

GREEN AUDIT REPORT



GOVERNMENT DEGREE COLLEGE

CHANCHALGUDA

HYDERABAD, T.S.

Green Audit Assessment Team

Internal

1. Dr. P. Venkata Ramana (Chairman)
2. Shri. Syed Fareeduddin (Vice Chairman)
3. Dr. Aziz Mohd Khan (Coordinator)
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External

1. Dr. Selma Raj Kumari
2. Smt. N. Chandana

ABOUT THE COLLEGE/ COLLEGE PROFILE

The GDC Chanchalguda was established in 2017 to cater to the educational needs of the socially and economically under privileged students. Due to large strength and lack of accommodation, the institution started shift system, in a common campus shared by Govt. Junior College Chanchalguda. The campus area is about 2.5 acres and the built up area is about 5000 sq.ft. The building was newly constructed to cater the need of students is well ventilated with natural air flows in all rooms. The GDC Chanchalguda is offering B.A., B.Sc., B.Com with combination under CBCS system. Total strength of the students is about 970 and the Teaching staff (26) / Non teaching staff (10) including regular, redeployed and contract faculty.

Objectives

Environmental Audit can be highly valuable tool for college in improving environmental and economic performance by reducing wastage.

The aim of Green audit is to survey the existing vegetation assess the significance of the features found in order to facilitate the development of environment for long term objectives. These objectives help in demarcation of areas in restoring biodiversity.

The Internal Audit team collect the factual data of the campus about water, energy and waste management and the external audit team make recommendation for conservation, protection, rejuvenation of natural environment by involving students and faculty members.

Water management

The study evaluates the facilities of water intake. The process investigates the method that can be adopted and implemented to balance demand and supply of water.

S.N o.	Parameters	Reference	Remarks
1	Source of water	Municipal+20	
2	No. of motor used	1	
3	Horse power – Motor	1/2hp	
4	Number of water tanks	2	
5	Capacity of Tank	5000 lts	
6	Any water wastage/ why	No	
7	Water wage for gardening	No	
8	Waste water sources	Toilets	
9	Use of waste water	No	
10	Rain water pits available	Yes	
11	Any leaky taps	No	
12	Any water saving technique	Yes - diverted to plantation	
13	Are there any sign reminding people to turn off the water	Yes	Sign boards

Energy management

Energy audit deals with conservation and methods to reduce consumption. This indicator address energy use, energy sources and monitoring for optimum utilization.

S.No	Electrical appliances/instruments	Number	Power(W)/unit	Total power(W)	kW	Operation/day	kW/hr	No. of days in month	Total consumption per month
1	Tube lights	25	20	500	1/2	4 hours	2	25	50 kW
2	Fans	36	60	2160	2.16	4 hours	8.64	25	172.8 kW
3	Computers	7	200	1400	1.4	6 hours	8.4	25	210 kW
4	Projector	1	150	150	0.15	4 hours	0.3	25	7.5 kW
5	Printers	3	300	900	0.9	1 hour	0.9	25	2.25 kW
6	Photocopy	1	500	500	0.5	1 hours	0.5	25	12.5 kW
7	Motor	1	400	400	0.4	1 hours	0.4	25	10 kW
8	C.C. T.V.	6	6	36	0.036	4 hours	0.864	30	25.92 kW

Carbon foot Print Analysis

1. Total number of vehicles used:	4 wheelers	2 wheelers
Faculty	3	27
Students	-	400
Public transportation by students	-	300
Average distance travelled	-	5 Kms
Quality of fuel used	-	1/2 Ltrs
Average Quality of fuel by car	-	2.5 Litre
No of generators used per day	-	Nil
Amount of fuel used	-	Nil
Number of LPG Cylinders/in Labs	-	Nil
Use of fire wood	-	Nil

Waste Management

It is the biggest challenge that educational institutions have to face Human activity create waste. This pose a great risk hence it is to be handled, stored and disposed off. Unscientific collection or handling create risk to everyone the audit team found the waste generated.

S.No.	Type of waste	Particulars
1	E waste	Computer parts, electrical parts, electronic parts.
2	Plastic waste	Pen, refill, water bottle, wrappers, tea chips.
3	Solid waste	Damaged furniture, paper plates, paper waste, food waste, paper tea cups.
4	Waste water	Washing of hands, urinals, toilets.

E waste management

Computers parts, printers, electronic devices, become non functional, hence considered ewaste. These waste are mostly made up of hazardous metals like lead, cadmium etc. All ewaste like keyboard, motherboard, printers are stored separately. Private agency collect the ewaste periodically for safe disposal printer cartridges are refilled outside the college campus.

Flora and Fauna in campus

Floral diversity

S.No.	Local name	Scientific name	No. of plants
1	Seetaphalam	Anona squamosa	4
2	Kamga	Pongamia pinnata	2
3	Vepa	Azadiracta indica	1
4	Subabul	Leucaena leucocephala	6
5	Medi chettu	Ficus racemosa	1
6	Neredu	Sygyzinm cumini	2
7	Eduakulaponna chettu	Alstonia scholaris	1
8	Nemalinara chettu	Holoptelea integrifolia	1
9	Seema chintha	Pithecellobium dulce	3
10	Naramamidi	Polyanthia lougifoher	1
11	Jasmine	Millingtonia hortensis	1

Fauna diversity

S.No.	Local name	Scientific name
1	Earthworm	Lumbricus
2	Butterfly (Crimson rose)	Pachliopta hector linnaeus
3	Butterfly (Common wanderer)	Paresonia valeria
4	Fire ant	Solenopsis invicta
5	Honey bee	Apis mellifera
6	Paper wasp	Polister exclamatus
7	Dragon fly	Sympetrum flaveolum
8	Grass hopper	Caelifera
9	Praying mantis	Mantis religiosa
10	Snail	Pila sp
11	Indian Toad	Bufo
12	Garden lizard	Calotes versicolor
13	House gecko	Hemidactylus
14	Rock pigeon	Columba livia
15	Black koel	Endynamys
16	Myna	Acridotheres tristis
17	Wood pecker	Hoopoe (Gutta cristatus)
18	Crow	Corvus splendens
19	Sparrow	Passer domesticus
20	Parrot	Psittacula sp