

ENERGY AUDIT REPORT

2021-22

Govind Sarang Government Law College Bhatapara
Distt. Balodabazar Bhatapara Chhattishgarh

Submitted to

Principal,

Govind Sarang Government Law College Bhatapara
Distt. Balodabazar Bhatapara Chhattishgarh

By

Mr. Devnath verma


'A' Class Electrical Contractor
Shri Sai Electricals & Civil Construction
Proprietor Devnath Verma
A-Class Contractor

ACKNOWLEDGEMENT

We express our sincere gratitude to the Principal, Dr. D.D. Prusty of Govind Sarang Govt. Law College Bhatapara Distt. Balodabazar Bhatapara Chhattishgarh for awarding us the assignment of Energy Audit of their college premises.

We are also thankful to various Head of Departments & other Staff members for helping us during the field measurements.

We hope that the recommendations stated in this report will be useful and worthy of discussions to take things forward to help implementation of energy conservation measures through energy savings. While we have made every attempt to adhere to high quality standards, in both data collection and analysis through the report, we would

welcome your suggestions so as to improve upon this report further.

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PREFACE

Data collection for energy audit of the Govind Sarang Govt. Law College Bhatapara Distt. Balodabazar Bhatapara Chhatisgarh Campus was conceded by team for the period of 01 July 2021 to 30 June 2022. This audit was over sighted to inquire about convenience to progress the energy competence of the campus. To drop of energy utilization whilst cultivate or humanizing comfort, health and safety were of prime anxiety. This audit required to recognize the mainly energy proficient appliances. Besides, several each day processes concerning common appliances have been provided which facilitate sinking the energy expenditure. All data collected from each classroom, and every other rooms. The work is completed by considering, how much tubes, fan, A.C. electronic instruments, etc in each room. How much was participation of each component in total electricity consumption.

Energy Audit Govind Sarang Government Law College Bhatapara Distt. Balodabazar Bhatapara Chhattishgarh

Introduction:

Govind Sarang Government Law College Bhatapara Distt. Balodabazar Bhatapara Chhattishgarh The College is running with B.A.LL.B. 5 year's Integrated degree Course program in which central unified syllabus of U.G.C. has been followed. Under B.A.LL.B. program, The College has today become one of the premier institutions of the town. The energy audit of Govind Sarang Government Law College Bhatapara Distt. Balodabazar Bhatapara Chhattishgarh is conducted as per CSPDCL guidelines.

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

Audit Methodology:

1. Study of connected load
2. Study of various Electrical parameters
3. To prepare the Report

By observing all the study lack of electricity and huge electricity demands. It is necessary to plan to be self-sufficient in electricity requirement. In the present study, college electricity audit has been done. In this study considered practical laboratory, instrument, Fans, air conditioners, Computers etc are considered in this study. We have studied total saving of electricity and money through energy efficient equipment's. Also, it is studied that exact contribution of bulb, fans, computer, instruments etc in the total requirement of electricity. We studied all these mentioned things by collecting exactly data form survey.

License No. 22/2284/A


ENERGY INSPECTION SURVEY & AUDIT REPORT

An Inspection Survey and an analysis of energy flows for energy conservation are being conducted on **Govind Sarang Govt. Law College Bhatapara Chhattisgarh**. The College Campus has Singal Source of Energy. There is no any renewable source of energy found i.e. Solar. Wind Power etc. The Requied Load of College Building Primises is Dependent on non- renewable Source of Power Suply Provided by Chhattisgarh State Power Distribution Company Limited (CSPDCL). Solar Power System might be notable for energy conservation of the campus. The Solar energy would be supporting Source of Power supply during sunny days and the inhance the energy Conservation. It me also lower the cost of energy used by College Campus.

Energy Consumption as per actual service load year 2021-22

As far Concerning the energy audit. Electricity audit is main concern regarding educational institution. We have collected data by considering the tube light, Fan, Computer, Printer, A.C. and Instrument. energy consumption through all devises is **202.66 unit / month**. This energy audit report is made by reconciling all the electricity bills of the College for the year 2021-22

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Power Consumption of Electricity Board

Sr. No.	Month	Consumption (Unit in Kw)
1	Jun-22	339
2	May-22	374
3	Apr-22	361
4	Mar-22	196
5	Feb-22	111
6	Jan-22	94
7	Dec-21	136
8	Nov-21	130
9	Oct-21	190
10	Sep-21	206
11	Aug-21	169
12	Jul-21	261
Total Power Consumption in Yearly		2432
Average Power Requirement of all instrument=		202.66

Graphic Representation of Electricity Distribution

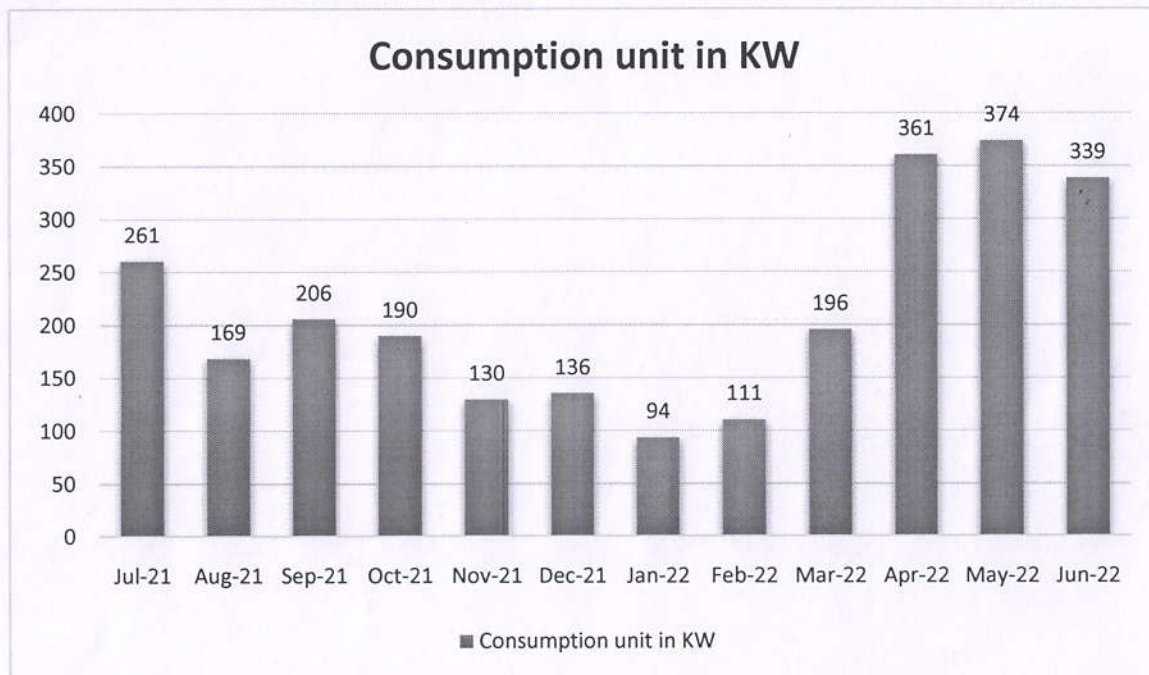


Fig. contribution of tube light, fan, computer, printer and other instrument in total use of energy by Graphical representation.

Total Power Requirement of Various Equipment

Department	Fan	LED Tube Light	LED Bulbs	CFL	A.C	Cooler	Fridge	Computer	Printer	Scanner	Xerox Machine	Projector	Borwell Moter
Principal Room	3	3	2	0	1	0	0	1	1	1	0	0	0
Office	3	4	0	0	0	1	0	3	1	1	1	0	0
B.A.LLB Part 1	4	6	0	0	0	0	0	0	0	0	0	0	0
B.A.LLB Part 3	4	6	0	0	0	0	0	0	0	0	0	0	0
Legal Aid Clinic	2	3	0	0	0	0	0	0	0	0	0	0	0
NSS	2	3	0	0	0	0	0	0	0	0	0	0	0
Boys Washroom	0	4	0	0	0	0	0	0	0	0	0	0	0
B.A.LL.B Part IV	4	6	0	0	0	0	0	0	0	0	0	0	0
B.A.LL.B Part V	4	6	0	0	0	0	0	0	0	0	0	0	0
Girls Washroom	0	4	0	0	0	0	0	0	0	0	0	0	0
Girls Common Room	2	3	0	0	0	0	0	0	0	0	0	0	0
Law Department	2	3	0	0	0	0	0	0	0	0	0	0	0
Staff Room	4	6	0	0	0	0	0	0	0	0	0	0	0
B.A.LL.B Part II	4	6	0	0	0	0	0	0	0	0	0	0	0
Political Science Dept.	1	2	0	0	0	0	0	0	0	0	0	0	0
IQAC	2	3	0	0	0	0	0	0	0	0	0	0	0
Exam Control Room	2	3	0	0	0	0	0	0	0	0	0	0	0
Library	10	10	0	0	0	1	0	0	0	0	0	0	0
Room No 19	4	6	0	0	0	0	0	0	0	0	0	0	0
Moot Court Room	8	10	0	0	0	0	0	0	0	0	0	0	0
Room No 22	4	6	0	0	0	0	0	0	0	0	0	0	0
Room No 23	4	6	0	0	0	0	0	0	0	0	0	0	0
Seminar Hall	8	10	0	0	0	0	0	0	0	0	0	1	0
Store Room	4	6	0	0	0	0	0	0	0	0	0	0	0
Yoga Room	6	8	0	0	0	0	0	0	0	0	0	0	0
Gallery	0	38	0	0	0	0	0	0	0	0	0	0	0
Campus	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Quantity	91	171	2	0	1	2	0	4	2	2	1	1	1

Average Power requirement of all instrument= 202.66 KW in Month


Shri Sai Electricals & Civil Construction
Proprietor Devnath Verma
A-Class Contractor

PHOTOGRAPH OF RENEWABLE ENERGY SOURCES

ENERGY EFFICIENCY EQUIPMENTS

Electricity Supply in College Campus



GPS Map
Camera Lite

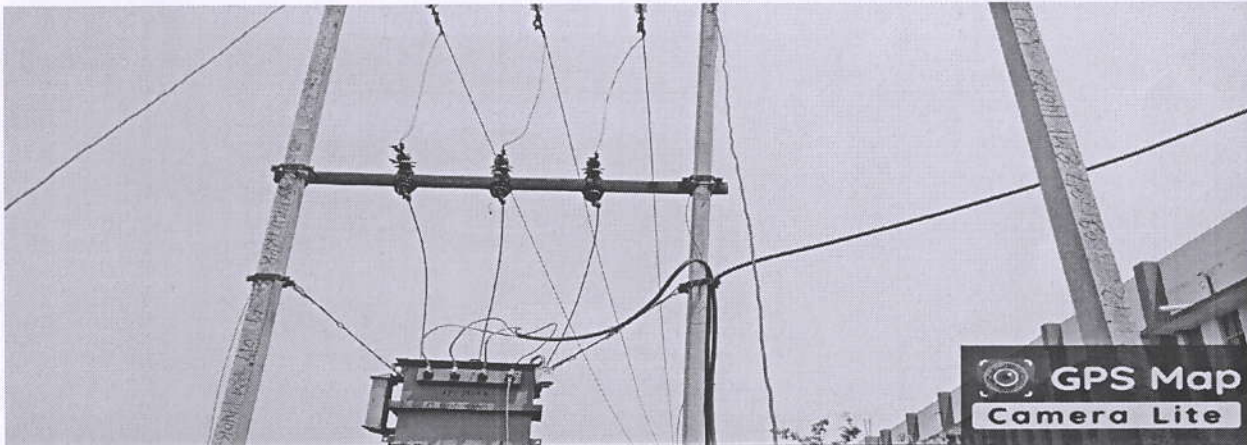
QW7P+674, Chhattisgarh 493118, India

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Longitude
81.935475°

Local 12:45:59 PM
GMT 07:15:59 AM

Altitude 260 meters
Thursday, 13.04.2023



GPS Map
Camera Lite

QW6P+FM4, Bhatapara, Chhattisgarh 493118, India

Latitude
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Longitude
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Altitude 260 meters
Thursday, 13.04.2023

LED Tubelights



GPS Map
Camera Lite

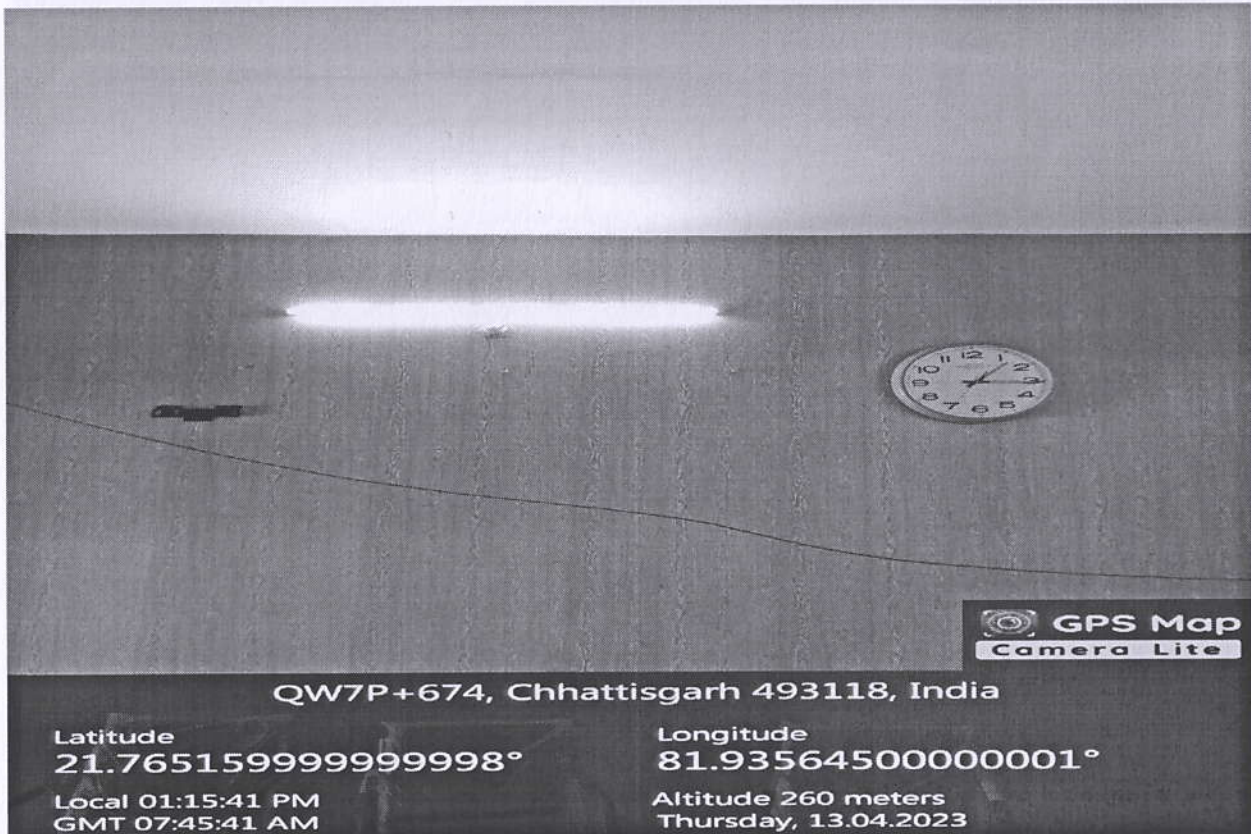
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Longitude
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Altitude 260 meters
Thursday, 13.04.2023



GPS Map
Camera Lite

QW7P+674, Chhattisgarh 493118, India

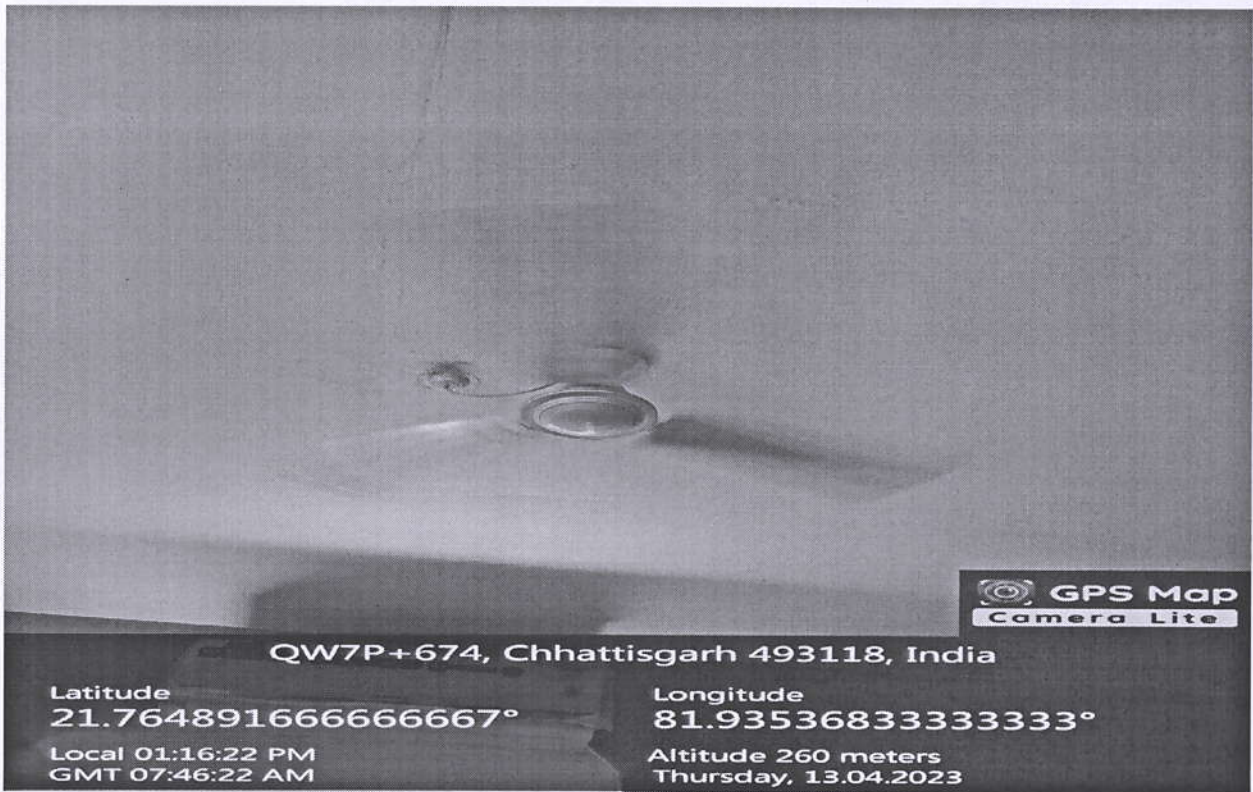
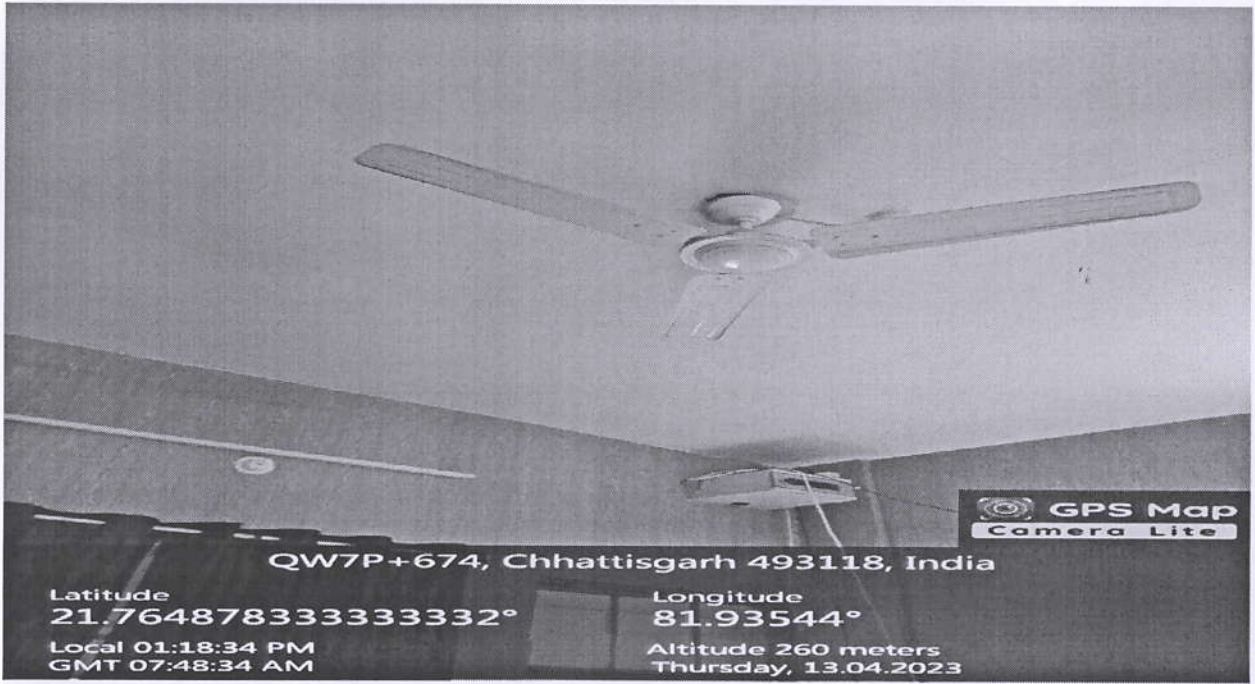
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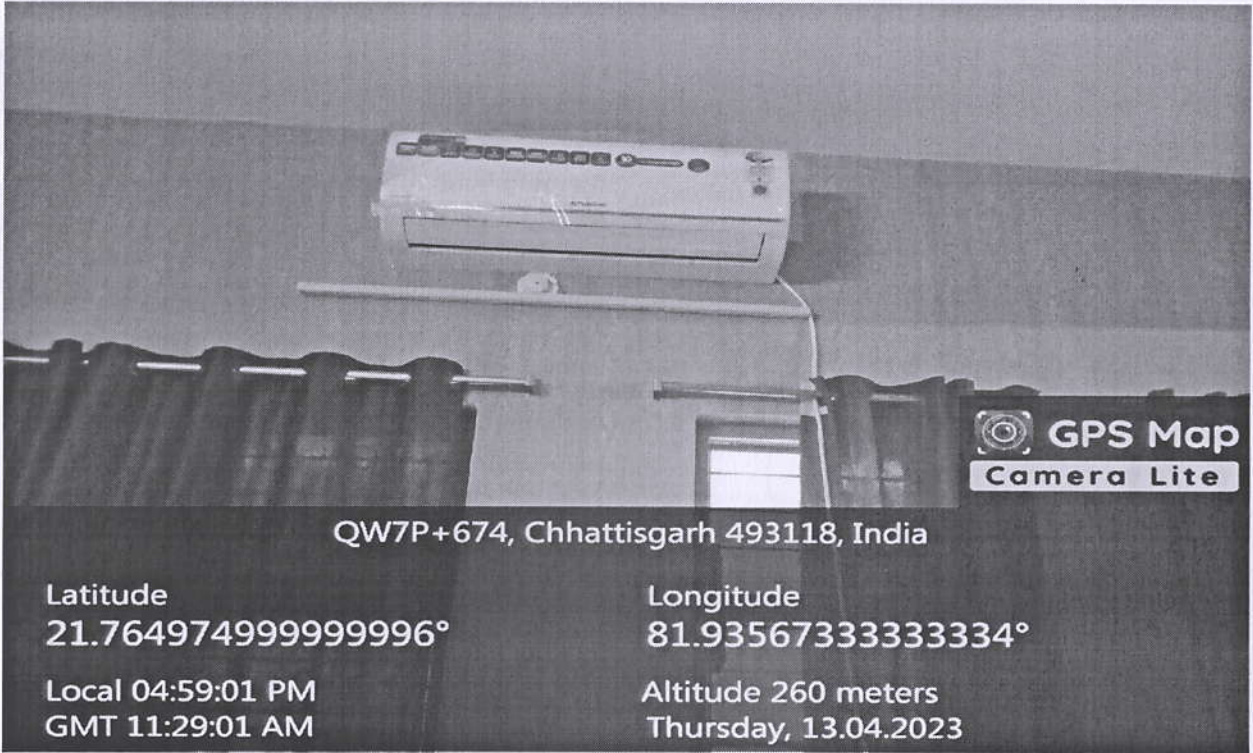
Longitude
81.935645000000001°

Altitude 260 meters
Thursday, 13.04.2023

FAN



AIR CONDITIONER



 **GPS Map**
Camera Lite

QW7P+674, Chhattisgarh 493118, India

Latitude
21.764974999999996°

Longitude
81.93567333333334°

Local 04:59:01 PM
GMT 11:29:01 AM

Altitude 260 meters
Thursday, 13.04.2023



कार्यालय प्राचार्य,
गोविंद सारंग शासकीय विधि महाविद्यालय, भाटापारा
जिला-बलौदाबाजार-भाटापारा पिन-493118

College
Code
1210

Phone No-07726-222912

Email-principalgovtlawcollege@gmail.com

क्रमांक / 49 / आडिट / 2022

भाटापारा, दिनांक: 06 / 05 / 2022

प्रति,

- (1) श्री जितेन्द्र यादव,
विभागाध्यक्ष
वनस्पति विज्ञान विभाग
शासकीय गजानंद अग्रवाल स्नातकोत्तर महाविद्यालय
भाटापारा (छ.ग.)
- (2) डॉ. मोनिका जैन,
विभागाध्यक्ष
रसायनशास्त्र विभाग
शासकीय पॉलिटेक्निक महाविद्यालय भाटापारा
देवरी रोड भाटापारा (छ.ग.)

विषय :- महाविद्यालय का ग्रीन-ऑडिट करने बाबत।

—00—

गोविंद सारंग शासकीय विधि महाविद्यालय भाटापारा (छ.ग.) का परिसर हरीतिमा-युक्त है विविध प्रकार के पेड़-पौधों की उपस्थिति में परिसर का वातावरण प्राण वायु से भरपूर है। ग्रीन-ऑडिट के द्वारा इसकी उपयोगिता प्रकाशित हो सकेगी।

अतः कृपया महाविद्यालय का ग्रीन-ऑडिट करने का कष्ट करें।

(डॉ. डी.डी.पृष्टि)

PRINCIPAL

**Govind Sarang Govt. Law College Bhatapara
Dist. Baloda Bazar-Bhatapara (C.G.)**


CERTIFICATE

This is certified that Govind Sarang Govt. Law College Bhatapara, Dist.-Balodabazar-Bhatapara (C.G.) has conducted detailed Environmental green Audit of their of their campus session 2021-22 and has submitted necessary data and credentials for strutting. The activities and measures carried out by the college have been verified based on the report submitted and was found to be satisfactory, the efforts taken by the faculty and students towards Environmental and sustainability is highly appreciated and commendable.


Dr. Jitendra Yadav

H.O.D Dept. Botony

Govt. G.N.A. P.G. College, Bhatapara
Dist. Balodabazar-Bhatapara (C.G.)


Dr. Monika Jain

H.O.D Dept. Chemistry

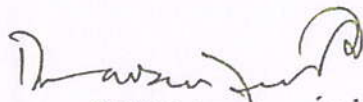
Govt. Polytechnic College Bhatapara
Dist. Balodabazar-Bhatapara (C.G.)
Dr. Monika Jain
Lecturer
Government Polytechnic Bhatapara
Dist. Baloda Bazar - Bhatapara (C.G.)


संयुक्त प्राध्यापक
शा.म.अ.स्वराज्य मंडल भटापारा
ज.बलौदाबाजारभटापारा (छ.म.)


कार्यालय नगर पालिका, भाटापारा जिला-बलौदाबाजार-भाटापारा (छ.ग.)

गोविंद सारंग शासकीय विधि महाविद्यालय भाटापारा परिसर में लगाये गये पौधों की सूची :-

स.क.	दिनांक	पौधो का नाम	मात्रा
01	12.08.2019	बबूल पौधा	07 नग
02	16.08.2019	नीम पौधा	05 नग
03	20.08.2019	काजू पौधा	02 नग
04	22.09.2019	गुनगा पौधा	01 नग
05	22.09.2019	गेंदा पौधा	03 नग
06	21.10.2020	जागुन पौधा	02 नग
07	27.10.2020	आंचला पौधा	01 नग
08	28.10.2020	गुलमोहर पौधा	02 नग
09	28.10.2020	कामन परर्लेस पौधा	04 नग
10	29.10.2020	एग्लोनिमा पौधा	12 नग
11	28.10.2020	लेमन ग्लास	01 नग
12	04.11.2020	वरगद पौधा	05 नग
13	04.11.2020	मुनगा पौधा.	02 नग
14	04.11.2020	यूफोरबिया मिली पौधा	03 नग
15	04.11.2021	कोलियस	05 नग
16	04.11.2021	पीपल पौधा	03 नग
17	04.11.2021	तुलसी पौधा	05 नग
18	04.11.2021	विकस्टीक पौधा	02 नग
19	06.11.2021	मोसेस इन द क्रेडल पौधा	04 नग
20	06.11.2021	आम पौधा	03 नग
21	06.11.2021	एलोवेरा पौधा	05 नग
22	10.11.2021	गंधीरवा पौधा	02 नग
23	10.11.2021	बालबबुन	01 नग
24	10.11.2021	बेल पौधा	01 नग
25	08.12.2021	अमरूद पौधा	02 नग
26	08.12.2021	एरिका पाम	04 नग
27	12.12.2022	महानीम पौधा	02 नग
28	04.01.2022	मोंगरा पौधा	02 नग
29	04.01.2022	गुलाब पौधा	07 नग
30	23.02.2022	अशोक पौधा (बड़ा)	07 नग
31	23.02.2022	स्नेक प्लान	06 नग
32	24.02.2022	बाटल पाम (बड़ा)	07 नग
33	27.02.2022	कारपेट घास	340 नग


PRINCIPAL

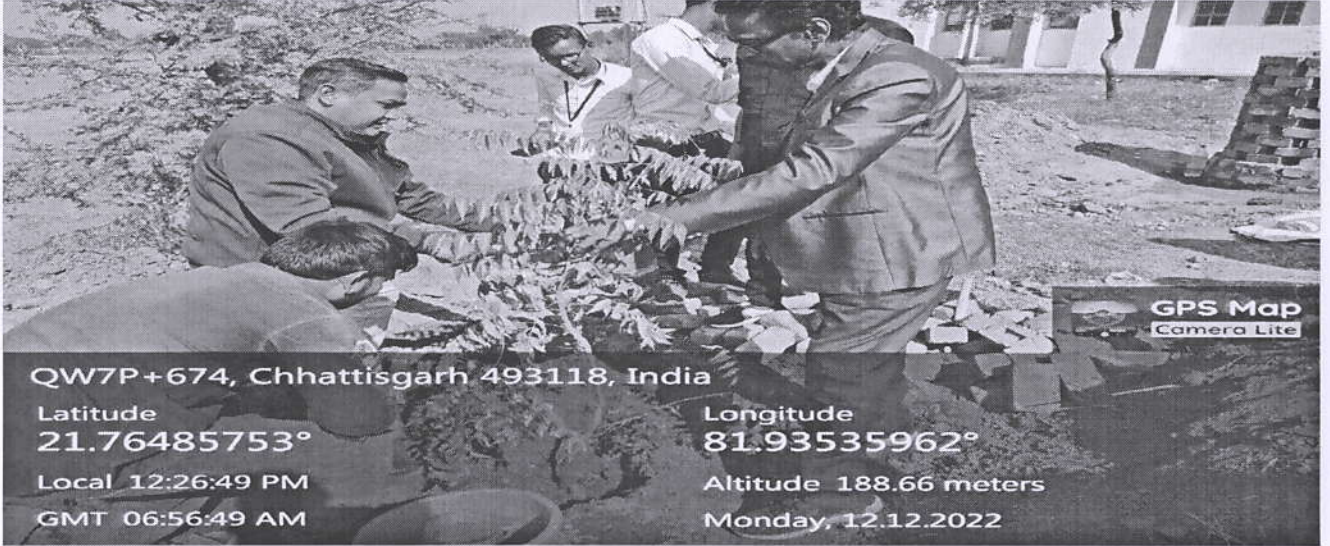
Govind Sarang Govt. Law College Bhatapara,
Dist. Baloda Bazar Bhatapara (C.G.)


नगरपालिका शाखापार्षद (छ.ग.)
नगर पालिका परिसर, भाटापारा
जिला-बलौदाबाजार-भाटापारा (छ.ग.)

महाविद्यालय परिसर में पौधरोपण कार्यक्रम

गोविंद सारंग शासकीय विधि महाविद्यालय भाटापारा के परिसर पौधरोपण अभियान के तहत महाविद्यालय परिसर में दिनांक 12.08.2019 से 27.02.2022 को पौधरोपण का कार्यक्रम आयोजित किया गया है।

महानीम पौधरोपण



अमरूद पौधरोपण



गुलमोहर पौधरोपण



आम पौधरोपण

