	ENERGY DEVELOPMENT AGE
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CE	RTIFICATE OF REGIS	STRATION
	FOR CLASS	'A'
MAHARASHTRA ENERG	T DEVELOPMENT AGEN	owing particulars is registered with CY (MED4) under given category as Energy Conservation Programme of
Nume and Address of the fi	rm : M/s Engress Service Yirslishree, 26, Nirm Near Multangan En	ul flag Society, glish School,
	Parvati, Pune -411	009.
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Registration Number	: MEDA/ECN/2022-2	25/Class A/EA-32.
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 MEDA reserves the rig quarterly activities performs is found incorrect. 	ght to visit at any time with ormed by the firm and cancel	out giving prior information to verify ing the registration, if the information
	ilid till 09th May, 2024 from Energy Conservation Program	the date of registration, to carry out nme
 The Director General, without assigning any re 		cancel the registration at any time
		General Manager (EC)





Prepared by:

ENGRESS SERVICES Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Punc 411009 Phone: 09890444795, Email: engress123@gmail.com

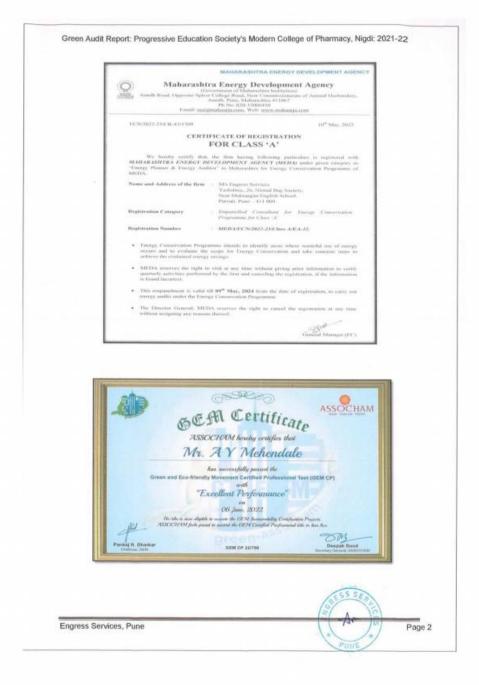




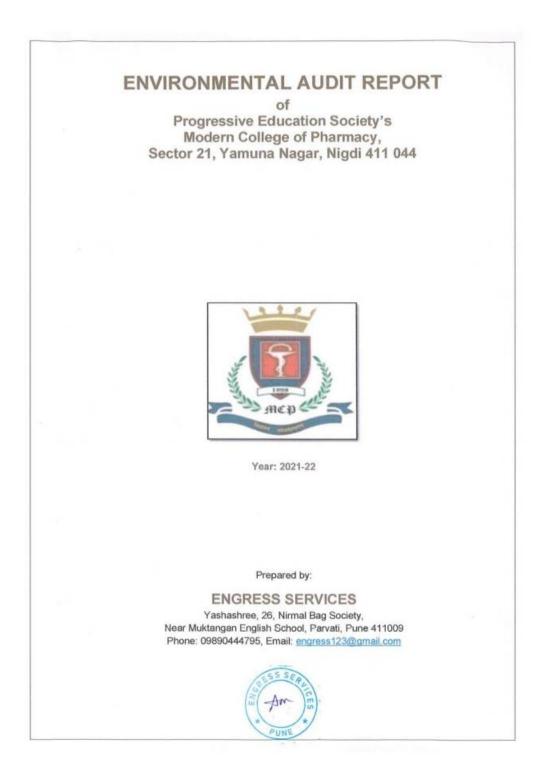


Green Audit Report: Progressive Education Society	's Modern College of Pharmacy, Nigdi: 2021-22
ENGRESS SERVICES	
Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune Tel: 09890444795 Email: engress123@gmail.c	
Ref: ES/MCOP/21-22/02	Date: 11/6/2022
CERTIF	FICATE
This is to certify that we have conducted Gre	an Audit at Progressive Education Society's
Modern College of Pharmacy, Nigdi, Pune, in th	
	no readenno jeun zez r zz.
The College has adopted following Green Initia	tives:
Usage of Energy Efficient LED Light Fit	ting
Usage of BEE STAR Rated Energy Efficiency	cient Equipment
Maximum Usage of Day Lighting	RETRAINED AT COMPLEX PROVIDED A
Installation of Roof Top Solar PV Plant	of Capacity 10 kWp
Segregation of Waste at Source	
 Provision of Sanitary Waste Incinerator 	for Sanitary Waste Disposal
Implementation of Rain Water Harvestir	ng Project
Maintenance of Good Internal Road	
Tree Plantation in the campus	
Provision of Ramp for Divyangajan	
Creation of Awareness on Resource Co	onservation, by Display of Posters
We appreciate the support of Management, inv	volvement of faculty members and students in
the process of Energy Conservation & making	the campus Green.
For Engress Services,	
Amebaidab	RESS SERL
/ · · ·	
A Y Mehendale, Certified Energy Auditor, EA-8192	
ASSOCHAM GEM Certified Professional: GEM	1: 22/788 PUNE
Engress Services, Pune	Page 3













EN	GRESS SERVICES
Near	ishree, 26, Nirmal Bag Society, Muktangan English School, Parvati, Pune 411 009 9890444795 Email: <u>engress123@gmail.com</u>
Ref: E	S/MCOP/21-22/03 Date: 11/6/2022
	CERTIFICATE
This i	s to certify that we have conducted Environmental Audit at Progressive Education Society'
Mode	m College of Pharmacy, Nigdi, Pune, in the Academic year 2021-22.
The C	ollege has adopted following Environment Friendly Initiatives:
A	Usage of Energy Efficient LED Light Fitting
7	Usage of BEE STAR Rated Energy Efficient Equipment
>	Maximum Usage of Day Lighting
7	Installation of Roof Top Solar PV Plant of Capacity 10 kWp
*	Segregation of Waste at Source
>	Provision of Sanitary Waste Incinerator for Sanitary Waste Disposal
*	Implementation of Rain Water Harvesting Project
×	Tree Plantation in the campus
A	Creation of Awareness on Resource Conservation, by Display of Posters
We a	ppreciate the support of Management, involvement of faculty members and students in th
proce	ss of Energy Conservation & making the campus Environment Friendly.
For E	ngress Services,
4	Amelaidat (3)
AYM	ehendale,
	ed Energy Auditor, EA-8192
ASSU	CHAM GEM Certified Professional: GEM: 22/788
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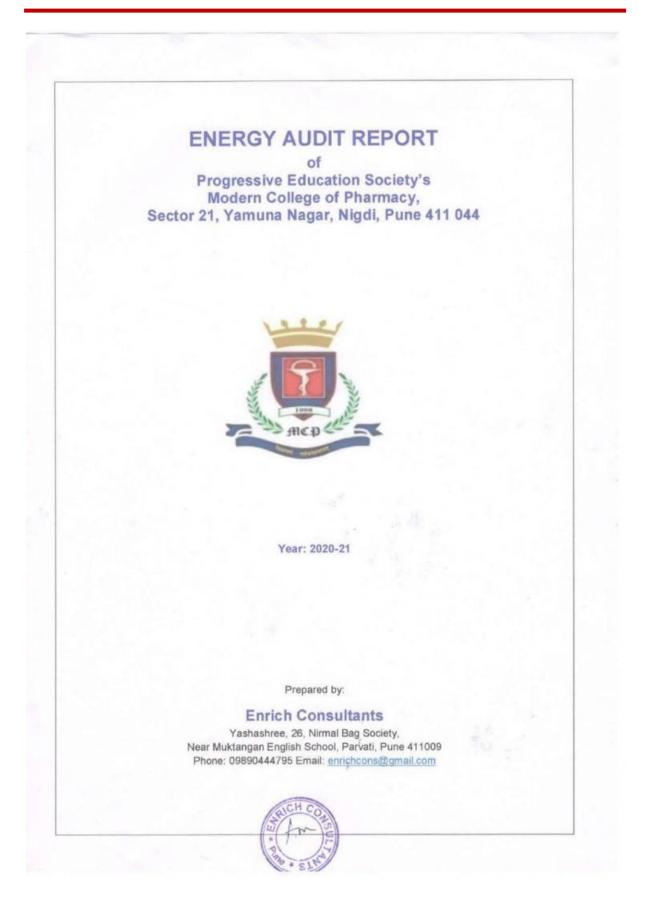




2020-21











Energy	Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21		
-			
1	MAHARASHTRA ENERGY DEVELOPMENT AGENCY		
- 1	An ISO Root 1 Stoon Plag, no. 1 RQ 311 2 MILE		
	(Government of Maharashtra Institution)		
. 1	Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary,		
1	Aundh, Pune, Maharashtra 411067 Ph No: 020-35000450		
-	Email: eee@mahaurja.com, Web: www.mahaurja.com		
	ECN/2021-22/CR-14/1577 22 nd April, 2021		
1	CERTIFICATE OF REGISTRATION		
1	FOR CLASS 'A'		
	We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as		
	"Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.		
1			
1	Name and Address of the firm : M/s Enrich Consultants Yashashree, Plot No. 26, Nirmal Bug Society,		
	Near Muktangan English School, Parvati,		
	Pune - 411009.		
	Registration Category : Empanelled Consultant for Energy Conservation Programme for Class 'A'		
	Registration Number : MEDA/ECN/2021-22/Class A/EA-03		
	 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. 		
	 MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect. 		
	 This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme 		
1	The Director General, MEDA reserves the right to cancel the registration at any time mithant animine are preserved for the second sec		
	without assigning any reasons thereof.		
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1	General Manager (EC)		
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Enrich (Consultants, Pune Page 2		
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Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21

Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>

Ref: EC/MCOP/20-21/01

Date: 01/9/2021

CERTIFICATE

This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2020-21.

.The College has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Enrich Consultants,

Amehadal

A Y Mehendale, Certified Energy Auditor EA-8192

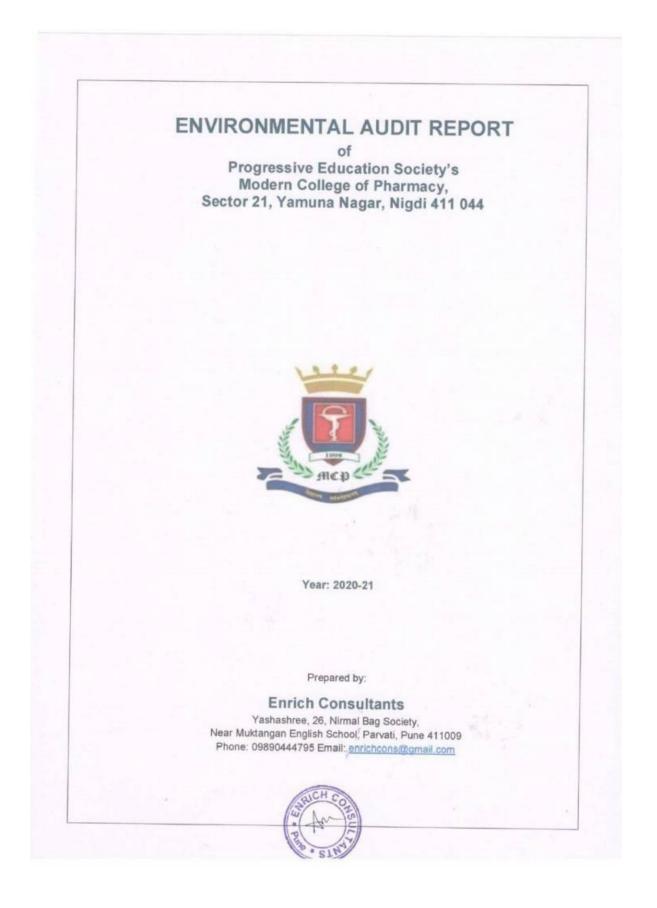


Enrich Consultants, Pune

Page 3









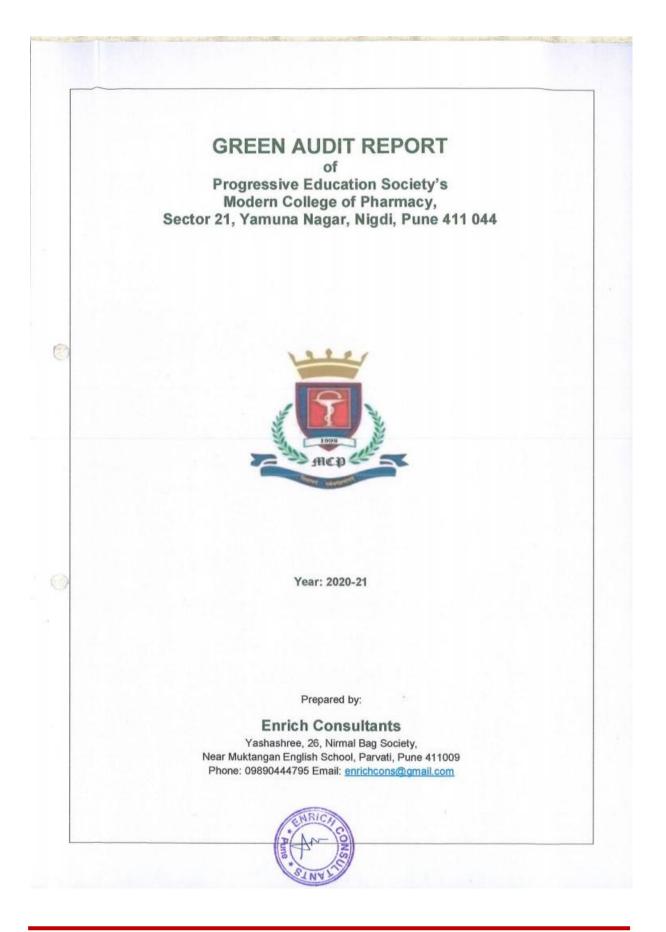


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	MAHARASHTRA ENERGY DEVELOPMENT AGENCY An ISIO IRINY : 2000 PAg. No. (RQ BY 7 2002
	Maharashtra Energy Development Agency (Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundh, Pune, Maharashtra 411067 Ph No: 020-35000450
	Email: eee@mahaurja.com, Web: www.mahaurja.com
	ECN/2021-22/CR-14/1577 22 nd April, 2021
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	 The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.
	tre_
	General Manager (EC)
-	consultants, Pune Page 2

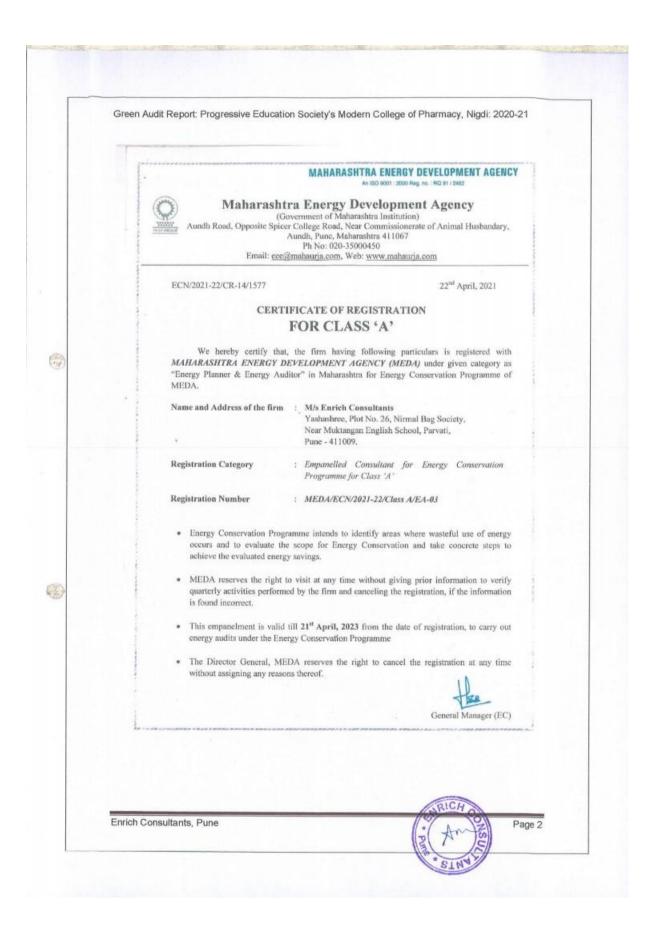




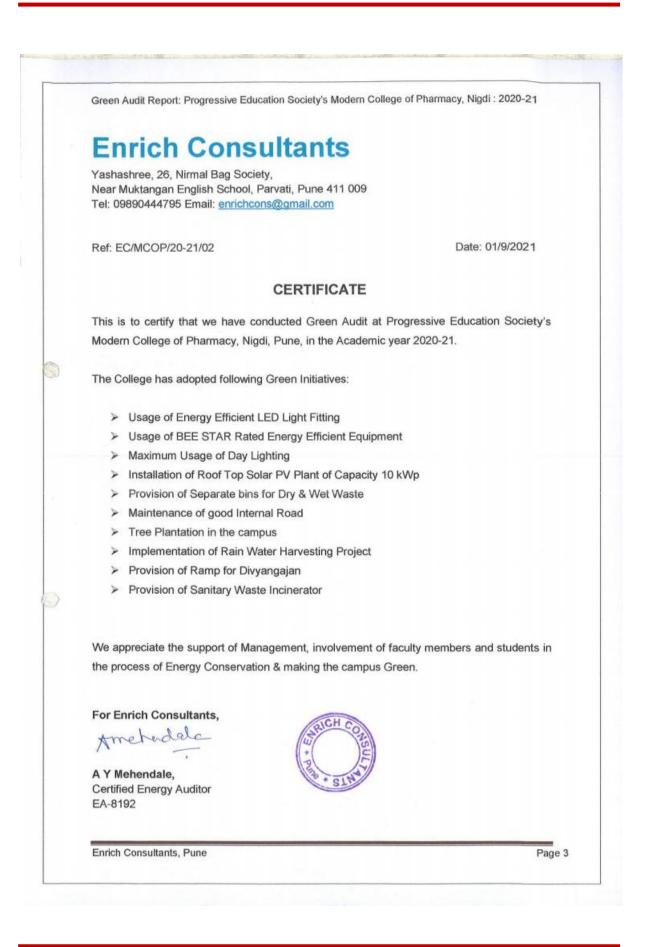










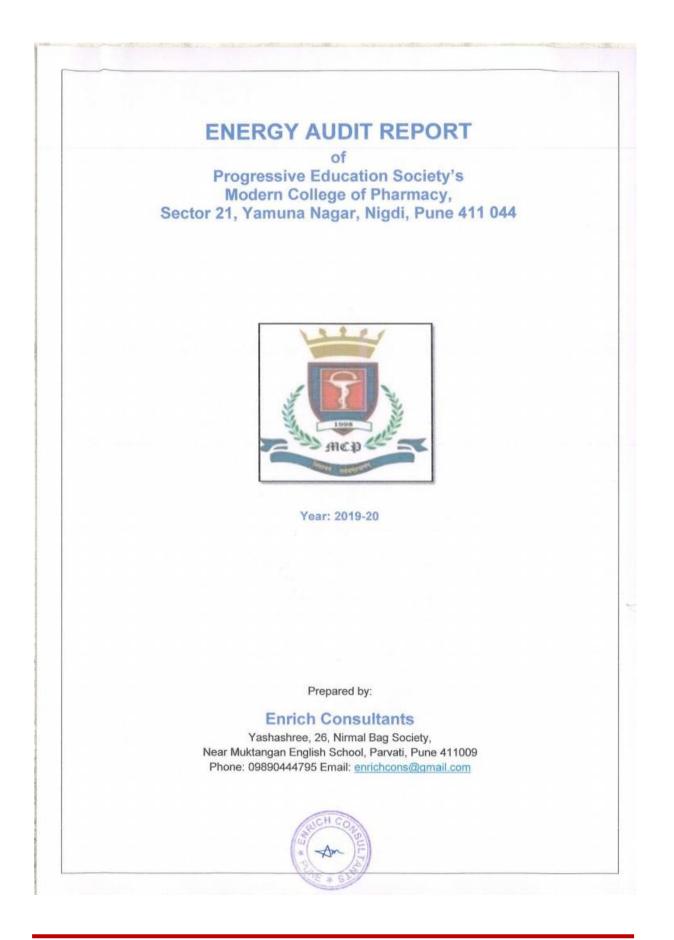








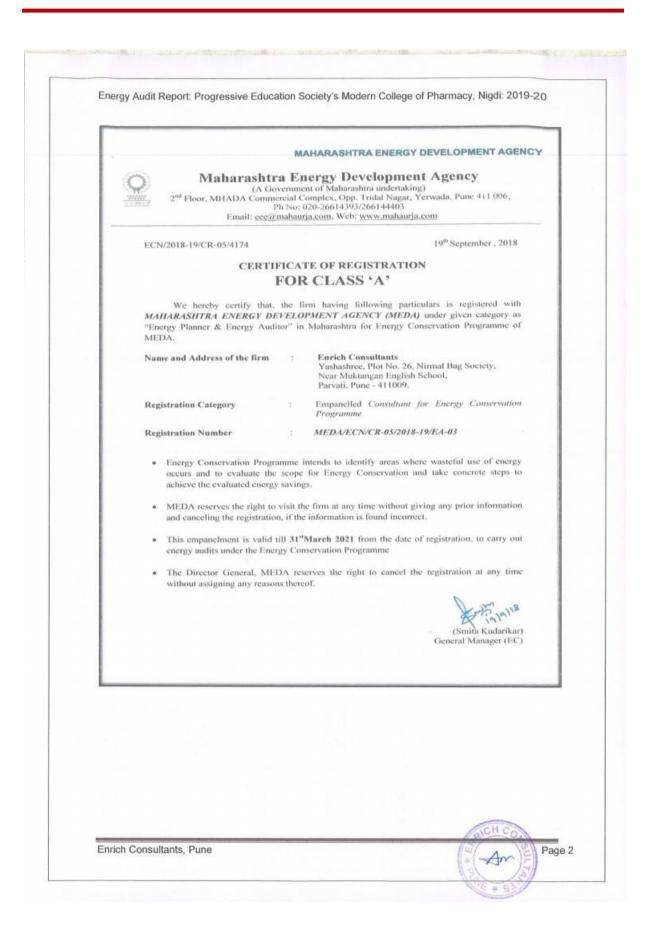
















GREEN AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2019-20

Prepared by:

Enrich Consultants Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: enrichcons@gmail.com







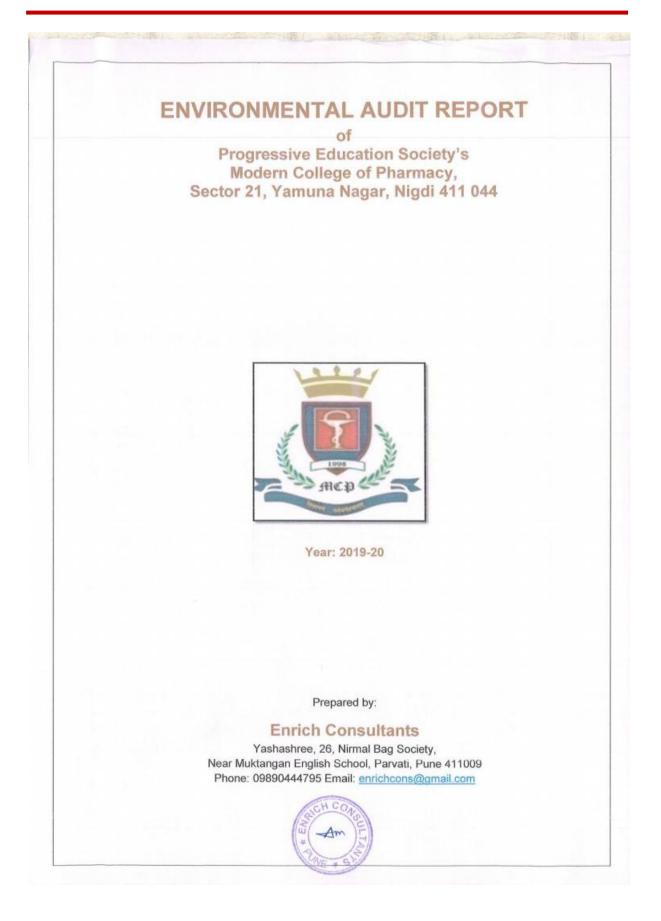
Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2019-20 **Enrich Consultants** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: enrichcons@gmail.com Ref: EC/MCOP/19-20/02 Date: 02/7/2020 CERTIFICATE This is to certify that we have conducted Green Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2019-20. The College has adopted following Green Initiatives: Usage of Energy Efficient LED Light Fitting > Usage of BEE STAR Rated Energy Efficient Equipment Maximum Usage of Day Lighting Installation of Roof Top Solar PV Plant of Capacity 10 kWp Provision of Separate bins for Dry & Wet Waste Provision of Sanitary Waste Incinerator Maintenance of good Internal Road Tree Plantation in the campus × Implementation of Rain Water Harvesting Project Provision of Ramp for Divyangajan We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green. For Enrich Consultants, Thohea A Y Mehendale, Certified Energy Auditor EA-8192 Enrich Consultants, Pune Page 3



	MAHARASHTRA ENE	RGY DEVELOPMENT AGENCY
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Name and Address of the firm	: Enrich Consultant Yashashree, Plot Ne Near Muktangan Er Parvati, Pune - 4110	 26, Nirmal Bag Society, aglish School,
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Registration Number	: MEDA/ECN/CR-05	/2018-19/EA-03
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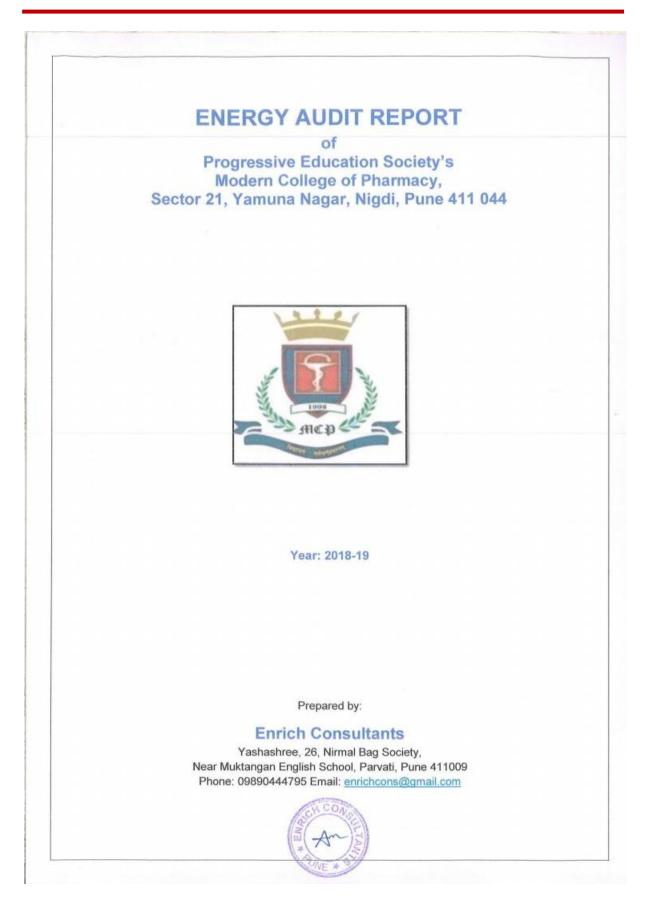
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			AHARASHTRA ENERGY DEVELOPMENT AGEN	CY
	(A G 2 nd Floor, MHADA Comm	overnme iercial C	tergy Development Agency nt of Maharashtra undertaking) omplex, Opp. Tridal Nagar, Yerwada, Pune 411 006, 120-26614393/266144403	
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1	ECN/2018-19/CR-05/4174		19th September , 2018	
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	Name and Address of the firm	, k	Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009.	
	Registration Category	30	Empanelled Consultant for Energy Conservation Programme	
	Registration Number	\$	MEDA/ECN/CR-05/2018-19/EA-03	
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			(Smith Kudarikar)	
			General Manager (EC)	















Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>

Ref: EC/MCOP/18-19/01

Date: 29/6/2019

CERTIFICATE

This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2018-19.

.The College has adopted following Energy Efficient Practices:

- Usage of Energy Efficient LED Fittings
- Maximum usage of Day Lighting

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Enrich Consultants,

0

A Y Mehendale, Certified Energy Auditor EA-8192



Page 3

Enrich Consultants, Pune





Energy Audit Report: Progressive Education	n Society's Modern College of Pharmacy, Nigdi: 2018-1
	MAHARASHTRA ENERGY DEVELOPMENT AGENCY
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ECN/2018-19/CR-05/4174	19 th September , 2018
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	General Manager (EC)
nrich Consultants, Pune	W A LE





GREEN AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2018-19

Prepared by:

Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: enrichcons@gmail.com







Green Audit Report: Progressive Education Society's	Modern College of Pharmacy, Nigdi: 2018-19
Enrich Consultant	ts
Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 4 Tel: 09890444795 Email: <u>enrichcons@gmail.con</u>	
Ref: EC/MCOP/18-19/02	Date: 29/6/2019
CERTIFI	CATE
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Usage of BEE STAR Rated Energy Efficiency	ent Equipment
Maximum Usage of Day Lighting	
Provision of Separate bins for Dry & Wet	Waste
Maintenance of good Internal Road	
Tree Plantation in the campus	
Implementation of Rain Water Harvesting	Project
Provision of Sanitary Waste Incinerator	
We appreciate the support of Management, invo	lvement of faculty members and students in
the process of Energy Conservation & making th	e campus Green.
For Enrich Consultants,	CH CO
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A Y Mehendale,	STE * SP
Certified Energy Auditor EA-8192	
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Green Audit Report: Progressive Education	Society's Modern College of Pharmacy, Nigdi: 2018-1	9
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ECN/2018-19/CR-05/4174	19 th September , 2018	
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We hereby certify that, the MAHARASHTRA ENERGY DEVEL	firm having following particulars is registered with OPMENT AGENCY (MEDA) under given category as in Maharashtra for Energy Conservation Programme of	
Name and Address of the firm :	Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Multiangan English School, Parvati, Pune - 411009.	
Registration Category :	Empanelled Consultant for Energy Conservation Programme	
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without assigning any reasons the	ereof.	
	(Smila Kudarikar) General Manager (EC)	
	RICH COL	
Enrich Consultants, Pune	(Am)=	Pa









7.1.3: Quality audits on Environment and energy undertaken by institute during last five years

Every year PES Modern College of Pharmacy, Nigdi, Pune conducts green audit, environment audit and energy audit of its facilities and campus through third party Engress services, Pune . It is a certified auditor- registered under Maharashtra Energy Development Agency (MEDA). The reports submitted by the auditing agency are attached below:

Sr. No.	Particulars of document	Document		
	2022-23			
1	Green, Energy and Environment Audit Report	View Document		
	2021-22			
4	Green, Energy and Environment Audit Report	View Document		
	2020-21			
7	Green, Energy and Environment Audit Report	View Document		
	2019-20			
10	Green, Energy and Environment Audit Report	View Document		
	2018-19	I		
13	Green, Energy and Environment Audit Report	View Document		

Index

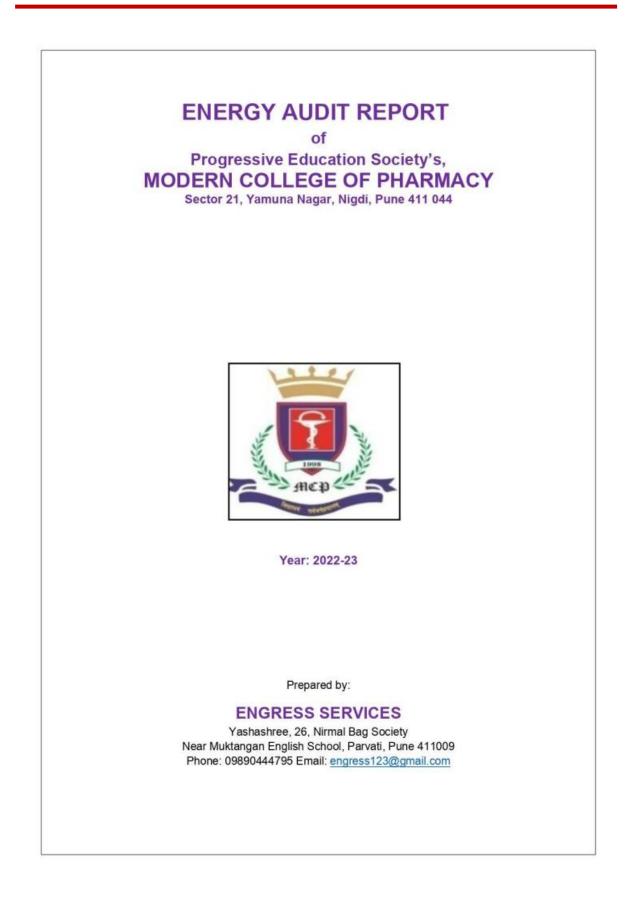


Green, Energy and Environment audit report

2022-23











	A
Energy Audit Report: Progressive Education Society's Moderr	n College of Pharmacy, Nigdi: 2022-23
ENGRESS SERVICES	
Yashashree, 26, Nirmal Bag Society, Near Muktangan Eng Tel: 09890444795 Email: engress123@gmail.com	lish School, Parvati, Pune 411 009
MEDA Registration No: ECN/2022-23/CR-43/1709	
SO: 9001-2015 Certified (Cert No: 23EQKC13),	
ISO: 14001-2015 Certified (Cert No: 23EEKW20)	
ENERGY AUDIT CER	RTIFICATE
Certificate No: ES/MCOP/22-23/01	Date: 18/5/2023
This is to certify that we have conducted an Energy Aud	lit at Progressive Education Society's
Modern College of Pharmacy, Nigdi Pune 411044, in the	e Year 2022-23.
The College has adopted following Energy Efficient practice	ctices:
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Maximum usage of Day Lighting	
Installation of 10 kWp Roof Top Solar PV Plant	
We appreciate the support of Management, involvemen	t of faculty members and students in
the process of making the Campus Energy Efficient.	
For Engress Services,	
A Y Mehendale,	
B E-Mechanical, M Tech- Energy BEE Certified Energy Auditor, EA-8192	
BEE Gentiled Energy Additor, EA-0192	
Engress Services, Pune	Page 2
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Registi	ation Certificates
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Sr. No	No Particulars	
1	Acknowledgement	5
П	Executive Summary	6
Ш	Abbreviations	7
1	Introduction	8
2	Study of Connected Load	9
3	Study of Present Energy Consumption	10
4	Study of Energy Performance Index	12
5	Study of Lighting	13
6	Study of Renewable Energy & Energy Efficiency	15

ACKNOWLEDGEMENT

Engress Services, Pune





We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 22-23.

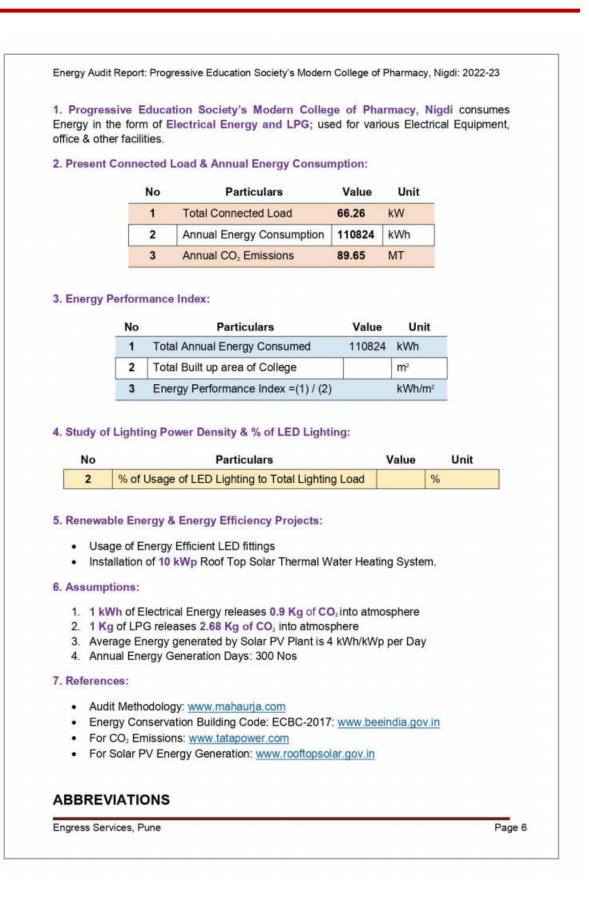
We are thankful to all the Staff members for helping us during the field study.

EXECUTIVE SUMMARY

Engress Services, Pune











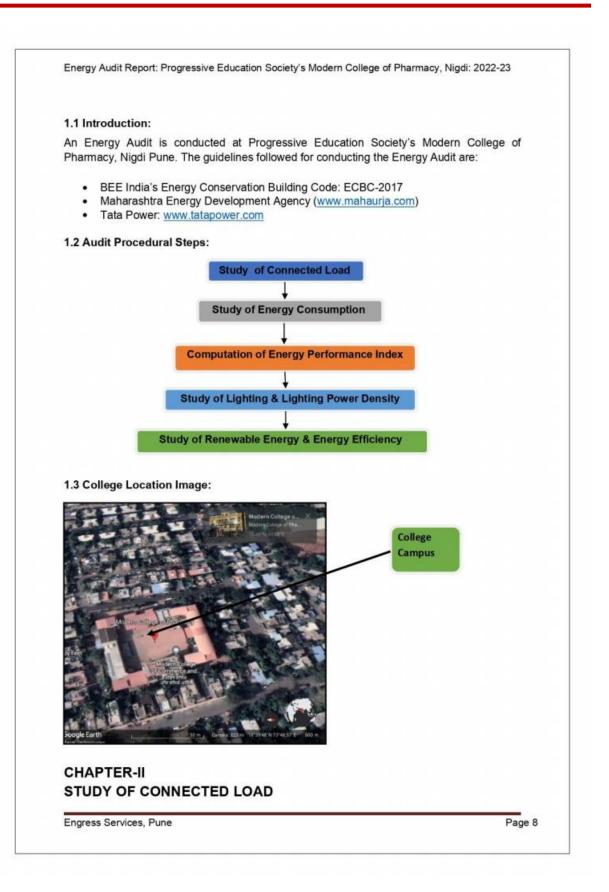
LED	:	Light Emitting Diode
MSEDCL	:	Maharashtra State Electricity Distribution Company Limited
BEE	•	Bureau of Energy Efficiency
ECBC	:	Energy Conservation Building Code
MEDA	:	Maharashtra Energy Development Agency
PV	:	Photo Voltaic
Kg	:	Kilo Gram
kWh	;	kilo-Watt Hour
CO2	:	Carbon Di Oxide
MT	:	Metric Ton

CHAPTER-I INTRODUCTION

Engress Services, Pune







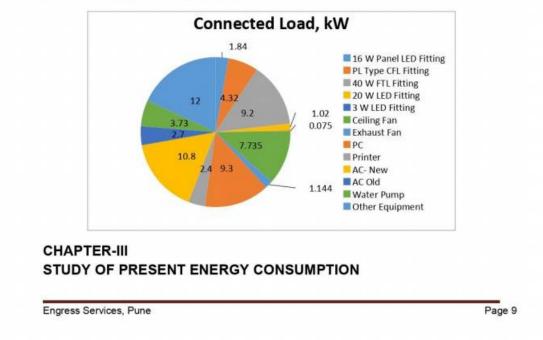


The major contributors to the connected load of the College include:

No	Equipment	Qty	Load, W/Unit	Load kW
1	16 W Panel LED Fitting	115	16	1.84
2	PL Type CFL Fitting	135	32	4.32
3	40 W FTL Fitting	230	40	9.2
4	20 W LED Fitting	51	20	1.02
5	3 W LED Fitting	25	3	0.075
6	Ceiling Fan	119	65	7.735
7	Exhaust Fan	22	52	1.144
8	PC	62	150	9.3
9	Printer	16	150	2.4
10	AC- New	6	1800	10.8
11	AC Old	1	2700	2.7
12	Water Pump	1	3730	3.73
13	Other Equipment	80	150	12
14	Total			66.26

Table No 1: Study of Equipment wise Connected Load:

Chart No 1: Study of Connected Load:

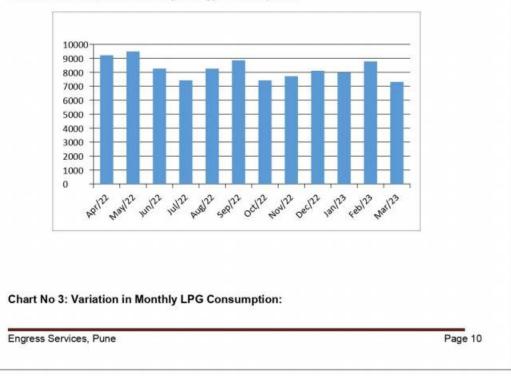




No	Month	Energy Purchased, kWh	LPG Consumed, Kg	CO2 Emissions, MT
1	Apr-22	9218	9.5	8.32
2	May-22	9492	19	8.59
3	Jun-22	8263	19	7.49
4	Jul-22	7422	19	6.73
5	Aug-22	8260	19	7.48
6	Sep-22	8857	38	8.07
7	Oct-22	7420	19	6.73
8	Nov-22	7714	9.5	6.97
9	Dec-22	8108	19	7.35
10	Jan-23	7980	38	7.28
11	Feb-23	8779	38	8.00
12	Mar-23	7311	19	6.63
13	Total	98824	266	89.65
14	Maximu m	9492	38	8.59
15	Minimum	7311	9.5	6.63
16	Average	8235.33	22.17	7.47

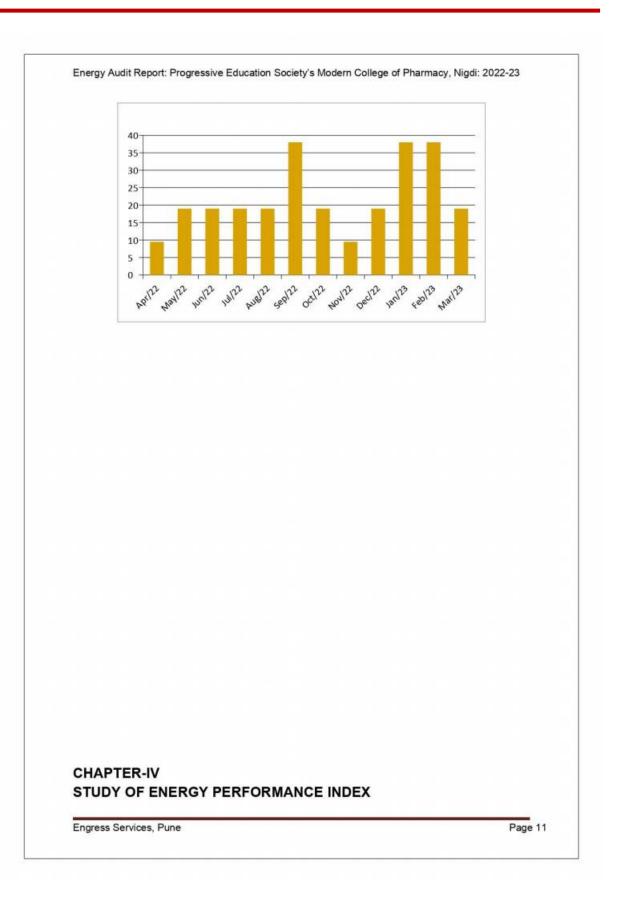
In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 2: Study of Electrical Energy, LPG Consumption & CO₂ Emission: 22-23:

Chart No 2: Variation in Monthly Energy Consumption:













Energy Performance Index: Energy Performance Index of a Building is its Annual Energy Consumption in Kilo Watt Hours per square meter of the Building

It is determined by:

EPI = (Annual Energy Consumption in kWh) (Total Built-up area in m²)

Now we compute the EPI for the College as under:

Table No 4: Computation of Energy Performance Index:

No	Particulars	Value	Unit
1	Annual Energy Purchased	98824	kWh
2	Roof Top Solar PV Capacity	10	kWp
3	Energy generated by Solar PV Plant per Day	4	kWh
4	Annual Energy generation days	300	Nos
5	Annual Energy generated	12000	kWh
6	Total Energy Consumed= 1+5	11082 4	kWh
7	Total Built up area of College		m²
8	Energy Performance Index =(1) / (2)		kWh/m ²

CHAPTER V

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STUDY OF LIGHTING

Terminology:

1. Lumen is a unit of light flow or luminous flux. The lumen rating of a lamp is a measure of the total light output of the lamp. The most common measurement of light output (or luminous flux) is the lumen. Light sources are labeled with an output rating in lumens.

2. Lux is the metric unit of measure for illuminance of a surface. One lux is equal to one lumen per square meter.

3. Circuit Watts is the total power drawn by lamps and ballasts in a lighting circuit under assessment.

4. Installed Load Efficacy is the average maintained illuminance provided on a horizontal working plane per circuit watt with general lighting of an interior. Unit: lux per watt per square metre (lux/W/m²)

5. Lamp Circuit Efficacy is the amount of light (lumens) emitted by a lamp for each watt of power consumed by the lamp circuit, i.e. including control gear losses. This is a more meaningful measure for those lamps that require control gear. Unit: lumens per circuit watt (Im/W)

6. Installed Power Density. The installed power density per 100 lux is the power needed per square metre of floor area to achieve 100 lux of average maintained illuminance on a horizontal working plane with general lighting of an interior

Unit: watts per square metre per 100 lux (W/m²/100 lux) 100 Installed power density (W/m²/100 lux)

7. Lighting Power Density: It is defined as Total Lighting Load in a room divided by the Area of that Room in square meters.

In this Chapter we compute the percentage usage of LED Lighting to total Lighting Load of the College.

Now, we compute the usage of LED Lighting to Total Lighting Load, as under. Table No 5: Percentage Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	230	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Electrical Load of 40 W FTL Fittings	9.2	kW
4	No of 20 W LED Tube Lights	51	Nos
5	Demand of 20 W LED Tube Light	20	W/Unit

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6	Total Electrical Load of 20 W LED Fittings	1.02	kW
7	No of 16 W Panel LED Fittings	115	Nos
8	Demand of 16 W Panel LED Fittings	16	W/Unit
9	Total Electrical Load of 16 W Panel LED Fittings	1.84	kW
10	No of 3 W LED Fittings	25	Nos
11	Demand of 3 W LED Fittings	3	W/Unit
12	Total Electrical Load of 3 W LED Fittings	0.075	kW
13	No of PL Type 32 W CFL Fittings	135	Nos
14	Demand of PL Type 32 W CFL Fittings	32	W/Unit
15	Total Electrical Load of PL Type 32 W CFL Fittings	4.32	kW
16	Total LED Lighting Load= 6+9+12	2.94	kW
17	Total Lighting Load=3+6+9+12+15	16.46	kW
18	Lighting Requirement met by LED= 16*100/17	17.84	%

CHAPTER-VI STUDY OF RENEWABLE ENERGY & ENERGY EFFICIENCY

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6.1 Renewable Energy Usage:

The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the percentage of Usage of Alternate Energy to Annual Energy Demand of the College.

Table No 6: Computation of % Annual Energy Demand met by Alternate Energy:

No	Particulars	Value	Unit
1	Energy Purchased from MSEDCL	98824	kWh
2	Installed Roof Top Solar PV Plant Capacity	10	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Generation Days	300	Nos
5	Annual Solar Energy Generated	12000	kWh
6	Total Energy Demand = (1) + (5)	110824	kWh
7	% of Usage of Alternate Energy to Total Annual Energy Demand= (5)*100/ (6)	10.82	%

Photograph of Roof Top Solar PV Plant:



6.2 Usage of Energy Efficient Equipment:

The College has installed:

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- Energy efficient LED Light Fittings
- The ACs are BEESTAR Rated Energy Efficient ACs •

Photograph of STAR Rated ACs & LED Fittings:

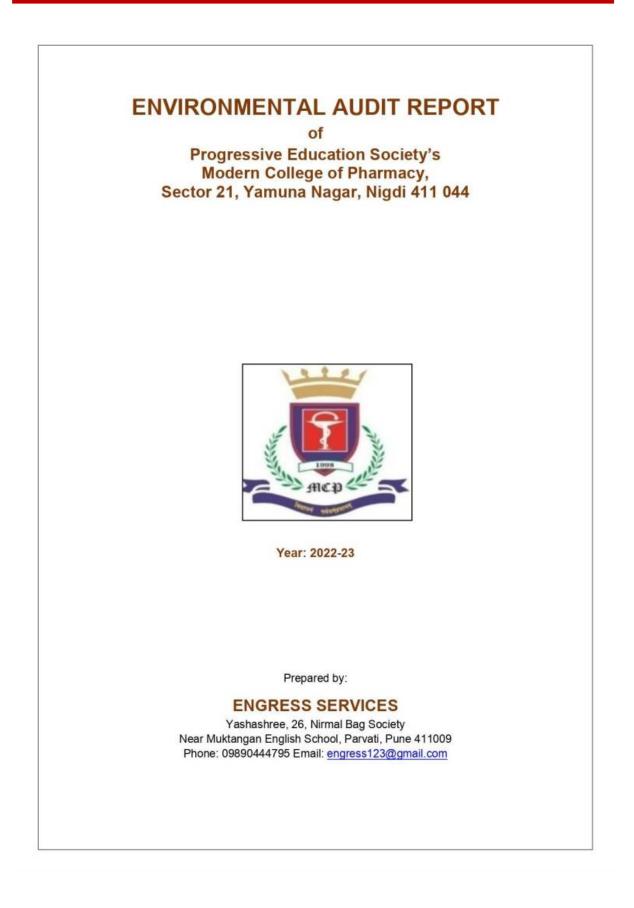




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Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 ENGRESS SERVICES Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com MEDA Registration No: ECN/2022-23/CR-43/1709 ISO: 9001-2015 Certified (Cert No: 23EQKC13), ISO: 14001-2015 Certified (Cert No: 23EEKW20) ENVIRONMENTAL AUDIT CERTIFICATE Certificate No: ES/MMIT/22-23/03 Date: 18/5/2023 This is to certify that we have conducted Environmental Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2022-23. The College has adopted following Energy Efficient & Green Practices: Usage of Energy Efficient LED Light Fitting Usage of BEE STAR Rated Energy Efficient Equipment > Maximum Usage of Day Lighting Installation of Roof Top Solar PV Plant of Capacity 10 kWp Segregation of Waste at Source Provision of Sanitary Waste Incinerator for Sanitary Waste Disposal Implementation of Rain Water Management Project Tree Plantation in the campus > Creation of Awareness on Resource Conservation, by Display of Posters We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the Eco Friendly. For Engress Services, A Y Mehendale, B E- Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788 Page 2 Engress Services, Pune







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ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Environmental Audit of their Campus for the Academic Year: 22-23.

We are thankful to all the Staff members for helping us during the field study.

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EXEC	CUTIV	ECUTIVE SUMMARY							
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				ible Garden W	aste				
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		2	Annua	al CO ₂ Emissio	nis	89.65	MT]	
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	Management	
4	Chemical Lab Liquid Waste	Follows Green Synthesis principle, no Waste is generated
5	Bio Medical Waste Management	Entered MoU with M/s PASCO
6	E Waste Management	Recommended to dispose of through Authorized Vendor

8. Rain Water Management:

The College has installed the Rain Water Management project; the rain water falling on the terrace is collected through pipes and is used for recharging the bore well.

- 9. Environment Friendly Initiatives:
 - Maintenance of Internal Garden.
 - Display of Posters on Resource Conservation

10. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO, into atmosphere
- 3. Average Energy generated by Solar PV Plant is 4 kWh/kWp per Day
- 4. Annual Energy Generation Days: 300 Nos

11. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Solar PV Energy Generation: www.rooftopsolar.gov.in
- For Various Indoor Air Parameters: www.ishrae.com
- For AQI &Water Quality Standards: www.cpcb.com

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ABBREVIATIONS

Kg	:	Kilo Gram
MSEDCL	:	Maharashtra State Distribution Company Limited
MT	:	Metric Ton
kWh	:	kilo-Watt Hour
LPD	4	Liters per Day
LED	:	Light Emitting Diode
AQI	1	Air Quality Index
PM-2.5	:	Particulate Matter of Size 2.5 Micron
PM-10	:	Particulate Matter of Size 10 Micron
CPCB	:	Central Pollution Control Board
ISHRAE	:	The Indian Society of Heating & Refrigerating & Air Conditioning Engineers

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CHAPTER-I INTRODUCTION

1. Important Definitions:

1.1. Environment: Definition as per environment Protection Act: 1986

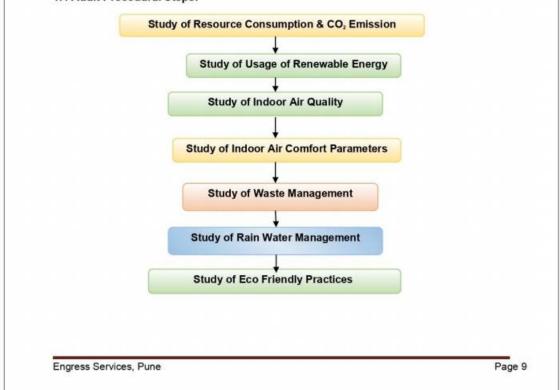
Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.



1.4 Audit Procedural Steps:

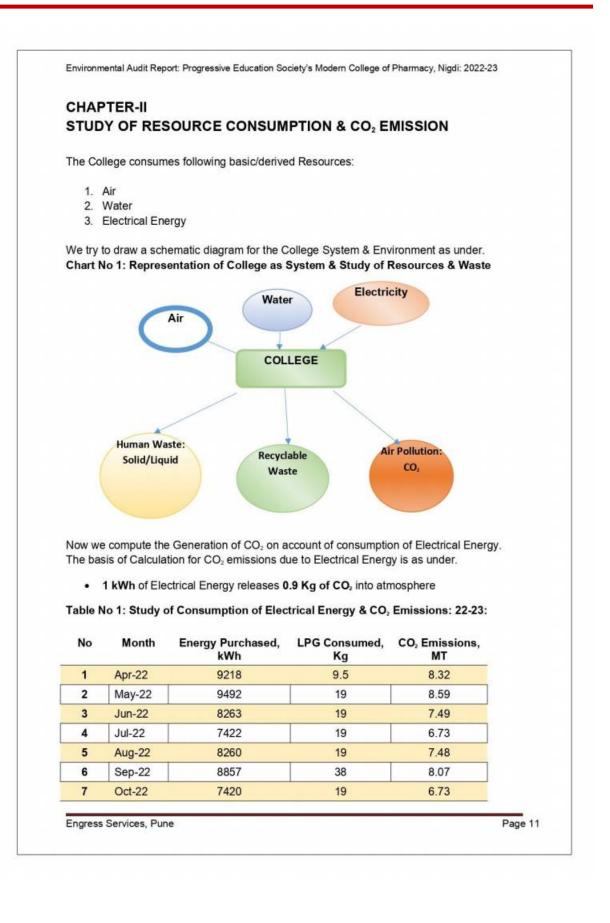




Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 1.5 College Location Image: College Campus Page 10 Engress Services, Pune









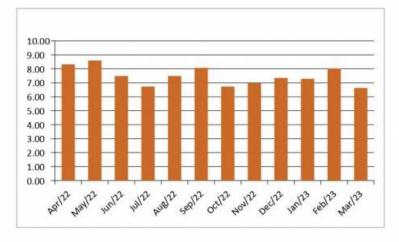


8	Nov-22	7714	9.5	6.97
9	Dec-22	8108	19	7.35
10	Jan-23	7980	38	7.28
11	Feb-23	8779	38	8.00
12	Mar-23	7311	19	6.63
13	Total	98824	266	89.65
14	Maximum	9492	38	8.59
15	Minimum	7311	9.5	6.63
16	Average	8235.33	22.17	7.47

Chart No 2: Month wise CO2 Emissions:

CHAPTER III

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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index





STUDY OF USAGE OF RENEWABLE ENERGY

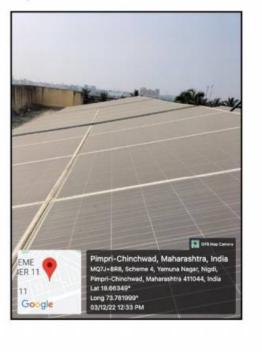
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 2: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp		4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 22-23		kWh
5	5 1 kWh of Electrical Energy saves		Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:



CHAPTER IV

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STUDY OF INDOOR AIR QUALITY

4.1 Importance of Air Quality:

Air: The common name given to the atmospheric gases used in breathing and photosynthesis.

By volume, Dry Air contains 78.09% Nitrogen, 20.95% Oxygen, 0.93% Argon, 0.039% carbon dioxide, and small amounts of other gases.

On average, a person inhales about **14,000 liters** of air every day. Therefore, poor air quality may affect the quality of life now and for future generations by affecting the health, the environment, the economy and the city's livability.

Air quality is a measure of the suitability of air for breathing by people, plants and animals.

4.2 Air Quality Index:

An Air Quality Index (AQI) is a number used by government agencies to measure the air pollution levels and communicate it to the population. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects. The measurement of the AQI requires an air monitor and an air pollutant concentration over a specified averaging period.

We present herewith following important Parameters.

- 1. AQI- Air Quality Index
- 2. PM-2.5- Particulate Matter of Size 2.5 micron
- 3. PM-10- Particulate Matter of Size 10 micron

Table No 3: Indoor Air Quality Parameters:

No	Location	AQI	PM-2.5	PM-10
	Ground Floor			
1	Entrance Lobby	53	32	33
2	Departmental Office	56	31	33
	Stilt Floor			
1	Pharmaceutical Analysis Lab	43	27	27
2	Instrument Room	55	30	31
	First Floor			
1	Class Room IV	50	30	31
2	Library	51	28	31
	Second Floor			
1	Administrative Office	46	26	28
2	HOD Pharmacology	43	25	28

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	Third Floor			
1	Lab	70	42	55
2	Tutorial Room PG-IV	71	43	56
	Maximum	71	43	56
	Minimum	43	25	27

CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS

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In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit. The Parameters include:

- 1. Temperature
- 2. Humidity
- 3. Lux Level
- 4. Noise Level.

Table No 4: Study of Indoor Comfort Condition Parameters:

No	Parameter/Value	Temperature , °C	Humidity , %	Lux Level	Noise Level, dB
	Ground Floor				
1	Entrance Lobby	31.2	39	587	42.3
2	Departmental Office	31.2	41	215	44
	Stilt Floor				
1	Pharmaceutical Analysis Lab	31.2	41	169	41.6
2	Instrument Room	31.2	41	163	45
	First Floor				
1	Class Room IV	31.1	39	196	41.3
2	Library	31	40	147	45.6
	Second Floor				
1	Administrative Office	31.1	40	165	41.8
2	HOD Pharmacology	31.2	41	142	40.9
	Third Floor			-	
1	Lab	31	41	149	41.3
2	Tutorial Room PG-IV	31.2	40	153	42
	Maximum	31.2	41	587	45.6
	Minimum	31	39	142	40.9

CHAPTER VI STUDY OF WASTE MANAGEMENT

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6.1 Segregation of Waste at Source:

The Waste is segregated at source. Separate Waste bins are kept at various points in the College.

Photograph of Waste Collection Bins:



6.2 Organic Waste Management:

It is recommended to install Bio Composting Bed to convert the Leafy Waste into Bio compost.

6.3 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste.

Photograph of Sanitary Waste Incinerator:



6.4 Chemical Laboratory Liquid Waste Management:

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The College is following the concept of Green Synthesis; hence, no Chemical Laboratory Liquid Waste is generated.

6.5 Bio Medical Waste Management:

The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste.

6.6 E-Waste Management:

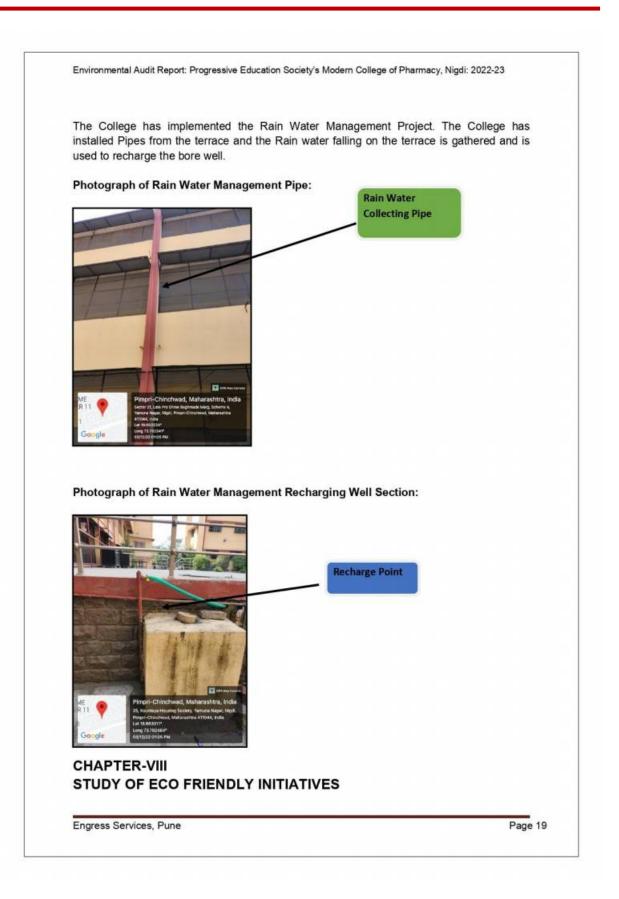
It is recommended to dispose of the E Waste through Authorized Agency.

CHAPTER-VII STUDY OF RAIN WATER MANAGEMENT

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Under, NSS, Cleanliness Drive was conducted in the Village: Jamavade, in Taluka: Maval of Pune District.

Photograph of Cleanliness Drive Event:

ANNEXURE-I:

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AIR QUALITY, NOISE & INDOOR COMFORT STANDARDS:

No	Category	AQI Value	Concentratio n Range, PM 2.5	Concentratio n Range, PM 10
1	Good	0 to 50	0 to 30	0 to 50
2	Satisfactory	51 to 100	31 to 60	51 to 100
3	Moderately Polluted	101 to 200	61 to 90	101 to 250
4	Poor	201 to 300	91 to 120	251 to 350
5	Very Poor	301 to 400	121 to 250	351 to 430
6	Severe	401 to 500	250 +	430 +

1. Category Wise Air Quality Index Values & Concentration of PM 2.5 & PM10:

2. Recommended Noise Level Standards:

No	Location	Noise Level dB	
1	Auditoriums	20-25	
2	Outdoor Playground	55	
3	Occupied Class Room	40-45	
4	Un occupied Class Room	35	
5	Apartment, Homes	35-40	
6	Offices	45-50	
7	Libraries	35-40	
8	Restaurants	50-55	

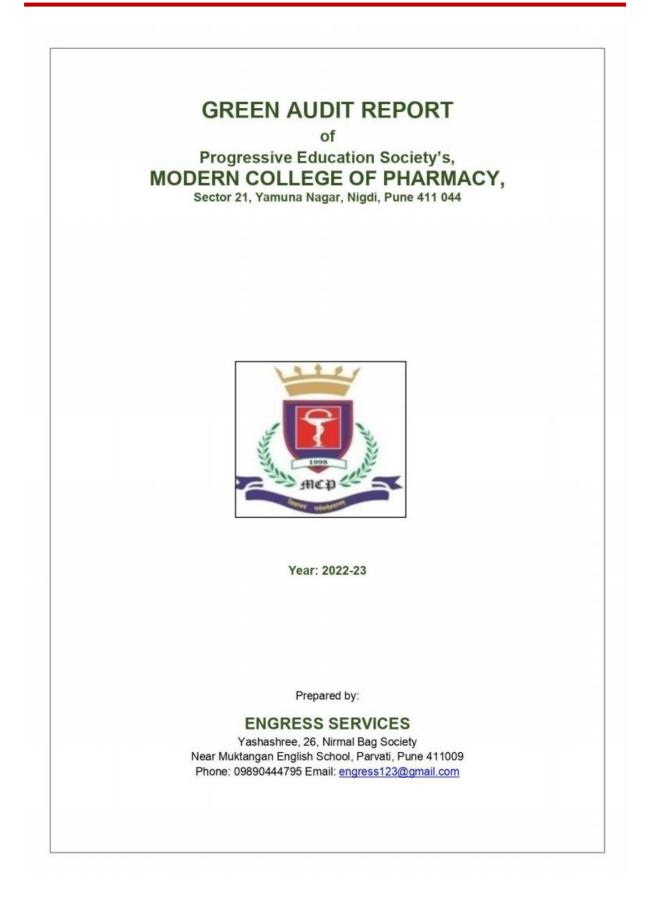
4. Thermal Comfort Conditions: For Non-conditioned Buildings:

No	Parameter	Value Less Than 33°C	
1	Temperature		
2	Humidity	Less Than 70%	

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Green /	Audit Report: Progressive Education Society's Modern College of Pharmac	y, Nigdi: 2022-23
EN	IGRESS SERVICES	
Parvat MEDA ISO: 9	ashree, 26, Nirmal Bag Society, Near Muktangan English School, ati, Pune 411 009 Tel: 09890444795 Email: <u>engress123@gmail.com</u> A Registration No: ECN/2022-23/CR-43/1709 9001-2015 Certified (Cert No: 23EQKC13), 14001-2015 Certified (Cert No: 23EEKW20)	
	GREEN AUDIT CERTIFICATI	E
Certif	ificate No: ES/MCOP/22-23/02	Date: 18/5/2023
	is to certify that we have conducted Green Audit at Progressive	
Mode	ern College of Pharmacy, Nigdi, Pune, in the Academic year 2022-23	3.
The C	College has adopted following Energy Efficient & Green Practices:	
×	 Usage of Energy Efficient LED Light Fitting 	
	 Usage of BEE STAR Rated Energy Efficient Equipment 	
	Maximum Usage of Day Lighting	
	 Installation of Roof Top Solar PV Plant of Capacity 10 kWp 	
	 Segregation of Waste at Source 	
	 Provision of Sanitary Waste Incinerator for Sanitary Waste Dispos 	al
	Implementation of Rain Water Management Project	
	Good Internal Road	
111	 Tree Plantation in the campus 	
	 Provision of Ramp for Divyangajan 	
	 Creation of Awareness on Resource Conservation, by Display of I 	Posters
	appreciate the support of Management, involvement of faculty memb rocess of Energy Conservation & making the campus Green.	pers and students in
For E	Engress Services,	
ΑΥΜ	Mehendale,	
BE-N	Mech, M Tech-Energy, Certified Energy Auditor, EA-8192 OCHAM GEM Certified Professional: GEM: 22/788	
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ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Green Audit of their Campus for the Academic Year: 22-23.

We are thankful to all the Staff members for helping us during the field study.

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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 EXECUTIVE SUMMARY 1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Electrical Equipment, office & other facilities. 2. Present Energy Consumption & CO₂ Emission: No Particulars Value Unit 1 Annual Energy Consumption 110824 kWh 2 Annual CO₂ Emissions 89.65 MT 3. Study of Renewable Energy & CO₂ Emission Reduction: The College has installed 10 kWp Roof Top Solar PV Plant. Energy generated by Solar PV Plant in 2022-23 is 12000 kWh Reduction in CO2 Emission in 2022-23 is 10.8 MT ٠ 4. Waste Management: No Particulars Head Solid Waste 1 Segregation of Waste at source 2 **Bio Degradable Waste** Recommended to install a Bio Composting Bed 3 Sanitary Waste Installed Sanitary Waste Incinerator Management 4 **Chemical Lab Liquid** Follows Green Synthesis principle, no Waste is generated Waste **Bio Medical Waste** Entered MoU with M/s PASCO 5 Management 6 E Waste Management Recommended to dispose of through Authorized Vendor 5. Rain Water Management: The College has installed the RainWater Management project; the rain water falling on the terrace is collected through pipes and is used for recharging the bore well. 6. Green & Sustainable Practices: Maintenance of good Internal Road Maintenance of Internal Garden Provision of Ramp for Divyangajan Creation of awareness on Resource Conservation Display of Posters

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7. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere
- 3. Average Energy generated by Solar PV Plant is 4 kWh/kWp per Day
- 4. Annual Energy Generation Days: 300 Nos

8. References:

- Audit Methodology: <u>www.mahaurja.com</u>
- Energy Conservation Building Code: ECBC-2017: www.beeindia.gov.in
- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Solar PV Energy Generation: www.rooftopsolar.gov.in

ABBREVIATIONS

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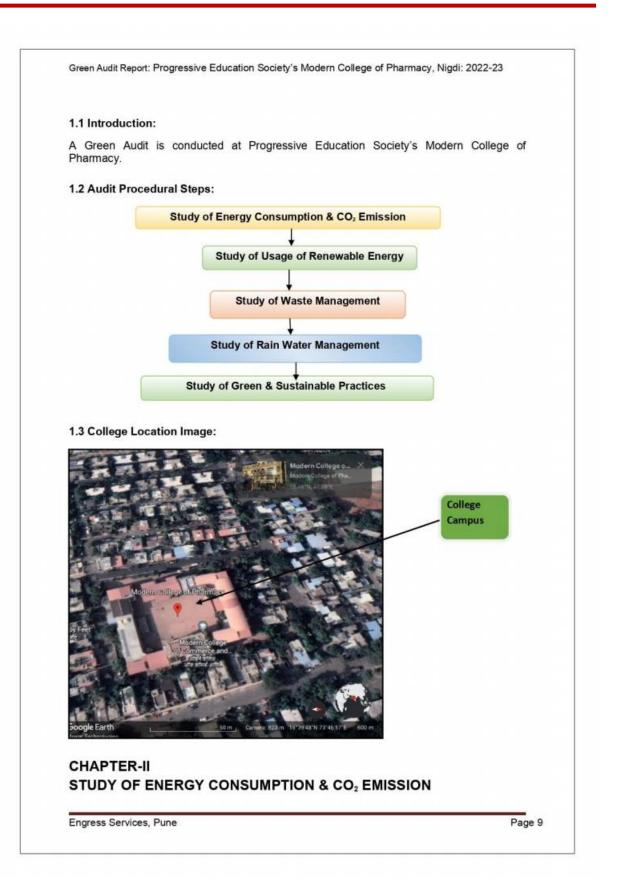
BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
Kg	Kilo Gram
мт	Metric Ton
CO2	Carbon Di Oxide
Qty	Quantity

CHAPTER-I INTRODUCTION

Engress Services, Pune











Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities The College uses Electrical Energy for various Electrical gadgets. Basis for computation of CO₂ Emissions: The basis of Calculation for CO2 emissions due to Electrical Energy is as under 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations Table No 1: Month wise CO₂ Emissions: LPG Consumed, No Month **Energy Purchased**, CO₂ Emissions, kWh MT Kq 1 Apr-22 9218 9.5 8.32 9492 8.59 May-22 2 19 3 Jun-22 8263 7.49 19 Jul-22 4 7422 19 6.73 Aug-22 8260 7.48 5 19 6 Sep-22 8857 38 8.07 Oct-22 7420 6.73 7 19 Nov-22 7714 9.5 6.97 8 9 Dec-22 8108 19 7.35 10 Jan-23 7980 38 7.28 Feb-23 8779 8.00 11 38 12 Mar-23 7311 6.63 19 13 Total 98824 89.65 266 Maximu 9492 8.59 14 38 m 15 Minimum 7311 9.5 6.63 8235.33 22.17 7.47 16 Average

Chart No 1: Month wise CO₂ Emissions:

Engress Services, Pune





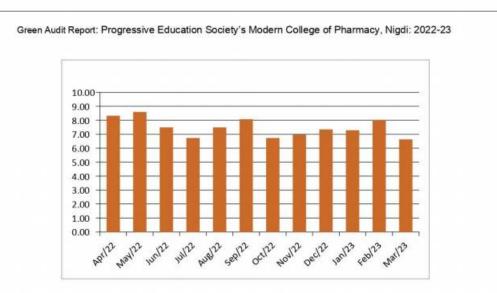


Table No 2: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	98824	266	89.65
2	Maximum	9492	38	8.59
3	Minimum	7311	9.5	6.63
4	Average	8235.33	22.17	7.47

CHAPTER III

Engress Services, Pune





STUDY OF USAGE OF RENEWABLE ENERGY

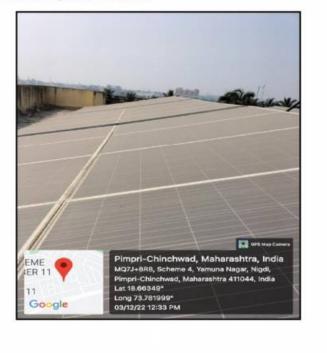
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 3: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 21-22	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:



CHAPTER IV

Engress Services, Pune





STUDY OF WASTE MANAGEMENT

4.1 Segregation of Waste at Source:

The Waste is segregated at source. Separate Waste bins are kept at various points in the College.

Photograph of Waste Collection Bins:



4.2 Organic Waste Management:

It is recommended to install Bio Composting Bed to convert the Leafy Waste into Bio compost.

4.3 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste.

Photograph of Sanitary Waste Incinerator:



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4.4 Chemical Laboratory Liquid Waste Management:

The College is following the concept of Green Synthesis; hence, no Chemical Laboratory Liquid Waste is generated.

4.5 Bio Medical Waste Management:

The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste.

4.6 E-Waste Management:

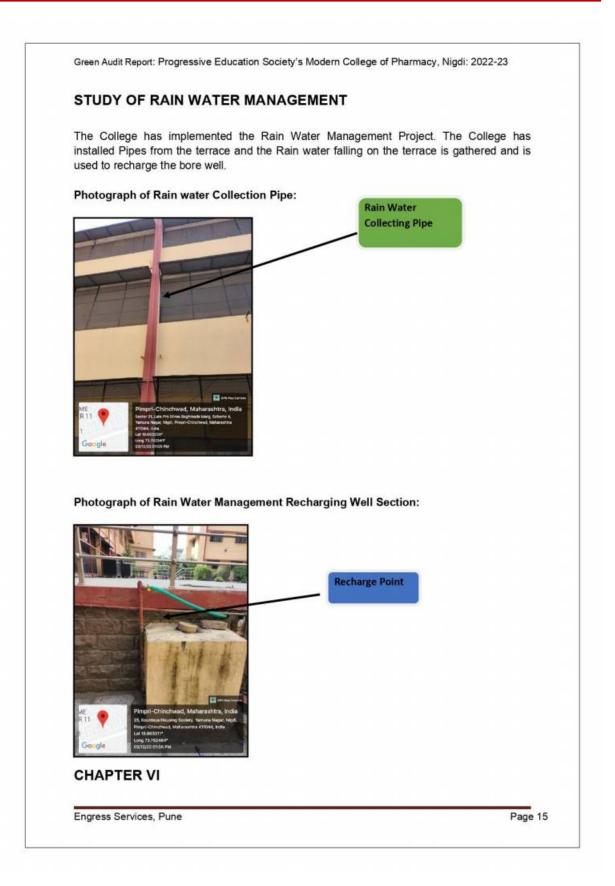
It is recommended to dispose of the E Waste through Authorized Agency.

CHAPTER V

Engress Services, Pune











Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 **STUDY OF GREEN & SUSTAINABLE PRACTICES** 6.1 Pedestrian Friendly Road & Internal Tree Plantation: The College has well maintained internal road to facilitate the easy movement of the students within the campus. The College has well maintained landscaped garden in the campus. Photograph of Internal Road & Tree plantation: 6.2 Provision of Ramp: For easy movement of Divyangajan, the College has made provision of Ramp. Photograph of Ramp: 6.3 Creation of Awareness about Energy Conservation: Engress Services, Pune Page 16





The College has displayed posters emphasizing on importance of Resource Conservation. Photograph of Poster on Water Conservation:



6.4 Cleanliness Drive Program OR TREE Plantation Program: Under, NSS, Cleanliness Drive was conducted in the Village: Jamavade, in Taluka: Maval of Pune District.

Photograph of Cleanliness Drive Event:

ANNEXURE-1:

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DETAILS OF TREES& PLANTS:

1. List of Trees:

No	Common Name Of Tree	Qty
1	Palm	130
2	Audumbar	2
3	Ficus	10
4	Pimpal	1
5	Palas	1
6	Ashoka	2
7	Sonchampa	2
8	Chrismas	3
9	Mango	1
10	Chikoo	1
11	Rubber	1
12	Umberell Palm	5
13	Ticoma	2
14	Papaya	1
15	Shevri	1
16	Tagar	1
17	Ixzora	4
18	Kadunim	3
19	Total	171

2. List of Ornamental Plants:

No	Common Name
1	Coleus
2	Drecena
3	Song Of India
4	Hibiscus
5	Gokarna
6	Cactus
7	Tulsi
8	Rose
9	Jai

3. List of Medicinal Plants:

Engress Services, Pune





Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2022-23 No. **Botanical Name** No. **Botanical Name** Adhatodavasica 29. 1. Lawsoniainermis 2. Aegle marmelos 30. Magnolia champaca 3. Aloe barbadensis 31. Mangiferaindica 4. AndrographispaniculataNees. 32. Mimosa pudica 5. Annona reticulate L 33. Musa acuminata 6. Asparagus racemosusWild. 34. Myristicafragrans 7. Azadirachtaindica 35. Pimentadioica 8. Bergerakoenigii 36. Piper betel 9. Butea monosperma 37. Piper longum 10. 38. Piper nigrum Cassia angustifolia Catharanthusroseus 39. Pongamiapinnata 11. 40. 12. Centellaasiatica Pterocarpussantalium 13. Chrysalidocarpuslutescens 41. Ricinuscommunis CinnamomumzeylanicumBreyn. 14. 42. Rutagraveolens 15. Citrus limon 43. Sapindusmukorossi 16. Costusigneus 44. Saraca asoca 17. Curcuma amada 45. Syzygium aromaticum 18. Curcuma longa 46. Syzygiumcumini 19. Cymbopogon citrates 47. Tamarindusindica 20. Elettariacardamomum 48. Terminalia arjuna 21. Eucalyptus globules 49. Terminalia bellirica 22. Ficusglomerata 50. Terminalia chebula 51. 23. Ficusracemosa Tinosporacordifolia 24. Gymnemasylvestre 52. Trachyspermumammi 25. Helicteresisora 53. VitexnegundoL 26. Hemidesmusindicus 54. Withaniasomnifera 27. Hibiscus rosa-sinensis 55. Eleocarpusganitrus 28. 56. Kalanchoepinnata Cinamomumcamphora 29. Bryophyllumpinnatum

Engress Services, Pune

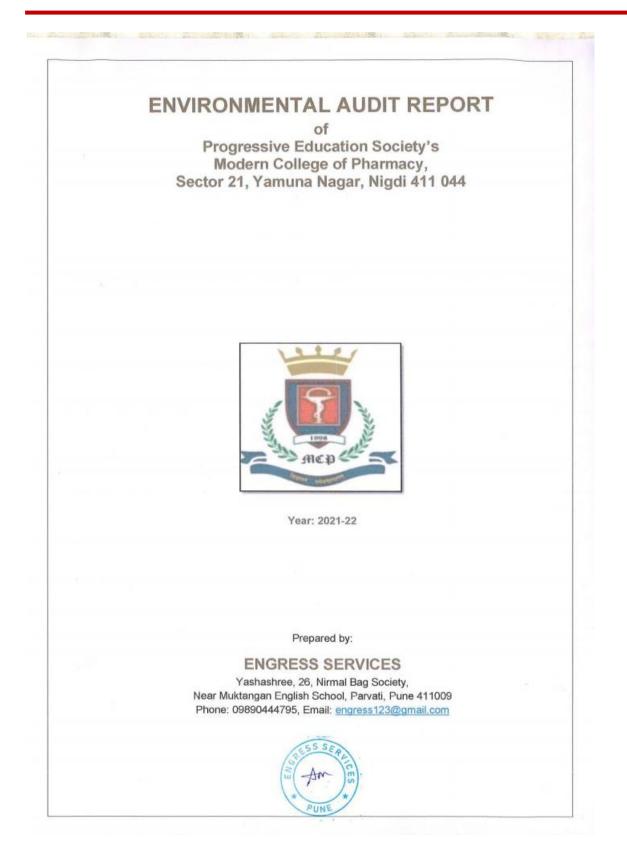




2021-22















Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 **ENGRESS SERVICES** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com Ref: ES/MCOP/21-22/03 Date: 11/6/2022 CERTIFICATE This is to certify that we have conducted Environmental Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2021-22. The College has adopted following Environment Friendly Initiatives: Usage of Energy Efficient LED Light Fitting Usage of BEE STAR Rated Energy Efficient Equipment Maximum Usage of Day Lighting > Installation of Roof Top Solar PV Plant of Capacity 10 kWp Segregation of Waste at Source > Provision of Sanitary Waste Incinerator for Sanitary Waste Disposal Implementation of Rain Water Harvesting Project > Tree Plantation in the campus > Creation of Awareness on Resource Conservation, by Display of Posters We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Environment Friendly. For Engress Services, Amelerdal A Y Mehendale, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788 Engress Services, Pune Page 3





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3	Study of CO ₂ Emission Reduction	15
4	Study of Indoor Air Quality	16
5	Study of Indoor Comfort Condition Parameters	18
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7	Study of Rain water Harvesting	21
8	Study of Environment Friendly Initiatives	22
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1	Various Standards in respect of Indoor Air Quality, Water, Noise & Indoor Comfort Condition	24

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Engress Services, Pune





ACKNOWLEDGEMENT

Engress Services, Pune

We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Environmental Audit of their Campus for the Academic Year: 21-22.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 **Back to Index**

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Page 5





Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 **EXECUTIVE SUMMARY** 1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG used for various Electrical Equipment, office & other facilities. 2. Pollution due to College Activities: Air pollution: Mainly CO₂ on account of Electricity Consumption > Solid Waste: Bio degradable Garden Waste Liquid Waste: Human liquid waste 3. Present Energy Consumption & CO₂ Emission: No Parameter/ Energy LPG CO₂ Value Purchased, kWh Consumed, Kg Emissions, MT 1 Total 57606 100 52.11 2 Maximum 5233 4.75 14 3 Minimum 3906 2 3.52 4 8862.46 Average 15.38 8.02 4. Various initiatives taken for Energy Conservation: Usage of Energy Efficient LED Lighting Maximum Usage of Day Lighting Installation of Roof Top Solar PV Plant of Capacity 10kWp. 5. Usage of Renewable Energy & Reduction in CO₂ Emission: The College has installed Roof Top Solar PV Plant of Capacity 10 kWp. The Electrical Energy generated in 21-22 is 12000 kWh. Reduction in CO2 Emissions in 21-22 is 10.8MT. > 6. Indoor Air Quality Parameters: No Parameter/Value AQI PM-2.5 PM-10 1 Maximum 124 68 86 2 Minimum 100 60 76 7. Indoor Comfort Conditions: Parameter/Value Humidity, No Temperature, Lux Level Noise Level, °C % dB 1 Maximum 29.2 41 587 45 2 Minimum 28.8 40 147 36.9 65 5 Engress Services, Pune Page 6 Am





Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 8. Waste Management: 8.1 Segregation of Waste at Source: The Waste is segregated at source and the recyclable waste, like paper waste is handed over to Authorized Agency for further action. 8.2 Organic Waste Management: It is recommended to install Bio Composting Unit to convert the Bio degradable Waste into Bio compost, which can be used in the internal garden. 8.3 Sanitary Waste Management: The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste. 8.4 Bio Medical Waste Management: The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste. 8.5 Chemical Laboratory Waste Management: The College is following the concept of Green Synthesis; hence, no Chemical Laboratory Waste is generated. 8.6 E-Waste Management: It is recommended to dispose of the E Waste through Authorized Agency 9. Rain Water Harvesting: The College has installed the Rainwater harvesting project, the rain water falling on the terrace is collected and is used for recharging the bore well. 10. Green & Sustainable Initiatives Good Internal Road Tree Plantation & Medicinal Plant Garden Provision of Ramp for Divyangaian Creation of Awareness by Display of Posters on Resource Conservation Tree Plantation and Cleanliness Drive Events, under National Service Scheme 11. Notes & Assumptions: 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere 2. 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere 3. 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day. 4. Annual Solar Energy Generation Days: 300 Nos. Engress Services, Pune An Page 7





12. References: For CO₂ Emissions: <u>www.tatapower.com</u> For Solar PV Energy Generation: www.solarrooftop.gov.in For Various Indoor Air Parameters: www.ishrae.com For AQI &Water Quality Standards: www.cpcb.com

Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22

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Engress Services, Pune	Ar page 8
	PIDIE





ABBREVIATIONS

Kg	:	Kilo Gram
MSEDCL	1	Maharashtra State Distribution Company Limited
MT	;	Metric Ton
kWh	1	kilo-Watt Hour
LPD	:	Liters per Day
LED	:	Light Emitting Diode
AQI	:	Air Quality Index
PM-2.5	:	Particulate Matter of Size 2.5 Micron
PM-10	:	Particulate Matter of Size 10 Micron
CPCB	:	Central Pollution Control Board
ISHRAE	;	The Indian Society of Heating & Refrigerating & Air Conditioning Engineers

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CHAPTER-I INTRODUCTION

1.1Important Definitions:

1.1.1 Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules
2011	E-waste (Management and Handling) Rules

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Environ	mental Audit Report: Pro	gressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22			
	2011 Natio	onal Green Tribunal (Practices and Procedure) Rules			
	2011 Plas	tic Waste (Management and Handling) Rules			
1.1.6	National Environme	ental Plans & Policy Documents: Table No-3:			
1.	National Forest Pol				
2.	National Water Poli	National Water Policy, 2002 National Environment Policy or NEP (2006)			
3.	National Environme	ion Strategy and Policy Statement on Environment and Developmen			
4.	1992				
5.		r Abatement of Pollution (1992)			
6. 7.		n on Climate Change n Environment and Human Health			
8.		2030 (The Energy Research Institute)			
9.	Addressing Energy	Security and Climate Change (MoEF and Bureau of Energy Efficien			
10	The Road to Coper	hagen; India's Position on Climate Change Issues (MoEF)			
	To Study CO ₂ Emis To study Indoor Air	ssion Reduction Quality Parameters			
3. 4. 5. 6. 7.	To study Indoor Air To study Indoor Co To Study of Waste To Study of Rain W	Quality Parameters mfort Condition Parameters Management /ater Harvesting nment Friendly Initiatives			
3. 4. 5. 6. 7.	To study Indoor Air To study Indoor Co To Study of Waste To Study of Rain W To Study of Environ eneral Details of Co Head	Quality Parameters mfort Condition Parameters Management /ater Harvesting mment Friendly Initiatives pllege: Table No 4: Particulars			
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3. 4. 5. 6. 7. 1.3 Ge No 1 2	To study Indoor Air To study Indoor Co To Study of Waste To Study of Rain W To Study of Environ eneral Details of Co Head Name of Institution Address	Quality Parameters mfort Condition Parameters Management //ater Harvesting nment Friendly Initiatives Image: Table No 4: Particulars N Progressive Education Society's Modern College of Pharmace Nigdi,Pune-411044			
3. 4. 5. 6. 7. 1.3 Ge No 1 2 3	To study Indoor Air To study Indoor Co To Study of Waste To Study of Rain W To Study of Environ eneral Details of Co Head Name of Institution Address Year of Establishm	Quality Parameters Imfort Condition Parameters Management //ater Harvesting Imment Friendly Initiatives Imment Friendly Initininintiatives <t< td=""></t<>			

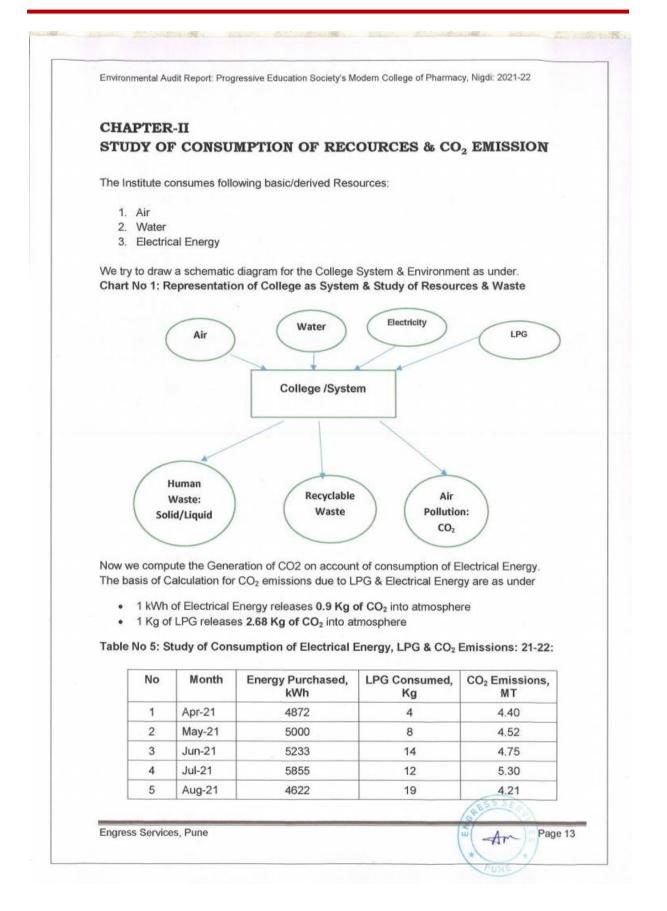
















6	Sep-21	5274	38	4.85
7	Oct-21	6074	38	5.57
8	Nov-21	5695	19	5.18
9	Dec-21	6541	19	5.94
10	Jan-22	5891	19	5.35
11	Feb-22	5782	38	5.31
12	Mar-22	6042	38	5.54
13	Total	66881	266	60.91
14	Maximum	6541	38	5.94
15	Minimum	4622	4	4.21
16	Average	5573.42	22.17	5.08

Chart No 2: Month wise CO2Emissions:

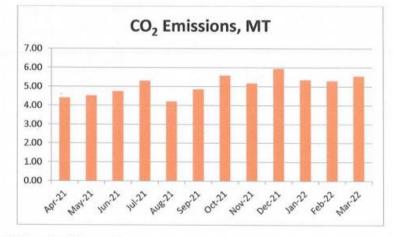


Table No 6: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	66881	266	60.91
2	Maximum	6541	38	5.94
3	Minimum	4622	4	4.21
4	Average	5573.42	22.17	5.08

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CHAPTER III STUDY OF CO₂ EMISSION REDUCTION

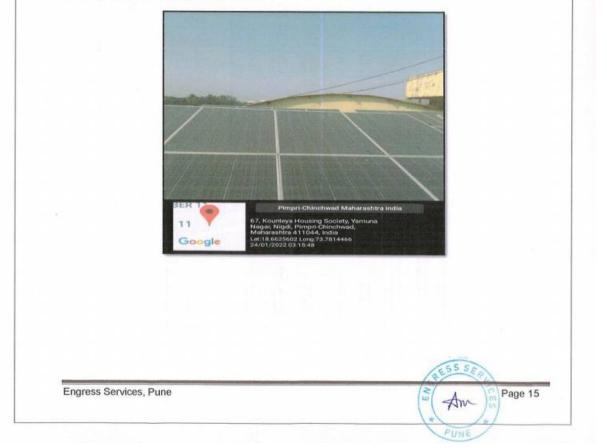
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO_2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 7: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 21-22	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:







CHAPTER IV STUDY OF INDOOR AIR QUALITY

4.1 Importance of Air Quality:

Air: The common name given to the atmospheric gases used in breathing and photosynthesis.

By volume, Dry Air contains 78.09% Nitrogen, 20.95% Oxygen, 0.93% Argon, 0.039% carbon dioxide, and small amounts of other gases.

On average, a person inhales about **14,000 liters** of air every day. Therefore, poor air quality may affect the quality of life now and for future generations by affecting the health, the environment, the economy and the city's livability.

Rapid urbanization and industrialization has added other elements/compounds to the pure air and thus caused the increase in pollution. In order to prevent, control and abate air pollution, the Air (Prevention and Control of Pollution) Act was enacted in 1981.

Air quality is a measure of the suitability of air for breathing by people, plants and animals.

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollution' has been defined as 'the presence in the atmosphere of any air pollutant.'

4.2 Air Quality Index:

An Air Quality Index (AQI) is a number used by government agencies to measure the air pollution levels and communicate it to the population. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects. The measurement of the AQI requires an air monitor and an air pollutant concentration over a specified averaging period.

We present herewith following important Parameters.

1. AQI- Air Quality Index

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- 2. PM-2.5- Particulate Matter of Size 2.5 micron
- 3. PM-10- Particulate Matter of Size 10micron

Table No 8: Indoor Air Quality Parameters:

No	Location	AQI	PM-2.5	PM-10	
	Ground Floor				
1	Store Room	103	61	81	
2	Industry Lab	100	60	76	
3	Animal House	100	61	78	
4	GYM	106	62	82	
	Stilt Floor				
1	Pharma Chem Lab	110	64	81	
2	Instrumental Room	113	64	85	

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index





an 1 22 1 Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 NSS Office Faculty Room First Floor Classroom-I Tutorial Room-I exam section Library Second Floor Board Room Departmental office Phy. Lab Pharmaceutics Lab Third Floor Tutorial Room-III Pharma Research Lab IQAC Room Faculty Room Maximum Minimum Engress Services, Pune AN Page 17

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CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit. The Parameters include:

- 1. Temperature
- 2. Humidity
- 3. Lux Level
- 4. Noise Level.

Table No 9: Study of Indoor Comfort Condition Parameters:

No	Location	Temperature, °C	Humidity, %	Lux Level	Noise Level, dE
	Ground Floor				
1	Store Room	29.2	40	587	45
2	Industry Lab	29.1	41	541	44.6
3	Animal House	29.2	41	498	44.9
4	GYM	29.1	41	213	42
	Stilt Floor				
1	Pharma Chem Lab	29.2	41	201	39.8
2	Instrumental Room	28.9	41	236	39.4
3	NSS Office	28.9	40	245	38.9
4	Faculty Room	28.9	41	312	39
	First Floor				
1	Classroom-I	29.1	40	547	42.6
2	Tutorial Room-I	29	41	512	41.2
3	exam section	29.1	41	496	44.1
4	Library	29.1	41	451	41.3
	Second Floor				
1	Board Room	29.2	40	149	42.3
2	Departmental office	28.9	40	169	41.6
3	Phy Lab	28.8	40	198	45
4	Pharmaceutics Lab	28.9	41	197	36.9
	Third Floor				
1	Tutorial Room-III	29	41	187	36.9
2	Pharma Research Lab	29	41	147	38.5
3	IQAC Room	29.1	40	163	41.3
4	Faculty Room	28.9	41	209	42
	Maximum	29.2	41	587	45
	Minimum	28.8	40	147	36.9

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index



CHAPTER VI STUDY OF WASTE MANAGEMENT

6.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper waste is handed over to Authorized Agency for further action.

Photograph of Waste Collection Bins:



6.2 Organic Waste Management:

It is recommended to install Bio Composting Unit to convert the Bio degradable Waste into Bio compost, which can be used in the internal garden.

6.3 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste.

Photograph of Sanitary Waste Incinerator:







6.4 Bio Medical Waste Management:

The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste.

6.5 Chemical Laboratory Waste Management:

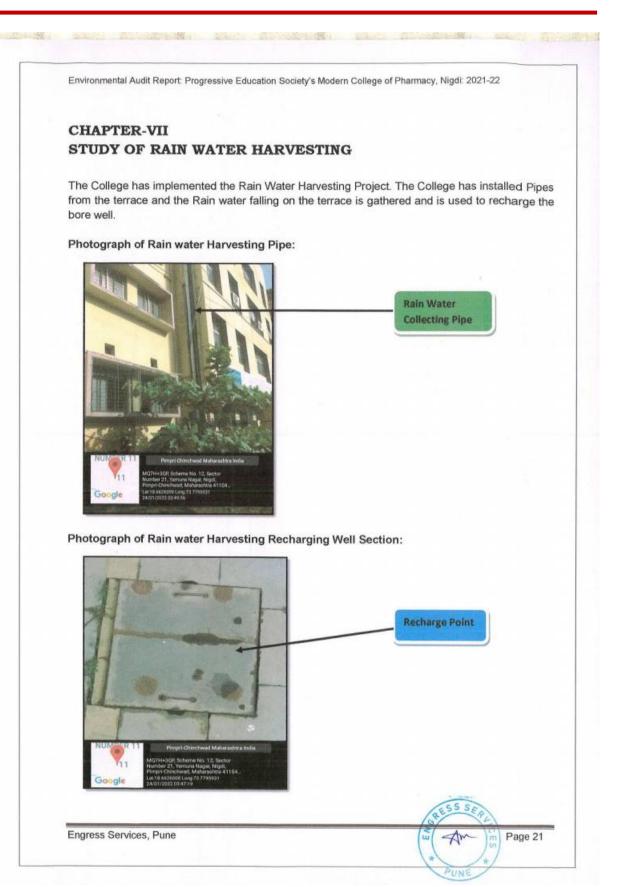
The College is following the concept of Green Synthesis; hence, no Chemical Laboratory Waste is generated.

6.6 E-Waste Management:

It is recommended to dispose of the E Waste through Authorized Agency.

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Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22

CHAPTER-VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

8.1 Internal Tree Plantation: The College has well maintained landscaped garden in the campus. Photograph of Tree plantation:

ALC: NOT THE REAL PROPERTY OF



8.2 Creation of Awareness about Resource Conservation: The College has displayed posters emphasizing on importance of Energy Conservation. Photograph of Poster on Resource Conservation:







8.3 Tree Plantation Program, under Mazi Vasundhara Abhiyan:
The College, under the NSS, conducted Mazi Vasundhara Program. Tree Plantation was done.
Photograph of Tree Plantation under Mazi Vasundhara Abhiyan:



8.4 Cleanliness Drive Program:

Under, NSS, Cleanliness Drive was conducted in the Village: Jamavade, in Taluka: Maval of Pune District.

Photograph of Cleanliness Drive Event:





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ANNEXURE-I:

VARIOUS AIR QUALITY, WATER QUALITY, NOISE & INDOOR COMFORT STANDARDS:

1. Category Wise Air Quality Index Values & Concentration of PM 2.5 & PM10:

No	Category	AQI Value	Concentration Range, PM 2.5	Concentration Range, PM 10
1	Good	0 to 50	0 to 30	0 to 50
2	Satisfactory	51 to 100	31 to 60	51 to 100
3	Moderately Polluted	101 to 200	61 to 90	101 to 250
4	Poor	201 to 300	91 to 120	251 to 350
5	Very Poor	301 to 400	121 to 250	351 to 430
6	Severe	401 to 500	250 +	430 +

2. Recommended Water Quality Standards:

No	Designated Best Use	Criteria
1	Drinking Water Source without conventional Treatment but after disinfection	pH between 6.5 to 8.5 Dissolved Oxygen 6 mg/l or more
2	Drinking water source after conventional treatment and disinfection	pH between 6 to 9 Dissolved Oxygen 4 mg/l or more
3	Outdoor Bathing (Organized)	pH between 6.5 to 8.5 Dissolved Oxygen 5 mg/l or more
4	Controlled Waste Disposal	pH between 6 to 8.5

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3. Recommended Noise Level Standards:

No	Location	Noise Level dB
1	Auditoriums	20-25
2	Outdoor Playground	55
3	Occupied Class Room	40-45
4	Un occupied Class Room	35
5	Apartment, Homes	35-40
6	Offices	45-50
7	Libraries	35-40
8	Restaurants	50-55

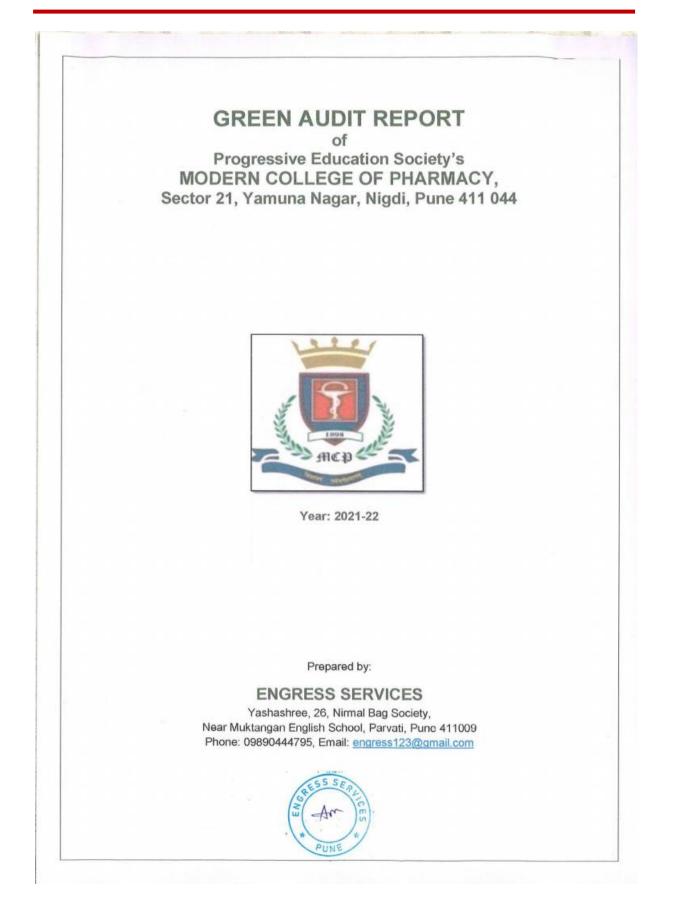
4. Thermal Comfort Conditions: For Non-conditioned Buildings:

No	Parameter	Value
1	Temperature	Less Than 33 ⁰ C
2	Humidity	Less Than 70%

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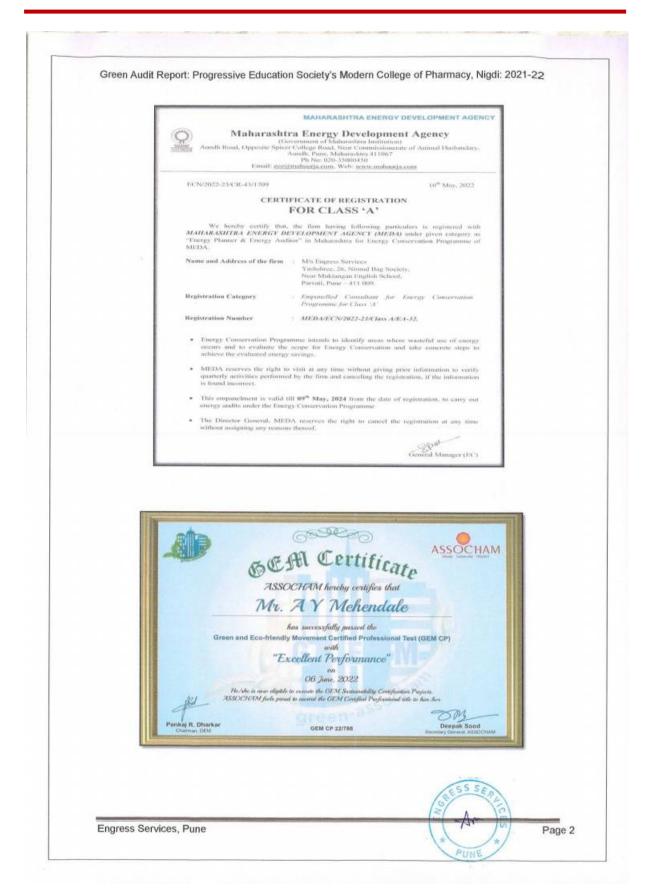
















ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>engress123@gmail.com</u>

Ref: ES/MCOP/21-22/02

Date: 11/6/2022

CERTIFICATE

This is to certify that we have conducted Green Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2021-22.

The College has adopted following Green Initiatives:

- Usage of Energy Efficient LED Light Fitting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum Usage of Day Lighting
- > Installation of Roof Top Solar PV Plant of Capacity 10 kWp
- Segregation of Waste at Source
- Provision of Sanitary Waste Incinerator for Sanitary Waste Disposal
- Implementation of Rain Water Harvesting Project
- Maintenance of Good Internal Road
- Tree Plantation in the campus
- Provision of Ramp for Divyangajan
- Creation of Awareness on Resource Conservation, by Display of Posters

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Engress Services,

Engress Services, Pune

Ameherdat

A Y Mehendale, Certified Energy Auditor, EA-8192 ASSOCHAM GEM Certified Professional: GEM: 22/788



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2	Study of Present Energy Consumption	10
3	Study of Carbon Foot Printing	12
4	Study of Usage of Renewable Energy	14
5	Study of Waste Management	15
6	Study of Rain water Harvesting	17
7	Study of Green & Sustainable Practices	18
	Annexure	
I	Details of Trees & Plants in the Campus	21

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ACKNOWLEDGEMENT

Engress Services, Pune

We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Green Audit of their Campus for the Academic Year: 21-22.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 **Back to Index**

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EXECUTIVE SUMMARY

 Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO₂ Emissions:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	66881	266	60.91
2	Maximum	6541	38	5.94
3	Minimum	4622	4	4.21
4	Average	5573.42	22.17	5.08

3. Various initiatives taken for Energy Conservation:

- Usage of Energy Efficient BEE STAR Rated Equipment
- Usage of Energy Efficient LED Lighting
- Maximum Usage of Day Lighting
- Installation of Roof Top Solar PV Plant of Capacity 10 kWp.

4. Usage of Renewable Energy & CO₂ Emission Reduction:

- The College has installed Roof Top Solar PV Plant of Capacity 10kWp.
- The Electrical Energy generated in 21-22 is 12000 kWh.
- Reduction in CO₂ Emissions in 21-22 is 10.8 MT.

5. Waste Management:

5.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper waste is handed over to Authorized Agency for further action.

5.2 Organic Waste Management:

It is recommended to install Bio Composting Unit to convert the Bio degradable Waste into Bio compost, which can be used in the internal garden.

5.3 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste.

5.4 Bio Medical Waste Management:

The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste.

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Green	Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22
5.5 Ch	nemical Laboratory Waste Management:
	ollege is following the concept of Green Synthesis; hence, no Chemical Laboratory is generated.
5.6 E-1	Waste Management:
It is ree	commended to dispose of the E Waste through Authorized Agency
6. Rain	n Water Harvesting:
	ollege has installed the Rainwater harvesting project, the rain water falling on the a is collected and is used for recharging the bore well.
7. Gre	en & Sustainable Initiatives
AAA	Good Internal Road Tree Plantation & Medicinal Plant Garden Provision of Ramp for Divyangajan Creation of Awareness by Display of Posters on Resource Conservation Tree Plantation & Cleanliness Drive, under National Service Scheme
8. Not	es &Assumptions:
2. 3.	 1 kWh of Electrical Energy releases 0.9 Kg of CO₂into atmosphere 1 Kg of LPG releases 2.68 Kg of CO₂into atmosphere 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day. Annual Solar Energy Generation Days: 300 Nos.
9. Refe	erences:
	For CO ₂ Emissions: www.tatapower.com
•	For Roof Top Solar Energy generation: <u>www.solarrooftop.gov.in</u>
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ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity

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CHAPTER-I INTRODUCTION

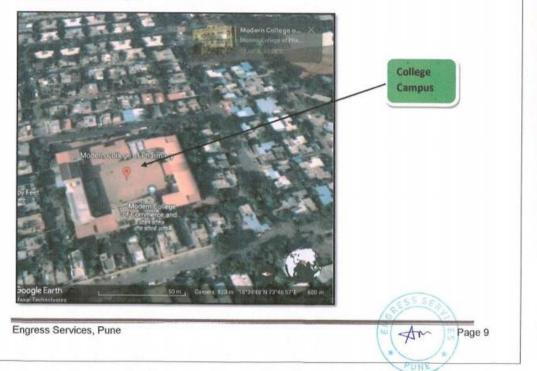
1.1 Objectives:

- 1. To study Present Energy Consumption
- 2. To Study CO2 emissions
- 3. To study usage of Renewable Energy
- 4. Study of Waste Management
- 5. Study of Rain Water Harvesting
- 6. Study of Green & Sustainable Practices

1.2 General Details of College: Table No 1:

No	Head	Particulars	
1	Name of Institution	Progressive Education Society's Modern College of Pharr	
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044	
3	Year of Establishment	1998	
4	Affiliation	Savitribai Phule Pune University	

1.3 Google Earth Image:





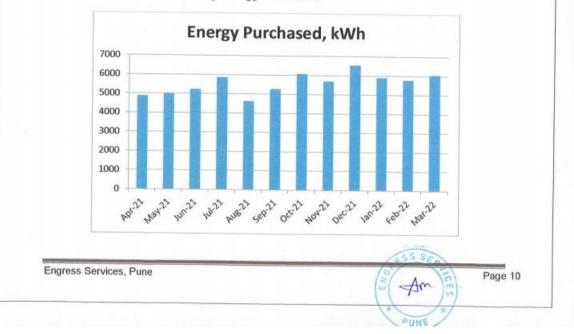


CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 2: Electrical Energy & LPG Consumption Analysis- 2021-22:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Apr-21	4872	4
2	May-21	5000	8
3	Jun-21	5233	14
4	Jul-21	5855	12
5	Aug-21	4622	19
6	Sep-21	5274	38
7	Oct-21	6074	38
8	Nov-21	5695	19
9	Dec-21	6541	19
10	Jan-22	5891	19
11	Feb-22	5782	38
12	Mar-22	6042	38
13	Total	66881	266
14	Maximum	6541	38
15	Minimum	4622	4
16	Average	5573.42	22.17

Chart No 1: Variation in Monthly Energy Purchased:







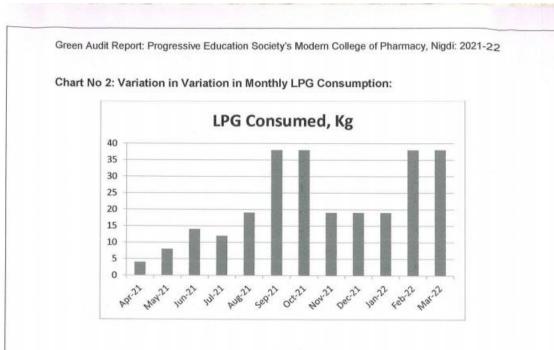


Table No 3: Variation in Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg
1	Total	66881	266
2	Maximum	6541	38
3	Minimum	4622	4
4	Average	5573.42	22.17

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CHAPTER III STUDY OF CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO2 Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO₂ into atmosphere

Based on the above Data we compute the CO_2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT	
1	Apr-21	4872	4	4.40	
2	May-21	5000	8	4.52	
3	Jun-21	5233	14	4.75	
4	Jul-21	5855	12	5.30	
5	Aug-21	4622	19	4.21	
6	Sep-21	5274	38	4.85	
7	Oct-21	6074	38	5.57	
8	Nov-21	5695	19	5.18	
9	Dec-21	6541	19	5.94	
10	Jan-22	5891	19	5.35	
11	Feb-22	5782	38	5.31	
12	Mar-22	6042	38	5.54	
13	Total	66881	266	60.91	
14	Maximum	6541	38	5.94	
15	Minimum	4622	4	4.21	
16	Average	5573.42	22.17	5.08	







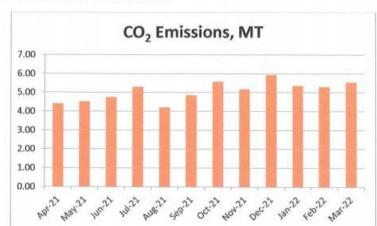


Chart No 3: Month wise CO2Emissions:

Table No 5: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT	
1	Total	66881	266	60.91	
2 3	Maximum Minimum	6541 4622	38	5.94 4.21	

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CHAPTER IV STUDY OF USAGE OF RENEWABLE ENERGY

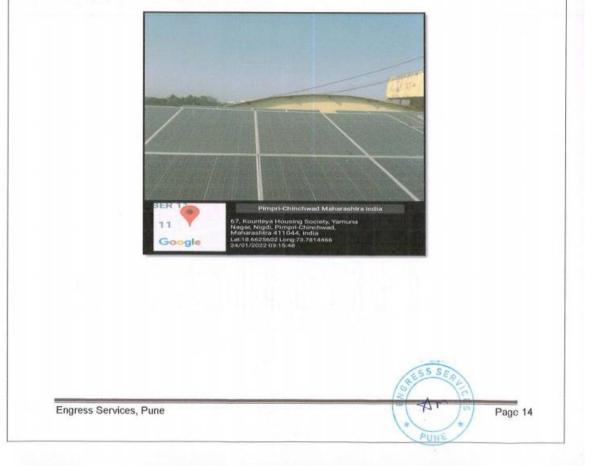
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO_2 Emissions due to installation of Roof Top Solar PV Plant.

Table No6: Computation of Annual Reduction in CO2 Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 21-22	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:





CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper waste is handed over to Authorized Agency for further action.

Photograph of Waste Collection Bins:



5.2 Organic Waste Management:

It is recommended to install Bio Composting Unit to convert the Bio degradable Waste into Bio compost, which can be used in the internal garden.

5.3 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste.

Photograph of Sanitary Waste Incinerator:



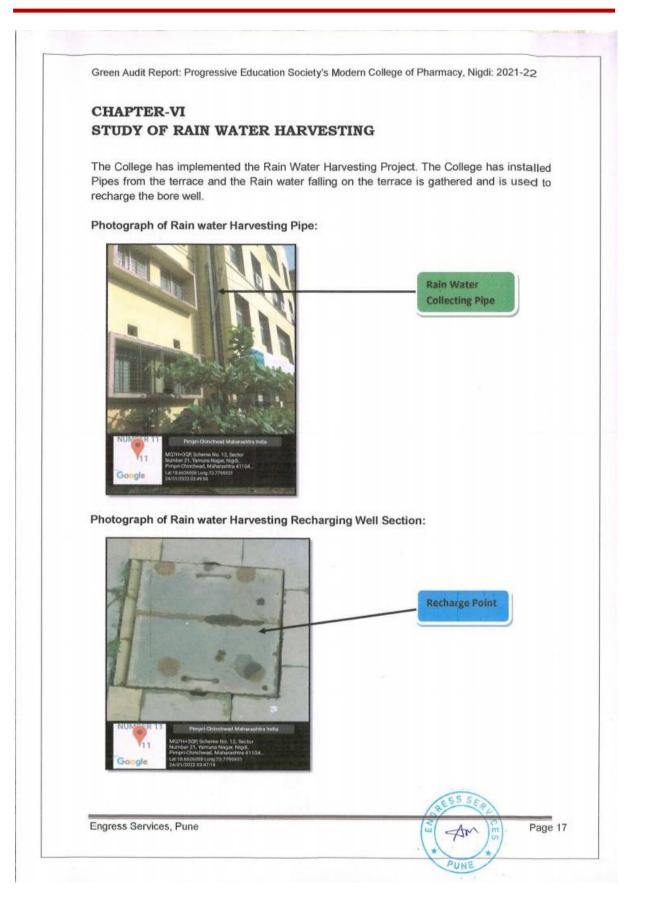




Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 5.4 Bio Medical Waste Management: The College has entered a Memorandum of understanding with M/s. PASCO, for disposal of Bio Medical Waste. 5.5 Chemical Laboratory Waste Management: The College is following the concept of Green Synthesis; hence, no Chemical Laboratory Waste is generated. 5.6 E-Waste Management: It is recommended to dispose of the E Waste through Authorized Agency. A Engress Services, Pune Page 16







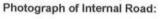




CHAPTER-VII **STUDY OF GREEN & SUSTAINABLE PRACTICES**

7.1 Pedestrian Friendly Roads:

The College has well maintained internal road to facilitate the easy movement of the students within the campus.





7.2 Internal Tree Plantation: The College has well maintained Tree Plantation in the campus. Photograph of Tree plantation:



Engress Services, Pune





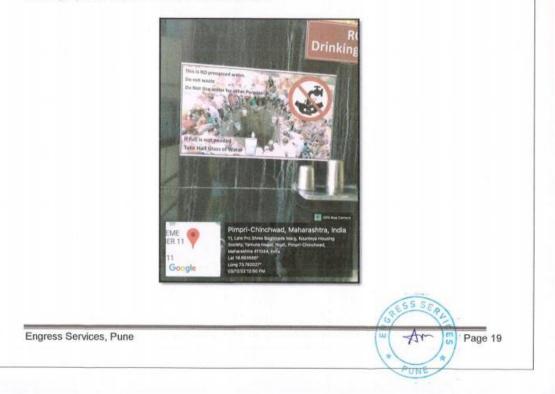
7.3 Provision of Ramp:

For easy movement of Divyangajan, the College has made provision of Ramp. Photograph of Ramp:



7.4 Creation of Awareness about Energy Conservation:

The College has displayed posters emphasizing on importance of Resource Conservation. Photograph of Poster on Water Conservation:







7.5 Tree Plantation Program under Mazi Vasundhara Abhiyan:

The College, under the NSS, conducted Mazi Vasundhara Program. Tree Plantation was done.

Photograph of Tree Plantation under Mazi Vasundhara Abhiyan:



7.6 Cleanliness Drive Program:

Under, NSS, Cleanliness Drive was conducted in the Village: Jamavade, in Taluka: Maval of Pune District.

Photograph of Cleanliness Drive Event:







ANNEXURE-1: DETAILS OF TREES& PLANTS:

1. List of Trees:

No	Common Name Of Tree	Qty
1	Palm	130
2	Audumbar	2
3	Ficus	10
4	Pimpal	1
5	Palas	1
6	Ashoka	2
7	Sonchampa	2
8	Chrismas	3
9	Mango	1
10	Chikoo	1
11	Rubber	1
12	Umberell Palm	5
13	Ticoma	2
14	Papaya	1
15	Shevri	1
16	Tagar	1
17	Ixzora	4
18	Kadunim	3
19	Total	171

2. List of Ornamental Plants:

No	Common Name	
1	Coleus	
2	Drecena	
3	Song Of India	
4	Hibiscus	
5	Gokarna	
6	Cactus	
7	Tulsi	
8	Rose	
9	Jai	

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3. List of Medicinal Plants:

No.	Botanical Name	No.	Botanical Name
1.	Adhatodavasica	29.	Lawsoniainermis
2.	Aegle marmelos	30.	Magnolia champaca
3.	Aloe barbadensis	31.	Mangiferaindica
4.	AndrographispaniculataNees.	32.	Mimosa pudica
5.	Annona reticulate L	33.	Musa acuminata
6.	Asparagus racemosusWild.	34.	Myristicafragrans
7.	Azadirachtaindica	35.	Pimentadioica
8.	Bergerakoenigii	36.	Piper betel
9.	Butea monosperma	37.	Piper longum
10.	Cassia angustifolia	38.	Piper nigrum
11.	Catharanthusroseus	39.	Pongamiapinnata
12.	Centellaasiatica	40.	Pterocarpussantalium
13.	Chrysalidocarpuslutescens	41.	Ricinuscommunis
14.	CinnamomumzeylanicumBreyn.	42.	Rutagraveolens
15.	Citrus limon	43.	Sapindusmukorossi
16.	Costusigneus	44.	Saraca asoca
17.	Curcuma amada	45.	Syzygium aromaticum
18.	Curcuma longa	46.	Syzygiumcumini
19.	Cymbopogon citrates	47.	Tamarindusindica
20.	Elettariacardamomum	48.	Terminalia arjuna
21.	Eucalyptus globules	49.	Terminalia bellirica
22.	Ficusglomerata	50.	Terminalia chebula
23.	Ficusracemosa	51.	Tinosporacordifolia
24.	Gymnemasylvestre	52.	Trachyspermumammi
25.	Helicteresisora	53.	VitexnegundoL
26.	Hemidesmusindicus	54.	Withaniasomnifera
27.	Hibiscus rosa-sinensis	55.	Eleocarpusganitrus
28.	Kalanchoepinnata	56.	Cinamomumcamphora
29.	Bryophyllumpinnatum		

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ENERGY AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2021-22

Prepared by:

ENGRESS SERVICES

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795, Email: engress123@gmail.com







Energy	Audit Report: Progressive Edu	acation Society's Modern Coll	ege of Pharmacy, Nigdi: 2021	-22
	345	MAHARASHTRA ENERG shtra Energy Developm (Government of Maharashtra Institut picer College Road, Near Commission Aundh, Pune, Maharashtra 41106;	ion) serate of Animal Husbandary,	
	Email:	Ph No: 020-35000450 cec@mahaurja.com, Web: www.maha	urja.com	
	ECN/2022-23/CR-43/1709		10 th May, 2022	
	CE	RTIFICATE OF REGISTRAT	ION	
		FOR CLASS 'A'		
	MAHARASHTRA ENERG	that, the firm having following p <i>Y DEVELOPMENT AGENCY (MEI</i> Auditor" in Maharashtra for Energy	DA) under given category as	
	Name and Address of the fi	rm : M/s Engress Services Yashshree, 26, Nirmal Bag S Near Muktangan English Sch Parvati, Pune – 411 009.		
	Registration Category	: Empanelled Consultant fo Programme for Class 'A'	or Energy Conservation	
	Registration Number	: MEDA/ECN/2022-23/Class	A/EA-32.	
		rogramme intends to identify areas w the scope for Energy Conservation ergy savings.		
	 MEDA reserves the rig quarterly activities perfor is found incorrect. 	ht to visit at any time without giving prmed by the firm and canceling the re	g prior information to verify gistration, if the information	
	 This empanelment is va energy audits under the 	did till 09 th May, 2024 from the date Energy Conservation Programme	of registration, to carry out	
	 The Director General, without assigning any re 	MEDA reserves the right to cancel asons thereof.	the registration at any time	
			General Manager (EC)	
		4		
			RESSSER	
Engres	s Services, Pune		(Am)	Page 2





Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 **ENGRESS SERVICES** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: engress123@gmail.com Ref: ES/MCOP/21-22/01 Date: 11/6/2022 CERTIFICATE This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2021-22. .The College has adopted following Energy Efficient Practices: Usage of Energy Efficient LED Fittings > Usage of BEE STAR Rated Energy Efficient Equipment Maximum usage of Day Lighting Installation of 10 kWp Roof Top Solar PV Plant We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient. For Engress Services, Mehendale A Y Mehendale, Certified Energy Auditor UN EA-8192 Engross Services, Pune Page 3





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3	Study of Present Energy Consumption	11
4	Study of Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

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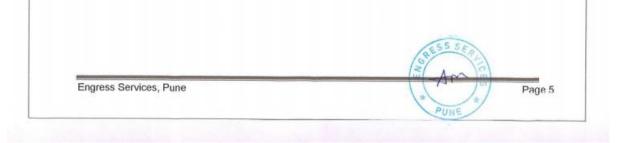


ACKNOWLEDGEMENT

We Engress Services, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College Of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 21-22,

Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22

We are thankful to all the Staff members for helping us during the field study.







EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG used for various Electrical Equipment, office & other facilities.

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No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	66881	266	60.91
2	Maximum	6541	38	5.94
3	Minimum	4622	4	4.21
4	Average	5573.42	22.17	5.08

3. Energy Conservation projects already installed:

- Usage of Energy Efficient LED fittings
- Maximum Usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant

4. Usage of Alternate Energy:

- The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- Energy purchased from MSEDCL is 66881 kWh.
- Energy generated by Roof Top Solar PV Plant is 12000 kWh.
- The Annual Energy Demand of the College is: 78881 kWh.
- The percentage of Usage of Alternate Energy to Annual Energy Demand is 15.21 %.

5. Usage of LED Lighting:

- The Total Lighting Load of the College is 16.90 kW.
- The Total LED Lighting Load of the College is 2.16 kW.
- The percentage of LED Lighting to Total Lighting Load is 15.45 %.

6. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere
- 3. 1 kWp Roof Top Solar PV Plant generates 4 kWh of Electrical Energy per Day.
- 4. Annual Solar Energy Generation Days: 300 Nos.

7. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Roof Top Solar PV Plant Energy generation: www.solarroftop.gov.in

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ABBREVIATIONS

LED	1	Light Emitting Diode
MSEDCL	÷	Maharashtra State Electricity Distribution Company Limited
IQAC	1	Internal Quality Assurance Cell
BEE	+	Bureau of Energy Efficiency
FTL	:	Fluorescent Tube Light
CFL	1	Compact Fluorescent Light
PV	1	Photo Voltaic
Kg	:	Kilo Gram
kWh	:	kilo-Watt Hour
CO ₂	1	Carbon Di Oxide
MT	;	Metric Ton

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Engress Services, Pune	PUNE Page 7





CHAPTER-I INTRODUCTION

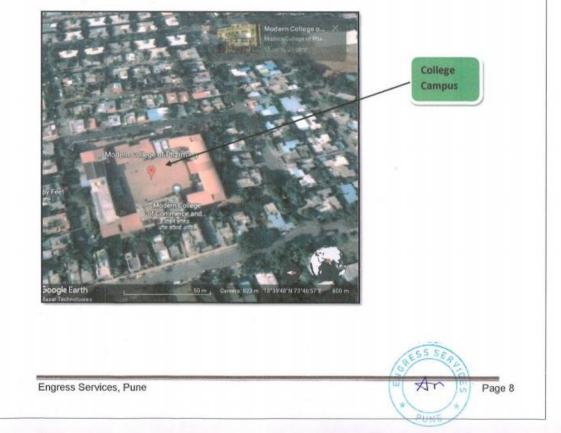
1.1 Objectives:

- 1. To study Connected Load and Present Energy Consumption
- 2. To Study the present CO2 emissions
- 3. To study usage of Alternate Energy
- 4. To study usage of LED Lighting

1.2 Table No 1: General Details of the College:

No	Head	Particulars
1	Name of Institution	Progressive Education Society's Modern College of Pharmacy
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044
3	Year of Establishment	1998
4	Affiliation	Savitribai Phule Pune University

1.3 Google Earth Image:







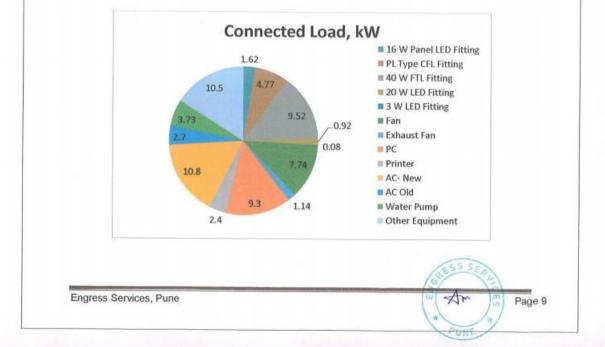
CHAPTER-II STUDY OF CONNECTED LOAD

The major contributors to the connected load of the College include:

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	16 W Panel LED Fitting	101	16	1.62
2	PL Type CFL Fitting	149	32	4.77
3	40 W FTL Fitting	238	40	9.52
4	20 W LED Fitting	46	20	0.92
5	3 W LED Fitting	25	3	0.08
6	Fan	119	65	7.74
7	Exhaust Fan	22	52	1.14
8	PC	62	150	9.30
9	Printer	16	150	2.40
10	AC- New	6	1800	10.80
11	AC Old	1	2700	2.70
12	Water Pump	1	3730	3.73
13	Other Equipment	70	150	10.50
14	Total		-	65.21

Chart No 1: Study of Connected Load:







CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

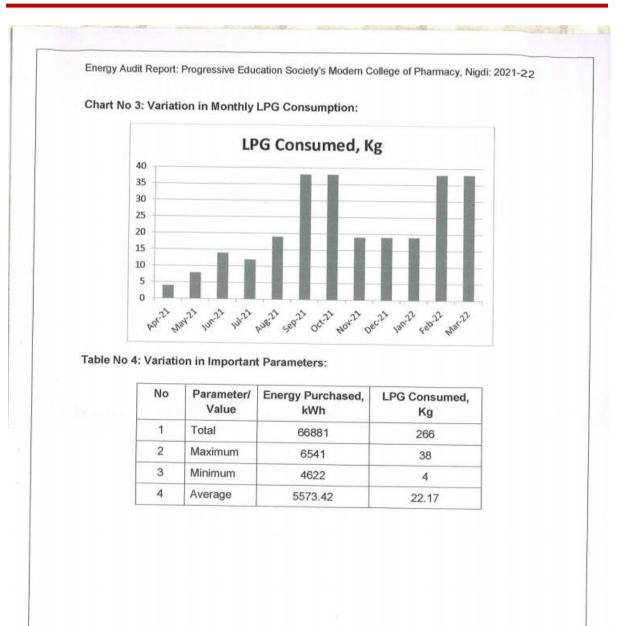
In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 3: Electrical Energy & LPG Consumption Analysis- 2021-22:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Apr-21	4872	4
2	May-21	5000	8
3	Jun-21	5233	14
4	Jul-21	5855	12
5	Aug-21	4622	19
6	Sep-21	5274	38
7	Oct-21	6074	38
8	Nov-21	5695	19
9	Dec-21	6541	19
10	Jan-22	5891	19
11	Feb-22	5782	38
12	Mar-22	6042	38
13	Total	66881	266
14	Maximum	6541	38
15	Minimum	4622	4
16	Average	5573.42	22.17









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Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2021-22 CHAPTER-IV STUDY OF CARBON FOOTPRINTING A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities The College uses Electrical Energy and LPG as the Energy Source. Basis for computation of CO2 Emissions: 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere ٠ Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations Table No 5: Month wise CO₂ Emissions: No Month Energy Purchased, LPG Consumed, CO₂ Emissions, kWh Kg MT 4872 1 Apr-21 4 4.40 2 May-21 5000 8 4.52 3 Jun-21 5233 14 4.75 4 Jul-21 5855 12 5.30 5 Aug-21 4622 19 4.21 6 Sep-21 5274 38 4.85 7 Oct-21 6074 38 5.57 8 Nov-21 5695 19 5.18 9 Dec-21 6541 19 5.94 10 Jan-22 5891 19 5.35 11 Feb-22 5782 38 5.31 12 Mar-22 6042 38 5.54 13 Total 66881 266 60.91 14 Maximum 6541 5.94 38 15 Minimum 4622 4 4.21 16 Average 5573.42 22.17 5.08 Page 12

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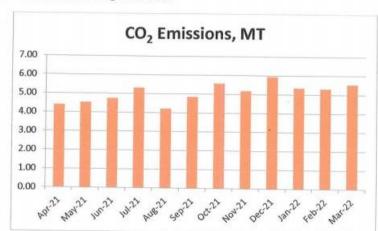


Chart No 4: Month wise CO2Emissions:

Table No 6: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	66881	266	60.91
2	Maximum	6541	38	5.94
3	Minimum	4622	4	4.21
4	Average	5573.42	22.17	5.08

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CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

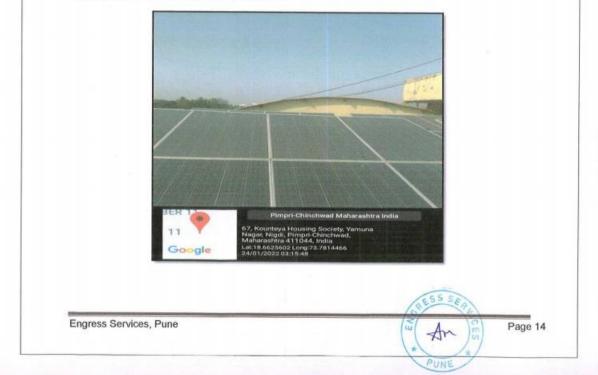
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the percentage of Usage of Alternate Energy to Annual Energy Demand of the College.

Table No 7: Computation of % Annual Energy Demand met by Alternate Energy:

Particulars	Value	Unit
Energy Purchased from MSEDCL	57606	kWh
Installed Roof Top Solar PV Plant Capacity	10	kWp
Average Daily Energy Generated	4	kWh/kWp
Annual Generation Days	300	Nos
Annual Solar Energy Generated	12000	kWh
Total Energy Demand = (1) + (5)	69606	kWh
% of Usage of Alternate Energy to Total Annual Energy Demand= (5)*100/ (6)	17.24	%
	Energy Purchased from MSEDCL Installed Roof Top Solar PV Plant Capacity Average Daily Energy Generated Annual Generation Days Annual Solar Energy Generated Total Energy Demand = (1) + (5) % of Usage of Alternate Energy to Total Annual Energy Demand=	Energy Purchased from MSEDCL 57606 Installed Roof Top Solar PV Plant Capacity 10 Average Daily Energy Generated 4 Annual Generation Days 300 Annual Solar Energy Generated 12000 Total Energy Demand = (1) + (5) 69606 % of Usage of Alternate Energy to Total Annual Energy Demand= 17.24

Photograph of Roof Top Solar PV Plant:





CHAPTER VI STUDY OF USAGE OF LED LIGHTING

In this chapter, we compute the percentage of usage of LED Lighting to Total Lighting Load.

Table No 8: Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	238	Nos
2	Demand of 40 W FTL Fitting	40	W/Uni
3	Total Electrical Load of 40 W FTL Fittings	9.52	kW
4	No of 20 W LED Tube Lights	46	Nos
5	Demand of 20 W LED Tube Light	20	W/Uni
6	Total Electrical Load of 20 W LED Fittings	0.92	kW
7	No of 16 W Panel LED Fittings	101	Nos
8	Demand of 16 W Panel LED Fittings	16	W/Uni
9	Total Electrical Load of 16 W Panel LED Fittings	1.62	kW
10	No of 3 W LED Fittings	25	Nos
11	Demand of 3 W LED Fittings	3	W/Uni
12	Total Electrical Load of 3 W LED Fittings	0.075	kW
13	No of PL Type 32 W CFL Fittings	149	Nos
14	Demand of PL Type 32 W CFL Fittings	32	W/Uni
15	Total Electrical Load of PL Type 32 W CFL Fittings	4.768	kW
16	Total LED Lighting Load= 6+9+12	2.61	kW
17	Total Lighting Load=3+6+9+12+15	16.90	kW
18	Annual Lighting Requirement met by LED= 16*100/17	15.45	%

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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index

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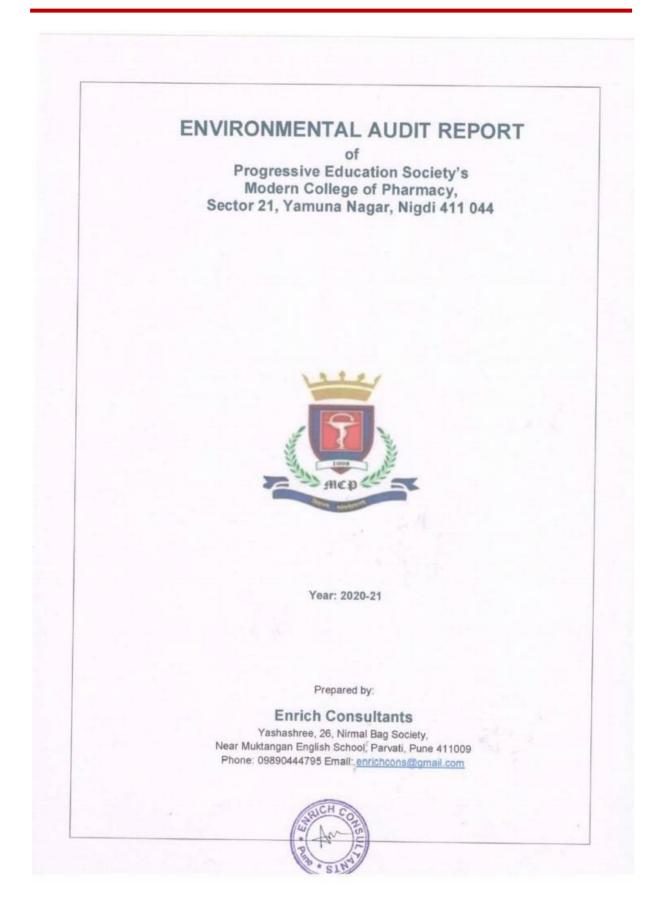




2020-21











Environmen	ntal Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21
1	
T	MAHARASHTRA ENERGY DEVELOPMENT AGENCY
	Maharashtra Energy Development Agency (Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundh, Pune, Maharashtra 411067 Ph.No: 020-35000450 Email: eee@mahaurja.com, Web: www.mahaurja.com
	ECN/2021-22/CR-14/1577 22 nd April, 2021
	FOR CLASS 'A'
	We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA.
	Name and Address of the firm : M/s Enrich Consultants
	Yashashree, Plot No. 26, Nirmal Bag Society. Near Muktangan English School, Parvati,
	• Pune - 411009.
	Registration Category : Empanelled Consultant for Energy Conservation Programme for Class 'A'
	Registration Number : MEDA/ECN/2021-22/Class A/EA-03
	 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
	 MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
	 This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme
	 The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.
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	General Manager (EC)
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	and the second se





Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>

Ref. EC/MCOP/20-21/03

Date: 01/9/2021

CERTIFICATE

This is to certify that we have conducted Environmental Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2020-21.

The College has adopted following Green Initiatives:

- > Usage of Energy Efficient LED Light Fitting
- > Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum Usage of Day Lighting
- Installation of Roof Top Solar PV Plant of Capacity 10 kWp.
- Provision of Separate bins for Dry & Wet Waste
- > Tree Plantation in the campus
- Provision of Sanitary Waste Incinerator

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Enrich Consultants,

Ametodale

A Y Mehendale, Certified Energy Auditor EA-8192

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	INDEX	
Sr. No	Particulars	Page No
1	Acknowledgement	5
	Executive Summary	6
III	Abbreviations	8
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1	Study of Consumption of Resources & CO ₂ Emission	11
2	Study of CO ₂ Emission Reduction	13
3	Study of Indoor Air Quality	14
4	Study of Indoor Comfort Condition Parameters	15
6	Study of Waste Management	18
7	Study of Rain water Harvesting	19
8	Study of Environment Friendly Initiatives	20
8	Annexure	
1	Various Standards in respect of Indoor Air Quality, Water, Noise & Indoor Comfort Condition	22

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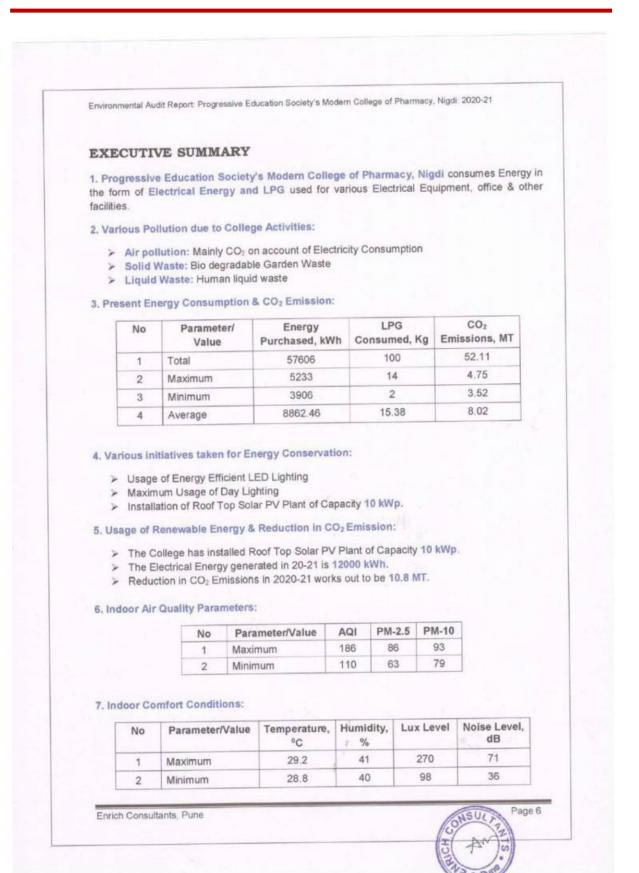




Environmental Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21 ACKNOWLEDGEMENT We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044 , for awarding us the assignment of Environmental Audit of their Campus for the Academic Year: 20-21. We are thankful to all the Staff members for helping us during the field study. Page 5 Enrich Consultants, Pune

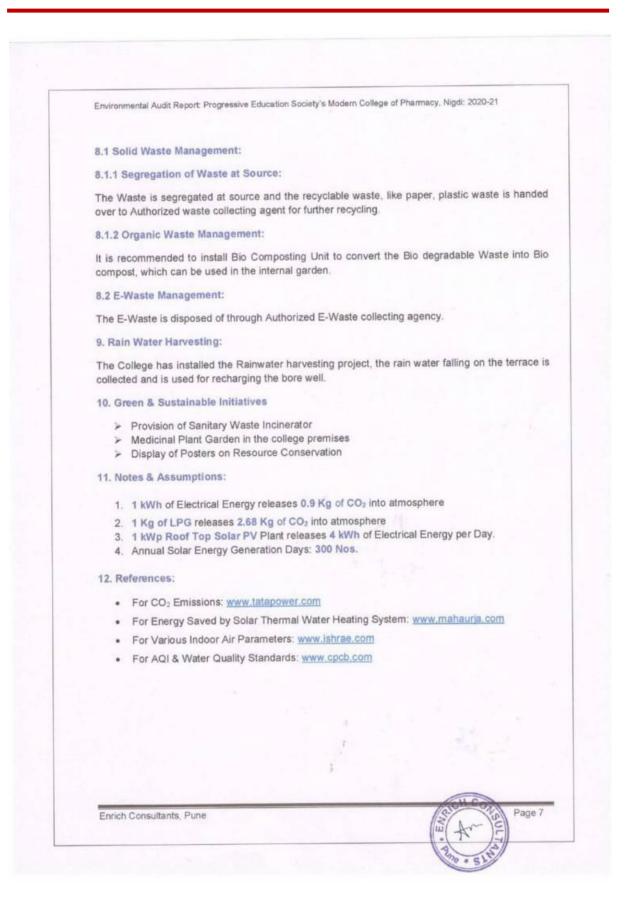
















ABBREVIATIONS

Kg	ł	Kilo Gram
MSEDCL	×.	Maharashtra State Distribution Company Limited
MT	3	Metric Ton
kWh	1	kilo-Watt Hour
LPD	ż	Liters per Day
LED	÷.	Light Emitting Diode
AQI	3	Air Quality Index
PM-2.5	¢	Particulate Matter of Size 2.5 Micron
PM-10	3	Particulate Matter of Size 10 Micron
CPCB	ŝ	Central Pollution Control Board
ISHRAE	4	The Indian Society of Heating & Refrigerating & Air Conditioning Engineers

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CHAPTER-I INTRODUCTION

1.1 Important Definitions:

1.1.1 Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

1.1.5. Some Important Environmental Rules in India: Table No-2:

1000	Hazardous Waste (Management and Handling) Rules
1989	Hazardous waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules
2011	E-waste (Management and Handling) Rules

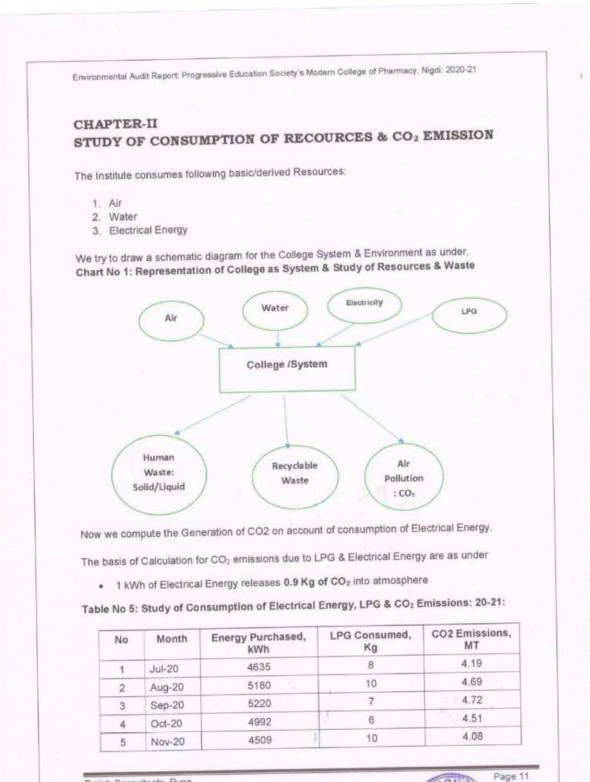
Page 9

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		ssive Education Society's Modern College of Pharmacy, Nigdi: 2020-21
	2011 Nationa	al Green Tribunal (Practices and Procedure) Rules
	2011 Plastic	Waste (Management and Handling) Rules
1.	ational Environmenta National Forest Polic National Water Policy	al Plans & Policy Documents: Table No-3:
2.	National Environmen	t Policy or NEP (2006)
4.	National Conservatio 1992	in Strategy and Policy Statement on Environment and Development,
5.	Policy Statement for	Abatement of Pollution (1992)
6.	National Action Plan	on Climate Change Environment and Human Health
7.	Technology Vision 20	030 (The Energy Research Institute)
9.	Addressing Energy S	Security and Climate Change (MoEF and Bureau of Energy Efficiency
10	The Road to Copenh	agen; India's Position on Climate Change Issues (MoEF)
· · ·	To Study of Rain Wat To Study of Sustainal	ble Initiatives
	neral Details of Colle	ge: Table No 4:
	neral Details of Colle Head	ege: Table No 4: Particulars
3 Ge		
3 Ge No	Head	Particulars
3 Ge No 1	Head Name of Institution Address Year of Establishme	Particulars Progressive Education Society's Modern College of Pharmacy Nigdi,Pune-411044 nt
3 Ge No 1 2	Head Name of Institution Address	Particulars Progressive Education Society's Modern College of Pharmacy Nigdi,Pune-411044





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6	Dec-20	4655	12	4.22
7	Jan-21	4448	14	4.04
8	Feb-21	4956	5	4.47
9	Mar-21	3906	2	3.52
10	Apr-21	4872	4	4.40
11	May-21	5000	8	4.52
12	Jun-21	5233	14	4.75
13	Total	57606	100	52.11
14	Maximum	5233	14	4.75
15	Minimum	3906	2	3.52
16	Average	8862.46	15.38	8.02

Chart No 2: Month wise CO2 Emissions:

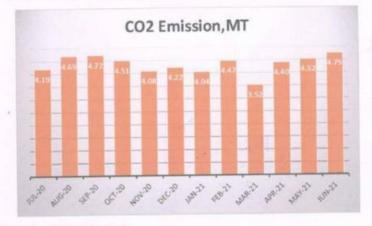


Table No 6: Important Parameters:

No Parameter/ Value		Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions MT	
1	Total	57606	100	52.11	
2	Maximum	5233	14	4.75	
3	Minimum	3906	2	3.52	
4 Average		8862.46	15.38	8.02	

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CHAPTER III STUDY OF CO2 EMISSION REDUCTION

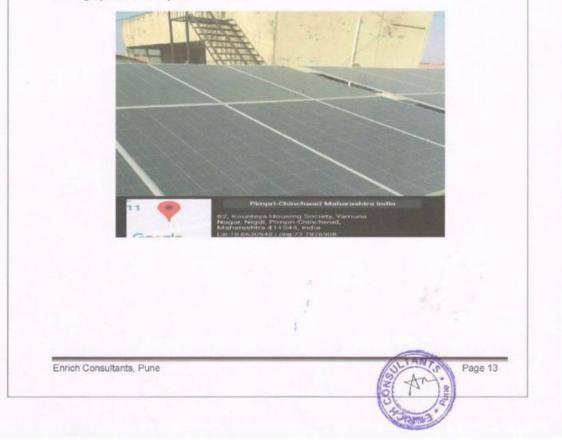
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 7: Computation of Annual Reduction in CO2 Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 20-21	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO2 Saved by Solar PV Plant = (4)*(5) /1000	10.8	MT of CO2

Photograph of Roof Top Solar PV Plant:







CHAPTER IV STUDY OF INDOOR AIR QUALITY

4.1 Importance of Air Quality:

Air: The common name given to the atmospheric gases used in breathing and photosynthesis.

By volume, Dry Air contains 78.09% Nitrogen, 20.95% Oxygen, 0.93% Argon, 0.039% carbon dioxide, and small amounts of other gases.

On average, a person inhales about **14,000 liters** of air every day. Therefore, poor air quality may affect the quality of life now and for future generations by affecting the health, the environment, the economy and the city's livability.

Rapid urbanization and industrialization has added other elements/compounds to the pure air and thus caused the increase in pollution. In order to prevent, control and abate air pollution, the Air (Prevention and Control of Pollution) Act was enacted in 1981.

Air quality is a measure of the suitability of air for breathing by people, plants and animals.

According to Section 2(b) of Air (Prevention and control of pollution) Act, 1981 'air pollution' has been defined as 'the presence in the atmosphere of any air pollutant.'

4.2 Air Quality Index:

An Air Quality Index (AQI) is a number used by government agencies to measure the air pollution levels and communicate it to the population. As the AQI increases, it means that a large percentage of the population will experience severe adverse health effects. The measurement of the AQI requires an air monitor and an air pollutant concentration over a specified averaging period.

We present herewith following important Parameters.

- 1. AQI- Air Quality Index
- 2. PM-2.5- Particulate Matter of Size 2.5 micron
- 3. PM-10- Particulate Matter of Size 10 micron

Table No 8: Indoor Air Quality Parameters:

No	Location	AQI	PM2.5	PM10
	Ground Floor			
1	Entrance Lobby	155	86	92
	Stilt Floor			
1	Dept Of Pharmaceutics	183	85	93
2	Pharmaceutics Lab	140	78	90
3	Faculty Room	173	81	90
4	Pharmaceutical Analysis Lab	123	64	82
5	HOD Pharmaceutical chemistry	186	66	92

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	First Floor			
1	Class Room-II	110	63	79
2	Class Room-IV	150	69	82
3	Tutorial room	120	68	85
4	Tutorial room	125	72	82
5	Exam Section	146	70	82
	Second floor			
1	Administrative Office	123	66	80
2	Pantry	113	66	80
3	Board room	112	68	87
4	Principal Cabin	110	67	88
5	Lobby	125	68	79
6	Pharmacognosy Lab	120	69	82
	Third Floor			
1	Dept Of Pharmacology Faculty	145	70	82
2	Pharmacology Research Lab-I	138	68	80
3	Neuropharmacology Lab	132	76	87
4	Dept Of Pharmaceutical quality assurance	112	67	88
5	Tutorial Room PG-III	125	69	79
6	Tutorial Room PG-IV	122	68	82
	Maximum	186	86	93
	Minimum	110	63	79





CHAPTER V STUDY OF INDOOR COMFORT CONDITION PARAMETERS

In this Chapter, we present the various Indoor Comfort Parameters measured during the Audit. The Parameters include:

- 1. Temperature
- 2. Humidity
- 3. Lux Level
- 4. Noise Level.

Table No 9: Study of Indoor Comfort Condition Parameters:

lo	Location	Location Temperature, °C		Lux Level	Noise Level, dB
-	Ground Floor				00
1	Entrance Lobby	29	40	168	36
	Stilt Floor				41
1	Dept Of Pharmaceutics	28.8	41	202	56
2	Pharmaceutics Lab	28.9	41	130	
3	Faculty Room	28.9	41	136	42.8
4	Pharmaceutical Analysis Lab	29	40	123	41
5	HOD Pharmaceutical chemistry	29.1	41	126	42.6
-	First Floor		-	-	10
1	Class Room-II	28.8	40	186	49
2	Class Room-IV	28.9	41	156	43
3	Tutorial room	29	40	171	42
4	Tutorial room	29.1	41	170	42.1
5	Exam Section	29.1	41	270	46
	Second floor			-	
1	Administrative Office	29	40	263	53.6
2	Pantry	29.1	41	238	42.1
3	Board room	28.9	40	258	56.9
4	Principal Cabin	29	41	137	71
5	Lobby	29.2	41	142	58.4
6	Pharmacognosy Lab	29.2	40	159	56.3
0	Third Floor	4			-
1	Dept Of Pharmacology Facult	y 29.1	40	159	49.3

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2	Pharmacology Research Lab-I	29	40	98	40
3	Neuropharmacology Lab	29	41	114	56
4	Dept Of Pharmaceutical quality assurance	29.1	40	152	41.3
5	Tutorial Room PG-III	29	40	115	56
6	Tutorial Room PG-IV	29	40	157	54
	Maximum	29.2	41	270	71
	Minimum	28.8	40	98	36

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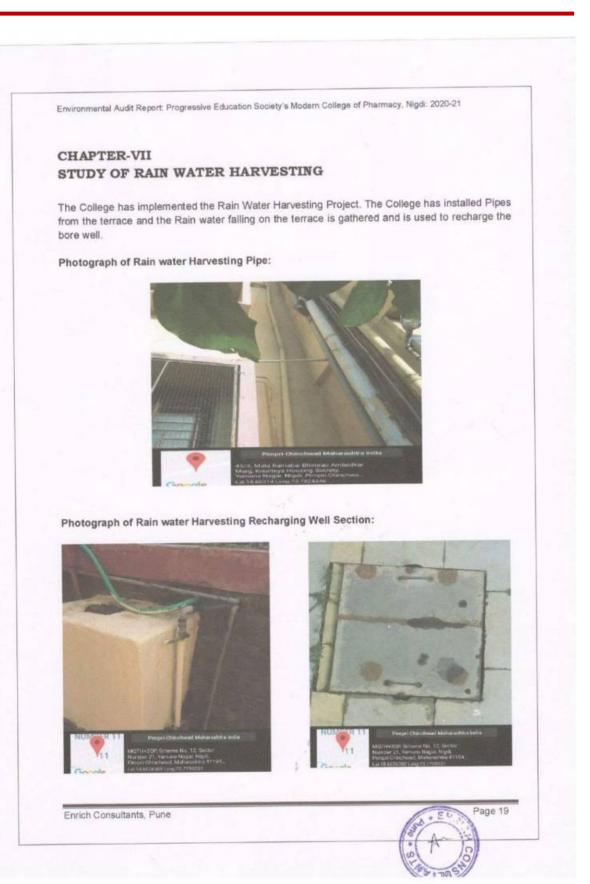




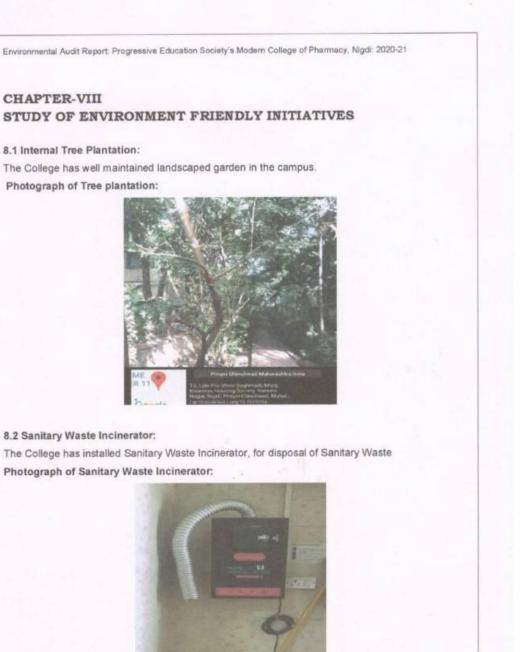












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CHAPTER-VIII STUDY OF ENVIRONMENT FRIENDLY INITIATIVES

8.1 Internal Tree Plantation:

The College has well maintained landscaped garden in the campus.

Photograph of Tree plantation:

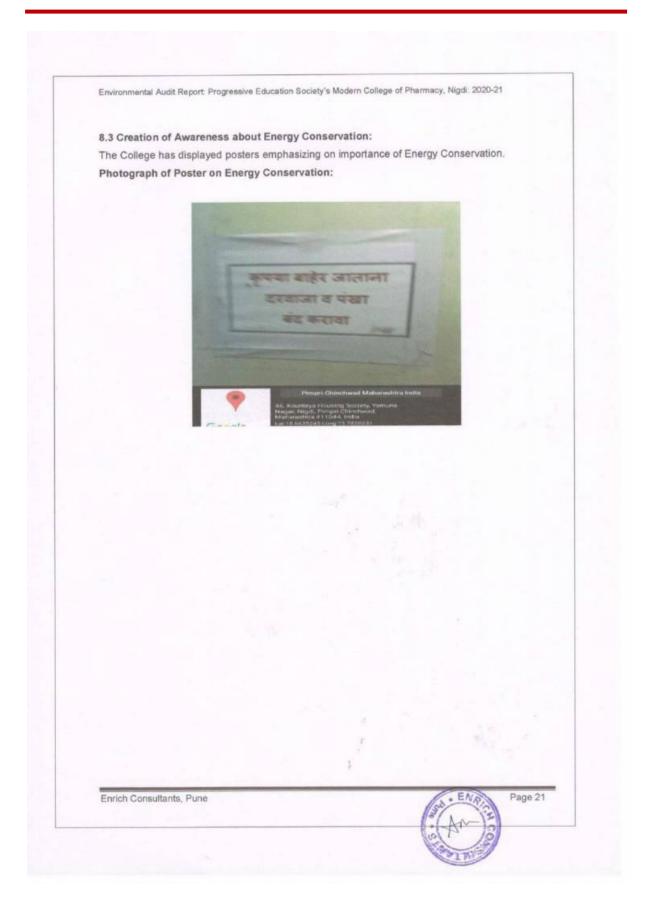
8.2 Sanitary Waste Incinerator:

The College has installed Sanitary Waste Incinerator, for disposal of Sanitary Waste Photograph of Sanitary Waste Incinerator:

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ANNEXURE-I:

VARIOUS AIR QUALITY, WATER QUALITY, NOISE & INDOOR COMFORT STANDARDS:

1. Category Wise Air Quality Index Values & Concentration of PM 2.5 & PM10:

No	Category	AQI Value	Concentration Range, PM 2.5	Concentration Range, PM 10
1	Good	0 to 50	0 to 30	0 to 50
2	Satisfactory	51 to 100	31 to 60	51 to 100
3	Moderately Polluted	101 to 200	61 to 90	101 to 250
4	Poor	201 to 300	91 to 120	251 to 350
5	Very Poor	301 to 400	121 to 250	351 to 430
6	Severe	401 to 500	250 +	430 +

2. Recommended Water Quality Standards:

No	Designated Best Use	Criteria
1	Drinking Water Source without conventional Treatment but after disinfection	pH between 6.5 to 8.5 Dissolved Oxygen 6 mg/l or more
2	Drinking water source after conventional treatment and disinfection	pH between 6 to 9 Dissolved Oxygen 4 mg/l or more
3	Outdoor Bathing (Organized)	pH between 6.5 to 8.5 Dissolved Oxygen 5 mg/l or more
4	Controlled Waste Disposal	pH between 6 to 8.5

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3. Recommended Noise Level Standards:

No	Location	Noise Level dB
1	Auditoriums	20-25
2	Outdoor Playground	55
3	Occupied Class Room	40-45
4	Un occupied Class Room	35
5	Apartment, Homes	35-40
6	Offices	45-50
7	Libraries	35-40
8	Restaurants	50-55

4. Thermal Comfort Conditions: For Non-conditioned Buildings:

No	Parameter	Value
1	Temperature	Less Than 33° C
2	Humidity	Less Than 70%

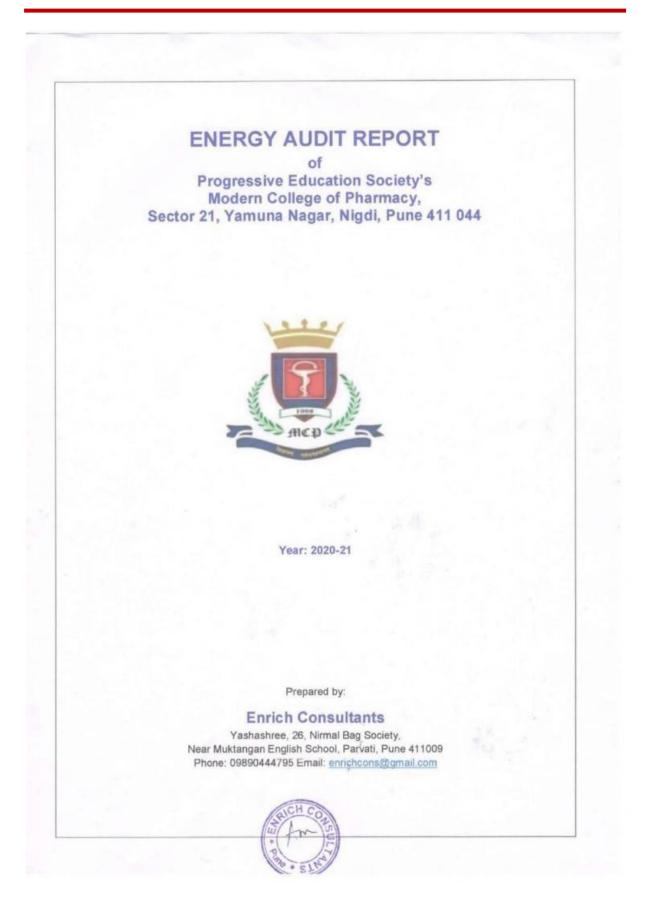
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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index

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	MAHARASHTRA ENERGY DEVELOPMENT AGENCY AN ISO 1001 - 1000 Phys. Rol 10 - 2000	r
	Maharashtra Energy Development Agency (Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundh, Pune, Maharashtra 411067 Ph No: 020-35000450 Email: eee gimahauria.com, Web: www.mahauria.com	
-		-
114	ECN/2021-22/CR-14/1577 22 ^{ad} April, 2021	
	CERTIFICATE OF REGISTRATION	1
	FOR CLASS 'A'	
	We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA,	
51	Name and Address of the firm : M/s Enrich Consultants	
	Yashashree, Plot No. 26, Nirmal Bug Society, Near Muktangan English School, Parvati, Pune - 411009.	
	Registration Category : Empanelled Consultant for Energy Conservation Programme for Class 'A'	
	Registration Number : MEDA/ECN/2021-22/Class A/EA-03	
	 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. 	
-	 MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect. 	
	 This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme 	
1	 The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof. 	
	without assigning any reasons increat.	
	General Manager (EC)	
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Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>

Ref: EC/MCOP/20-21/01

Date: 01/9/2021

CERTIFICATE

This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2020-21.

.The College has adopted following Energy Efficient practices:

- Usage of Energy Efficient LED Fittings
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant

We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient.

For Enrich Consultants,

Amehadal

A Y Mehendale, Certified Energy Auditor EA-8192



Enrich Consultants, Pune





	INDEX	
Sr. No	Particulars	Page No
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3	Study of Present Energy Consumption	11
4	Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

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Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21 ACKNOWLEDGEMENT We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College Of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 20-21. We are thankful to all the Staff members for helping us during the field study. Page 5 Enrich Consultants, Pune





EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdl consumes Energy in the form of Electrical Energy and LPG used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO2 Emission:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	57606	100	52.11
2	Maximum	5233	14	4.75
3	Minimum	3906	2	3.52
4	Average	8862.46	15.38	8.02

3. Energy Conservation projects already installed:

- Usage of Energy Efficient LED fittings
- Maximum Usage of Day Lighting
- Installation of 10 kWp Roof Top Solar PV Plant

4. Usage of Alternate Energy:

- The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- Energy purchased from MSEDCL is 57606 kWh.
- Energy generated by Roof Top Solar PV Plant is 12000 kWh.
- The percentage of Usage of Alternate Energy to Annual Energy Demand is 17.24 %.

5. Usage of LED Lighting:

- The Total Annual Lighting Demand of the College is 15209 kWh.
- The Total Annual LED Lighting Demand is 2350 kWh.
- The percentage of Annual LED Lighting to Annual Lighting Demand is 15.45 %.

6. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere
- 3. Daily working hours-6 Nos (For Lighting Calculations)
- 4. Annual working Days-150 Nos (For Lighting Calculations)
- 5. 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day.
- 6. Annual Solar Energy Generation Days: 300 Nos.

7. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- · For Roof Top Solar PV Plant Energy generation: www.solarroftop.gov.in

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ABBREVIATIONS

LED	÷	Light Emitting Diode
MSEDCL	4	Maharashtra State Electricity Distribution Company Limited
IQAC	÷	Internal Quality Assurance Cell
BEE	÷.	Bureau of Energy Efficiency
FTL	:	Fluorescent Tube Light
CFL	:	Compact Fluorescent Light
PV	÷.	Photo Voltaic
Kg	3	Kilo Gram
kWh	1	kilo-Watt Hour
CO ₂	11	Carbon Di Oxide
MT	1	Metric Ton

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CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study present Energy Consumption
- 2. To Study the present CO2 emissions
- 3. To study usage of Alternate Energy
- 4. To study usage of LED Lighting

1.2 Table No 1: General Details of the College:

No	Head	Particulars
1	Name of Institution	Progressive Education Society's Modern College of Pharmacy
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044
3	Year of Establishment	1998
4	Affiliation	Savitribai Phule Pune University

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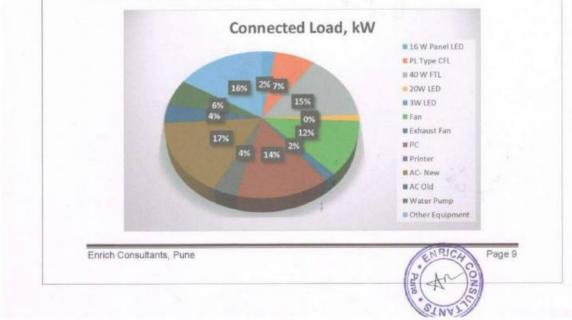
CHAPTER-II STUDY OF CONNECTED LOAD

The major contributors to the connected load of the College include:

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	16 W Panel LED	101	16	1.62
2	PL Type CFL	149	32	4.77
3	40 W FTL	238	40	9.52
4	20W LED	46	20	0.92
5	3W LED	25	3	0.08
6	Fan	119	65	7.74
7	Exhaust Fan	22	52	1.14
8	PC	62	150	9.30
9	Printer	16	150	2.40
10	AC- New	6	1800	10.80
11	AC Old	1	2700	2.70
12	Water Pump	1	3730	3.73
13	Other Equipment	70	150	10.50
14	Total	1.45		65.21

Chart No 1: Study of Connected Load:





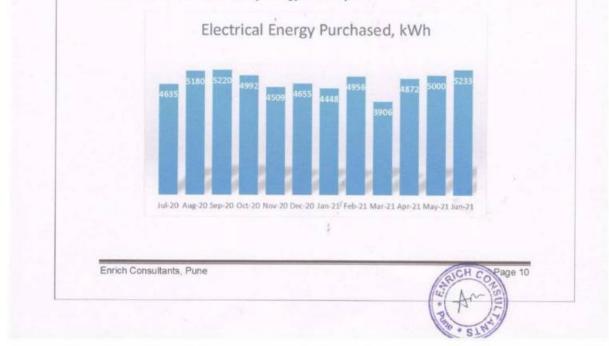


CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 3: Electrical Energy & LPG Consumption Analysis- 2020-21:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Jul-20	4635	8
2	Aug-20	5180	10
3	Sep-20	5220	7
4	Oct-20	4992	6
5	Nov-20	4509	10
6	Dec-20	4655	12
7	Jan-21	4448	14
8	Feb-21	4956	5
9	Mar-21	3906	2
10	Apr-21	4872	4
11	May-21	5000	8
12	Jun-21	5233	14
13	Total	57606	100
14	Maximum	5233	14
15	Minimum	3906	2
16	Average	8862.46	15.38

Chart No 2: Variation in Monthly Energy Consumption:







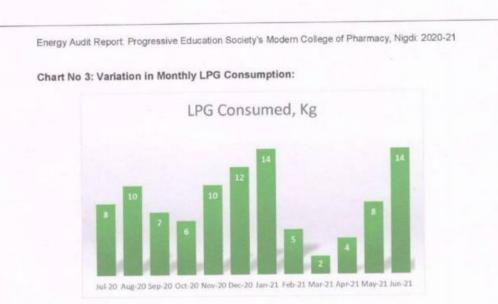


Table No 4: Variation in Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg
1	Total	57606	100
2	Maximum	5233	14
3	Minimum	3906	2
4	Average	8862.46	15.38

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CHAPTER-IV CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO2 Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO₂ into atmosphere

Based on the above Data we compute the CO_2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No 5: Month wise CO2 Emissions:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg	CO2 Emissions, MT
1	Jul-20	4635	8	4.19
2	Aug-20	5180	10	4.69
3	Sep-20	5220	7	4.72
4	Oct-20	4992	6	4.51
5	Nov-20	4509	10	4.08
6	Dec-20	4655	12	4.22
7	Jan-21	4448	14	4.04
8	Feb-21	4956	5	4.47
9	Mar-21	3906	2	3.52
10	Apr-21	4872	4	4.40
11	May-21	5000	8	4.52
12	Jun-21	5233	14	4.75
13	Total	57606	100	52.11
14	Maximum	5233	14	4.75
15	Minimum	3906	2	3.52
16	Average	8862.46	4 15.38	8.02

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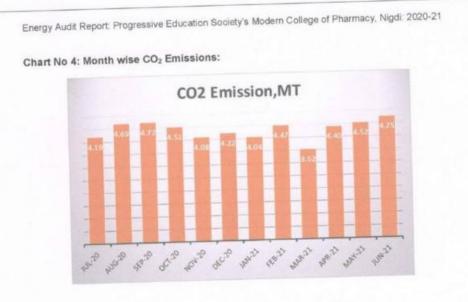


Table No 6: Important Parameters:

Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
Total	57606	100	52.11
	5233	14	4.75
11112	3906	2	3.52
		15.38	8.02
	Value Total Maximum Minimum	Value kWh Total 57606 Maximum 5233	Value kWh Kg Total 57606 100 Maximum 5233 14 Minimum 3906 2

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CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

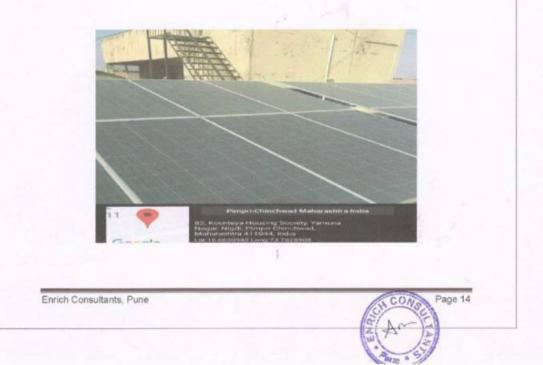
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the percentage of Usage of Alternate Energy to Annual Energy Demand of the College.

Table No 7: Computation of % Annual Energy Demand met by Alternate Energy:

No	Particulars	Value	Unit
1	Energy Purchased from MSEDCL	57606	kWh
2	Installed Roof Top Solar PV Plant Capacity	10	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Generation Days	300	Nos
5	Annual Solar Energy Generated	12000	kWh
6	Total Energy Demand = (1) + (5)	69606	kWh
7	% of Usage of Alternate Energy to Total Annual Energy Demand= (5)*100/ (6)	17.24	%

Photograph of Roof Top Solar PV Plant:







CHAPTER VI STUDY OF USAGE OF LED LIGHTING

In this chapter, we compute the percentage of usage of LED Lighting to Annual Lighting power requirement.

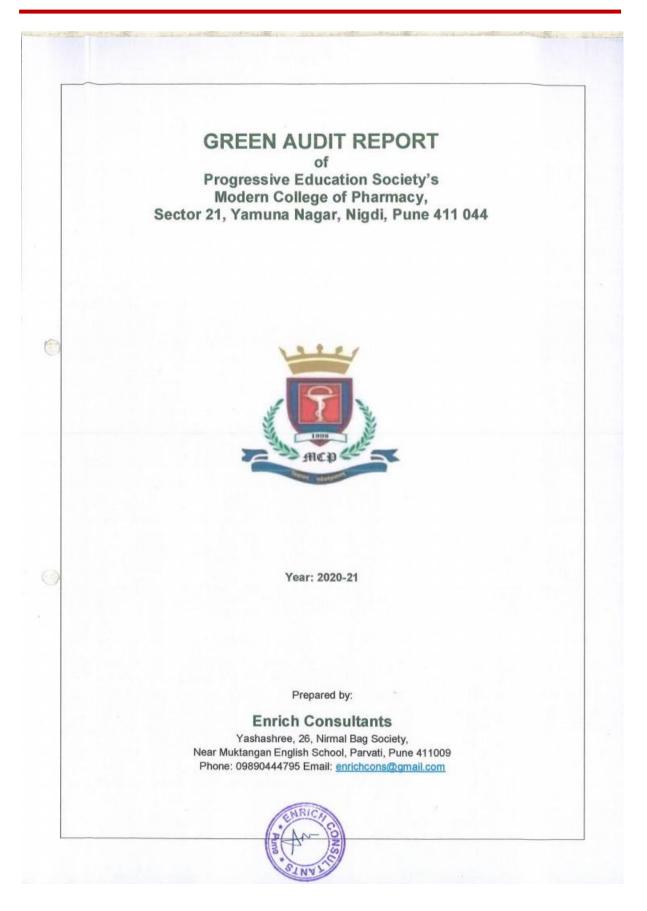
Table No 8: Percentage of Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	238	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Electrical Load of 40 W FTL Fittings	9.52	kW
4	No of 20 W LED Tube Lights	46	Nos
5	Demand of 20 W LED Tube Light	20	W/Unit
6	Total Electrical Load of 20 W LED Fittings	0.92	kW
7	No of 16 W Panel LED Fittings	101	Nos
8	Demand of 16 W Panel LED Fittings	16	W/Unit
9	Total Electrical Load of 16 W Panel LED Fittings	1.616	kW
10	No of 3 W LED Fittings	25	Nos
11	Demand of 3 W LED Fittings	3	W/Uni
12	Total Electrical Load of 3 W LED Fittings	0.075	kW
13	No of PL Type 32 W CFL Fittings	149	Nos
14	Demand of PL Type 32 W CFL Fittings	32	W/Uni
15	Total Electrical Load of PL Type 32 W CFL Fittings	4.768	kW
16	Total Lighting Load=3+6+9+12+15	16.899	kW
17	Total LED Lighting Load= 6+9+12	2.611	kW
18	Average Daily Usage Period	6	Hours
19	Annual Working Days	150	Nos
20	Annual Total Lighting Load = 10*12*13	15209	kWh
21	Annual LED Lighting Load = 11*12*13	2350	kWh
22	Annual Lighting Requirement met by LED= 15*100/14	15.45	%

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Green	Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21
	MAHARASHTRA ENERGY DEVELOPMENT AGENCY
	Maharashtra Energy Development Agency (Government of Maharashtra Institution) Aundh Road, Opposite Spicer College Road, Near Commissionerate of Animal Husbandary, Aundharashtra 411067 Ph No: 020-35000450 Email: ece@mahaurja.com, Web: www.mahaurja.com
	ECN/2021-22/CR-14/1577 22 nd April, 2021
	CERTIFICATE OF REGISTRATION
	FOR CLASS 'A'
	We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA,
	Name and Address of the firm : M/s Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati,
	9 Pune - 411009.
	Registration Category : Empanelled Consultant for Energy Conservation Programme for Class 'A'
	Registration Number : MEDA/ECN/2021-22/Class A/EA-03
	 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings.
	 MEDA reserves the right to visit at any time without giving prior information to verify quarterly activities performed by the firm and canceling the registration, if the information is found incorrect.
	 This empanelment is valid till 21st April, 2023 from the date of registration, to carry out energy audits under the Energy Conservation Programme
	 The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.
	General Manager (EC)
Enrich	Consultants, Pune Page 2





Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi : 2020-21 **Enrich Consultants** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: enrichcons@gmail.com Ref: EC/MCOP/20-21/02 Date: 01/9/2021 CERTIFICATE This is to certify that we have conducted Green Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2020-21. The College has adopted following Green Initiatives: Usage of Energy Efficient LED Light Fitting Usage of BEE STAR Rated Energy Efficient Equipment Maximum Usage of Day Lighting Installation of Roof Top Solar PV Plant of Capacity 10 kWp Provision of Separate bins for Dry & Wet Waste > Maintenance of good Internal Road Tree Plantation in the campus Implementation of Rain Water Harvesting Project Provision of Ramp for Divyangajan Provision of Sanitary Waste Incinerator We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green. For Enrich Consultants. Amehadala A Y Mehendale, Certified Energy Auditor EA-8192 Enrich Consultants, Pune Page 3

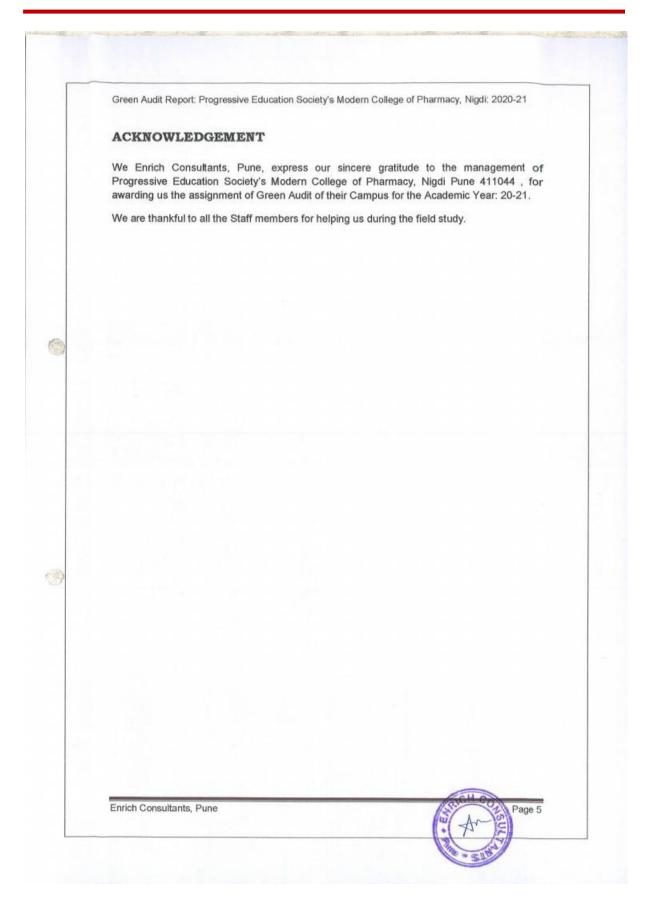




n Audit Report:	Progressive Education Society's Modern College of	Pharmacy, Nigdi: 2020-21	
Sr. No	Particulars	Page No	
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2	Study of Present Energy Consumption	10	
3	Study of Carbon Foot printing	12	
4	Study of Usage of Renewable Energy	14	
5	Study of Waste Management	15	
6	Study of Rain water Harvesting	16	
7	Study of Green & Sustainable Practices	17	
	Annexure		
1	Details of Trees & Plants in the Campus	20	
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EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO₂ Emissions:

Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
Total	57606	100	52.11
Maximum	5233	14	4.75
Minimum	3906	2	3.52
Average	8862.46	15.38	8.02
	Value Total Maximum Minimum	ValuePurchased, kWhTotal57606Maximum5233Minimum3906	ValuePurchased, kWhConsumed, KgTotal57606100Maximum523314Minimum39062

3. Various initiatives taken for Energy Conservation:

- Usage of Energy Efficient BEE STAR Rated Equipment
- Usage of Energy Efficient LED Lighting
- Maximum Usage of Day Lighting
- > Installation of Roof Top Solar PV Plant of Capacity 10 kWp.

4. Usage of Renewable Energy & CO₂ Emission Reduction:

- The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- The Electrical Energy generated in 20-21 is 12000 kWh. .
- Reduction in CO₂ Emissions in 2020-21 works out to be 10.8 MT. ٠

5.1 Solid Waste Management:

5.1.1 Segregation of Waste at Source:

The Waste is segregated at source and the recyclable waste, like paper, plastic waste is handed over to Authorized waste collecting agent for further recycling.

5.1.2 Organic Waste Management:

It is recommended to install Bio Composting Unit to convert the Bio degradable Waste into Bio compost, which can be used in the internal garden.

5.2 E-Waste Management:

The E-Waste is disposed of through Authorized E-Waste collecting agency.

6. Rain Water Harvesting:

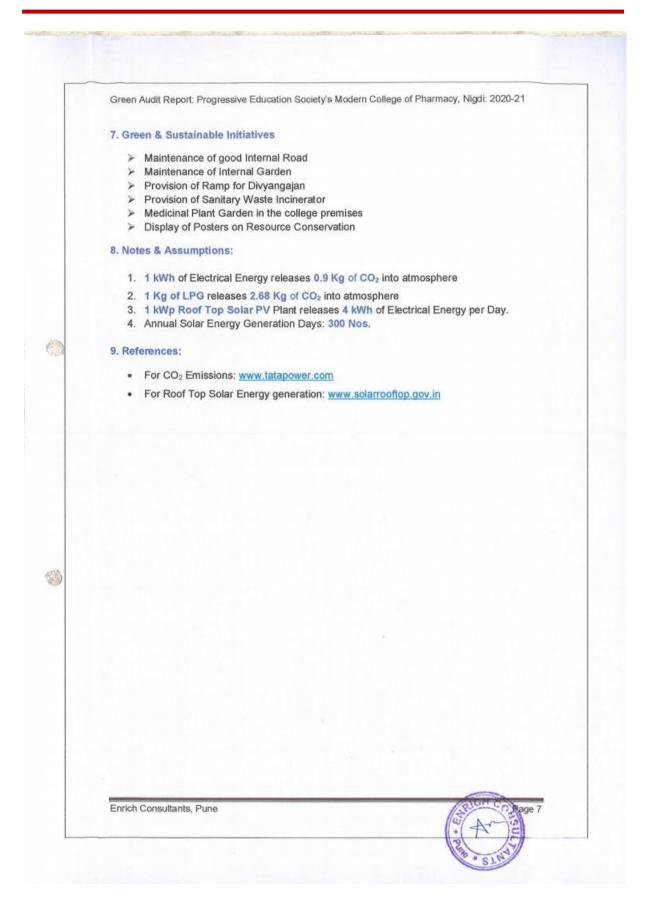
The College has installed the Rainwater harvesting project, the rain water falling on the terrace is collected and is used for recharging the bore well.

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	Green Audi	it Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21
	ABBREVIATIONS	
	BEE	Bureau of Energy Efficiency
	kWh	Kilo Watt Hour
	LPD	Liters Per Day
	Kg	Kilo Gram
	МТ	Metric Ton
	CO2	Carbon Di Oxide
	Qty	Quantity
3		
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CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study present Energy Consumption
- 2. To Study CO2 emissions
- 3. To study usage of Renewable Energy
- 4. Study of Waste Management
- 5. Study of Rain Water Harvesting
- 6. Study of Green & Sustainable Practices

1.2 General Details of College: Table No 1:

No	Head	Particulars	
1 Name of Institution Progressive Education Society's Me		Progressive Education Society's Modern College of Pharmacy	
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044	
3	Year of Establishment	1998	
4	Affiliation	Savitribai Phule Pune University	

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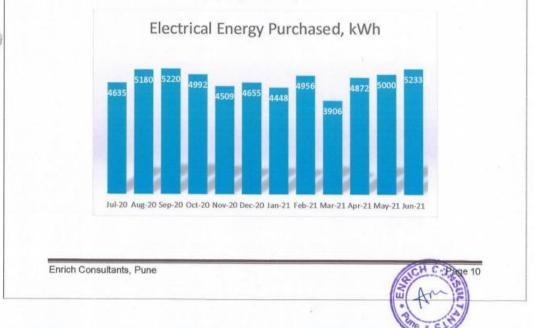


CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 2: Electrical Energy & LPG Consumption Analysis- 2020-21:

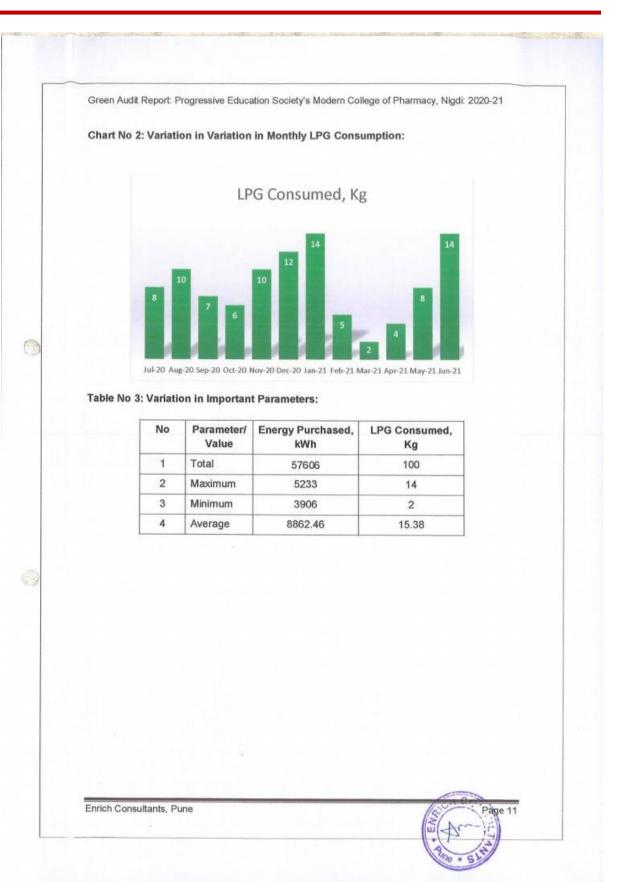
No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Jul-20	4635	8
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3	Sep-20	5220	7
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5	Nov-20	4509	10
6	Dec-20	4655	12
7	Jan-21	4448	14
8	Feb-21	4956	5
9	Mar-21	3906	2
10	Apr-21	4872	4
11	May-21	5000	8
12	Jun-21	5233	14
13	Total	57606	100
14	Maximum	5233	14
15	Minimum	3906	2
16	Average	8862.46	15.38

Chart No 1: Variation in Monthly Energy Consumption:













CHAPTER III STUDY OF CARBON FOOT PRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO₂ Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere ٠

Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

No	Month Energy Purchased, kWh		LPG Consumed, Kg	CO2 Emissions MT	
1	Jul-20	4635	8	4.19	
2	Aug-20	5180	10	4.69	
3	Sep-20	5220	7	4.72	
4	Oct-20	4992	6	4.51	
5	Nov-20	4509	10	4.08	
6	Dec-20	4655	12	4.22	
7	Jan-21	4448	14	4.04	
8	Feb-21	4956	5	4.47	
9	Mar-21	3906	2	3.52	
10	Apr-21	4872	4	4.40	
11	May-21	5000	8	4.52	
12	Jun-21	5233	14	4.75	
13	Total	57606	100	52.11	
14	Maximum	5233	14	4.75	
15	Minimum	3906	2	3.52	
16	Average	8862.46	15.38	8.02	

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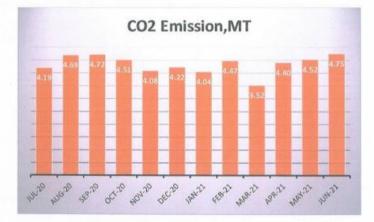


Table No 5: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	57606	100	52.11
2	Maximum	5233	14	4.75
3	Minimum	3906	2	3.52
4	Average	8862.46	15.38	8.02

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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21

CHAPTER IV STUDY OF USAGE OF RENEWABLE ENERGY

The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 6: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 20-21	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant = (4)*(5) /1000	10.8	MT of CO ₂

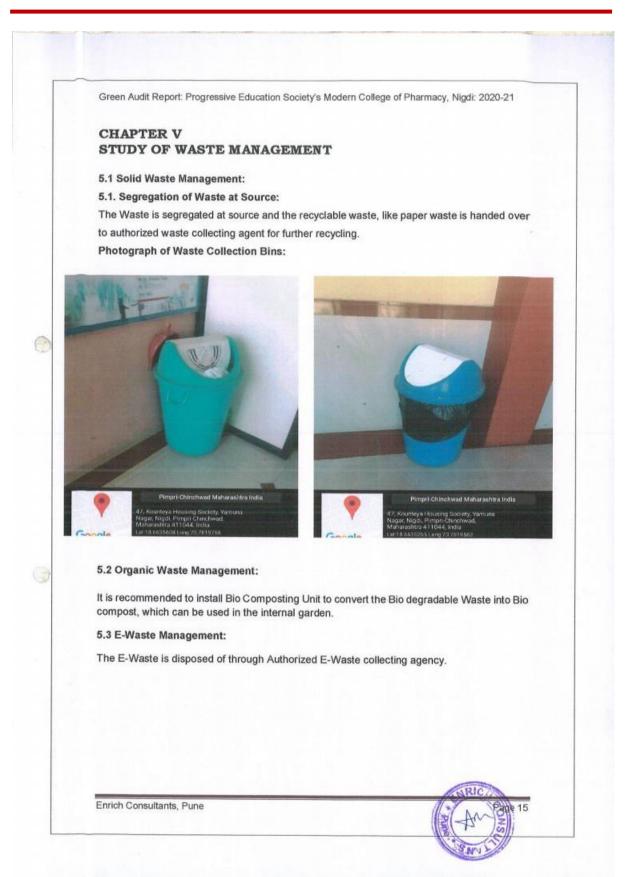
Photograph of Roof Top Solar PV Plant:



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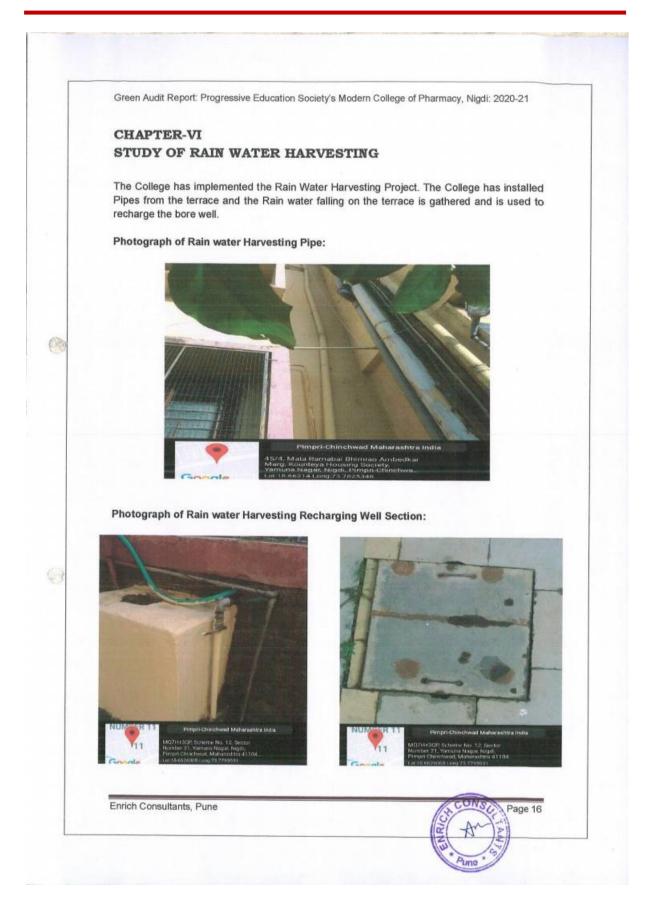
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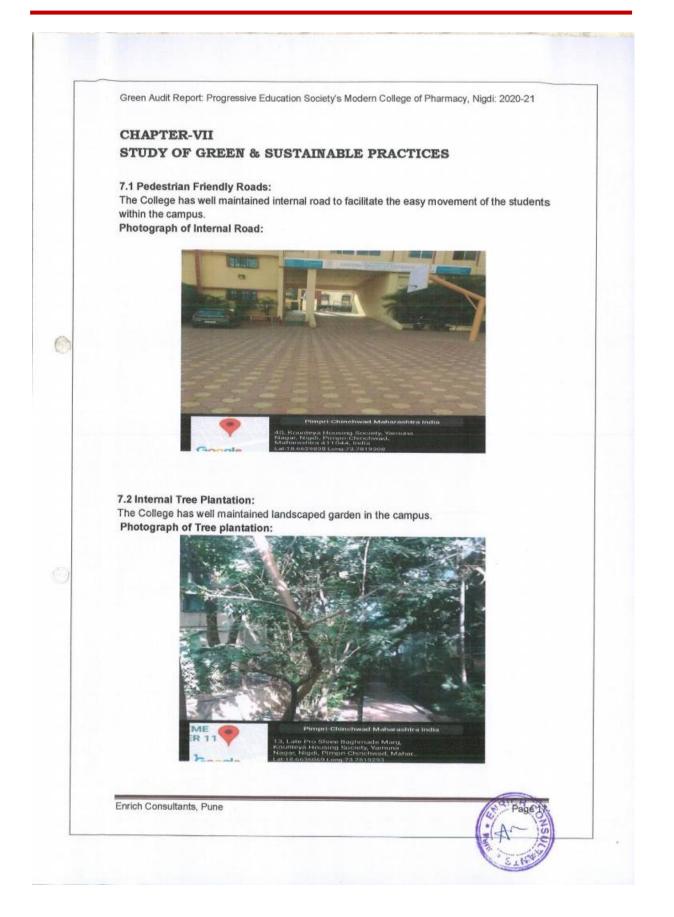










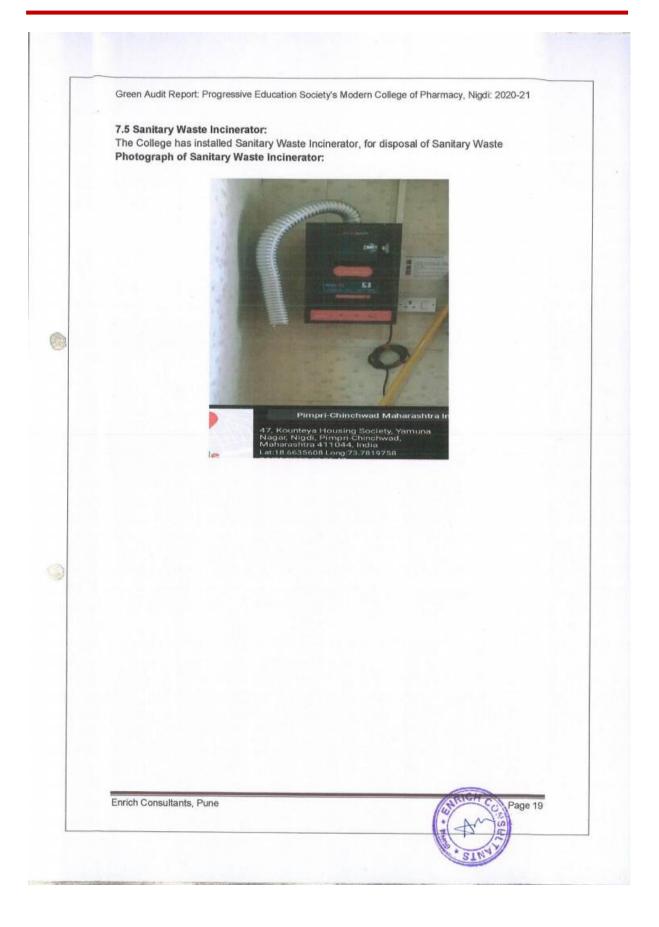














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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21

ANNEXURE-1: **DETAILS OF TREES & PLANTS:**

List of Trees:

No	Common Name Of Tree	Qty
1	Palm	130
2	Audumbar	2
3	Ficus	10
4	Pimpal	1
5	Palas	1
6	Ashoka	2
7	Sonchampa	2
8	Chrismas	3
9	Mango	1
10	Chikoo	1
11	Rubber	1
12	Umberell Palm	5
13	Ticoma	2
14	Papaya	1
15	Shevri	1
16	Tagar	1
17	Ixzora	4
18	Kadunim	3
19	Total	171

List of Ornamental Plants:

No	Common Name
1	Coleus
2	Drecena
3	Song Of India
4	Hibiscus
5	Gokarna
6	Cactus
7	Tulsi
8	Rose
9	Jai

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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2020-21

List Of Medicinal Plants

S.No.	BotanicalName	S.No.	BotanicalName
1.	Adhatodavasica	29.	Lawsoniainermis
2.	Aegle marmelos	30.	Magnolia champaca
3.	Aloe barbadensis	31.	Mangifera indica
4.	Andrographis paniculataNees.	32.	Mimosa pudica
5.	Annona reticulate L	33.	Musa acuminata
6.	Asparagus racemosusWild.	34.	Myristica fragrans
7.	Azadirachta indica	35.	Pimenta dioica
8.	Bergerakoenigii	36.	Piper betel
9.	Butea monosperma	37.	Piper longum
10.	Cassia angustifolia	38.	Piper nigrum
11.	Catharanthus roseus	39.	Pongamia pinnata
12.	Centella asiatica	40.	Pterocarpus santalium
13.	Chrysalidocarpuslutescens	41.	Ricinus communis
14.	Cinnamomum zeylanicum Breyn.	42.	Ruta graveolens
15.	Citrus limon	43.	Sapindusmukorossi
16.	Costusigneus	44.	Saraca asoca
17.	Curcuma amada	45.	Syzygium aromaticum
18.	Curcuma longa	46.	Syzygiumcumini
19.	Cymbopogon citrates	47.	Tamarindus indica
20.	Elettaria cardamomum	48.	Terminalia arjuna
21.	Eucalyptus globules	49.	Terminalia bellirica
22.	Ficus glomerata	50.	Terminalia chebula
23.	Ficus racemosa	51.	Tinospora cordifolia
24.	Gymnemasylvestre	52.	Trachyspermumammi
25.	Helicteresisora	53.	Vitex negundo L
26.	Hemidesmus indicus	54.	Withaniasomnifera
27.	Hibiscus rosa-sinensis	55.	Eleocarpusganitrus
28.	Kalanchoe pinnata	56.	Cinamomumcamphora
29.	Bryophyllumpinnatum	-	

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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index









ENERGY AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2019-20

Prepared by:

Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: enrichcons@gmail.com







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	2 nd Floor, MHADA Co	A Governme ommercial Co Ph No: 0	tergy Developi nt of Maharashtra under omplex, Opp. Tridal Na i20-26614393/26614440 ia.com, Web: www.mal	rtaking) ngar, Yerwada, Pune 411 006, 03
ECN	/2018-19/CR-05/4174			19th September , 2018
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MAL "Ene MEL	IARASHTRA ENERGY rgy Planner & Energy	V DEVELO	PMENT AGENCY (M	particulars is registered with (EDA) under given category as gy Conservation Programme of
Nam	e and Address of the fi	rm :	Enrich Consultants Yashashree, Plot No Near Muktangan En Parvati, Pune - 4110	 26, Nirmal Bag Society, aglish School,
Regi	stration Category	3	Empanelled Consult Programme	tant for Energy Conservation
Regi	stration Number	÷	MEDA/ECN/CR-05/	2018-19/EA-03
	occurs and to evaluate achieve the evaluated er	the scope ergy saving	for Energy Conservat s.	s where wasteful use of energy ion and take concrete steps to out giving any prior information
	and canceling the regist	ration, if the	information is found in	ncorrect.
•	This empanelment is va energy audits under the			date of registration, to carry out
•	The Director General, without assigning any re-			cel the registration at any time
				Arth 19118
				(Smith Kudarikar) General Manager (EC)





Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2019-20 **Enrich Consultants** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: enrichcons@gmail.com Ref: EC/MCOP/19-20/01 Date: 2/7/2020 CERTIFICATE This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2019-20. .The College has adopted following Energy Efficient Practices: Usage of Energy Efficient LED Fittings > Usage of BEE STAR Rated Energy Efficient Equipment Maximum usage of Day Lighting > Installation of 10 kWp Roof Top Solar PV Plant We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient. For Enrich Consultants, Anchedde A Y Mehendale, Certified Energy Auditor EA-8192 Enrich Consultants, Pune Page 3





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2	Study of Connected Load	9
3	Study of Present Energy Consumption	11
4	Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

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ACKNOWLEDGEMENT

Enrich Consultants, Pune

We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College Of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 19-20.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 **Back to Index**

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Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2019-20 EXECUTIVE SUMMARY 1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Electrical Equipment, office & other facilities. 2. Present Energy Consumption & CO₂ Emission: LPG CO2 No Parameter/ Energy Emissions, MT Value Purchased, kWh Consumed, Kg Total 1 60486 304 55.25 2 Maximum 5495 38 5.00 3 Minimum 3.74 4101 19 4 Average 9305.58 46.77 8.50 3. Energy Conservation projects already installed: Usage of Energy Efficient LED fittings Maximum Usage of Day Lighting Installation of 10 kWp Roof Top Solar PV Plant ٠ 4. Usage of Alternate Energy: The College has installed Roof Top Solar PV Plant of Capacity 10 kWp. Energy purchased from MSEDCL is 60486 kWh. Energy generated by Roof Top Solar PV Plant is 12000 kWh. Total Energy Demand of the College is 72486 kWh • . The percentage of Usage of Alternate Energy to Annual Energy Demand is 16.55 %. 5. Usage of LED Lighting: • The LED Lighting Load of the College is 2.512 kW. The Total LED Lighting Load of the College is 17.176 kW. The percentage of Annual LED Lighting to Annual Lighting Demand is 14.63 %. • 6. Assumptions: 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere 2. 1 Kg of LPG releases 2.68 Kg of CO2into atmosphere 3. 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day. 4. Annual Solar Energy Generation Days: 300 Nos. 7. References: For CO₂ Emissions: <u>www.tatapower.com</u> For Roof Top Solar PV Plant Energy generation: www.solarroftop.gov.in HCC Enrich Consultants, Pune Page 6





ABBREVIATIONS

LED	÷	Light Emitting Diode
MSEDCL	:	Maharashtra State Electricity Distribution Company Limited
BEE	1	Bureau of Energy Efficiency
FTL	÷	Fluorescent Tube Light
CFL	;	Compact Fluorescent Light
PV	:	Photo Voltaic
Kg	1	Kilo Gram
kWh	:	kilo-Watt Hour
CO ₂	÷	Carbon Di Oxide
MT	1	Metric Ton

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CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study Connected Load
- 2. To study present Energy Consumption
- 3. To Study the present CO2 emissions
- 4. To study usage of Alternate Energy
- 5. To study usage of LED Lighting

1.2Table No 1: General Details of the College:

Head	Particulars	
Name of Institution	Progressive Education Society's Modern College of Pharmacy	
Address	Sector 21, Yamuna Nagar, Nigdi 411 044	
Year of Establishment	1998	
Affiliation	Savitribai Phule Pune University	
	Name of Institution Address Year of Establishment	Name of Institution Progressive Education Society's Modern College of Pharmacy Address Sector 21, Yamuna Nagar, Nigdi 411 044 Year of Establishment 1998

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Enrich Consulta	ants, Pune			Page 8	В





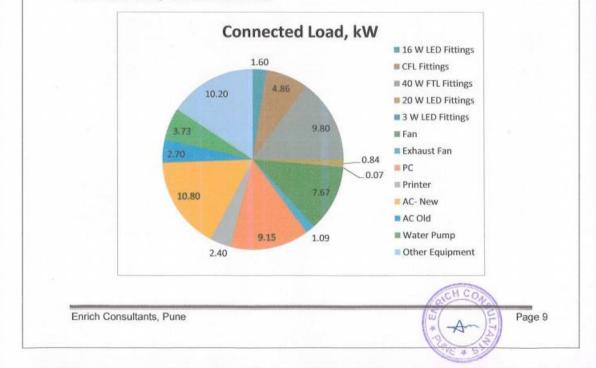
CHAPTER-II STUDY OF CONNECTED LOAD

The major contributors to the connected load of the College include:

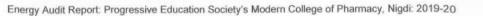
Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	16 W LED Fittings	100	16	1.60
2	CFL Fittings	152	32	4.86
3	40 W FTL Fittings	245	40	9.80
4	20 W LED Fittings	42	20	0.84
5	3 W LED Fittings	24	3	0.07
6	Fan	118	65	7.67
7	Exhaust Fan	21	52	1.09
8	PC	61	150	9.15
9	Printer	16	150	2.40
10	AC- New	6	1800	10.80
11	AC Old	1	2700	2.70
12	Water Pump	1	3730	3.73
13	Other Equipment	68	150	10.20
14	Total			64.92

Chart No 1: Study of Connected Load:







CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 3: Electrical Energy & LPG Consumption Analysis- 2019-20:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Apr-19	4867	19
2	May-19	5439	19
3	Jun-19	5481	19
4	Jul-19	5242	19
5	Aug-19	4734	38
6	Sep-19	4888	19
7	Oct-19	4670	19
8	Nov-19	5204	38
9	Dec-19	4101	19
10	Jan-20	5116	38
11	Feb-20	5250	38
12	Mar-20	5495	19
13	Total	60486	304
14	Maximum	5495	38
15	Minimum	4101	19
16	Average	9305.58	46.77









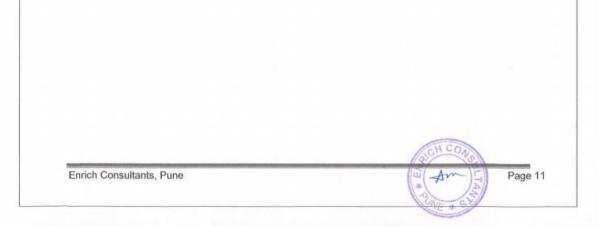


Chart No 3: Variation in Monthly LPG Consumption:



Table No 4: Variation in Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg
1	Total	60486	304
2	Maximum	5495	38
3	Minimum	4101	19
4	Average	9305.58	46.77







CHAPTER-IV CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO₂ Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere

Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No5: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Apr-19	4867	19	4.43
2	May-19	5439	19	4.95
3	Jun-19	5481	19	4.98
4	Jul-19	5242	19	4.77
5	Aug-19	4734	38	4.36
6	Sep-19	4888	19	4.45
7	Oct-19	4670	19	4.25
8	Nov-19	5204	38	4.79
9	Dec-19	4101	19	3.74
10	Jan-20	5116	38	4.71
11	Feb-20	5250	38	4.83
12	Mar-20	5495	19	5.00
13	Total	60486	304	55.25
14	Maximum	5495	38	5.00
15	Minimum	4101	19	3.74
16	Average	9305.58	46.77	8.50

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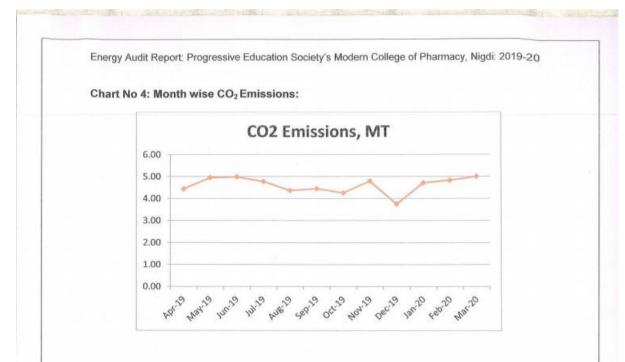
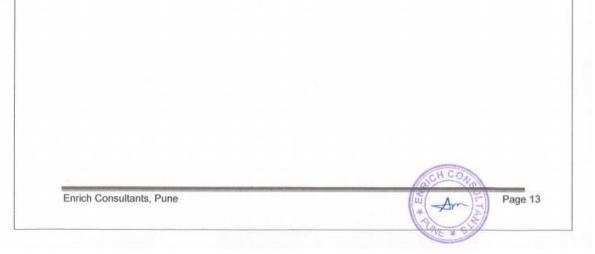


Table No 6: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	60486	304	55.25
2	Maximum	5495	38	5.00
3	Minimum	4101	19	3.74
4	Average	9305.58	46.77	8.50







CHAPTER-V STUDY OF USAGE OF ALTERNATE ENERGY

The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the percentage of Usage of Alternate Energy to Annual Energy Demand of the College.

Table No 7: Computation of % Annual Energy Demand met by Alternate Energy:

No	Particulars	Value	Unit
1	Energy Purchased from MSEDCL	60486	kWh
2	Installed Roof Top Solar PV Plant Capacity	10	kWp
3	Average Daily Energy Generated	4	kWh/kWp
4	Annual Generation Days	300	Nos
5	Annual Solar Energy Generated	12000	kWh
6	Total Energy Demand = (1) + (5)	72486	kWh
7	% of Alternate Energy to Total Energy Demand = (5)*100/ (6)	16.55	%

Photograph of Roof Top Solar PV Plant:

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CHAPTER VI STUDY OF USAGE OF LED LIGHTING

In this chapter, we compute the percentage of usage of LED Lighting to Annual Lighting power requirement.

Table No 8: Percentage of Usage of LED Lighting to Annual Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	245	Nos
2	Demand of 40 W FTL Fitting		W/Unit
3	Total Load of 40 W FTL Fittings	9.8	kW
4	No of 20 W LED Fittings	42	Nos
5	Demand of 20 W LED Fittings	20	W/Unit
6	Total Load of 20 W LED Fittings	0.84	kW
7	No of 16 W LED Fittings	100	Nos
8	Demand of 16 W LED Fittings	16	W/Uni
9	Total Load of 16 W LED Fittings	1.6	kW
10	No of 3 W LED Fittings	24	Nos
11	Demand of 3 W LED Fittings	3	W/Uni
12	Total Load of 3 W LED Fittings	0.072	kW
13	No of 32 W CFL Fittings	152	Nos
14	Demand of 32 W CFL Fittings	32	W/Uni
15	Total Load of 32 W CFL Fittings	4.864	kW
16	Total LED Lighting Load= 6+9+12	2.512	kW
17	Total Lighting Load=3+6+9+12+15	17.176	kW
18	Annual Lighting Requirement met by LED= 16*100/17	14.63	%

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GREEN AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2019-20

Prepared by:

Enrich Consultants Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: enrichcons@gmail.com







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 MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA. Name and Address of the firm Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Multiangan English School, Parvati, Pune - 411009. Registration Category Empanelled Consultant for Energy Conservation Programme Registration Number MEDA/ECN/CR-05/2018-19/EA-03 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. MEDA reserves the right to visit the firm at any time without giving any prior information and canceling the registration, if the information is found incorrect. This empanelment is valid till 31stMarch 2021 from the date of registration, to carry out energy audits under the Energy Conservation Programme The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof. 	CERTI		TION
 Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009. Registration Category Empanelled Consultant for Energy Conservation Programme Registration Number MEDA/ECN/CR-05/2018-19/E4-03 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. MEDA reserves the right to visit the firm at any time without giving any prior information and canceling the registration, if the information is found incorrect. This empanelment is valid till 31stMarch 2021 from the date of registration, to carry out energy audits under the Energy Conservation Programme The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof. 	MAHARASHTRA ENERGY D "Energy Planner & Energy Auc	EVELOPMENT AGENCY (M	(EDA) under given category as
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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2019-20 **Enrich Consultants** Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: enrichcons@gmail.com Ref: EC/MCOP/19-20/02 Date: 02/7/2020 CERTIFICATE This is to certify that we have conducted Green Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2019-20. The College has adopted following Green Initiatives: Usage of Energy Efficient LED Light Fitting > Usage of BEE STAR Rated Energy Efficient Equipment Maximum Usage of Day Lighting Installation of Roof Top Solar PV Plant of Capacity 10 kWp Provision of Separate bins for Dry & Wet Waste Provision of Sanitary Waste Incinerator Maintenance of good Internal Road Tree Plantation in the campus × Implementation of Rain Water Harvesting Project Provision of Ramp for Divyangajan We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green. For Enrich Consultants, Thohea A Y Mehendale, Certified Energy Auditor EA-8192 Enrich Consultants, Pune Page 3





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3	Study of Carbon Foot Printing	12
4	Study of Usage of Renewable Energy	14
5	Study of Waste Management	15
6	Study of Rain water Harvesting	16
7	Study of Green & Sustainable Practices	17

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ACKNOWLEDGEMENT

We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 , for awarding us the assignment of Green Audit of their Campus for the Academic Year: 19-20.

We are thankful to all the Staff members for helping us during the field study.

Enrich Consultants, Pune

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EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Electrical Equipment, office & other facilities.

2. Present Energy Consumption & CO₂ Emissions:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	60486	304	55.25
2	Maximum	5495	38	5.00
3	Minimum	4101	19	3.74
4	Average	9305.58	46.77	8.50

3. Various initiatives taken for Energy Conservation:

- Usage of Energy Efficient LED Lighting
- Maximum Usage of Day Lighting
- Installation of Roof Top Solar PV Plant of Capacity 10 kWp.

4. Usage of Renewable Energy & CO₂ Emission Reduction:

- · The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.
- The Electrical Energy generated in 19-20 is 12000 kWh.
- Reduction in CO₂ Emissions in 2019-20 works out to be 10.8 MT.

5. Waste Management:

5.1 Segregation of Waste at Source:

The Waste is segregated at source by keeping Waste Bins at various locations.

5.2 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, to dispose of the Sanitary Waste.

6. Rain Water Harvesting:

The College has installed the Rainwater harvesting project; the rain water falling on the terrace is collected and is used for recharging the bore well.

7. Green & Sustainable Initiatives

- Maintenance of good Internal Road
- Maintenance of Internal Garden
- Provision of Ramp for Divyangajan

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8. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere
- 3. 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day.
- 4. Annual Solar Energy Generation Days: 300 Nos.

9. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Roof Top Solar Energy generation: <u>www.solarrooftop.gov.in</u>

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ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO_2	Carbon Di Oxide
Qty	Quantity

	* ENRICE	





CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study present Energy Consumption
- 2. To Study CO2 emissions
- 3. To study usage of Renewable Energy
- 4. Study of Waste Management
- 5. Study of Rain Water Harvesting
- 6. Study of Green & Sustainable Practices

1.2 General Details of College: Table No 1:

No Head		Particulars	
1	Name of Institution	Progressive Education Society's Modern College of Pharmacy	
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044	
3	Year of Establishment	1998	
4	Affiliation	Savitribai Phule Pune University	

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CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 2: Electrical Energy & LPG Consumption Analysis- 2019-20:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg
1	Apr-19	4867	19
2	May-19	5439	19
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12	Mar-20	5495	19
13	Total	60486	304
14	Maximum	5495	38
15	Minimum	4101	19
16	Average	9305.58	46.77

Chart No 1: Variation in Monthly Energy Consumption:

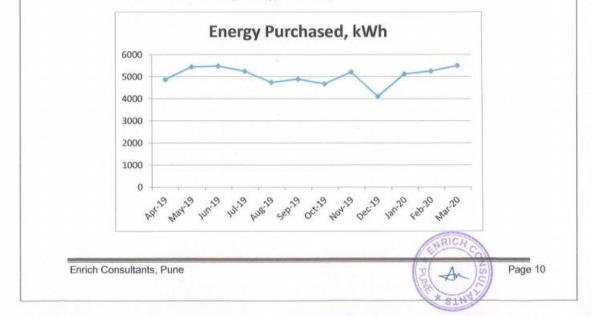








Chart No 2: Variation in Variation in Monthly LPG Consumption:



Table No 3: Variation in Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg
1	Total	60486	304
2	Maximum	5495	38
3	Minimum	4101	19
4	Average	9305.58	46.77

Page 11 Enrich Consultants, Pune Am





CHAPTER III STUDY OF CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO₂ Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO₂ into atmosphere

Based on the above Data we compute the CO₂ emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

No	Month	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Apr-19	4867	19	4.43
2	May-19	5439	19	4.95
3	Jun-19	5481	19	4.98
4	Jul-19	5242	19	4.77
5	Aug-19	4734	38	4.36
6	Sep-19	4888	19	4.45
7	Oct-19	4670	19	4.25
8	Nov-19	5204	38	4.79
9	Dec-19	4101	19	3.74
10	Jan-20	5116	38	4.71
11	Feb-20	5250	38	4.83
12	Mar-20	5495	19	5.00
13	Total	60486	304	55.25
14	Maximum	5495	38	5.00
15	Minimum	4101	19	3.74
16	Average	9305.58	46.77	8.50







Chart No 3: Month wise CO2Emissions:

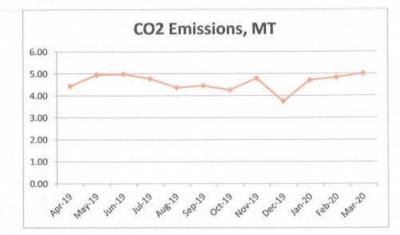


Table No 5: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	60486	304	55.25
2	Maximum	5495	38	5.00
3	Minimum	4101	19	3.74
4	Average	9305.58	46.77	8.50

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CHAPTER IV STUDY OF USAGE OF RENEWABLE ENERGY

The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO_2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 6: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 19-20	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:

Enrich Consultants, Pune







CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The Waste is segregated at source by keeping Waste Bins at various locations.

Photograph of Waste Collection Bin:



5.2 Sanitary Waste Management:

Enrich Consultants, Pune

The College has installed Sanitary Waste Incinerator, to dispose of the Sanitary Waste.

Photograph of Sanitary Waste Management:



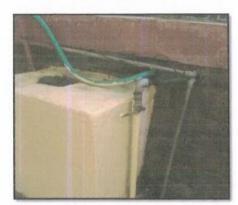




CHAPTER-VI STUDY OF RAIN WATER HARVESTING

The College has implemented the Rain Water Harvesting Project. The College has installed Pipes from the terrace and the Rain water falling on the terrace is gathered and is used to recharge the bore well.

Photograph of Rain water Harvesting Recharging Well Section:



Enrich Consultants, Pune

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CHAPTER-VII **STUDY OF GREEN & SUSTAINABLE PRACTICES**

7.1 Pedestrian Friendly Roads: The College has well maintained internal road to facilitate the easy movement of the students within the campus. Photograph of Main Entrance:



7.2 Internal Tree Plantation: The College has well maintained Tree Plantation in the campus. Photograph of Tree plantation:



Enrich Consultants, Pune

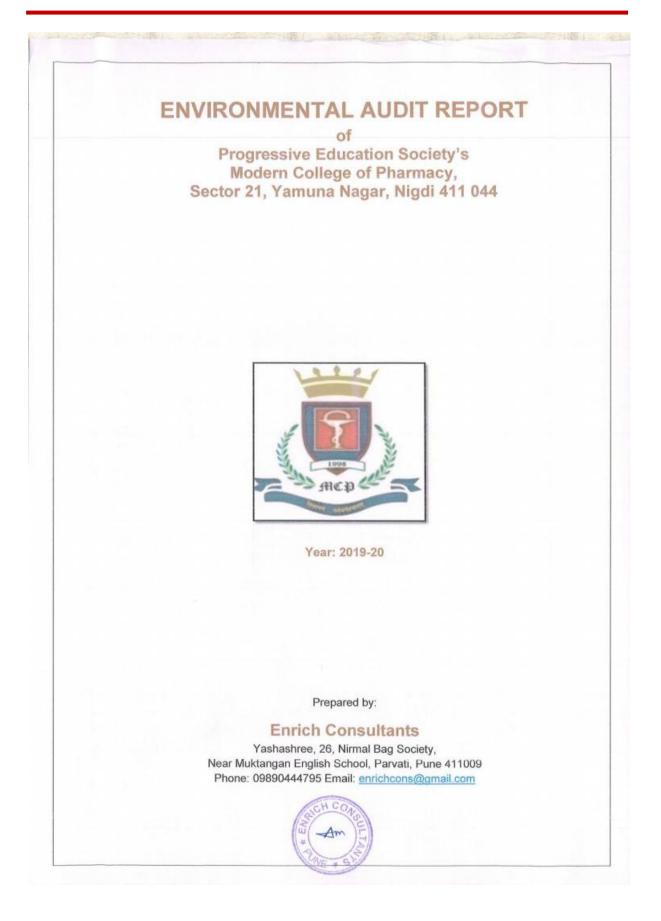
















Environmental Audit Report: Progressive Educ	cation So	ociety's Modern College of Pharmacy, Nigdi: 2019-20
		AHARASHTRA ENERGY DEVELOPMENT AGENCY
(A G	overnme iercial C Ph No: (nergy Development Agency nt of Maharashtra undertaking) omplex, Opp. Tridal Nagar, Yerwada, Pune 411 006, 120-26614393/266144403 ja.eom, Web: www.mahaurja.com
ECN/2018-19/CR-05/4174		19th September , 2018
CERTI		TE OF REGISTRATION
MAHARASHTRA ENERGY D	EVELO	rm having following particulars is registered with PMENT AGENCY (MEDA) under given category as Maharashtra for Energy Conservation Programme of
Name and Address of the firm	*	Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009.
Registration Category	в	Empanelled Consultant for Energy Conservation Programme
Registration Number	\$	MEDA/ECN/CR-05/2018-19/EA-03
 Energy Conservation Prog occurs and to evaluate th achieve the evaluated energy 	e scope	ntends to identify areas where wasteful use of energy for Energy Conservation and take concrete steps to is.
 MEDA reserves the right to and canceling the registration 	o visit th on, if the	e firm at any time without giving any prior information information is found incorrect.
 This empanelment is valid energy audits under the Energy 		March 2021 from the date of registration, to carry out servation Programme
 The Director General, MI without assigning any reasonable in the second s		erves the right to cancel the registration at any time of,
		(Smith Kudarikar)
		General Manager (EC)
		CH CON





Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>

Ref: EC/MCOP/19-20/03

Date: 02/7/2020

CERTIFICATE

This is to certify that we have conducted Environmental Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2019-20.

The College has adopted following Green Initiatives:

- Usage of Energy Efficient LED Light Fitting
- Usage of BEE STAR Rated Energy Efficient Equipment
- Maximum Usage of Day Lighting
- Installation of Roof Top Solar PV Plant of Capacity 10 kWp.
- Provision of Separate bins for Dry & Wet Waste
- Provision of Sanitary Waste Incinerator
- Implementatio0n of Rain Water Harvesting Project
- > Tree Plantation in the campus

We appreciate the support of Management, involvement of faculty members and students in the process of Energy Conservation & making the campus Green.

For Enrich Consultants,

reader

A Y Mehendale, Certified Energy Auditor EA-8192

Enrich Consultants, Pune







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2	Study of Consumption of Resources & CO2 Emission	11
3	Study of Usage of Renewable Energy	13
4	Study of Waste Management	18
5	Study of Rain water Harvesting	19
6	Study of Eco Friendly Initiatives	20

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ACKNOWLEDGEMENT

Enrich Consultants, Pune

We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Environmental Audit of their Campus for the Academic Year: 19-20.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune	e 411044
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EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Electrical Equipment, office & other facilities.

2. Pollution due to College Activities:

- Air pollution: Mainly CO₂ on account of Electricity Consumption
- > Solid Waste: Bio degradable Garden Waste
- > Liquid Waste: Human liquid waste

3. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	60486	304	55.25
2	Maximum	5495	38	5.00
3	Minimum	4101	19	3.74
4	Average	9305.58	46.77	8.50

4. Various initiatives taken for Energy Conservation:

- > Usage of Energy Efficient LED Lighting
- Maximum Usage of Day Lighting
- > Installation of Roof Top Solar PV Plant of Capacity 10 kWp.

5. Usage of Renewable Energy & Reduction in CO₂ Emission:

- > The College has installed Roof Top Solar PV Plant of Capacity 10kWp.
- > The Electrical Energy generated in 19-20 is 12000 kWh.
- Reduction in CO₂ Emissions in 2019-20 works out to be 10.8MT.

6.1 Waste Management:

6.1 Segregation of Waste at Source:

The Waste is segregated at source by keeping Waste Bins at various locations.

6.2 Sanitary Waste Management:

The College has installed Sanitary Waste Incinerator, to dispose of the Sanitary Waste.

7. Rain Water Harvesting:

The College has installed the Rainwater harvesting project; the rain water falling on the terrace is collected and is used for recharging the bore well.

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8. Eco Friendly Initiatives:

> Medicinal Plant Garden in the college premises

9. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2into atmosphere
- 3. 1 kWp Roof Top Solar PV Plant releases 4 kWh of Electrical Energy per Day.
- 4. Annual Solar Energy Generation Days: 300 Nos.

10. References:

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Roof Top Solar Energy generation: www.solarrooftop.gov.in

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ABBREVIATIONS

Kg	Kilo Gram	
MSEDCL	Maharashtra State Distribution Company Limited	I
MT	Metric Ton	
kWh	kilo-Watt Hour	
LED	Light Emitting Diode	
CPCB	Central Pollution Control Board	





CHAPTER-I INTRODUCTION

1.1Important Definitions:

1.1.1 Environment: Definition as per environment Protection Act: 1986

Environment includes water, air and land and the inter-relationship which exists among and between Water, Air, Land and Human beings, other living creatures, plants microorganism and property

1.1.2. Environmental Audit: Definition:

An audit which aims at verification and validation to ensure that various environmental laws are compiled with and adequate care has been taken towards environmental protection and preservation

According to UNEP, 1990, "Environmental audit can be defined as a management tool comprising systematic, documented and periodic evaluation of how well environmental organization management and equipment are performing with an aim of helping to regularize the environment

1.1.3. Environmental Pollutant: means any solid, liquid and gaseous substance present in the concentration as may be, or tend to be, injurious to Environment.

1.1.4. Relevant Environmental Laws in India: Table No-1:

1927	The Indian Forest Act
1972	The Wildlife Protection Act
1974	The Water (Prevention and Control of Pollution) Act
1977	The Water (Prevention & Control of Pollution) Cess Act
1980	The Forest (Conservation) Act
1981	The Air (Prevention and Control of Pollution) Act
1986	The Environment Protection Act
1991	The Public Liability Insurance Act
2002	The Biological Diversity Act
2010	The National Green Tribunal Act

1.1.5. Some Important Environmental Rules in India: Table No-2:

1989	Hazardous Waste (Management and Handling) Rules
1989	Manufacture, Storage and Import of Hazardous Chemical Rules
2000	Municipal Solid Waste (Management and Handling) Rules
1998	The Biomedical Waste (Management and Handling) Rules
1999	The Environment (Siting for Industrial Projects) Rules
2000	Noise Pollution (Regulation and Control) Rules
2000	Ozone Depleting Substances (Regulation and Control) Rules
2011	E-waste (Management and Handling) Rules

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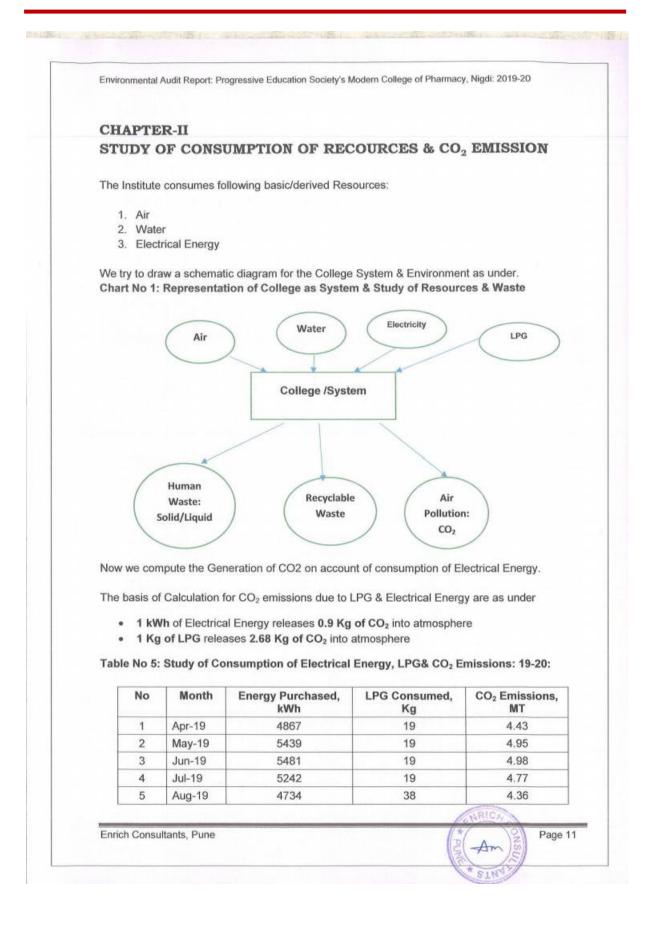
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 National F National V National E National C National C 1992 Policy Sta National A Vision Sta 	nvironmental Pla orest Policy, 1980 Vater Policy, 2002 Invironment Polic Conservation Strat tement for Abater	ans & Policy Documents: Table No-3: 8 2 y or NEP (2006) tegy and Policy Statement on Environment and Development
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6. National A 7. Vision Sta		ment of Pollution (1992)
7. Vision Sta		
8. Technolog	tement on Enviro	nment and Human Health
		he Energy Research Institute)
9. Addressin 10 The Road	g Energy Security	y and Climate Change (MoEF and Bureau of Energy Efficiend India's Position on Climate Change Issues (MoEF)
	ails of College: T	
1 Name of		Progressive Education Society's Modern College of Pharmac
The second secon	- 1	Nigdi,Pune-411044
2 Address	A PARTY AND A PARTY A	
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Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index

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6	Sep-19	4888	19	4.45
7	Oct-19	4670	19	4.25
8	Nov-19	5204	38	4.79
9	Dec-19	4101	19	3.74
10	Jan-20	5116	38	4.71
11	Feb-20	5250	38	4.83
12	Mar-20	5495	19	5.00
13	Total	60486	304	55.25
14	Maximum	5495	38	5.00
15	Minimum	4101	19	3.74
16	Average	9305.58	46.77	8.50

Chart No 2: Month wise CO2Emissions:

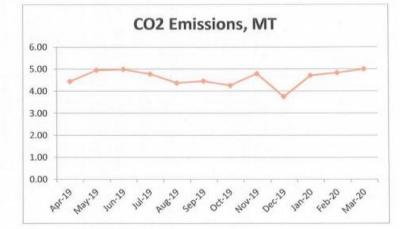


Table No 6: Important Parameters:

No	Parameter/ Value	Energy Purchased, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	60486	304	55.25
2	Maximum	5495	38	5.00
3	Minimum	4101	19	3.74
4	Average	9305.58	46.77	8.50







CHAPTER III STUDY OF CO₂ EMISSION REDUCTION

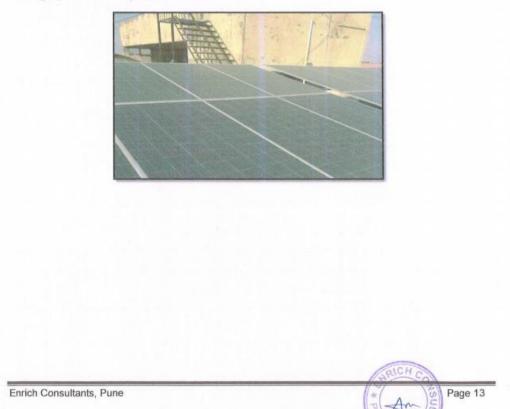
The College has installed Roof Top Solar PV Plant of Capacity 10 kWp.

In the following Table, we compute the Annual Reduction in CO2 Emissions due to installation of Roof Top Solar PV Plant.

Table No 7: Computation of Annual Reduction in CO₂ Emissions:

No	Particulars	Value	Unit
1	Installed Capacity of Roof Top Solar PV Plant Capacity	10	kWp
2	Energy Generated in per kWp	4	4 kWh/kWp
3	Annual Solar Energy generation Days	300	Nos
4	Energy Generated in the Year: 19-20	12000	kWh
5	1 kWh of Electrical Energy saves	0.9	Kg/kWh
6	Qty of CO ₂ Saved by Solar PV Plant =(4)*(5) /1000	10.8	MT of CO ₂

Photograph of Roof Top Solar PV Plant:





CHAPTER IV STUDY OF WASTE MANAGEMENT

5.1 Segregation of Waste at Source:

The Waste is segregated at source by keeping Waste Bins at various locations.

Photograph of Waste Collection Bin:



5.2 Sanitary Waste Management:

Enrich Consultants, Pune

The College has installed Sanitary Waste Incinerator, to dispose of the Sanitary Waste.

Photograph of Sanitary Waste Management:





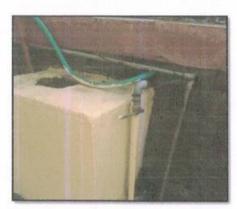


CHAPTER-V

STUDY OF RAIN WATER HARVESTING

The College has implemented the Rain Water Harvesting Project. The College has installed Pipes from the terrace and the Rain water falling on the terrace is gathered and is used to recharge the bore well.

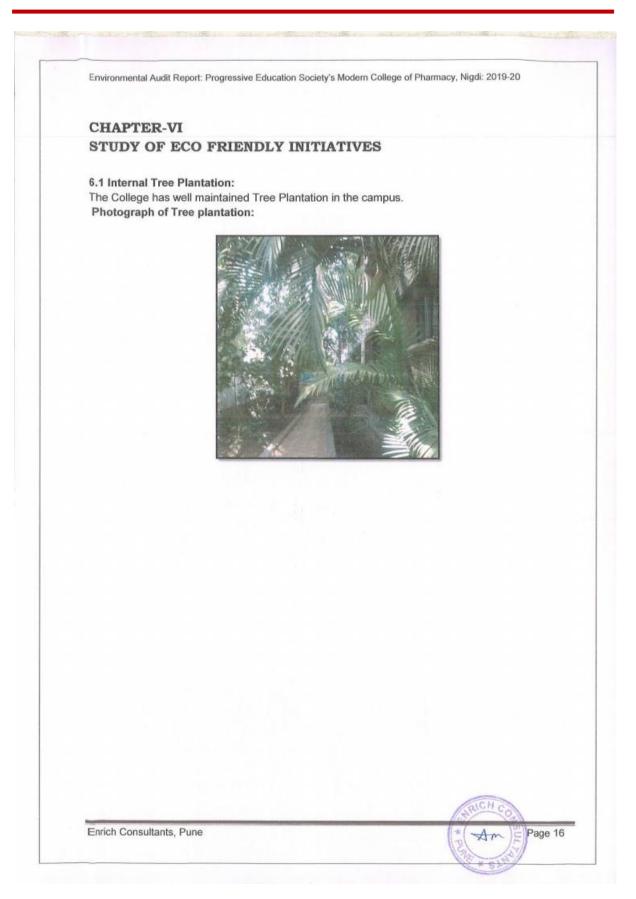
Photograph of Rain water Harvesting Recharging Well Section:



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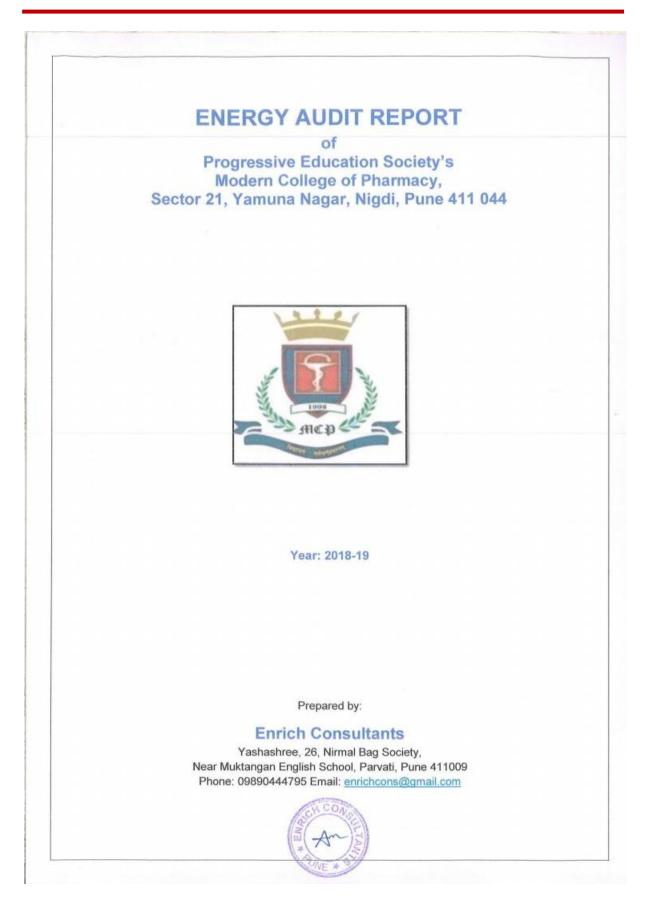


Green, Energy and Environment audit report

2018-19











	MAHARASHTRA ENERGY DEVELOPMENT AGENCY
(A Govern 2 nd Floor, MHADA Commerci Ph b	Energy Development Agency ment of Maharashtra undertaking) al Complex, Opp. Tridal Nagar, Yerwada, Pune 411 006, su: 020-26614393/266144403 haurja.com, Web: www.mahaurja.com
ECN/2018-19/CR-05/4174	19 th September , 2018
	CATE OF REGISTRATION
MAHARASHTRA ENERGY DEVE	e firm having following particulars is registered with <i>LOPMENT AGENCY (MEDA)</i> under given category as "in Maharashtra for Energy Conservation Programme of Enrich Consultants
	Yushashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009.
Registration Category	Empanelled Consultant for Energy Conservation Programme
Registration Number	MEDA/ECN/CR-05/2018-19/EA-03
occurs and to evaluate the sec achieve the evaluated energy sav • MEDA reserves the right to visi	ne intends to identify areas where wasteful use of energy ope for Energy Conservation and take concrete steps to vings. it the firm at any time without giving any prior information f the information is found incorrect.
 This empanelment is valid till : energy audits under the Energy 	31"March 2021 from the date of registration, to carry out Conservation Programme
 The Director General, MEDA without assigning any reasons the second seco	reserves the right to cancel the registration at any time nereof.
	Antoine
	(Smith Kudarikar) General Manager (EC)





Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2018-19 Enrich Consultants Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 009 Tel: 09890444795 Email: enrichcons@gmail.com Ref: EC/MCOP/18-19/01 Date: 29/6/2019 CERTIFICATE This is to certify that we have conducted Energy Audit at Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune, in the Academic year 2018-19. .The College has adopted following Energy Efficient Practices: Usage of Energy Efficient LED Fittings > Maximum usage of Day Lighting We appreciate the support of Management, involvement of faculty members and students in the process of making the Campus Energy Efficient. For Enrich Consultants, 10 \$ A Y Mehendale, Certified Energy Auditor EA-8192 Enrich Consultants, Pune Page 3





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4	Carbon Foot Printing	13
5	Study of Usage of Alternate Energy	14
6	Study of LED Lighting	15

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ACKNOWLEDGEMENT

Enrich Consultants, Pune

We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College Of Pharmacy, Nigdi Pune 411044, for awarding us the assignment of Energy Audit of their Campus for the Academic Year: 18-19.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 Back to Index





EXECUTIVE SUMMARY

1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Equipment.

2. Present Energy Consumption & CO₂ Emission:

No	Parameter/ Value	Energy Consumed, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	61638	342	56.39
2	Maximum	5599	38	5.09
3	Minimum	4179	19	3.81
4	Average	9482.83	52.62	8.68

3. Energy Conservation measures adopted:

- Usage of Energy Efficient LED fittings
- Maximum Usage of Day Lighting

4. Usage of Alternate Energy:

- The College has yet to install Roof Top Solar PV Plant
- It is recommended to install Roof Top Solar PV Plant

5. Usage of LED Lighting:

- The Total LED Lighting Load of the College is 2.458 kW.
- The Total Lighting Load of the College is 17.49 kW.
- The percentage of LED Lighting to Total Lighting Load is 14.05 %.

6. Assumptions:

- 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 2. 1 Kg of LPG releases 2.68 Kg of CO2into atmosphere

7. References:

Enrich Consultants, Pune

- For CO₂ Emissions: <u>www.tatapower.com</u>
- For Solar Energy generation: <u>www.solarroftop.gov.in</u>





ABBREVIATIONS

LED	5	Light Emitting Diode
MSEDCL	:	Maharashtra State Electricity Distribution Company Limited
BEE	:	Bureau of Energy Efficiency
FTL	:	Fluorescent Tube Light
CFL	:	Compact Fluorescent Light
PV	:	Photo Voltaic
Kg	*	Kilo Gram
kWh	1	kilo-Watt Hour
CO ₂	*	Carbon Di Oxide
MT	*	Metric Ton

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CHAPTER-I INTRODUCTION

1.1 Objectives:

- 1. To study Connected Load
- 2. To study Present Energy Consumption
- 3. To Study the present CO2 emissions
- 4. To study usage of Alternate Energy
- 5. To study usage of LED Lighting

1.2Table No 1: General Details of the College:

No	Head	Particulars
1	Name of Institution	Progressive Education Society's Modern College of Pharmacy
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044
3 Year of Establishment		1998
4 Affiliation		Savitribai Phule Pune University

Enrich Consultants, Pune Page 8





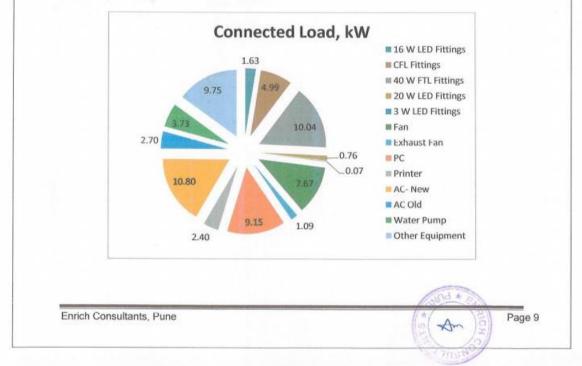
CHAPTER-II STUDY OF CONNECTED LOAD

The major contributors to the connected load of the College include:

Table No 2: Study of Equipment wise Connected Load:

No	Equipment	Qty	Load, W/Unit	Load, kW
1	16 W LED Fittings	102	16	1.63
2	CFL Fittings	156	32	4.99
3	40 W FTL Fittings	251	40	10.04
4	20 W LED Fittings	38	20	0.76
5	3 W LED Fittings	22	3	0.07
6	Fan	118	65	7.67
7	Exhaust Fan	21	52	1.09
8	PC	61	150	9.15
9	Printer	16	150	2.40
10	AC- New	6	1800	10.80
11	AC Old	1	2700	2.70
12	Water Pump	1	3730	3.73
13	Other Equipment	65	150	9.75
14	Total			64.78

Chart No 1: Study of Connected Load:







CHAPTER-III STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 3: Electrical Energy & LPG Consumption Analysis- 2018-19:

No	Month	Energy Consumed, kWh	LPG Consumed, Kg
1	Apr-18	4959	38
2	May-18	5543	19
3	Jun-18	5585	19
4	Jul-18	5341	19
5	Aug-18	4825	38
6	Sep-18	4981	19
7	Oct-18	4759	38
8	Nov-18	5303	38
9	Dec-18	4179	19
10	Jan-19	5213	38
11	Feb-19	5350	38
12	Mar-19	5599	19
13	Total	61638	342
14	Maximum	5599	38
15	Minimum	4179	19
16	Average	9482.83	52.62









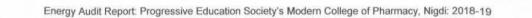


Chart No 3: Variation in Monthly LPG Consumption:



Table No 4: Variation in Important Parameters:

No	Parameter/ Value	Energy Consumed, kWh	LPG Consumed, Kg
1	Total	61638	342
2	Maximum	5599	38
3	Minimum	4179	19
4	Average	9482.83	52.62

Enrich Consultants, Pune	 	AICH COL	Page 11





Energy Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2018-19 CHAPTER-IV **CARBON FOOT PRINTING** A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities. In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities The College uses Electrical Energy and LPG as the Energy Source. Basis for computation of CO₂ Emissions: 1 kWh of Electrical Energy releases 0.9 Kg of CO₂ into atmosphere • 1 Kg of LPG releases 2.68 Kg of CO2 into atmosphere Based on the above Data we compute the CO2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations Table No 5: Month wise CO₂ Emissions: No Energy Consumed, Month LPG Consumed, CO₂ Emissions, kWh Kg MT 4959 4.57 1 Apr-18 38 2 May-18 5543 5.04 19 3 Jun-18 5585 19 5.08 Jul-18 5341 4.86 4 19 5 Aug-18 4825 38 4.44 6 Sep-18 4981 19 4.53 7 Oct-18 4759 4.39 38 8 Nov-18 5303 38 4.87 9 Dec-18 4179 19 3.81 10 Jan-19 5213 38 4.79 11 Feb-19 5350 38 4.92 Mar-19 12 5599 19 5.09 13 Total 61638 56.39 342 14 Maximum 5599 5.09 38 15 Minimum 4179 19 3.81 16 9482.83 52.62 8.68 Average

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Chart No 4: Month wise CO2 Emissions:

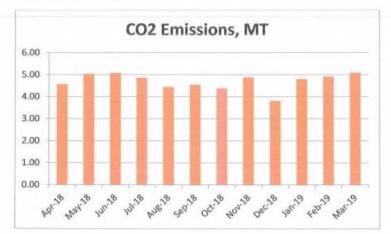


Table No 6: Important Parameters:

No	Parameter/ Value	Energy Consumed, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Total	61638	342	56.39
2	Maximum	5599	38	5.09
3	Minimum	4179	19	3.81
4	Average	9482.83	52.62	8.68

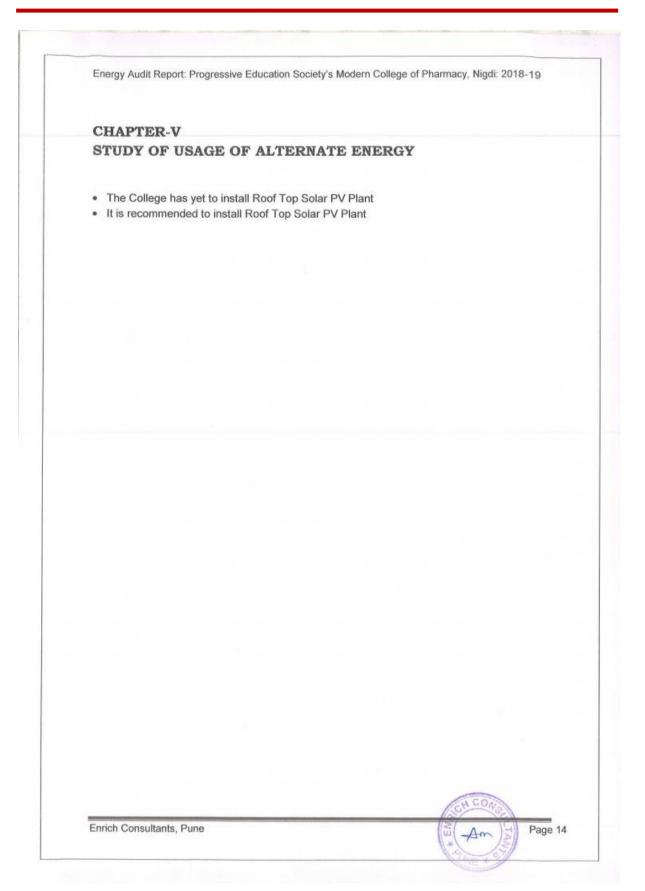
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CHAPTER VI STUDY OF USAGE OF LED LIGHTING

In this chapter, we compute the percentage of usage of LED Lighting to Total Lighting Load.

Table No 7: Percentage of Usage of LED Lighting to Total Lighting Load:

No	Particulars	Value	Unit
1	No of 40 W FTL Fittings	251	Nos
2	Demand of 40 W FTL Fitting	40	W/Unit
3	Total Load of 40 W FTL Fittings	10.04	kW
4	No of 20 W LED Fittings	38	Nos
5	Demand of 20 W LED Fittings	20	W/Unit
6	Total Load of 20 W LED Fittings	0.76	kW
7	No of 16 W LED Fittings	102	Nos
8	Demand of 16 W LED Fittings	16	W/Uni
9	Total Load of 16 W LED Fittings	1.632	kW
10	No of 3 W LED Fittings	22	Nos
11	Demand of 3 W LED Fittings	3	W/Uni
12	Total Load of 3 W LED Fittings	0.066	kW
13	No of 32 W CFL Fittings	156	Nos
14	Demand of 32 W CFL Fittings	32	W/Uni
15	Total Load of 32 W CFL Fittings	4.992	kW
16	Total LED Lighting Load= 6+9+12	2.458	kW
17	Total Lighting Load=3+6+9+12+15	17.49	kW
18	Annual Lighting Requirement met by LED= 16*100/17	14.05	%

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GREEN AUDIT REPORT

of **Progressive Education Society's** Modern College of Pharmacy, Sector 21, Yamuna Nagar, Nigdi, Pune 411 044



Year: 2018-19

Prepared by:

Enrich Consultants

Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411009 Phone: 09890444795 Email: enrichcons@gmail.com







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<section-header><text><text><text><text><text><text><text><text><text><list-item><list-item></list-item></list-item></text></text></text></text></text></text></text></text></text></section-header>	ECN/2018-19/CR-05/4174		19 th September , 2018
 We hereby certify that, the firm having following particulars is registered with MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as infineracy planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA. Name and Address of the firm Enrich Consultants Yabashree, Plot No, 26, Nirmal Bag Society, Near Multiangan English School, Parvati, Pune - 411009. Registration Category English School Consultant for Energy Conservation Programme of MEDA. Registration Number English School Consultant for Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. MEDA reserves the right to visit the firm at any time without giving any prior information and canceling the registration, if the information is found incorrect. This empanelment is valid till 31ndMarch 2021 from the date of registration, to carry out energy audits under the Energy Conservation Programme. The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereot. 	CERTI	IFICA'	TE OF REGISTRATION
 MAHARASHTRA ENERGY DEVELOPMENT AGENCY (MEDA) under given category as "Energy Planner & Energy Auditor" in Maharashtra for Energy Conservation Programme of MEDA. Name and Address of the firm Enrich Consultants Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009. Registration Category Empanelled Consultant for Energy Conservation Programme of MEDA conservation Number MEDA/ECN/CR-05/2018-19/EA-03 Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. MEDA reserves the right to visit the firm at any time without giving any prior information and canceling the registration, if the information is found incorrect. This empanelment is valid till 31^{an}March 2021 from the date of registration, to carry out energy audits under the Energy Conservation Programme. The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereot. 		FOF	R CLASS 'A'
Yashashree, Plot No. 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune - 411009. Registration Category Empanelled Consultant for Energy Conservation Programme Registration Number MEDA/ECN/CR-05/2018-19/EA-03 • Energy Conservation Programme intends to identify areas where wasteful use of energy occurs and to evaluate the scope for Energy Conservation and take concrete steps to achieve the evaluated energy savings. • MEDA reserves the right to visit the firm at any time without giving any prior information and canceling the registration, if the information is found incorrect. • This empanelment is valid till 31 st March 2021 from the date of registration, to carry out energy audits under the Energy Conservation Programme • The Director General, MEDA reserves the right to cancel the registration at any time without assigning any reasons thereof.	MAHARASHTRA ENERGY D. "Energy Planner & Energy Aud	EVELO	PMENT AGENCY (MEDA) under given category as
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without assigning any reasons thereof.			
			Anthe alls
General Manager (EC)			(Smita Kudarikar)
			General Manager (EC)
*			
		(A)	





Green Audit Report: Progressive Education Society's Moder	rn College of Pharmacy, Nigdi: 2018-19
Enrich Consultants	
Yashashree, 26, Nirmal Bag Society, Near Muktangan English School, Parvati, Pune 411 00 Tel: 09890444795 Email: <u>enrichcons@gmail.com</u>	99
Ref: EC/MCOP/18-19/02	Date: 29/6/2019
CERTIFICAT	E
This is to certify that we have conducted Green Aud	dit at Progressive Education Society's
Modern College of Pharmacy, Nigdi, Pune, in the Acad	demic year 2018-19.
The College has adopted following Green Initiatives:	
Usage of Energy Efficient LED Light Fitting	
Usage of BEE STAR Rated Energy Efficient Education	quipment
Maximum Usage of Day Lighting	
Provision of Separate bins for Dry & Wet Waste	e
Maintenance of good Internal Road	
> Tree Plantation in the campus	
Implementation of Rain Water Harvesting Proje	ect
Provision of Sanitary Waste Incinerator	
We appreciate the support of Management, involvement	ent of faculty members and students in
the process of Energy Conservation & making the cam	npus Green.
For Enrich Consultants,	CHICOL
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A Y Mehendale,	2 × 5 ×
Certified Energy Auditor	
EA-8192	





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2	Study of Present Energy Consumption	9
3	Study of Carbon Foot printing	11
4	Study of Usage of Renewable Energy	13
5	Study of Waste Management	14
6	Study of Rain water Harvesting	15
7	Study of Green Practices	16

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ACKNOWLEDGEMENT

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We Enrich Consultants, Pune, express our sincere gratitude to the management of Progressive Education Society's Modern College of Pharmacy, Nigdi Pune 411044 , for awarding us the assignment of Green Audit of their Campus for the Academic Year: 18-19.

We are thankful to all the Staff members for helping us during the field study.

Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune	e 411044
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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2018-19 **EXECUTIVE SUMMARY** 1. Progressive Education Society's Modern College of Pharmacy, Nigdi consumes Energy in the form of Electrical Energy and LPG; used for various Equipment. 2. Present Energy Consumption & CO2 Emissions: Parameter/ Energy LPG CO₂ No Value Consumed, kWh Consumed, Kg Emissions, MT 1 Total 342 56.39 61638 2 Maximum 5599 38 5.09 3 Minimum 4179 19 3.81 4 Average 9482.83 52.62 8.68 3. Various initiatives taken for Energy Conservation: Usage of Energy Efficient LED Lighting Maximum Usage of Day Lighting 4. Usage of Renewable Energy: · The College has yet to install Roof Top Solar PV Plant It is recommended to install Roof Top Solar PV Plant . 5. Solid Waste Management: 5.1 Segregation of Waste at Source: The Waste is segregated at source. Waste bins are located at various locations. 6. Rain Water Harvesting: The College has installed the Rainwater harvesting project; the rain water falling on the terrace is collected and is used for recharging the bore well. 7. Green & Sustainable Initiatives Maintenance of good Internal Road Maintenance of Internal Garden 8. Notes & Assumptions: 1. 1 kWh of Electrical Energy releases 0.9 Kg of CO2into atmosphere 2. 1 Kg of LPG releases 2.68 Kg of CO2into atmosphere 9. References: For CO₂ Emissions: <u>www.tatapower.com</u> For Roof Top Solar Energy generation: www.solarrooftop.gov.in . Enrich Consultants, Pune Page 6





ABBREVIATIONS

BEE	Bureau of Energy Efficiency
kWh	Kilo Watt Hour
LPD	Liters Per Day
Kg	Kilo Gram
MT	Metric Ton
CO ₂	Carbon Di Oxide
Qty	Quantity

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CHAPTER-I INTRODUCTION

1.1 Objectives:

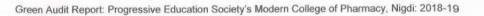
- 1. To study present Energy Consumption
- To Study CO₂ emissions
 To study usage of Renewable Energy
- 4. Study of Waste Management
- 5. Study of Rain Water Harvesting
- 6. Study of Green Practices

1.2 General Details of College: Table No 1:

No	Head	Particulars
1	Name of Institution	Progressive Education Society's Modern College of Pharmacy
2	Address	Sector 21, Yamuna Nagar, Nigdi 411 044
3	Year of Establishment	1998
4	Affiliation	Savitribai Phule Pune University

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CHAPTER-II STUDY OF PRESENT ENERGY CONSUMPTION

In this chapter, we present the analysis of Electrical Energy & LPG Consumption. Table No 2: Electrical Energy & LPG Consumption Analysis- 2018-19:

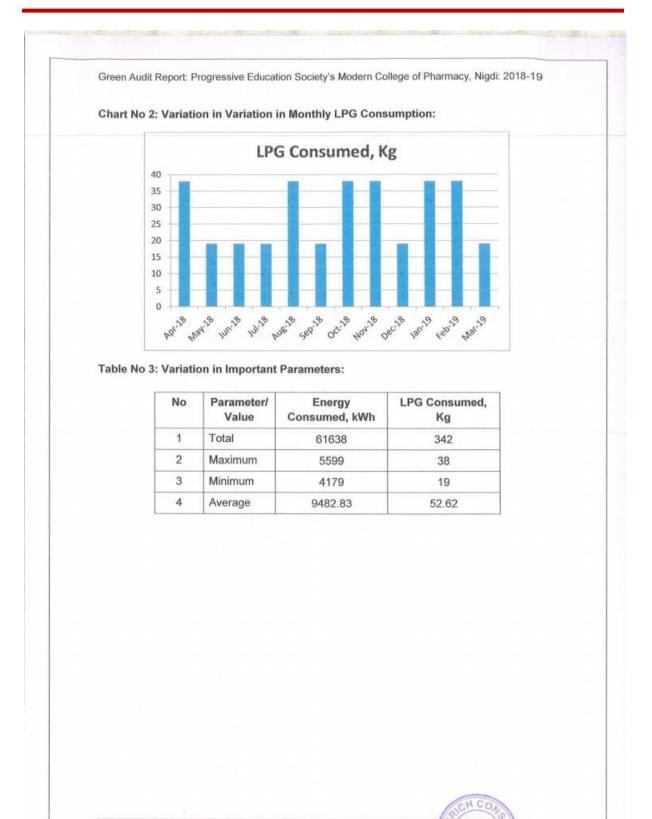
No	Month	Energy Consumed, kWh	LPG Consumed, Kg
1	Apr-18	4959	38
2	May-18	5543	19
3	Jun-18	5585	19
4	Jul-18	5341	19
5	Aug-18	4825	38
6	Sep-18	4981	19
7	Oct-18	4759	38
8	Nov-18	5303	38
9	Dec-18	4179	19
10	Jan-19	5213	38
11	Feb-19	5350	38
12	Mar-19	5599	19
13	Total	61638	342
14	Maximum	5599	38
15	Minimum	4179	19
16	Average	9482.83	52.62











Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune 411044 **Back to Index**

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CHAPTER III STUDY OF CARBON FOOTPRINTING

A Carbon Foot print is defined as the Total Greenhouse Gas emissions, emitted due to various activities.

In this we compute the emissions of Carbon-Di-Oxide, by usage of the various forms of Energy used by the College for performing its day to day activities

The College uses Electrical Energy and LPG as the Energy Source.

Basis for computation of CO₂ Emissions:

- 1 kWh of Electrical Energy releases 0.9 Kg of CO2 into atmosphere
- 1 Kg of LPG releases 2.68 Kg of CO₂ into atmosphere

Based on the above Data we compute the CO_2 emissions which are being released in to the atmosphere by the College due to its Day to Day operations

Table No 4: Month wise CO₂ Emissions:

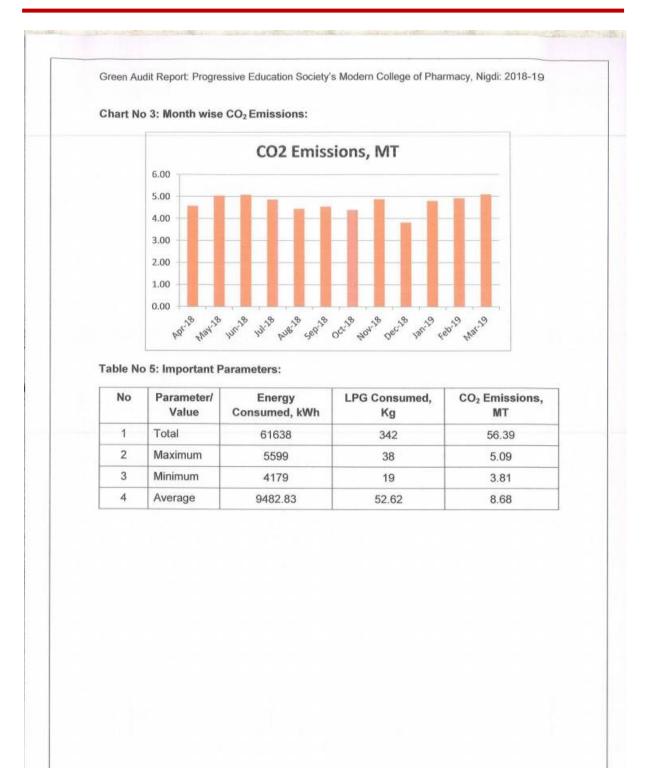
No	Month	Energy Consumed, kWh	LPG Consumed, Kg	CO ₂ Emissions, MT
1	Apr-18	4959	38	4.57
2	May-18	5543	19	5.04
3	Jun-18	5585	19	5.08
4	Jul-18	5341	19	4.86
5	Aug-18	4825	38	4.44
6	Sep-18	4981	19	4.53
7	Oct-18	4759	38	4.39
8	Nov-18	5303	38	4.87
9	Dec-18	4179	19	3.81
10	Jan-19	5213	38	4.79
11	Feb-19	5350	38	4.92
12	Mar-19	5599	19	5.09
13	Total	61638	342	56.39
14	Maximum	5599	38	5.09
15	Minimum	4179	19	3.81
16	Average	9482.83	52.62	8.68



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CHAPTER V STUDY OF WASTE MANAGEMENT

5.1 Solid Waste Management:

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5.1. Segregation of Waste at Source:

The Waste is segregated at source. Waste bins are located at various locations Photograph of Waste Collection Bins:



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Green Audit Report: Progressive Education Society's Modern College of Pharmacy, Nigdi: 2018-19 **CHAPTER-VI** STUDY OF RAIN WATER HARVESTING The College has installed the Rainwater harvesting project; the rain water falling on the terrace is collected and is used for recharging the bore well. Photograph of Rain water Harvesting Pipe: Enrich Consultants, Pune Page 15 Ar





CHAPTER-VII STUDY OF GREEN PRACTICES

7.1 Pedestrian Friendly Road: The College has well maintained internal road to facilitate the easy movement of the students within the campus. Photograph of Internal Road:



7.2 Internal Tree Plantation: The College has well maintained Tree Plantation in the campus. Photograph of Tree plantation:



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7.1.3: Certificates of Awards received from recognized agency.

P.E.S. Modern College of Pharmacy is recipient of an award from VM EDUlife. VM EDUlife is an ISO 9001:2015 certified Company, it is an industry associate of SCGJ, India. Also, it is an Official Member of NASSCOM. It is a cloud-based learning platform provider for various educational institutions This organization has awarded P.E.S. Modern College of Pharmacy, Nigdi, Pune-44 to honor the valuable contribution towards implementation of online platform which contributes for sustaining greener nation.

This certificate of award is given for academic year 2022-23 as a continuation with previous award for the year 2016-21.

This is greatest outcome of all clean and green campus initiative.





Certificate of award by VM EDULife (2022-2023):

vmedulife An ISO 9001:2015 certified company An official Industry Association with SCGJ, Govt. of India

Certified Green Campus

This certificate is awarded to



Progressive Education Society's Modern College of Pharmacy, Nigdi, Pune

to recognize the participation in the vmedulife "GO GREEN" initiative and to honour the valuable contribution made towards implementation of the online platform which contributes for sustaining greener nation.

We appreciate the involvement and cooperation extended by all the stakeholders in making this drive a success.







Certificate of award by VM EDULife (2016-2021):

Certificate of Awards: Recognition by Vm EDUlife

