

DR. RAJENDRA GODE COLLEGE OF PHARMACY MALKAPUR

Buldana Road, MALKAPUR – 443101 Dist – Buldana (M.S.) Phone: 8308827339, Fax: (07267) 227338

E-mail: drgcopmalkapur@gmail.com cop_malkapur@rediffmail.com Web: www.drgcop.co.in Recognized by AICTE & PCI, New Delhi and Affiliated to S.G. B. Amravati University, Amravati

CRITERIA 7 – INSTITUTIONAL VALUES & BEST PRACTICES

Key Indicator – 7.1 Institutional values & Social Responsibilities

NAAC DVV CLARIFICATIONS

7.1.2: The Institution has facilities and initiatives for

- 1. Alternate sources of energy and energy conservation measures
- 2. Management of the various types of degradable and non-degradable waste
- 3. Water conservation
- 4. Green campus initiatives
- 5. Disabled-friendly, barrier free environment

HEI Input: A. 4 or All of the above



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1. Alternative Source of Energy and Energy Conservation Measures

Solar ON GRID rooftop system

- Solar energy is any type of energy generated by the sun and DRGCOP is proud owner on grid solar rooftop institute.
- In college campus on grid solar rooftop are used for this purpose that can harvest solar energy and convert it to electricity which is solar ON GRID rooftop system utilized by institute.
- Various affords have been taken in the college to utilize the solar energy in an effective way base on its unique infrastructure. It mainly includes the provision of ON GRID solar roof top panel.
- The electric energy does obtained from solar is used for laboratory instruments, classrooms and premises.





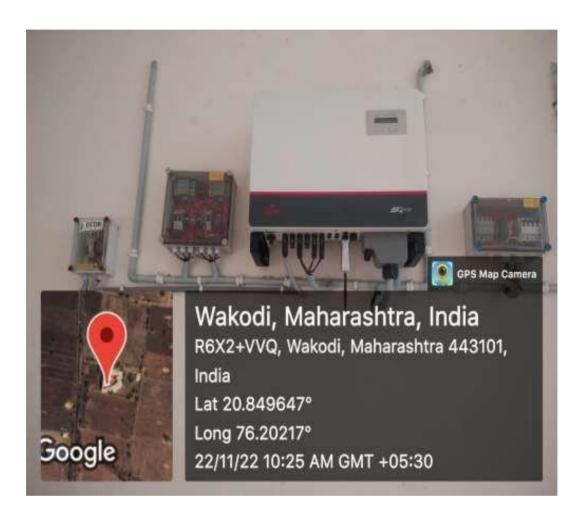


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Invertor solar modules 25Kv 415 v 3 Phase







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Invoice purchase for ON GRID rooftop system

ORIGINAL FOR RECIPIENT

SPACEFIRE CORP

A/701, Sai Heritage,Sant tukaram road, Mulund east, mumbai Mumbai, Maharashtra 400081 IN 7738444218 spacefirecorp@gmail.com www.spacefirecorp.com GSTIN: 27BSJPD7332Q1Z7

BILL TO INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA BULDANA- 443001

PLACE OF SUPPLY 27 - Maharashtra GST TAX INVOICE 2020-21-054

DATE 28-Feb-2021

 NO HSN/SAC ACTIVITY
 DESCRIPTION
 TAX
 UNIT
 AMOUNT

 1
 85 ON GRID Solar Rooftop
 5.0% kWp
 3
 142857.14

SUBTOTAL 142857.14 CGST @ 8.9% on 3571.429 SGST @ 8.9% on 413223.14 3571.429

TOTAL 1,50,000.00

Payment received till date: 150000/-





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BILL TO INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA BULDANA- 443001

PLACE OF SUPPLY 27 - Maharashtra ORIGINAL FOR RECIPIENT



GST TAX INVOICE 2020-21-027

DATE 30-06-2020

н ои	SN/SAC ACTIVITY	ESCRIPTION	TAX	UNIT		AMOUNT
1	85 ON GRID		5.0%	kWp	27	1057142.86
	Solar Rooftop		GST	9/01/10/01/14/5		

SUBTOTAL 1057142.86
CGST @ 8.9% on 26428.57
413223.14 26428.57

TOTAL 11,10,000.00

Payment received till date: 1110000/-







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Service aggreement

SPACEFIRE CORP





SERVICE AGREEMENT

Sr. No.	Item	Details
1	Purchaser	INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, MALKAPUR, PIN- 443101
2	Date of Trial Run	Trial Run 25 DECEMBER 2021
3	Scope of Supply	25 kW, 415 V, 3 Phase Grid Connected Solar Roof Top System
4	Inverter Details	Make: Polycab. Serial Number 154D02215200014 DC Input Capacity: 25 kWp
5.	Remote Monitoring System Details (if provided)	Data Logger Type: Wifi Data Logger Number: 1304390508 User ID: <u>IBUSSMalkapur@gmail.com</u> Password: 123456 Mobile App: Ginlong Home from Google Play
5	Solar Module Details	Make: Waaree Polycrystalline, Rating of Each Module: 335 Wp Total Input: 75 nos. x 335 Wp = 25,125 Wp (45 panels on south side installed in March 2020)
6	AC Earthing	Provided to Inverter
7	DC Earthing	Provided
8	Lightning Arrestor	Provided
9	Post Commissioning Support	Service & Support for maintenance needs related to Solar On Grid Rooftop System functioning, for a period of 12 months from the date of trial run. Please contact 9833191664, in case of any service need. Note that the support will not include any other costs towards material, service or transport, which will be charged at actual.
9	Warranty	Inverters and solar modules comes with warranty from the manufacturers. Inverters will have with 5 years of warranty from manufacturer Polycab and solar modules with 10 years of product warranty & 25 years of performance warranty from manufacturer Waaree as per their prescribed norms as given to you. The warranty is applicable on manufacturing defects, and damages due to external factors are not considered under the warranty.
10	Self- Maintenance and Monitoring- in Customer Scope	 Panel cleaning on weekly basis is must for efficient solar generation Ensure Inverter Green Light is always ON during daytime Report to us in case of Red Light or ALARM-yellow

Regd. Office: A-701, Sai Heritage, Sant Tukaram Road, Mulund (East), Mumbai- 400081. Regional office: SHRI OM SOLAR, Tilakwadi, BULDANA- 443001

Mobile: +91 9833191664 Email: spacefirecor

Email: spacefirecorp@gmail.com

www.spacefirecorp.com





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SPACEFIRE CORP

Experts in Rooftop Solar Design, Installation & Commissioning



 Monitor frequently, and keep fortnightly record of Daily/ Monthly/ Till Date Generation as per attached sheet and send these details in case of any problem.
 Ensure MSEDCL meter reading person takes both readings- IMPORT and EXPORT from the NET METER and those are appearing on the monthly bill. Also check whether your banked units carried from the previous bill are forwarded to your latest bill.
 Contact MSEDCL immediately in case of discrepancy. Electricity Bill issues are not in our scope, as that is governed by the bilateral agreement between purchaser & MSEDCL.
7. Solar generation is dependent on the solar irradiation at site. It also gets affected by inadequate cleaning, dust and shadow, & dirty spots which block the solar irradiation. Even a very small shadow on a single panel can reduce the generation by 90% as all panels are connected in series.
 Generation also gets affected if the supply from MSEDCL is intermittent and if there is lack of power supply due to power failure and load shading.
 Electricity bill depends on your solar generation and actual load consumption and usage also. While solar generation is limited by the above parameters, NET electricity bill depends both on your consumption as well as generation.

Note that the agreement is subject to keeping the self-maintenance record of Inverter output and Net Meter Export Import and Generation Meter as per the attached sheet on fortnightly basis. & inform in case of any problem to Spacefire Corp on 9833191664. This warranty does not cover any physical damage due to any cause including but not

limited to natural calamities.

This agreement is valid subject to full and final payment as per the PO. Till full and final payment, the entire material of this Grid Connected Solar System will be the property of SPACEFIRE CORP.

This agreement is valid only if signed by proprietor of Spacefire Corp & sent by Whatsapp / Email from mobile no. 9833191664 or spacefirecorp@gmail.com.

Congratulations for becoming a proud owner of ON GRID Solar Rooftop!

Pramod Deval Director, Spacefire Corp Date:

Accepted by (Name): Signature: Date:

0



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Use of LED Lights

- LED lights are filled with required energy and can use up to 90% less power when compared to incandescent lights, they are highly efficient.
- LED Lights are used in various places in college for achieving proper lightning.
- They are place in a large numbers in seminar hall and at place where our necessary.
- LED bulbs heated on the Pathways are the sensor base which can adjust themselves automatically and are self-illuminated.







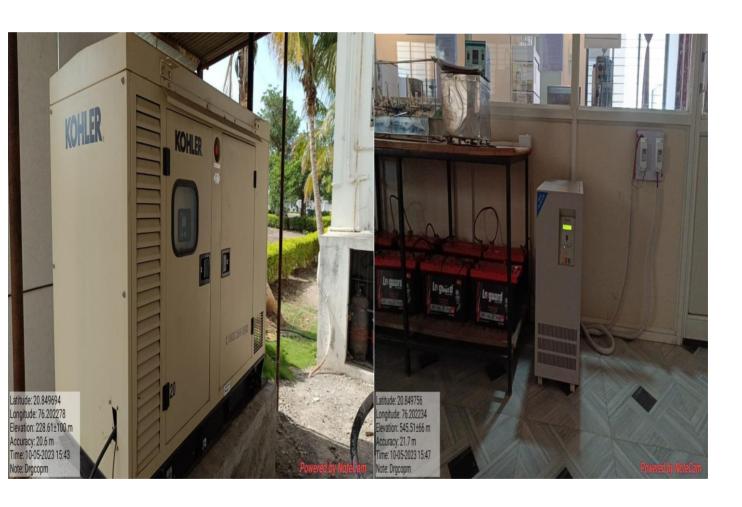
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Alternative source Generator (20KVA 3 Phase Genset STD) and UPS facilities in campus

- As location of institute situated in rural region, electricity power cutoff many times.
- To overcome such problem in emergency, institute have alternative source of generator.
- 20KVA 3 Phase Genset STD
- Also provide power backup to essential computers in college.







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Invoice purchase for Generator (20KVA 3 Phase Genset STD)

VIMAL AGENCIES GSTIN: 27AGFPG8555P1ZP hone number: 9011040724

Date: 03-08-2022

Tax Invoice

Original for Customer Invoice no. INV213

Bill From:

VIMAL AGENCIES

"Prerana" Vijay Vidyut Colony Keshav Nagar Akola Akola Maharashtra -444004

Ship From:

VIMAL AGENCIES

KOHLER POWER INDIA PVT LTD MIDC Chikalthana Aurangabad

Maharashtra - 431005

Seller GSTIN: 27AGFPG8555P1ZP Seller PAN No.: AGFPG8555P Seller Phone No.: 9011040724

Dr Rajendra Gode College of Pharmacy MH SH 176, Near Nimbari phata, Malkapur Buldhana Maharashtra - 443101

Ship To:

Dr Rajendra Gode College of Pharmacy MH SH 176, Near Nimbari phata, Malkapur Buldhana Maharashtra - 443101

Customer Phone No .:

Item Description	Qty	₹Rate	T DI	and the second second		
1. KGKI0020T01S KOHLER 20KVA 3 Phase			₹ Disc.	₹ Taxable Value	₹GST	₹ Amount
Genset STD HSN: 8502	1 NOS	2,57,000.00	0.00	2,57,000.00	46,260.00 CGST+SGST @18.00%	3,03,260.00
					CGS1+SGS1 @18.00%	

Payment Details:

occount #: 052005005879

IFSC Code: ICIC0000520

Sub Total: CGST: SGST:

Total Due:

2,57,000.00 23,130.00

23,130.00 ₹ 3,03,260.00

Total Due: Three Lakh Three Thousand Two Hundred Sixty Rupees Only

₹3,03,260.00

For VIMAL AGENCIES: Authorized Signatory





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INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

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Founder President: Late Dr. Rajendraji V. Gode., Ex-Minister, Govt. of Maharashtra

Shri. Yogendra R. Gode President

Dr. P. K. Deshmukh Principal

Energy Audit Report

notrockel Principal, Dr. Rajendra Gode College of Pharmacy, Malkapur

Dist.Buldana.



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Energy audit certification

Nutan Urja Solutions

(ISO 9001:2015, ISO 50001:2018, ISO 14001:2015, ISO/IEC 17020:2012)

A 703, Balaji Witefield, Near Sunni's World,

Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: nutanurja.solutions@gmail.com



Date: 14/12/2022

CERTIFICATE

This is to certify that we have conducted Energy Audit at Dr. Rajendra Gode College of Pharmacy, Malkapur as per the guidelines of Maharashtra Energy Development Agency (www.mahaurja.com) in the year 2021-22.

The College has already adopted Energy Efficient practices like:

- Usage of Energy Efficient LED Fittings
- Usage of Energy Efficient BEE STAR Rated equipment
- Installation of 25 kWp solar PV system

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

Nutan Urja Solutions,

K G Bhatwadekar,

Certified Energy Auditor,

EA - 22428

Utia Solutions



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Energy audit agreement

Report

On

Energy Audit

At

Dr. Rajendra Gode College of Pharmacy, Malkapur (Year 2021-22)



Prepared by Nutan Urja Solutions

A 703, Balaji Witefield, Near Sunni's World, Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: nutanurja.solutions@gmail.com



Malkapur Phalia



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Energy audit detail of energy consumption

Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

1. Introduction

Dr. Rajendra Gode College of Pharmacy, Malkapur is one of the leading and topmost institutions of Maharashtra which was established in the year 2005. The grown tree what we see on today in the form of DRGCOP Malkapur is the one which once was planted by the great visionary Late Honorable Dr. Rajendraji Gode, founder president of IBSS. Our institute is well known in the region for its academic excellence and state of the art infrastructure to provide higher Education in the field of Pharmaceutical Sciences. It is located on sprawling 3 acres of campus on SH 176 Buldana to Malkapur.

1.1 Objectives

- 1. To study present level of Energy Consumption
- 2. To Study Electrical Consumption
- 3. To assess the various equipment/facilities from Energy efficiency aspect
- 4. To study various measures to reduce the Energy Consumption

1.2 Audit Methodology:

- 1. Study of connected load
- 2. Study of various Electrical parameters
- 3. To prepare the Report with various Encon measures with payback analysis

1.3 General Details of College

Table No-1.1: Details of college

No	Head	Particulars
1	Name of Institution	Dr. Rajendra Gode College of Pharmacy, Malkapur
2	Address	Dr. Rajendra Gode College of Pharmacy, near Nimbari, Phata, Malkapur, Maharashtra 443-101.
3 .	Affiliation	Sant Gadge Baba Amravati University, Amravati

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Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapu

2. Study of connected load

In this chapter, we present details of various connected electrical equipment and electrical load.

Table No-2.1: Location wise study of Electrical fittings in various buildings

No	Location	LED Tube (20W)	LED Bulb (12 W)	CFL	FTL	Fan	Comput	1.5T R Star rate d AC	1.5T R old Acs
	Ground Floor								
1	Passage			10					
2	Office		4	7		9	7	1	
3	Principal Cabin		1	7		3	1		
4	Chemistry lab	6	-			1	1		_
5	Wash Room		1						-
6	Chemistry I	6				1			
7	House keeping	1							
8	Class room	3				5		-	
9	Store rooms	20				10			
10	Library	9				14	11		
11	Class room 2	-3	-	-		5			
12	Tutorial Room	1				1	3		
13	Wash Room			1					
14	Boys Common room	ı				4			
1.5	Maintenance								

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Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Maikapu

	Room								
16	Pharmacology Lab	12				14	1		
	First Floor								
17	Passage			9					
18	Girls Common Room		2			4			
19	Girls wash		1						
20	Tutorial Room		1		- 1	3			
21	Class Room 3		1			5			
22	Anatomy Lab				4	5			
23	Animal House		7			1			1
24	Pharmacology Lab				4	5		llec .	
25	Class Room 4	3				5			
26	Staff Room				2	2		•	
27	Exam Room				1	1			1
28	NSS Room				4	4	1		
29	Biotechnology Lab				3	6		1	
30	Pharma lab I				3	7			1
31	Class Room 5	-4				6		-	
32	President Room	9		= = = "		3		1	
33	Pharma Lab II	4				7	1		-
34	Pharma Lab	4				7			
	Second Floor								
3.5	Passage			-4					

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College Os Phalkapur having * 108



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Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

36	Seminar Hall	24				9		7	1
37	Machine Room	6				5		3	
38	Computer Lab	2				2	20		
39	Pharmy Lab	8				14			
40	Boys Common room	1				4			
41	Gents Wash Room	1							
42	Ladies Wash Room	1							
43	Girls Common Room	1				1			
44	Class Room 6	3				5			
45	Physiology Lab	4				4		133	
46	Class Room 7	3				5			
47	Staff Room	1			-	1			
48	HOD	1				1	1		
49	Tutorial Room	1				4			
50	Pharma Lab	4				7			
51	Biochemistry Lab	4				7		100	
52	Wash Room	1					. ~		
53	Guest Room	- 5				4	-		1
54	Canteen	3				3			9
	Total	160	18	38	21	214	44	13	2

Apart from above load, the school has pumps, LED street lights, CFLs and LED focus street lights on streets and grounds. Individual fitting wise load is as under.

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Table No 2.2: Equipment wise Connected Load

No	Equipment	Qty	Load, W/Unit	Load, kW
1	Ceiling Fan	214	65	13.9
2	AC-Old (1.5 Tr)	2	2200	4.4
3	AC-New (1.5 TR)	13	1838	23.9
4	LED Tube-20W	160	20	3.2
5	LED bulb	18	12	0.2
6	CFL	47	24	1.1
7	F T L-40 W	21	40	0.8
8	Computers	44	65	2.9
9	Pumps (1.5HP, 1HP)		1	1.9
	Total			52.3

Data can be represented in terms of PIE chart as under,



Figure 2.1: Distribution of connected load.



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Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

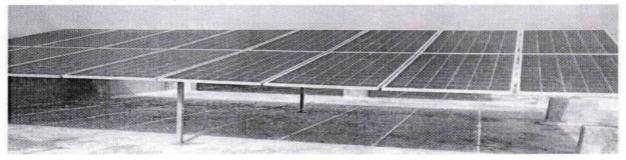
6. Study of usage of alternate energy

In this Chapter, we compute the percentage of Usage of Alternate/Renewable Energy to Annual Energy Requirement of the College. The College has installed Roof Top Solar PV System. The Installed Capacity of Solar PV Plant is 25 kWp.

Table 6.1: Computation of % Usage of Alternate Energy to Annual Energy Requirement

No	Particulars	Value	Unit
1	Annual Energy Purchased from MSEDCL	7,084	kWh/Annum
2	Energy Generated by Roof Top Solar PV System	37,500	kWh/Annum
3	Total Energy Requirement of College	44,584	kWh/Annum
4	% of Usage of Alternate Energy to Annual Energy Requirement	84	%

Photograph of Solar PV plant



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Report on Energy Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

7. Study of usage of LED lighting

In this chapter we study the lighting system of college and compute the percentage of total load catered by LED lighting.

Table 7.1: Total lighting load

No	Particulars	Qty	Load, W/Unit	Load kW
1	FT L-40 W	21	40	0.8
2	CFL	47	24	1.1
	LED lighting load		-	
1	LED tube	160	20	3.2
2	LED Bulbs	18	12	0.2
	Total LED lighting load			3.4
	Total Lighting load			5.4

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It can be seen that out of total lighting load 63% load is LED lighting load.

Solutions, Pune



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2. Management of Various Type of Degradable and Non Degradable Waste

Degradable and Non-degradable Waste Management

Effective waste management is a difficult task for any educational institution because it impacts the health of workers, students, teachers and the environment. Therefore, providing a healthy and safe environment is of utmost priority to the college. The college facilitates several techniques for the management of degradable and non-degradable waste. The primary focus is to reduce, reuse and recycle the waste. The DRGCOP has also advised us to reuse anything which is not needed. The college has different dustbins to segregate waste like gradable dry waste, wet waste etc. Every day the waste is collected in bins and disposed to a place where it can be converted into manure.

For *solid waste management*, different dustbins like blue colour dust bin for dry waste and green colour dust bin for wet waste are put in proper ways located in every floor of the institute and various position in college campus. This ensures that wet solid waste is segregated at the source. The college dug a compost pits for the disposal of biodegradable waste include food waste, canteen waste, paper waste etc. has been kept in a compost pit. Biodegradable, organic waste like cooked food, vegetables, fruits, and leaves are separated by the housekeepers while collecting garbage. The compost form in pit is used for the college garden, botanical garden and other trees and plants on the college campus.

Non-degradable solid waste like paper, cans, cartons, metallic items glass, blades, plastics, and band bandages are also separated and regularly given to the Grampanchayat waste vehicle locally called *Ghanta Gadi* which has regularly collected waste in college campus.

For Liquid waste management, all drinking water tank, laboratory basins, washrooms liquid outlets are collected separately in tank and the well and all sewage and liquid waste are used for irrigation, landscaping and gardening which is best part for utilization and water conservation by reusing liquid waste in campus. And scrap for e-waste like computer parts, cables, destock, are separately stock for e-waste management

As green campus initiation minimum use of paper policy is applied in the college, which helps conserve resources, and only a small amount of paper is wasted. Along with this instead of paper documentation utilized software (Biyani software) in Administration, store, and library.

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Dr.Rajendra Gode College
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The college has organized Swatch Bharat Mission. Under this banner, NSS volunteers have also demonstrated the adequate procedure for disposing waste in an adopted village Kund Kh. Waste recycling involves the collection of waste materials and the segregation of the waste material. In addition to this, the NSS unit in college organized Cleanliness and awareness drive for plastic free campus and implemented of these techniques effectively by proper notifications to students and staff for avoid plastic as nondegradable waste. It was stressed that we should avoid plastic items to the best possible capacity. Moreover, there is a connection with the plastic recycling manufacturers to ensure the wastage is recycled. It is also advised that the college use glass and metal utensils.

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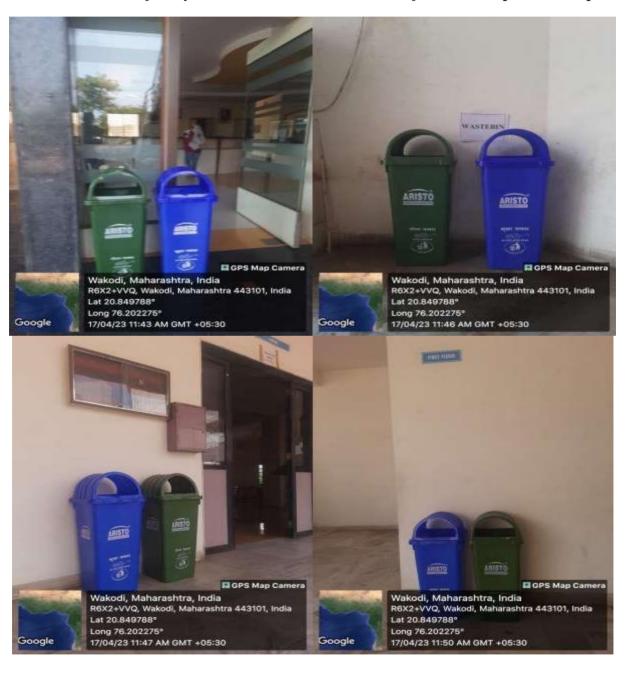
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Solid Waste Management

Blue colour dust bin for dry waste and Green colour dust bin for wet waste place in campus







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Blue colour dust bin for dry waste and Green colour dust bin for wet waste place in campus











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Compost pit for the disposal of biodegradable waste in campus







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Reported in Green audit about Composting tank/Pit

Report on Green Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

6. Study of Waste Management

6.1 Solid Waste Management

The College has already installed a Bio composting Plant, wherein, the bio-degradable waste is composted & is used as fertilizer for the garden.

Photographs of Bio Composting Storage Tanks:



6.2 e-Waste Management

The internal communication is through emails and there is hardly any generation of e-Waste in the premises.

Nutan Urja Solutions, Pune.

Malkapur hall

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Grampanchayat waste vehicle locally called Ghanta Gadi which has regularly collected waste in college.











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For liquid waste management all drinking water tank, laboratory basins, washrooms liquid outlet are collected separately in tank and the well in campus







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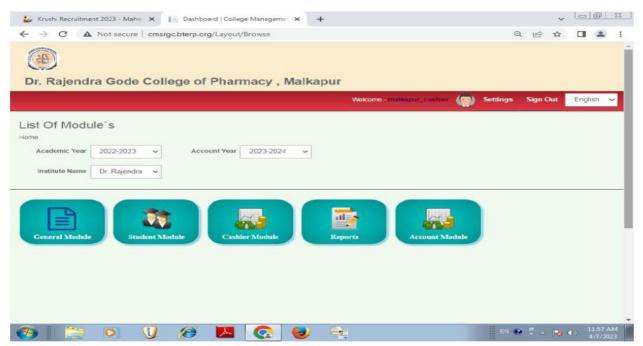
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Shri. Yogendra R. Gode Dr. Yogesh R. Gode Dr. P. K. Deshmukh
President Secretary Principal

Administration:









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Dr. Yogesh R. Gode Secretary

Dr. P. K. Deshmukh Principal

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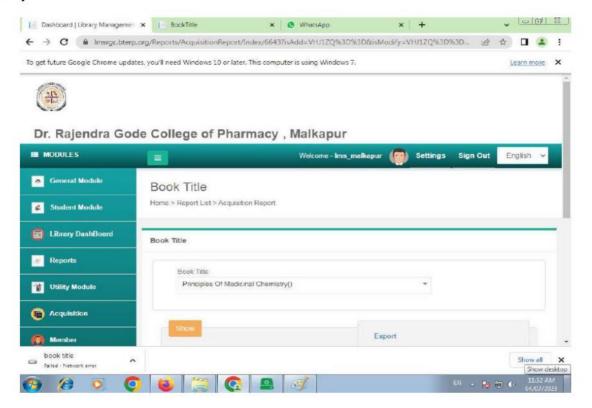
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E-waste management









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NSS unit in college organized Cleanliness and awareness drive for plastic free campus

3. Clean and Green Campus Initiative

3.1 Clean Campus Initiative

#स्वच्छ भारत 2.0# प्लास्टिक निर्मुलन अभियान









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3. Water Conservation

For water conservation in college different methods are adopted like rainwater harvesting, Open well recharge, construction of water tank, and water distribution system in campus.

Rainwater harvesting facility is available in campus. Rainwater is also one of the sources of water is collected the room top of the building and in open Areas where has a high run of coefficient. The collected rainwater was transferred to per location tank located at feasible position near to open well in the college campus.

Open well are constructed in feasible points inside the college premises full stop the area where our college is located is occasionally satisfied with the rainfall so the open well recharge is also done simultaneously is also supported with rainwater harvesting system.

Overhead tank is constructed at the top of the buildings for the purpose of holding water which is a part of water distribution system. Water pumps to overhead tanks are primarily connected to RO water systems at each floor of the college, where students can drink clean water that is attached to auto-filled coolant that automatically shut off when they are fully filled to prevent water waste. Other utility of water in campus Laboratories, cleaning purpose, gardening etc. The tanks are periodically monitor and maintain for leakage and blocks are immediately necessary actions are taken for maintenance.

Maintenance of water bodies and water distribution system in a campus. Water distribution in a campus is well established with adequate facility to full field the needs of users. The overhead tanks are distributed inside the campus through the tabs stop immediate action are taken to restrict wastage of water when over problem related to plumbing are identified all walls are check properly to avoid the leakage

The water users are educated thoroughly to the use water efficiently without any waste the plantation area are maintain properly inside the college campus.

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Rainwater harvesting facility is available in campus with rain water collection at tank and the well













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Green Audit reported about Rainwater harvesting

Report on Green Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

5. Study of Rain Water Harvesting

The College has already installed Rain Water Harvesting project, wherein the rain water falling on the terrace is collected and through pipes it is fed to underground Water Storage tank. This stored water is then reused for domestic purpose.

Photograph of Rain Water Harvesting pipe



Uria Solonions



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Nutan Urja Solutions, Pune.



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Open well in campus as water resource



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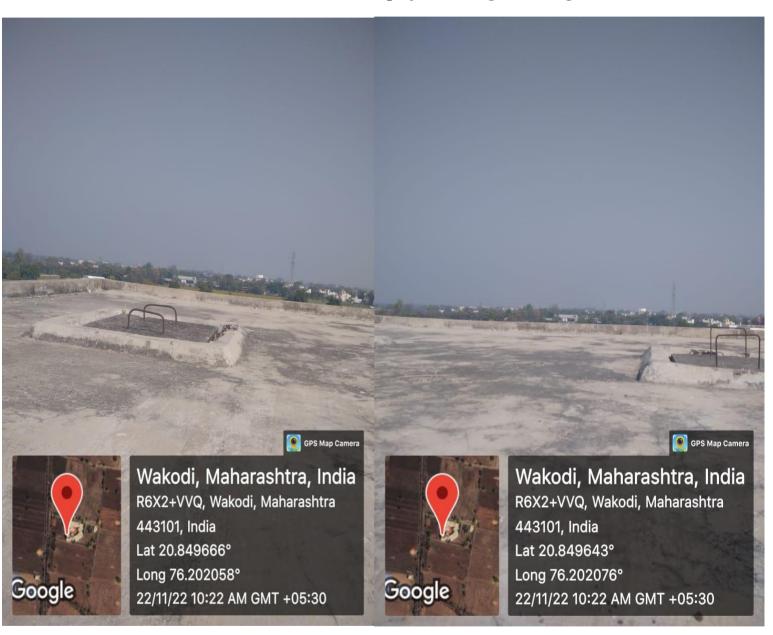


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Overhead tank is constructed at the top of the college buildings







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Water distribution system in a campus.





Auto-filled coolant that automatically shut off when they are fully filled to prevent water waste.





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4. Green Campus Initiative

For initiation of ecofriendly environment and green campus in college take following steps

Maintenance of Herbal Garden and landscaping in campus

As part of curriculum for study of different herbal medicinal plant and also maintained green campus initiation College have well developed Herbal Garden within the campus with near about 50 different species of medicinal plants are available in medicinal Garden and 200 plants are maintain in garden. The landscaping is field with plant at various location in a college premises to create ecofriendly environment. Plantation and garden maintenance are done by gardener appointed in college. Every year The NSS unit of DRGCOP organized tree plantations programs to promote clean and green campus. Special species of Tulasi plants are plant at Birthday occasion of staff to bring awareness by improving oxygen level in the campus.

Restricted entry of automobiles

Two wheelers and four wheelers of students are restricted to particular areas within the campus by keeping chain across the road. Separate parking areas are provided for staff and students for both two wheelers and four wheelers. Within the campus the speed limit is 20 km per hour.

Pedestrian friendly Pathways.

In ordered to have a block free moment will mark parking Pedestrian pathway are available in campus.

Pediatrician friendly Pathways are located at various location of campus for easy moments

The college encourages pediatrician friendly pathway to connect various departments and entry to automobiles is restricted to students and staff. The pathway are arrange with trees and plan and maintain well.

Plastic free initiation in campus

Ban on use of plastics the college made efforts to achieve the goal of plastic free campus has a result of these NSS unit in campus are in charge of rising awareness program for plastic free campus to save environment.

College have Green Audit report in 2021 by Nutan Urja solution, Pune.



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Maintenance of Herbal Garden and landscaping in campus







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Maintenance of Herbal Garden and landscaping in campus





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Green audited list of medicinal plants in Herbal Garden



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E-mail: drgcopmalkapur@gmail.com cop_malkapur@rediffmail.com Web: www.drgcop.co.in Recognized by AICTE & PCI, New Delhi and Affiliated to S.G. B. Amravati University, Amravati

Report on Green Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

8. Green Landscaping with Trees and Plants

The Institute has beautiful maintained Garden. List of trees in garden are as follows.

Table 8.1: List of trees

Sr no	Botanical Name	Name of Plants	No of plants	
1	Prunus Dulcis	Almond	1	
2	Annona Squamosa	Sitafhal	4	
3	Saraca Asoca	Ashoka	5	
4	Phyllanthus Emblica	Amala	4	
5	Aloe Barbadensis	Aloes	1	
6	Terminalia Arjuna	Arjuna Bark	2	
7	Justicia Adhotoda	Adulsa	2	
8	Ficus Glomerata	Avdumbar	1	
9	Aegle Marmelos	Bel Fruit	3	
10	Termilia Bellirica	Beheda	3	
11	Mimusops Elengi	Bakula	5	
12	Syzygium Cumini	Java Plum	7	
13	Thuja	Vidya	52	
14	Cirtus Sinensis	Sweet Orange	3	
15	Crotona Tiglium	Jamalgota	1	
16	Cocos Nucifera	Coconut	24	
17	Datura Stramonium	Datura	1	
18	Tinospora Cordifolia	Gulvel	1	
19	Cissus Quadrangularis	Hatjod	1	
20 Hibiscus Rosa-sinensis		Jaswand	2	
21	Carissa Carandas	Karvanda	1	
22	Murraya Koenigii	Karipatta	i	
23	Chrysopon Zizanioides	Khas	2	
. 24	Cymbopogon Citratus	Lemon Grass	1	
25	Artocarpus Heterophyllus	Jackfruit -	- 4	
26	Głycyrrhiza Glabra	Liquorice	- 1	
27	Cirtus Limon	Lemon	2	
28	Lawsonia Inermis	Mehandi	1	
29	Mangifera Indica	Mango	30	
30	Vitex Negundo	Nirgudi	4	
31	Azidirachta Indica	Neem	5	
32	Ficus Religiosa	Pimpat	1	
33	Psidium Guajava	Peru	5	

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Report on Green Audit: Dr. Rajendra Gode College of Pharmacy, Malkapur

34	Piperv Betla	Nagar-Bel	3
35	Bryophyllum Pinnatum	Panfuti	2
36	calotropis Procera	Rue	1
37	Annona Reticulata	Ramphal	1
38	sapindus Mukorossi	Ritha	1
39	Tripidium Bengalense	Sarkanda	1
40	Mentha Spicata	Spearmint	20
41	Asparagus Recemosus	Shatavari	1
42	Alstonia Scholaris	Satparni	14
43	Curcuma	Turmeric	1
44	Drimia Indica	Wild Onion	1
45	Azadirachta Indica	Neem	12
46	Bauhinia Racemosa	Apta	2
47	Dalberdia Sissoo	Shisam	1
48	Catharanthus Roseus	Periwinkle	10
49	Cymbopogon Winterianus Jowitt	Citronella Grass	1



Figure 8.1: Beautiful maintained Garden of college



1.7







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(ISO 9001:2015, ISO 50001:2018, ISO 14001:2015,

ISO/ IEC 17020:2012)

A 703, Balaji Witefield, Near Sunni's World,

Sus Road, Sus, Pune 411 021

Phone: 83568 18381. Email: nutanvrja.solutions@gmail.com



Date: 14/12/2022

CERTIFICATE

This is to certify that we have conducted Environmental Audit at Dr. Rajendra Gode College of Pharmacy, Malkapur in the year 2021-22.

The College has already adopted following projects for making the campus Green and Energy Efficient.

- ➤ Installation of Bio Composting Pit
- Installation of Rain Water Harvesting System

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

Nutan Urja Solutions,

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K G Bhatwadekar, Certified Energy Auditor,

EA - 22428

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Environmental Audit Report: Dr. Rajendra Gode College of Pharmacy, Malkapur

Executive Summary

After the Field measurements & analysis, we present herewith important observations made and various measures to reduce the dependency on Natural resources & reduce the pollution.

Dr. Rajendra Gode College of Pharmacy, Malkapur consumes various resources for day to day operations, namely: Air, Water, Electrical Energy & LPG.

1. Various Pollution due to College Activities:

- Air pollution: Mainly CO2 on account of Electricity & LPG Consumption
- > Solid Waste: Bio degradable Kitchen Waste, Garden Waste
- Liquid Waste: Human liquid waste

2. Present Level of CO2 Emissions:

Sr no	Parameter	Energy consumed, (Units)	CO2 Emission (MT)
1	Maximum	1,568	1.3
2	Minimum	•	-
3	Average	590	0.5
4	Total	7,084	5.7

3. The various projects already implemented for Environmental Conservation:

- Usage of Energy Efficient BEE STAR Rated ACs
- Usage of Natural Day light in corridors
- > Implementation of Bio Composting pit for disposal of Bio degradable waste
- Implementation of Rain Water Harvesting
- Installation of 25 kW Solar PV Power Plant.

4. Recommendations:

- 1. Installation of Bio Gas Generator Plant instead of Bio composting Plant.
 - Installation of Sewage treatment Plant to make campus a Zero Discharge campus

4

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Environmental Audit Report: Dr. Rajendra Gode College of Pharmacy, Malkapur

3. Study of Environmental Pollution

In this Chapter, we present the various types of Pollution as under:

3.1 Air Pollution

The College is using two forms of Energies, namely: Thermal in the form of LF Electrical Energy used for day to day operations of the College. The major pollut account of above Energy forms is the Carbon Di Oxide.

- 1 unit (kWh) of Electrical Energy emits 0.8 Kg of CO₂ in the atmosphere
- I Kg of LPG emits 3 Kg of CO₂ in the atmosphere

In the following Table, we present the CO2 emissions.

Table 3.1: Month wise Consumption of Electrical Energy & CO2 Emissions:

No	Month	Energy Consumed, kWh	CO2 Emissions, MT		
1	Jul-22	1,568	1.3		
2	Jun-22	988	0.8		
3	May-22	1,025	0.8		
4	Apr-22	816	0.7		
5	Mar-22	294	0.2		
6	Feb-22	380	0.3		
7	Jan-22	18	0.0		
8	Dec-21	788	0.6		
9	Nov-21		0.0		
10	Oct-21		0.0		
11	Sep-21	509	0.4		
12	Aug-21	698	0.6		
	Total	7,084	5.7		
	Maximum	1,568	1.3		
	Minimum		1. 4 2		
7	Average	590	0.5		







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In the following Chart we present the CO2 emissions due to usage of Electrical Energy.

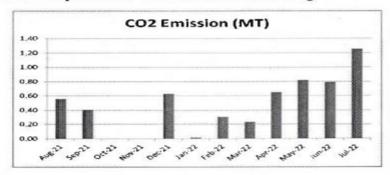


Figure 3.1: CO2 emission due to usage of electrical energy.

3.2 Study of Solid Waste Generation

The College has already installed a Bio composting Plant, wherein, the biodegradable waste is composted & is used as fertilizer for the garden.

3.2.1 Photograph of Bio Composting Processing Tanks



3.3 Study of Liquid Waste Generation

At present the Liquid Waste generated due to day to day operations is drained off to the municipal Corporation through a pipe.

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Figure 8.1: Beautiful maintained Garden of college







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7. Study of Green Practices

7.1 No of students who don't use own Vehicle for coming to Institute

Out of total students coming to Institute, about 60% students use own Automobile.

7.2 Usage of Public Transport

During the Students transport study, it was revealed that the local students who are residing near areas make use of Public Transport like Municipal Transport local buses, local sharing type auto rickshaws. Some students use bicycles. The average number of students is approximately 40 %. Institute encourages students to not to use automobiles.

7.3 Pedestrian Friendly Roads

The Institute has well defined pedestrian foot paths as to facilitate the easy movement of the students within the campus.

Photograph of Road within campus



7.4 Plastic Free Campus

The Institute is an active participant in the Government of India's most prestigious project of SWATCHH BHART ABHIYAN. The Institute has displayed boards in the Campus, to make the campus plastic free. Various measures adopted for this purpose are as follows

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Pedestrian friendly Pathways.







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NSS organised Tree plantation programs in college campus







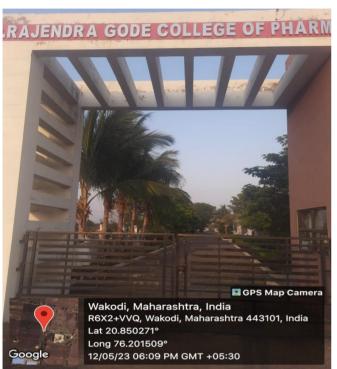


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Restricted campus Gate entry for automobiles











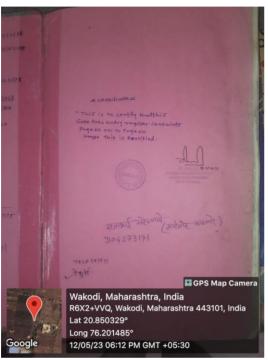


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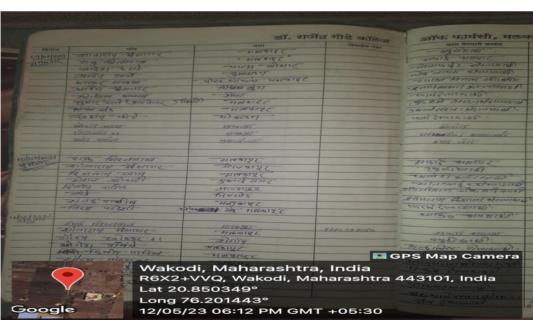
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Restricted campus Gate entry register for automobiles



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Plastic free initiation in campus

3. Clean and Green Campus Initiative

3.1 Clean Campus Initiative

#स्वच्छ भारत 2.0# प्लास्टिक निर्मूलन अभियान









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Plastic free initiation circular

INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S



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Founder President: Late Dr. Rajendraji V. Gode., Ex-Minister, Govt. of Maharashtra.

Shri.Yogendra R.Gode President Dr. P. K. Deshmukh
Principal

Ref. No. DRGCOP/2021/9

Date: 16/03/2021

Important Circular

All the faculty, staff and student, hereby informed that as per the guideline of UGC for Ban of Plastic use in higher education institutes, we are going to strictly ban plastic use in our campus to beat the increasing of plastic pollution. Because plastic is a menace that impacts not the environment as well as our health and wellbeing. Let's all together must practice to stop the rampant use of plastic in our daily rutting and promote pollution we have to adopt 3R's (Reduce, Reuse, and Recycle) to safeguard national resources.

Hence I request you all to make our campus plastics free.

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Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra.

Shri.Yogendra R.Gode President Dr. P. K. Deshmukh Principal

Ref. No. DRGCOP /2011 (9)

Date: 16/03/2021

IMPORTANT CIRCULAR

Reference Guideline for ban of plastic use in higher Education institute issued AICTE Govt. of India Ministry of Human Resources development.

Subject - Ban of single use of plastic in Indore Institute group campus. Increase of plastic waste is one biggest concern, which is adversely affecting environment and soil. To reduce the usage of plastics, the UGC has issued special guideline to all higher education institutes to impose on single- use plastics on the campus.

All the stake holders of Indore institute group are her by informed that group has decided to ban single use plastic material in campus with following initiatives -

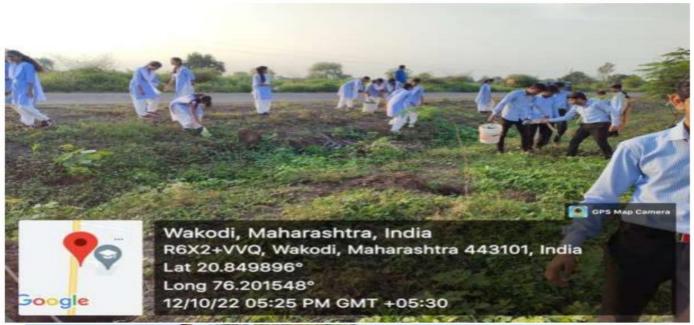
- 1. In whole campus premises including, canteens, hostel, premises etc. there will be ban of single use of plastic.
- There will be ban on use of plastics and replacement of the same with any other environmental friendly alternate
- 3. Regular awareness programs and workshop to sensitize students, staff members on the hazardous impact of single use of plastics by 'Green Wave Club
- 4. Student and staff members are encouraged avoiding bringing plastic items in the campus.
- 5. Group is promoting use of cloth bags, paper bags glass or metal bottles
- To keep sign board at various places in campus for publicity to ban on use of plastic items in the institute.



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E-mail: drgcopmalkapur@gmail.com cop_malkapur@rediffmail.com Web: www.drgcop.co.in Recognized by AICTE & PCI, New Delhi and Affiliated to S.G. B. Amravati University, Amravati









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5. Disabled Friendly, Barrier free Environment

Dr. Rajendra Gode College of Pharmacy, Malkapur follows the national policy of the Government of India for divyangjan. The institution ensures the implementation of the teaching and learning policies for divyangjan. The college strictly prohibits any form of discrimination against divyangjan. In fact, divyangjan are to be treated as differently abled and considered important manpower for our college. They are to be given opportunities on par with others. Their rights are to be fully protected. They are encouraged to participate fully in all academic and non-academic activities. The college strives to create an environment to help the divyangjan including

- Ramp to be provided in the building for free movement.
- Special washroom facilities suitable for divyangjan.
- Human assistance in the form of scribes, etc.
- Special care and support in the classroom
- Provide counseling to differently-abled individuals in the Institute for Better Learning Support.
- Create awareness about the needs of persons with disabilities and other general issues.
- •To provide equal educational opportunities to disabled persons in the Institute.
- To adequately support learners with disabilities with the right resources and assistive technology, and with leadership, teaching staff as a whole being responsive to their needs.

Code College OF Phase Malkapur

Principal, r.Rajendra Gode College of Pharmacy,Malkapur Dist.Buldana.

Smilel



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Divyangjan Policy Document

INDIRA BAHUUDDESHIYA SHIKSHAN SANSTHA, BULDANA'S

Dr. RAJENDRA GODE

Buldana Road, MALKAPUR - 443101 Dist - Buldana (M.S.) Mob. 8308827339

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Founder President: Late Dr. Rajendraji V. Gode., Ex- Minister, Govt. of Maharashtra.

Yogendra R.Gode

Dr. P. K. Deshmukh Principal

President

Date: 21/08/21

DIVYANGJAN POLICY DOCUMENT

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- To provide equal educational opportunities to disabled persons in the Institute.
- To adequately support learners with disabilities with the right resources and assistive technology, and with leadership, teaching staff as a whole being responsive to their needs.



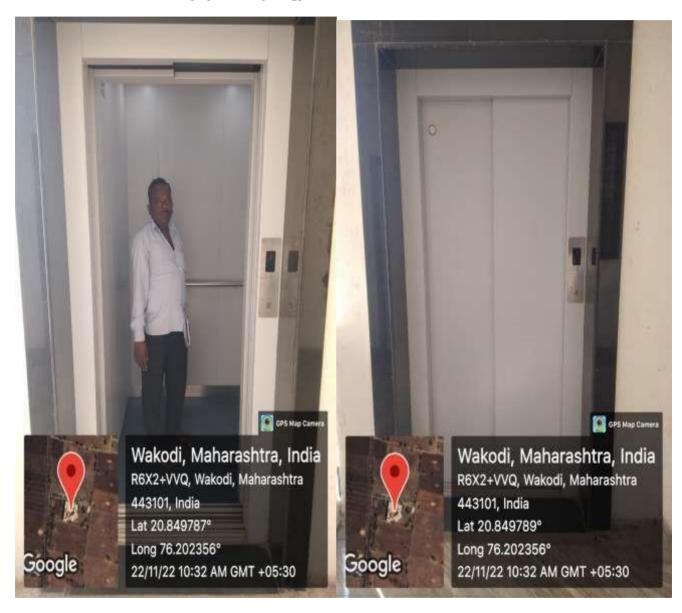


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Lift for Divyangjan







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Divyangjan Toilet





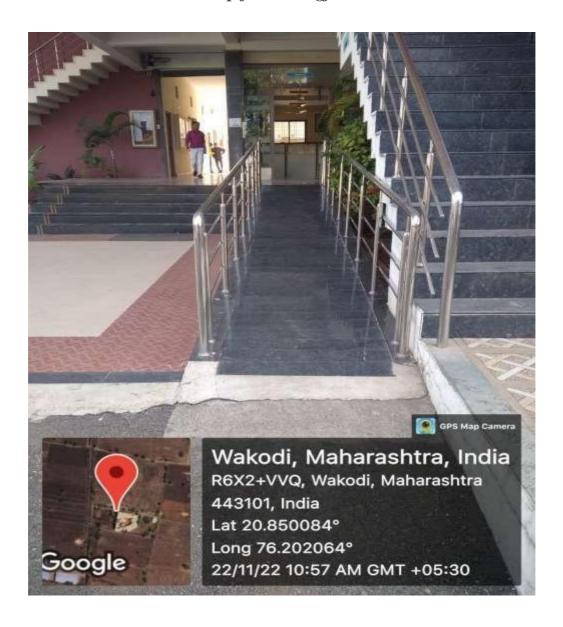


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Ramp for Divangja







E-8-O-E-

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Lift Invoice Purchase



TAX INVOICE

ORIGINAL FOR RECIPIENT

JOHNSON LIFTS PRIVATE LIMITED
PLOT NO. 002 MAA AMBE ENCLAVE
NEAR NEW ENGLISH GOLDEN SONOOL
BALAII NAGAR, AMBELON ANGAR, MEARMOTI NAGAR
AMRAVATI 444006
Phone: 09320927955, 8087722208
State Code: 27 State: MAHARASHTRA
05TIN NO: 27AAAG08380326 PAN: AAAG08380.
6-Mas: infoglyohisonilitised.com

Details Of Customer (Bill To)
INDIRA BAHUDDESHIYA SHIKSHAN SANSTHA
DR GODE NIWAS
OHKHU ROAD Details Of Customer (Bill Tol Place of Supply / Delivery
INDIRA BAHUDDESHIYA SHIKSHAN SANSTHA
COLLAGE OF PHAIMACY,
BULDHINA ROAD,
MALICAPER
DIST-BALDHANA
PIN: 443101. Place of Supply / Delivery GST Invoice No: MH06011800098 Date Job No : Branch Code MH06 Cust. Code 067994 MH06/NMAJ181002126 UNREGISTERED 27 State State: MAHARASHTRA Tax Pavable under Reverse charge : NO 102966.10 9266.95 9266.95 121500.00 Interest @ 18% per annum will be charged on all invoices not paid within 30days from the date of in 2. All Payments are to be made in favour of "DOHNSON LIFTS PRI VATE LIMITED" by Crossed Account "avee Cheaue / Draft, Subject to Resitation.
 Cash Payment Will Not be Accepted.
 This is a computer generated invoice. No manual signature required. PADMA NABAN **Authorised Signatory** Address of Principal place of Business: Plot No. F. 11/12 Sub-Divided Plot No. 14, Wicel Midc Marol Industrial Area Greater Mumbai 400093

Registered & Corporate Office: No.1 East Main Road, Annanagar Western Extension, Chennai 600 101- CIN No.U27209TN1981PTC008718





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Lift Invoice Purchase

ORIGINAL FOR RECIPIENT

TAX INVOICE

JOHNSON LIFTS PRIVATE LIMITED
PLOT NO, 002 HARA AMBIE ENCLAVE
NEARNEW ENVISH HOLDEN SCHOOL
BULLAH HANGER AMBGAR HAGAR NEAR MOTI NAGAR
AMBAVATI 44506
Plonie: 99326927955, 9987722208
State Code: 27
State: MAHARASHTRA
GSTIN NO : 27A.AAC.08380;126
E-Maid : sind@ijohnsonifishid.com

Details Of Customer (Bill To) INDIRA BAHUDDESHIYA SHIKSHAN SANSTHA

Place of Supply / Delivery

MH06011800027 GST In Date Job No : 22-MAY-2018 146224 MH06 C67934 Branch Code

Oust. Code MH06INMAJ180500559

		HSN/SAC	Qtv	Value	5	GST		CGST
No 1	Description Gairn upto 30% against Supply and Erection of 1 No. JOHNSON S PASSENGER UPT (S44 Kgs) Electric ENDURIONIC Lift for your Sulfang	995466	-	205932.00	9%	18534.00	9%	18534.00
	-		-					
	_			205932.00		18534.00		18534.0 243000.0
	ount in words: Indian Rupees TWO LAKH FORTY THREE THOUSAN		of invoice			Total invoice		
2. A	iterest. © 18% per antum will be chagged on all involoes not bald within. If Payments are to be made in favour of "JOHESON LIFTS PRIVATE LIM" type Chonya. Youth. She made in Realization. 19 years of the Realization of Payment Will Mad the Accepted. It is a computer generated Involce. No manual signature required.	TED* by Crossed Acco	ount	-		M PADM NABA	4 0	A STAN

Registered & Corporate Office: No.1 East Main Road, Annanagar Western Extension, Chennal 600 101. CIN No.U27209TN 1981PTC008718





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Lift Annual Maintenance

		Iver Johnson 🧈
	SERV/	08 / QR / 05 Over fifty years of taking you higher!
NED ON BEHALF OF T	HE CUSTOMER	
ef. No:	SMF4948	Date: 24-NOV-2020
ft No./s:	L-L6224	
		CANCOLAN CANCILIA
anse & Address of Client:		SHIYA SHIKSHAN SANSTHA
	DR GODE NIWAS CHIKHLI ROAD	
	-	
	BULDHANA 44300	и
nstallation Address:	COLLEGE OF PHA	
	BULDHANA ROAD	
	DIST-BULDHANA	162001
Contract Amount (Basic)	48600 Per Lift	162001-
SGST 9% + CGST 9%	8748/	- Com 6 Comvie
Total Contract Amount	(57348	8/Per Lift 19116 - +01 8 381 116
Period of Contract:	From 05/12/2020	
CUSTOMER		JOHNSON LIFTS PRIVATE LIMITED
		Service Sales Exe Name : Ankush Madhure
Name :		Contact Number: 97679369769
Contact Number :		Signature : 100 Date : 28/11/20
Email ID:		Signature : Date : 28111
Signature (Authorised Signa	atory):	
		Approved By:
Designation With Seal:		Signature (Authorised Signatory);
		Name & Designation:
	TNO CARL TR	RANSACTION ALLOWED"
	by Cheques / Drafts in fav	your of Johnson Lifts Private Limited or Electronic Fund Transfer. SIGNING THE CONTRACT AND PAYMENT RECEIVED.
CONTINUE	imposed by the Central /	State Government during the contraction person
Note: Any taxes, duties, levier shall be claimed extra and sha Our PAN No: AAACJ6838Q	II be payable by you on de CIN NO : U27209TN19	81PTC008718 Our GST No. 27AAACJ0838Q1Z6







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Shri. Yogendra R. Gode President Dr. Yogesh R. Gode Secretary Dr. P. K. Deshmukh Principal