



	Physical Education Department			
	Year 20	15-2016		
Sn	Name of Student	Game	Awards	
01.	Lakheshwari verma	National Net ball	Pankaj vikram	
02.	Sonali sahu	Soft ball	Gold medal	
03.	Shiwangi thakur	Kayaking and	Silaver medal	
		kenoing		
04.	Shayra banu	Archari	Gold medal	
05.	Saline yadav	Foot ball	National player	
06.	Aadila khan	Cricket	Capton of blue team india	
07.	Pransupriy dhansoj	Football and cricket	Ran ji traffic	
	Year 2	2016-17		
1.	Kalyani mahapatra	Football	Pankaj vikram	
2.	Meena pasi	Karate	Pankaj vikram	
3.	Ankita panday	Hocky	National	
4.	Sati bhagmar	Kusti	National	
5.	Archana	Tackwondo	National	
6.	Hineshwari	Tackwondo	National	
7.	Anju	Tackwondo	National	
8.	Shikha	Tackwondo	National	
9.	Kalyani	Football	National	
10.	Chitrani	Football	National	
11.	Renuka	Judo	National	
12.	Meena	Judo	National	
13.	Khusbhu	Judo	National	
14.	Kamini	Handball	National	
15.	Cheena	Hockey	National	
16.	Richa	Table-Tennis	National	
17.	Pinky	Chess	National	
18.	Poonam	Handball	National	
19.	Champeshwari	Handball	National	
20.	Kamini Yadav	Handball	National	
21.	Sati Baghmar	Wrestling	National	
22.	Swati	Soft Ball	National	
23.	Maya	Kabaddi	National	
24.	Khomeshwari	Kho-Kho	National	
25.	Pransu Priya	Cricket	National	
26.	Deepika	Cricket	National	
27.	Khushboo	Kayaking,Canoeing	National	
28.	Rama Sonkar	Kayaking,Canoeing	National	
29.	Pinkee	Kayaking,Canoeing	National	

30.	Maya	Netball	National
31.	Nandini	Netball	National
32.	Maheshwari	Netball	National
33.	Payal Pradhan	Vollyball	National
34.	Pooja	Vollyball	National
35.	Ankita	Hockey	National
36.	Nikita	Vollyball	National
37.	Ankita	Hockey	National
38.	Surbhi	Cricket	National
39.	Lekhika	Cricket	National
40.	Mamta	Cricket	National
41.	Richa	Cricket	National
42.	Sharda	Cricket	National
43.	Sarita Yadav	Football	National
44.	Jyoti Yadav	Football	National
45.	Jyoti Yadav	Softball	National
	Year 2	017-18	
01.	Deepika tiwari	Cricket	Ran ji traffic
02.	Maheshwari mandal	Netball and	National player
		throwball	
03.	Shikha yadav	Hand ball	National
04.			

	Year 2019-20				
Sn	Name of Student	Game	Awards		
1.	NEHA JAIN	CHESS BLAIND	National		
2.	HEMLATA SAHU	CHESS	National		
3.	DHARINI SAHU	KABADDI	National		
4.	TANYA MALLIK	BEDMINTEN	National		
5.	CHANDANI SHRIVAS	FOOTBALL	National		
6.	KAVITA SAHU	FOOTBALL	National		
7.	VANDANA DHURW	FOOTBALL	National		
8.	SUNITA DHURW	HAND BALL	National		
9.	KHUSHABU VERMA	CRICKET	National		
10.	HARPREET KAUR	CRICKET	National		
11.	GAYATRI	CRICKET	National		
12.	GITANJALI	HOCKEY	National		
13.	TAMESHWARI	КНО-КНО	National		
14.	RUBI PRIYANKA	BADMINTEN	National		
15.	VAIDEHI MISHRA	CHESS	National		
16.	PREETI FUTAN	FOOTBALL	National		
17.	KHUSHABU	CRASS CUNTRY	National		
18.	JAHNAVI KAIVARTYA	YOGA	National		
19.	SONI DEVI	SOFT BALL	National		
20.	DUDHMANI	NETBALL	National		
21.	MADHU PATEL	JUDO	National		
22.	MANISHA MAHILANG	CYCLING RESS	National		
23.	RICHA	YOGA	National		

24.	DIVYA BANJARE	POWER LIFTING	National
25.	ARTI SAHU	POWER LIFTING	National
26.	DEVKUMARI SAHU	KAYAKING AND	National
		CANOEING	
27.	ROSHNI NISHAD	SOFT BALL	National
28.	MADHURI YADAV	TAEKWONDO	National
29.	PREMLATA NIMALKAR	RUGBY	National
30.	NIVEDITA VEARMA	TENNIKOIT	National
31.	OMESHWAR	SOFTBALL	National
32.	ROSHNI BARIK	КНО-КНО	National
33.	RENUKA	TABLE-TENNIS	National
34.	PRIYA CHAWALA	TABLE-TENNIS	National
35.	NILIMA	KHO-KHO,KABADDI	National
36.	SATRA	CHESS	National
37.	PRAGYAK	KHO-	National
		KHO,CHESS,NETBALL	
38.	UMA BHARTI	CRICKET	National
39.	ITOYL	CRICKET,KABADDI	National
40.	PRIYANKA	KABADDI	National
41.	ΜΑΜΤΑ	KABADDI, CRICKET, KHO-	National
		КНО	
42.	YASHODA	KABADDI	National
24.	DIVYA BANJARE	POWER LIFTING	National
25.	ARTI SAHU	POWER LIFTING	National
26.	DEVKUMARI SAHU	KAYAKING AND	National
		CANOEING	
27.	ROSHNI NISHAD	SOFT BALL	National
28.	MADHURI YADAV	TAEKWONDO	National
29.	PREMLATA NIMALKAR	RUGBY	National
30.	NIVEDITA VEARMA	TENNIKOIT	National

SPORTS CERTIFICATE





NATIONAL ADVENTURE ORATION & DISASTER MANAGRIM **COURAGE & CONFIDENCE** This is to Certify that Shri / Ku DEEPA VEAMA has completed the Aduentone personality lev. and Sisaster Met. Programme / Course conducted by this Institute from 1613 10 10/6/13 Grading Awarded "B" mong (H.S. Misre) Remarks In energy is traince Outstanding Above Ave 15 10 90 Place Pachonach 24. Average Date 10/ 1 THROWBALL FEDERETION OF INDIA(Regd.) 42nd SENIOR NATIONAL THROWBALL CHAMPIONSHIP From 27th Dec. to 31st Dec-2019 at Burdwan + West Bengal Organised by : Purba Bardhaman District Throwball Association & West Bengal Throwball Association In Co-Oparation with THROWBALL FEDERATION OF INDIA & BENGAL OLYMPIC ASSOCIATION & WEST BENGAL STATE COUNCIL OF SPORTS PARTICIPATION CERTIFICATE Certified That Mr. / Mrs. ODEEPA VERMA Son / Daughter of Mon TEEVAN LAL VERMA of CHHATTISGARH State/ U.J. Participated as Player /Official / Couch / Manager in the 42nd SENIOR NATIONAL THROWBALL CHAMPIONSHIP (Men & Women) 2019 at Rathtala, Burdwan, West Bengal. krown Don Bhudeb Mukharjee General Secratary Organising Committee & at Bengel Throw Ball Asso Khokon Das President Organising Committee I Purtie Rardhaman District Throw Ba Kianal Goewar Minasi Minasi Bats Bachchan Naresh Mann 44 Secretary General Isal Federation of Incla roetal Federation of Inda The







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Certificate No: 902500510	47 Date of Issue 06-07-2
-	Participation Certificate
	Participation Certificate
This certificate is awarded to Mr.	TAMESHWARI PATEL Ms
SUDIA DEVLAL	DOB-17-12-1999
AADHAAR CARD 4921 77	0 2080 for representing CHHATTISGARH
PLAYER	67TH SENIOR NATIONAL KABADDI CHAMPIONSHIP - WOME
asJAIPUR	
organised at	06-03-2020
From	





	Affiliated to International Kabaddi Federation, Asian Kabaddi Federation & Indian Olympic Association Recognised by Ministry of Youth Affairs and Sports – Government of India Certificate No: 2002200047
	This certificate is awarded to Mr./Ms. TAMESHWARI PATEL STD/0 DEVLAL CHHATTISGARH
	in the following event organised at
-	from 21-12-2016 Mvdul Dr. Mridul Bhadauria President Dinesh Patel Secretary General



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This is to certify th	at Ms. Tulsi Sahu of Guruhul Girls College, Ra	nipur participated in
East Zone Inter Unib	ersity Hockey (Women) Tournament 2019-2	o held at V.B.S.
Purbanchal, Jaunpur.		
Garbers	BAN SHUKLA UN	Oller .
Vier Chancellor & President	नाने नेय सुपर्धा र Di Si	ports Committee Shukla University, Raiper C.G.
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6th SENIOR NATIO	HOCKEY INDIA NAL HOCKEY CHAN (WOMEN)	PIONSHIP 2016
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To Tursi Sanu For act 6th Senior Natio held at Bengalur	– Синатизсаки Носи ive and invaluable participation in onal Hockey Championship 20 u, Karnataka from 18th Apr to 2	the 016 (Women) 7th Apr 2016
Dr. Narinder Dhruv Batra President	Hulun Elena Norman Chief Executive Officer	Gayathri Shetty Organising Secretary









ASSUNCE. 16. COMPRADE INDRAJIT GUPTA MARG (KOTLA MARG), NE	No. ZPI 000120
PARTICIPATION CERTIFICAT This is to certify that	~%, `\$ ΓE
was a member of the PRSU Reipyr participated in the Inter-University Zonal (North/South/East/West/Ce organised during 2017-18 at ATSECT University from 03/11/2017 to 07/11/2017	contingent which entral) Youth Festival
Date •7/11/x017 UBrow Vice Chancellor Cultural Coordinator	Secretary General

International Conference on Luminescence and its Applications (ICLA-2019), January 7-10, 2019 School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University 71990-2015 Raipur-492010, Chhattisgarh, INDIA & Luminescence Society of India (LSI) Regd. No. Guj. / 1156 Baroda, September, 1995 Department of Physics, NIT, Raipur Department of Physics, Govt. N S College, Raipur CERTIFICATE Janhavi This is to certify that Prof. / Dr/Mr. / Ms_ is a registered participant of TOLA2019. He/ She presented an Oral / Poster presentation Semina the entitled mogramme Dr. K. V. R. Murthy Prof. D. P. Bisen Prof. N. Brahme President, LSI, Chair, ICLA-2019 Secretary, LSI Convener, ICLA-2019 SHANKAR SHUKLA UNIVERSITY PAIRIE UNIVERSITY SPORTS COMMITTEE ≥ 0 S.NO. 228 **Certificate of Participation** This is to certify that Ms. Janhavi of Gobt. D.B. Girls College, Raipur participated in All India Inter Einibersity Yoga (Women) Tournament 2018-19 held at AR SHUKLA UNI Unibersity of Aladras. 7 adato Director & Secretary नय सपथा ice Chancellor & President Sports Committee ports Committee Pt. Ravishankar Shukla University, Rai kar Shukla University, Raipur C.G. 210



Sr.	Name of Student	Competition Name	Date	Place
01.	Devkumari Sahu	 All India (North Zone) Canoe Sprint National Ranking Championship, Dal Lake, Srinagar (Jharkhand) 	30/10/12 to 02/11/12	Second
		C2 500m/C2 200m 2. 23 rd National Canoe Sprint Championship 2013, Manipur	30/01/13 to 04/02/13	
		 3. 24th National Canoe Sprint Championship 2014 Lower Lake, Bhopal (M.P.) C2 Jr. Women (100m, 200m, 500m) 	15/01/14 to 20/01/14	Third
		 4. 25th National Canoe Sprint Championship 2015, Raipur C2 women 100m 	19/02/15 to 23/02/15	Third (Bronze Medal)
		5. 36 th National Game, Kerala 2015 C2 200m, 500m	31/01/15 to 14/02/15	Third (Bronze Medal)
		 6. 26th National Canoe Sprint Championship Men (Women), Bhopal C2 women 200m, 500m 	09/01/16 to 12/01/16	Third (Bronze Medal)
		 7. 27th National Canoe Sprint Championship 2017, Indore 500m (Second), 1400(Third) 	09/01/17 to 13/01/17	Third
		8. All India Inter Championship Canoe Sprint 2017, Amritsar University 1000m, 500m(Third), 200m(Second)	16/09/17 to 19/09/17	Second
		 9. 28th National Canoe Sprint Championship, Bhopal 1000m, 500m, 200m 	08/01/18	Second, Third

Second
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Second

05.	Divya Banjare	01. Weight Lifting State, Raipur	2015	First
	• •	02. Weight Lifting, University National,	2016-17	Second
		Andhra Pradesh		
		03. Weight Lifting, State, Rajnandgoan	2016-17	Third
		04. Power Lifting, University National,	2016-17	
		Chandigarh		
		05. Power Lifting, Open National, Kalayan,	2017-18	Third
		Mumbai		
		06. Power Lifting, Open National,	2017-18	Third
		Jamshedpur, Tatanagar		
		07. Power Lifting, University National,	2018-19	
		Kerela		
		08. University Weight Lifting	2019	First
05.	Premlata Nirmalkar	01. School Game State, Raipur	2014-15	Second
		02. Rugby National School Game, Nagpur	2014-15	Third
		03. Rugby School Game State, Jagdalpur	2015-16	Second
		04. India Olympic Association (IOA) Rugby,	2015	
		Patna (Bihar)		
		05. Rugby National School Game Jagdalpur	2015-16	
		06. Dragon Boat Federation of India, Kolkata	2017	Second
		07. Touch Rugby State Championship,	2018	First
		Bilaspur	2010	D '
		08. Touch Rugby Senior National	2018	First
06	NT' 1' X7	Championship, Tamil Nadu		
06.	Nivedita Verma	1 ennikoit (Ring Tennis)	2016	
		01. Shahid Pankaj Vikram Award	2016	
		02. Knel Sneknar Award	2017	
		Senior National	2011	
		01. 2011 36 Senior National, Jammu	2011	
		02. 2012 37 Senior National, Andria Pradesn	2012	
		US. 2015 38 Senior National, Udisha	2013	
		05. 2015 40 Senior National, Jharkhand	2014	
		05. 2015 40 Senior National, Visakhapatham	2015	
		07. 2017 42 Senior National, Oujarat	2010	
		VI. 2017 42 Semor National, Odisha	2017	
		O1 2011 57 National School Come M.D.	2011	
		02. 2012 58 National School Came, C.C.	2011	Third
		02. 2012 So National School Came, Tamil	2012	Tillfu
		Nadu	2014	
07	Hemlata	01 27 th Senior State Wushu Championship	17-18	Third
07.	1 ICIIIata	2015	Oct 15	rinu
		Organized by- Digvijay Stadium	00113	
		02. 3 rd (C.G.) State Kick Boxing	10-12	Gold
		Championship 2016	June 16	0010
		Shumptonomp 2010	June 10	

		Organized by- Dhamtari Kick Boxing		
0.0		Association	.	
08.	Omeshwar	University Softball	2017	First
09.	Roshni Barik	Kho-Kho Inter College, Kurud	2019	Third
10.	Priti Futan	01. Marathan 10km Inter College		
		02. Football, National Level, Odisha	2018-19	
11.	Renuka	Table Tennis – State Level	2019	Second
12.	Priya Chawala	Table Tennis – State Level	2019	Second
13.	Vandna	Football, National Level, Odisha	2019	
14.	Tameshwari	01. Kho-Kho Inter College, Kurud	2018-19	
		02. Kabaddi National, Devendra Nagar	2018	
		College		
15.	Nilima	01. Kho-Kho Inter College, Kurud	2019	Third
		02. Kabaddi Inter College, Durga College	2019	
16.	Sunita	Kho-Kho Inter College, Kurud	2019	
17.	Satra	Chess Inter College, Navin girls college	2019	Third
18.	Pragya	01. Kho-Kho Inter College,Kurud	2019	
		02. Chess Inter College, Navin Girls, College	2019	Second
		03. Netball Inter College, D.B. Girls P.G.	2019	
		College		
19.	Rubi Priyanka	01. Badminton University, Bilaspur	2019	
		02. Kho-Kho Inter College, Kurud	2018-19	
		03. Cricket Inter College, Dhamtari	2018-19	
20.	Uma Bharti	Cricket Inter College, Dhamtari	2018	
21.	Jyoti	01. Cricket Inter College, Dhamtari	2018	
		02. Kabaddi Inter College, Narendra Nagar	2018	
22.	Mamta	01. Kabaddi Inter College, Durga College	2018-19	
		02. Cricket Inter College, Dhamtari	2018	
		03. Kho-Kho Inter College, Kurud	2018-19	
23.	Privanka	Kabaddi Inter College, Durga College	2019	
24.	Yashoda	Kabaddi Inter College, Devendra Nagar	2018	
		College		

GOVT. D.B. Girl's P.G. College, Raipur GREEN AUDIT REPORT –II 2015-16 to 2019-20





Complied by

Students of M.Sc. (Botany)

Dr. Vaibhav Acharya, Dr. Neetu Harmukh

(Asst. Professor, Botany)

Prin

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Principal Govt. D. BASHAG/PAG, College, PRaBul: OMbridgerBollege, RAIPUR. (Chhattlagarh)

Govt. D.B. Girl's P.G. Autonomous College, Raipur, (C.G.)

Report of Green Audit

2015-2020

Introduction:-

Biosphere is a thin layer a few hundred meters above the earth surface and a few meters below the earth surface. Green Plants are responsible to build up oxygen and reduce carbon dioxide in the biosphere. Human being is adapted to the present day condition in the biosphere. Any significant change in any or many of the parameters in the biosphere may have detrimental effect on human being. Increase in the concentration of carbon dioxide is the one such parameter causing increase in global temperature. Sequestration of carbon through green plant is the best method to reduce the concentration of carbon dioxide in the atmosphere. Therefore it is important to carry out green audit of as many places or ecosystems as possible. Present studies have been made to set as an example of green audit of the Govt. D.B. Girl's P.G. Autonomous College, Raipur.

A long term study will give an idea of dynamics of vegetation of a place as well as will provide data about carbon sequestration.

College Campus:-

The Govt. D.B.Girl's P.G.Autonomous College, Raipur is located in the middle of Raipur city adjoining to the largest pond of the city the Budha Talab (recently named Vivekanand Sarover). The college is situated in the area of 4.47 Acare. The college campus is surrounded with wall from all the sides. In the college apart from college buildings, four small gardens are situated (one in front of the office, second in front of the main college building, third one is in the old hostel and fourth is in front of Hindi, History, Dance & Music Department). Vegetation of college campus consists of both wild and cultivated plants of various habits i.e. trees, herbs, shrubs, climbers (annual and perennial),

while some plants grow on the roofs and walls of college building. Plant diversity is the maximum in the Rainy season and very less in the summer season. So many potted plants are also in the college campus and Hostel. Some potted plants are also there presented by U.G. and P.G. students of the Botany as a part of the project of *ex-situ* conservation. Trees of college campus are old to young. Phytosociological studies of vegetation were made by the students of B.Sc. IIIrd year Botany and M.Sc. Botany every year as a part of their regular practical course.

In vegetation of college economically important plants include following economically important plants:

- Non-wood forest produces (NWFPs)
- Medicinal Plants
- Ornamental and wild plants
- Aromatic Plants

The campus has elevated and sloping terrain. The campus is well protected from cattle. However, free movement of students in different other activities as sports, constructions all over the campus has hampered the growth of natural vegetation, like the listing of vegetation,

With the study of green audit the study of visiting animal, birds done by the students of zoology with the help of departmental members as the part of their course. Some migratory birds also come here regularly bats and Owl also resides here permanently on the Imli tree.

Soil:-

The underlying rock of the college campus belong to cuddapah system. Rock formation of Raipur series mainly consist of lime stone with irregular bands of shale covered by lateritic capping with yellow soil. Soil is of Matasi and Bhata type.

Methodology:-

Study for green audit on the vegetation of the college campus was started in 2009 and is being continued till date. First report was submitted in 2014 at the time of NACC 2nd Cycle.

- I. Studies of the herb layer was made with the help of square quadrate of 100 sqr.cm
- II. Complete survey was made of the shrub and trees.
- II. Photographs of the vegetation of the college campus.

Climate-

Climate of Raipur as for other parts of the country is divisible into three seasons viz. rainy, winter and summer each of about four months duration. To describe the climate of a particular area, it is customary to give the yearly or monthly means of maximum and minimum temperature and relative humidity, and the total average annual rainfall. But from an ecological point of view, these may have very little significance. Extremes of climatic conditions and their duration have a controlling effect on the distribution of plants.

Rainfall:

Average annual rainfall at Raipur is 1224.00 mm (based on data of 2015 to 2020 Most of the rainfall (>80%) occurred during rainy seasons (i.e. from June to September). November to January, March and May months are either completely dry or have experienced only very little rain.

. Temperature:

The temperature exhibit seasonal phenomena Maximum temperature was recorded in June. It decreases abruptly in July with more or less a decreasing trend till December when the lowest temperature was recorded. This is followed by an increasing trend till the maximum of May. Diurnal range of temperature is lowest during rainy season while it increases after the retreat of monsoon.

Relative humidity:

Relative humidity is one of the most important factors governing the growth of the plants as well as the decompose the dead plant parts. During July to September the maximum value of relative humidity is maintained which together with the higher temperature favour very luxuriant growth of the plants as well as a higher rate of decomposition. During winter months, a higher value of relative humidity than the summer months was obtained, but it is mainly due to lower temperature prevailing during this time. The higher value does not seem to have any influence either on the growth of the plants or the decomposition. In March, the value decreases abruptly and is maintained at a lower level throughout the summer season. However, occasional rains during this period increase the relative humidity temporarily, which is not reflected in monthly averages. This temporary increase in relative humidity has sometimes considerable influence on the revival of growth of the perennial species and favour the rapid disappearance of dead plant parts. During study period minimum monthly relative humidity was recorded in the month of May for each year. Maximum monthly relative humidity was recorded in the month of July to September every year.

Soil:

The soil type is loam and Sandy loam. The colour of the soil is reddish due to iron content. The A-I horizon farms only a few cm. of top soil, which is grey to blackish gray to brownish in colour and is very pours. It is followed by yellowish to reddish soil which become more reddish in deeper layers. This soil is generally quite soft and is rich in sexsquioxide contents. The depth of this layer may be up to 3 to 4 meters at some places. pH value of such soils are 6.0 to 6.8

OBSERVATION & RESULT:-

LIST OF PLANTS

Grasses: Family Graminae (Poaceae)

1	<i>Cynodon dactylon</i> L.	(Doob Ghans)
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2	Dactyloctenium aegyptium L.
3	Dichanthium annulatum Forssk.
4	Digitaria marginata Retz.
5	Digitaria stricta Roth.
6	Echinochloa sps. L.
7	<i>Eleusine indica</i> L.
9	Eragrostis SpsL.
8	Eragrostis tenella Walf
10	Oplimenus burmanii Gaetrn
11	Panicum trypheron Schult.
12	Setaria glauca auct.
13	Sporobolus diander Retz.

Table 2. Herb, Shrub Climber

S.No	Botanical name	Wild/Cultivated	Vernacula r name	Family
1.	Abutilon indicum L.	Wild	Kanghi	Malvaceae
2.	Acalypha indica L.	Wild	Kuppi	Euphorbiaceae
3.	Acalypha wilkesiana Mull.Arg	Cultivated		Euphorbiaceae
4.	Achyranthes aspera L.	Wild	Chirchitta	Amaranthaceae
5.	Adenium arboretum Roem & Schult	Cultivated	Desert Rose	Apocynaceae
6.	Adhatoda vasica Nees.	Cultivated	Vasak	Acanthaceae
7.	<i>Aeruva lanata</i> Juss. Ex Schult	Wild		Amaranthanceae
8.	Agave vivipera Roxb.	Cultivated	Sisal	Liliaceae
9.	Ageratum conyzoides L.	Wild	Koobhi	Asteraceae
10.	Alternanthera sessilis L.	Wild	Kamcher	Amaranthaceae
11.	Alysicarpus longifolius L.	Wild		Leguminosae

12.	Alysicarpus monolifer L.	Wild		Leguminosae
13.	Alysicarpus vaginalis L.	Wild		Leguminosae
14.	Amaranthus gangeticus Linn.	Cultivated	Lalbhaji	Amaranthus
15.	Amaranthus paniculatus L.	Wild	Cholai	Amaranthaceae
16.	Andrographis echioides L.	Wild	Birkubat	Acanthaceae
17.	Anisochilus carnosus Wall	Wild		Labiateae
18.	Antigonon leptopus Hook.	Wild	Coral Creeper.	Polygonaceae
19.	Argemone mexicana L.	Wild	Pilikateri	Paperveraceae
20.	Asparagus racemosus L.	Cultivated	Dashmul	Liliaceae
21.	Barleria prionitis L.	Wild	Kesraiya	Acanthaceae
22.	Biophytum sensitivum	Wild		Oxilidiaceae
23.	Blumea lacera D.C.	Wild	Kakranda	Compositae
24.	Boerhaavia diffusa L.	Wild	Punarnava	Nyctaginaceae
25.	<i>Bougainnvillea glabra</i> Comm. ex Juss.	Cultivated/Ornamental	Kagajphool	Nyctaginaceae
26.	Borreria articularis L.F.	Wild		Rubiaceae
27.	Borreria stricta L.F.	Wild	Madanghanta	Rubiaceae
28.	Bryophyllum pinnatum Kurz.	C/W	Patharchatta	Crassulaceae
29.	Calliandra brevipes Meisn.	Cultivated	Calliandra	Leguminoseae Sub Family Mimosoideae
30.	Calotropis procera R.Br.	Wild	Madar	Asclepiadaceae
31.	Canna indica L.	Cultivated	Vaijanti	Cannaceae
32.	Cassia tora L.	Wild	Charota	Leguminosae
33.	<i>Catharanthus pussilus</i> G.Don.	Cultivated	Sadabhar (White)	Apocynaceae
34.	Catharanthus roseus G.Don.	Cultivated	Sadabhar	Apocynaceae
35.	Cleome viscosa L.	Wild	Hurhur	Capparidaceae
1				

37.	Coleus blumei Lour	Cultivated	Coleus	
				Labiatae
				(Lamiaceae)
38.	Commelina benghalensis L.	Wild	Kanchara	Commelinaceae
39.	Convolvulus arvensis. L.	Wild	Beri	Convovulaceae
40.	<i>Cordyline fruticosa</i> Goeppert	Cultivated	Cordyline	Liliaceae
41.	Cosmos bipinnatus Cav.	Cultivated	Cosmos	Compositae
42.	Crotalaria prostrata Rottl.	Wild	Sana	Leguminosae
43.	Croton sparsiflorum Morong.	Wild	Chucka	Euphorbiaceae
44.	Cyanotis cristata L.	Wild		Commelinaceae
45.	Cyperus rotundus L.	Wild	Nagarmotha	Cyperaceae
46.	Desmodium triflorum L.	Wild	Kudaliya	Leguminosae
47.	Dracena sps. L.	Cultivated		Liliaceae
48.	Eclipta alba L.	Wild	Bhringraj	Compositae
49.	<i>Euphorbia geniculata</i> Ortega.	Wild		Euphorbiaceae
50.	Euphorbia hirta L.	Wild	Dudhi	Euphorbiaceae
51.	<i>Euphorbia microphylla</i> Heyne.	Wild	Chota kerwa	Euphorbiaceae
52.	Euphorbia roylena Boies	Cultivated	Thor	Euphorbiaceae
53.	Euphorbia tirucalli L.	Cultivated	Sehund	Euphorbiaceae
54.	Evolvulus alsinoides L.	Wild	Shankhpushpi	Convolvulaceae
55.	Gomphrena celosioides Mort.	Wild		Amarantaceae
56.	Heliotropium indicum L.	Wild	Hathajuri	Boraginaceae
57.	Hemelia patens sps. L.	Cultivated		Rubiaceae
58.	Hibiscus rosa-sinensis L.	Cultivated	Gudhal	Malvaceae
59.	Hyptis suaveolens L.	Wild	Jangli Tulsi	Labiateae
60.	Indigofera linifolia L.F.	Wild	Torki	Leguminosae
61.	Ipomoea pes-tigridis L.	Wild	Bailapadoi	Convovulaceae
62.	Ixora coccinia L.	Cultivated	Rukhmani	Rubiaceae
63.	Kyllinga biceps L.	Wild		Cyperaceae

64.	Kyllinga triceps Rottb.	Wild		Cyperaceae
65.	Lagascea mollis Cav.	Wild		Compositae
66.	Lawsonia inermis L.	Wild	Mehndi	Lythraceae
67.	Lantana camara L.	Wild	Raimunia	Verbenaceae
68.	Launaea nudicaulis auct.	Wild		Asteraceae
69.	Leportea interrupta	Wild	Utigun	Urticaceae
70.	Leucas aspera L.	Wild	Chota halkusa	Labiatae (Lamiaceae)
71.	Martynia diandra Gloxin.	Wild	Bichchhu	Pedaliaceae
72.	<i>Merremia emarginata</i> Burm.f.	Wild	Muskaine	Convolvulaceae
73.	Mimosa pudica L.	Wild	Chuimui	Mimosaceae
74.	Mirabilis jalapa L.	C/ Wild	Gulabbas	Nyctanginaceae
75.	Mollugo stricta L.	Wild	Khetpapara	Molluginaceae
76.	Murraya paniculata L.	Cultivated	Madhukamini	Rutaceae
77.	Ocimum americanum L.	Wild	Memri	Labiatae (Lamiaceae)
78.	Ocimum klimendeshchericum L	Wild	Dauna	Labiatae (Lamiaceae)
79.	Ocimum sanctum L.	Wild	Tulsi	Labiatae (Lamiaceae)
80.	Oldenlandia corymbosa L.	Wild		Rubiaceae
81.	Oxalis corniculata L.	Wild	Khatti buti	Oxalidaceae
82.	Parthenium hysterophosus L.	Wild	Gajar ghas	Compositae
83.	Peristrophe bicalycalata Retz.	Wild	Atrilal	Acanthaceae
84.	Phyllanthus acidus Skeels	Wild	Jarmala	Euphorbiaceae
85.	Phyllanthus niruri auct.	Wild	Bhui amla	Euphorbiaceae
86.	Plumeria pudica Jacq.	Cultivated	Nagchampa	Apocynaceae
87.	Plumeria rubra L.	Cultivated	Champa	Apocynaceae
88.	Poinsettia pulcherima Willd.	Cultivated	White	Euphorbiaceae
89.	Psorelea corlyfolia L.	Wild	Babchai	Papilionaceae

90.	Quisqualis indica L.	Cultivated	Madhumalti	Combretaceae
91.	Rhynchosia minima D.C	Wild		Leguminosae Sub Family Papilionoideae
92.	Ruellia prostrata Poir.	Wild	Mundichot	Acanthaceae
93.	Ruellia tuberosa L.	Wild	Mundichot	Acanthaceae
94.	Rungia repens L.	Wild	Kharmor	Acanthaceae
95.	Russelia coccinea Welts	Cultivated		Sarphulariaceae
96.	Scoparia dulcis L.	Wild	Vishnujadi	Scrophulariaceae
97.	Sida acuta Burm.f.	Wild	Bariera	Malvaceae
98.	Sida cordifolia L.	Wild	Bala	Malvaceae
99.	Solanum nigrum L.	Wild	Makoi	Solanaceae
100.	Solanum xanthocarpum Schrad	Wild	Bhaskatia	Solanaceae
101.	Sonchus arvensis auct.	Wild	Sahdevi Badi	Compositae
102.	Tegetus erectus L.	Cultivated	Genda	Compositae
103.	Tegetus petula L.	W/Cultivated	Chandeni Genda	Compositae
104.	Tinospora cordifolia L.	Cultivated	Giloy	Menispermaceae
105.	<i>Trichodesma zeylanicum</i> Burm.f.	Wild	Tarmuriya	Boranginaceae
106.	Trichosanthes palmata L.	Wild	Indrayan	Cucurbitaceae
107.	Tridax procumbens L.	Wild		Compositae
108.	Vandellia bracteata L.	Wild		Scrophulariacea e
109.	Verbena Sps. L.	Cultivated		Verbenaceae
110.	Vernonia cinerea L.	Wild	Sahdevi	Compositae
111.	Xanthium strumarium L.	Wild	Gokharu	Compositae
112.	Zerbera jamesanii Hooker.	Cultivated	Zerbera	Compositae
113.	Zornia gibbosa Span.	Wild	Roonkari	Leguminosae

3. Trees

S.No	Botanical name	W/C	Vernacular	Family
			Name	
1	Acacia arabica F.	Wild	Babool	Leguminosae (Sub-
				family Mimosoideae)
2	Acacia biglandolosa Roxb.	Wild	Parkiya	Leguminosae (Sub-
				family Mimosoideae)
3	Aegle marmelos L.	Wild	Bel	Rutaceae
4	Ailanthus excelsa Roxb.	Wild	Maha neem	Simaroubaceae
5	Albizia procera Roxb.	Wild	Shiris	Leguminosae
6	Alstonia scolaris L.	Cultivated	Chhatim	Apocynaceae
7	Azadirachta indica A.Juss	Cultivated	Neem	Meliaceae
8	Annona squamosa L.	Cultivated	Sitaphal	Annonaceae
9	Bauhinia purpurea L.	Wild	Kachnar	Leguminosae
10	Bombax malabaricum L.	C/ Wild	Semal	Bombaceae
11	Cassia fistula L.	C/ Wild	Amaltas	Leguminosae
12	Caesalpinia pulcherrima L.	C/ Wild	Krishnachura	Leguminosae
13	Calotropis gigantea L.	Wild	Madar	Asclepiadaceae
14	Carica papaya L.	Cultivated	Papita	Caricaceae
15	Dalbergia sissoo Roxb.	Cultivated	Shisham	Leguminosae
16	Delonix regia Raf.	Planted	Gulmohar	Leguminosae
17	Eucalyptus lanceolatus L.	Planted	Nilgiri	Myrtaceae
18	Ficus benghalensis L.	Planted	Bargad	Moraceae
19	Ficus religiosa L.	Planted	Peepal	Moraceae
20	Ficus virens Ait.	Planted	Gasti	Moraceae
21	Lagerstroemia speciosa auct.	Planted	Jharul	Lythraceae
22	Mitragyna parvifolia L.	Planted	Mundi	Rubiaceae
23	Mangifera indica L.	Planted	Aam	Anacardiaceae
24	Millingtonia hortensis L.	Planted	Neemchameli	Bignoniaceae

25	Nyctanthes arbor-tristis L.	Planted	Parijat	Oleaceae
26	<i>Peltophorum ferrugineum</i> Benth.	Planted	Copper pod	Leguminosae
27	Pithocelobium dulce L.	Wild	Gangaimli	Leguminosae
28	Polyalthea longifolia L.	Planted	Druping Ashok	Leguminosae
29	Pongamia pinnata L.	Planted	Karanj	Leguminosae
30	Phyllanthus emblica L.	Planted	Amla	Euphorbiaceae
31	Psidium guajava L.	Planted	Amrud	Myrtaceae
32	Sapindus trifoliatus Hiern.	Planted	Reetha	Sapindaceae
33	Semaruba glauca DC.	Planted	Laxmitru	Semarubaceae
34	Spathoda companalata L.	Planted	Jaimangal	Bignoniaceae
35	Sterculia foietida DC.	Planted		Sterculiaceae
36	Syzygium jambolena L.	Planted	Jamun	Myrtaceae
37	Tamarindus indica L.	Wild	Imli	Leguminosae
38	Tecoma stans L.	Planted	Tecoma	Bignoniaceae
39	Ziziphus zujube Lamk.	Wild	Ber	Rhamnaceae
40	Ziziphus mauritiana Lamk.	Wild	Jharberi	Rhamnaceae

Other Plant Group:

Aquatic Plants:

1.Pistia Sps 2.Hydrilla vercililata

S. No	Bryophytes	Pteridophytes	Gymnosperms
1.	Funaria sps	Adiantum sps	Cycas sps
2.	Cythodium sps.	Nephrolepis sps	Araucaria sps.
3.	Riccia Sps	<i>Pteri</i> sSps	Juniperus sps
4			Thuja occidentalis
5			Zemia floribunda

Gynoderma leucidum on old tree trunks
No. of Plant Species recorded under, grasses, herb, shrub and tree were Grasses-13, Herbs & Shrubs- 113, Trees- 40

SN	YEAR	NO. OF POTTED PLANTS
1	2015-16	90
2	2016-17	170
3	2017-18	190
4	2018-19	300
5	2019-20	300

Potted plants in college campus and hostel:

Observation and Results of Green Audit:-

Table: Herb layer biomass (Dry weight g/m^2) in rainy, winter & summer season.

S. No	Year	Month		
		August	November	April
1	2015-16	265.8g/m ²	211g/m^2	158g/m ²
2	2016-17	374.6g/m^2	238g/m ²	164.2g/m^2
3	2017-18	345.4g/m ²	234.0g/m ²	155.0g/m ²
4	2018-19	370.56.4g/m ²	237.0g/m ²	164.4.0g/m ²
5	2019-20	380.2g/m ²	241.0g/m ²	170.4g/m ²

Herb Layer Biomass is calculated by the students of M.Sc. Botany during their part of botany ecology practical, every year.

1.Grasses & Herbs-

No. of grasses are 13 and herb shrubs and climbers 112, Trees 41

- The site shows variation in number of plant sps. of grasses and herbs in three different seasons, mainly, rainy, winter and summer.
- It was observed that the no.of sps. grasses and herbs exhibite a trend rainy < winter< summer.
- In rainy season herbs are more in number than the grasses. The same trend was observed in the winter and summer season also. However during the summer the grasses were almost negligible.

• .

1- Shrubs:-

- Perennial plants sps. in the category of shrubs are.18 in number.
- Shrubs are located in the garden and few are growing wildly.
- Most of the shrubs are bushy in nature, their height ranges from 3.5 feet to 5.5 feet.
- Garden shrubs are grow for ornamental and for the Botany Practical purpose.
- 2- Trees:-

- The campus has84.no. of tree sps.
- In all 84 trees are identified which to belongs to 41. no. of sps.
- The average age of trees is 5-40 years.
- Identifications of plants done with the flora.
- Herbarium and photographs of the vegetation of college campus done.
- Name plats of the Botanical names, family with their vernacular names, tagged on each tree of college campus.
- Flexes of the vegetation prepared by the deptt. with the red cross society of the college.
- 1st list of the vegetation submitted by the students of M.Sc. Botany 2009-10 during their project.
- Green Audit report 1 up to the 2014 has been submitted in NACC Visit.
- During the survey of animals approximate 31 animals reported.
 LIST OF VERTEBRATES AND INVERTEBRATES FOUND IN THE CAMPUS Following study was carried out by M.Sc. Zoology students from the Year 2015-2020

S.NO.	COMMON NAME	ZOOLOGICAL NAME	VERTEBRATE/ INVERTEBRATE
Α		MAMMALS	
1.	DOG	Canis familiaris	VERTEBRATE
2.	CAT	Felis catus	VERTEBRATE
3.	BLACK RAT	Rattus rattus	VERTEBRATE
4.	BAT	Pteropus	VERTEBRATE
5.	SQUIRREL	Funambulus palmarus	VERTEBRATE
В		BIRDS	
6.	PARROT	Psittacula	VERTEBRATE
7.	SPARROW	Passer domesticus	VERTEBRATE
8.	СИСКОО	Eudynamys scolopaceus	VERTEBRATE
9.	CROW	Corvus splendens	VERTEBRATE
10.	EAGLE	Clanga hastata	VERTEBRATE
11.	OWL	Bubo bengalensis	VERTEBRATE
12.	HEN	Gallus gallus domesticus	VERTEBRATE
13.	PIGEON	Columba livia	VERTEBRATE
	GREY HERON		
	(Seasonal		
14.	migratory bird)	Ardea cinerea	VERTEBRATE
	LITTLE EGRET		
	(Seasonal		
15.	migratory bird)	Egretta garzetta	VERTEBRATE
С		REPTILES	
16.	LIZARD	Hemidetylus frenatus	VERTEBRATE
17.	COBRA	Naja naja	VERTEBRATE
18.	KRAIT	Bungarus	VERTEBRATE
D		INSECTS	
19.	ANT	Formica rufa	INVERTEBRATE
20.	MOSQUITOES	i)Anopheles	INVERTEBRATE

		ii)Culex	
		iii)Aedes	
21.	SPIDER	Parasteatoda tepidariorum	INVERTEBRATE
22.	COCKROACH	Periplaneta americana	INVERTEBRATE
23.	BUTTERFLY	Danaus plexippus	INVERTEBRATE
24.	HONEY BEE	Apis indica	INVERTEBRATE
25.	HOUSEFLY	Musca domestica	INVERTEBRATE
26.	FRUITFLY	Drosophila melanogaster	INVERTEBRATE
27.	GRASS HOPPER	Melanoplus differentialis	INVERTEBRATE
28.	WASP	Ropalidia marginata	INVERTEBRATE
29.	TERMITE	Coptotermes formosanus	INVERTEBRATE
	FLEAS	Xenopsylla	INVERTEBRATE
30.			
31.	BEETLES	Heterorrhina elegans	INVERTEBRATE

Conclusion:

Most of the area of the college campus under in the constricted area of college building, sport complex and sport ground. So greenery can increase only by increasing in the number of potted plants and indoor plants, climbers.

The open area of the college campus is 6048.38 sq. M on which vegetation is found. Apart from open area, so many potted plants are also in Botany deptt., College campus, in hostel

- Greenery can be improved within the college campus to keep one potted plant on every 10 feet.
- A ecofriendly seminar hall propose to make in front of the terrace of Botany deptt.
- Present seminar hall and auditorium can be make eco friendly by keeping potted plants including perennial climbers like species of *Pothos*, indoor plants.
- Plantation programmes have been organising every year.
- Potted plants are submitted by students of B.Sc II And III year bio and M.Sc botany from this year with their projects.
- The plants not only synthesise the carbohydrate with this, they gave fresh air by produce Oxygen as by product of photosynthesis

with this they control the pollution absorb the sound and give aesthetic sense and do bio-air conditioning.

Future Planning -

- Green audit will be done regularly with updating the list of vegetation of college campus and surroundings.
- In future Botany Department will start the consultancy for green audit and plant Identification.

Actually the Green Audit is to express the most important role of plants for the survival of Biosphere.



Principal Govt. D. B**/GI/C/P/4G**, College, Raput, Omininger College RAIPUR, (Chhottingarh)

Vegetation of College Campus









81.6366874° Altitude 234 meters Saturday, 03-04-2021

21.2329856°

Local 01:46:56 PM GMT 08:16:56 AM 21.232659° Local 12:33:17 PM GMT 07:03:17 AM 81.6365668° Altitude 233.8 meters

Thursday, 18-03-2021

















7.1.6 1. Green audit

2. Energy audit

Department of Physics



2019-2020

SUBMITTED IN PARTIAL FULFILLMENT OF

REQUIRMENT FOR THE MASTER DEGREE

OF SCIENCE IN (PHYSICS)

PROJECT WORK

ON

"ENERGY AUDIT"

GUIDED BY

Dr. Ragini Pandey

Department of physics

SUBMITTED BY

Roll no. 16524

Principal BASINCIPAL College, P. OHISABBER College . (Chhatilsearh

Today the energy consumption of every country are increased very sharply. In all sector energy is very much important for country economy. The energy demand is increasing very



Varsha soni

fast with the development of society. The prices and demand of energy is increasing with time so to control the price and demand a more effective and sustainable energy system becomes necessary. The aim of this project is to make an energy survey of the college campus, evaluating different sources of energy supply and losses in the campus.

An energy audit is a study to determine how and where energy is used and to identify methods for energy savings. There is now a universal recognition of the fact that new technologies and much greater use of some that already exist provide the most hopeful prospects for the future. The opportunities lie in the use of existing renewable energy technologies, greater efforts at energy efficiency and the dissemination of these technologies and options.

This energy audit of the Govt. D.B.Girls P.G.Autonomous College is carried out by the student of M.Sc.(IV) semester, Physics every year since 2018. This report is just one step, a mere mile marker towards our destination of achieving energy efficiency and we would like to emphasize that an energy audit is a continuous process. We have compiled a list of possible action to conserve and efficiently utilize our scarce resources and identified their saving potential. The next step would be to prioritize their implementation. We look forward with optimism that the institute authorities, staff and student shall ensure the maximum execution of the recommendation and the success of this work. Energy auditing in an integral part of energy conservation and energy management is also part and parallel of conservation ... The next generation yet to come will be completely light blind in absence of electrical energy. To avoid the energy calamity proposed auditing report use the innovative energy utilization scheme

INPUT

Source	Tube	Fan	CFL	Computer	printer	AC	Refrigerator
	Light						

Load in watt	20	50	10	100	350	3500	150
No of equipment	545	408	97	129	48	7	5
Per day consumption (5hr)	545	102	4.85	38.7	50.4	122.5	18
Per month consumption (22days)	1199	2244	106.7	851.4	1108.8	2695	540
Per year consumption (244days)	13298	24888	1183.4	9442.8	12297.6	29890	6570
Bill per month Rs.	9532.05	17839.8	848.265	6768.63	8814.96	21425.25	4293
Bill per year Rs.	105919.1	141826.41	6743.706	53810.60	70078.93	170330.73	34129.35

RESULT AND DISCUSSION

As far concerning the energy audit, electricity audit is main concerning regarding educational institution . we have collected data by considering the tube light , fan , computer

, AC miscellaneous in college most of the energy required for miscellaneous which is31.045% out of total energy . AC utilized 30.81% printers required 12.1% computer required 9.7% fan required 25.6% tube light required 13.7%

Below the diagram shows the contribution 0f tube light, fan, PC,AC, printer and miscellaneous in total use of energy.



Figure- Contribution of tube light ,AC, fan ,PC, printer, miscellaneou

TOTAL UNIT COST UTILIZED BY COLLEGE AND COST IN RUPEE ALL DATA COLLECT IN BETWEEN APRIL 2019 TO 2020

Aonth	Meter no. 100604604	bill	Meter no. 1000604605	bill	Meter no.1000604539	bill	Total unit	Bill
April	1850	14830	2435	18920	4120	33020	8405	66770
May	750	10550	2586	20270	1790	22840	5126	57470
June	1810	18700	3000	20300	3675	36890	8485	75890
July	1650	14650	2420	23150	3106	32650	7176	70450
Aug	1410	15820	3460	32610	3610	37000	8480	85430
Sep	2050	21140	3240	31010	4330	42620	9620	94770
Oct	1550	17220	5170	47270	4250	42070	10970	106560

Nov	760	10680	3270	31238	2717	30060	6747	71987
Dec	705	10740	2960	28650	2620	30250	6285	69640
Jan	1209	13150	2868	27890	2870	32320	6947	73360
Feb	1600	12750	2830	26310	2750	30300	7180	69360
Aarch	2170	17100	5027	39970	6060	48160	13257	105230
April	1677	13310	2510	19950	2601	20800	6788	54060

ENERGY SAVING CALCULATION

Cost Analysis of LED light with Conventional tub light.

- Total no. of conventional tube light in campus = 351
 - Conventional tube light average power = 40W
 - LED tube light average power = 20W
- Difference in power saved per tube =(40-20)W=20W
 - Total power saving =351*20W=7020W=7.02kw
 - Average use of tube light per year =244*5h=1220h
 - Energy saved per year =7.02*1220=8564.4kwh
 - Per year saving =8564.4*7.95= Rs. 68086.98
 - New LED light average cost = Rs. 450
- Total cost of replacing all conventional tube light =351*450=Rs. 157950

Cost analysis of new fan with old fan

• Total no. of old fan in campus =110

- old fan average power =75W
- new fan average power=50W
- Difference in power saved per fan =(75-50)W=25W
 - Total power saving 110*50W=5500W=5.5kw
 - Average use of fan per year =244*5h=1220h
 - Energy saved per year =5.5*1220kWh=6710kwh
 - Per year saving=6710*7.95=Rs53,344.5
 - New fan average cost = Rs.1345
- Total cost of replacing all old fan =110*1345=Rs. 147,950

Replacing of CRT monitor with LCD monitor

In the college campus computer with CRT monitor are 97 in numbers and the power consumption of CRT monitor are 520W which is very large. The power consumption of LCD monitor is 250W so the difference between CRT monitor and LCD monitor is large but LCD monitor is costlier than CRT monitor this saving of 250W per computer is very large.

LCD monitor cost analysis with CRT monitors

- total no. of computer with CRT monitor =97
 - CRT monitor average power = 520W
 - LCD monitor average power = 250W
- Difference in power saved per monitor = (520-250)W=270W
 - Total power saving =97*270W=26190W=26.19kw
 - Average use of monitor per year =5*244=1220h
- Energy saving by monitor per year =26.19*1220=31951.8kwh
 - Saving in rupee per year =31951.8*7.95=Rs.254016.81
 - Cost for replacing monitor =Rs. 4500
 - Total cost of replacing monitor =97*4500=Rs. 436500



Principal Govt D. B. ALACIPAL College. P. OHER BORT PALLA



NABL Accredited, CECB Approved & ISO Certified Laboratory Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

> Ref. No. : UES/21-22/0093 Date : 16/10/2021

To The Principal, Government Dudhadhari Bajrang Girls, Post-Graduate Autonomous College, Kalibadi Chowk, Nehru Nagar, Budhapara, Raipur, Chhattisgarh, 492001.

SubjectSubmission of An Environmental Study of Government D.B Girls, P.G. Autonomous
College, Raipur (C.G.)ReferenceWork Order No.: 708, Dated: 13/10/2021.

Respected Madam,

Thanks a lot for conforming your much awaited valuable order.

With reference to personal discussion held in Department of Botany, D.B. Girls P.G. College on 10.10.2019, we have succeeded in achieving above mentioned work order no. 708, dated 13/10/2021.

After samples collection, we have analyzed various environmental parameters of college premises twice i.e. on 11.12.2019 & 12.12.2020. The results were evaluated & tabulated.

We have also collected information of Health Care Facilities, Medical Facility, Cleanliness Awareness Program, Fire and Safety Facilities, Awareness Programmes to Protect Environment, Plantation Programmes, Energy Conservation, Water Conservation, and Non Conventional Source of Energy / Renewable Energy (An Alternative Source of Energy), Efforts for Carbon Neutrality, Hazardous Waste Management, Waste Disposal and Management

Two copies of the environmental study are attached here for your kind consideration.

Regards

For, Ultimate Envirolytical Solutions.

16/10/2021

Leela Verma (C.R.O)

Encl:

- 1. Two copies of An Environmental Study of Government D.B Girls, P.G. Autonomous College.
- 2. Copy of Invoice as per work order.

272 HDD, PHASE III, KABIR NAGAR RING ROAD No - 2, RAIPUR(C.G.) - 492099 PHONE : 0771 - 4027777 / 8959991234 ; EMAIL ID - ultimatenviro@gmail.com, info@ueslab.com ; www.ueslab.com

UES Continuation Sheet...

OUR OBSERVATIONS

We have collected samples of Air, Soil, Water, Waste-Water and Noise as per sampling procedure, prescribed in Indian Standard.

Following are the details of sample collection-

S.No.	Date of Sampling	Date of	analysis	Date of Report	
	2 are or Sumpring	Start	End		
01	09.12.2019 and 10.12.2019	11.12.2019	16.12.2019	16.12.2019	
02	11.12.2020 and 12.12.2020	12.12.2020	14.12.2020	14.12.2020	

We have also collected data of Waste management, Green belts, Health Facilities, Water conservation and Composting. We have found that all the facilities have been provided by the institution in proper manner which contributes to ecologically balanced campus.

Nidhi Yadav Study Co-ordinator

Pramod Choubey Chief Chemist

AN ENVIRONMENTAL STUDY

OF

GOVERNMENT DUDHDHARI BAJRANG GIRLS POST-GRADUATE AUTONOMOUS COLLEGE

KALIBADI CHOWK, NEHRU NAGAR, BUDHAPARA, RAIPUR, CHHATTISGARH, 492001



PREPARED BY M/s Ultimate Envirolytical Solutions HDD - 272, Phase - III, Near JP Square, Kabir Nagar, Raipur (C. G.) Tel : 0771-4027777 E-mail : ultimatenviro@gmail.com

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ABOUT THE COLLEGE

- In the decade of fifties, when access to higher education for women was limited by social factors, the State Government took the pioneering step of establishing a college exclusively for women in Raipur since 1958.
- Rajeshree Vaishnav Das ji Mahant, Hon'ble Head of Shri Dudhadhari Math Raipur came forward to contribute a land parcel of 4.47 acres within city area for the establishment of the College, which has been named after his Hon'ble Guru and former head of the Math Rajeshree Dudhadhari Bajrang Das Ji Mahant. Hon'ble Math had also contributed an amount of Three Lakh One Hundred and One Rupee along with a large parcel of cultivated land sizing three hundred and one acres to ensure adequacy of resources for the noble cause of women's education.
- The College had been initially affiliated to University of Sagar, and later to Pt. Ravishakar Shukla University Raipur since 1971. The college has been granted status of Autonomous Institution since 1988, and recognized as a "College with Potential for Excellence" in 2010.
- In the Golden Jubilee Year of its foundation 2008, the first Woman President of India Hon'ble Smt. Pratibha Devi Singh Patil blessed the Institution with her visit, which was a rare honour for any College in the State.
- The college has the distinction of being the only Institution in the state chosen by University Grants Commission to establish a Centre dedicated to Women related issues in Chhattisgarh. The "Women Study Centre" has come into existence since April 1st, 2016.
- Currently more than 3500 women students are enrolled in the College under various study programs ranging from under-graduate to doctorate level, in the faculties of Science, Arts, Commerce, Home Science and Physical Education. The campus is made accessible for differently able people and a sizeable number of such students are enrolled in different programs. The campus is also marked under Sugamya Bharat Abhiyan (2016) (Accessible India Campaign).

 Students of this College have received accolades in studies as well as in the fields of NCC, NSS, Youth Red Cross Society and others, and alumni could be found across the world contributing in various roles like academicians, bureaucrats, scientists, soldiers and many more.

FOUNDATION OF SRIDUDHADHARI MATH

From the historical, religious and archaeological point of view, the heart of the holy land Chhattisgarh is located in the capital city of Raipur, "**Sridudhadhari Math**", which was established in 1610 by the lotus tax of the supreme sage Rajeshree Mahant Balabhadra Das ji.

The name of this place became famous by the name of Shridudhadhari Math because of taking only milk diet for whole life. This is a very famous Peeth not only in Chhattisgarh but all over India. There is only Sridudhadhari Math in India, where Mahantji has been given the title of Rajeshree Mahantji.

After a few years, Rajeshree Mahant Balabhadra Das ji, giving the responsibility of service to his disciple Shri Swami Sitaram Das ji, became meditative while remembering God. The operation of this monastery is carried out by the disciple tradition, which is as follows-

- 1. Rajeshree Mahant Valbhadra Das Ji (Sri Dudhadhari Ji) Maharaj.
- 2. Rajeshree Mahant Sitaram Das Ji Maharaj.
- 3. Rajeshree Mahant Arjun Das Ji Maharaj.
- 4. Rajeshree Mahant Ramcharan Das Ji Maharaj.
- 5. Rajeshree Mahant Saryu Das Ji Maharaj.
- 6. Rajeshree Mahant Lakshnam Das Ji Maharaj.
- 7. Rajeshree Mahant Bajrang Das Ji Maharaj.
- 8. Rajeshree Mahant Vaishnav Das Ji Maharaj.
- 9. Rajeshree Dr. Mahant Ramsunder Das Ji Maharaj.

CONTRIBUTION OF MATH IN VARIOUS FIELDS-

- To provide pure drinking water to the residents of Raipur, 27 acres of land was donated for setting up a water purification plant in Ravana Bhatha, adjacent to the Math.
- Satsang Bhawan was constructed in Sridudhadhari Math.
- Sanskrit Vidyalaya was established in 1939 on 24.04.1936 for the promotion of Sanskrit education.Establishment of Vidya Mandir in village Pipraud district-Raipur.
- Establishment of Higher Secondary School at Abhanpur- On October 2, 1955, on the auspicious occasion of the birth anniversary of the Father of the Nation, Mahatma Gandhi, Shri Dudhadhari Vaishnav Sanskrit Mahavidyalaya, Raipur was established with the lotus blessings of the first President of India, Dr. Rajendra Prasad, and 101 acres of agricultural land was donated for its operation.
- There has been a tradition of cooperating with this Math from time to time on natural calamities like earthquake, tsunami, flood prone, drought prone.
- Establishment of Mahila Mahavidyalaya- In order to advance women's education in the society, Shri Dudhadhari Bajrang Mahila Mahavidyalaya was established in Kalibadi Raipur in the year 1958. Three lakh one hundred one rupees and three hundred one acres of cultivable land were donated in village Pendri (Bhatapara) to strengthen this college financially.









An Environment Study Report Of Govt. Dudhadhari Bajrang Girls Post-Graduate Autonomous College

LAYOUT OF EXISTING SECOND FLOOR BUILDING

VISION AND MISSION

MOTTO - "आरोह तमसो ज्योति" - From darkness to light. The vision is to be a preeminent centre of excellence, generating & imparting knowledge. Empower girls through quality education. Equal opportunity to all students, no matter from where they belong to.

The primary aim is to provide quality education and thus empower the girl students as majority of students come from rural, tribal and socially- backward strata of society. The focus is to provide free accessibility to education and to treat the students equally without any discrimination of caste, creed or economic status.

VISION-

- Quality enhancement through motivation and confidence building through learning.
- To mould students into well-meaning citizens through a socially committed, value driven and future oriented paradigm of learning.
- To prepare students to encounter the academic challenges with confidence, to develop indigenous techniques/methods to solve various problems i.e., subject related and real-life problems.

MISSION- In order to translate the vision into reality our mission is as follows:

- To create a teaching learning environment and research attitude conducive to the pursuit of higher knowledge, relevant skills and experience.
- To provide quality education to girl students by synchronizing tradition with modernity and blending professional and vocational education with traditional courses for their development.
- To foster self and community development by sensitizing the students on socio-economic issues emphasizing on gender, religious harmony, environment and human rights by including related topics into the curriculum and through co-curricular activities.

COLLEGE CAMPUS AT A GLANCE







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GIRLS HOSTEL

INFORMATION RELATED TO THE LAND AND BUILDING OF THE COLLEGE

01	Establishment date	12 August, 1958
02	Installation status	Official
03	College area	47 Acres (20,760 square meters)
04	Total area of the building	40,380 Square meters
05	Total lecture hall in the college	40 Rooms
06	Total laboratory room in the college	24 Rooms
07	Principal Room, Office Room, Store Room	03 Rooms (Isolated)
	DESCRIPTION OF LABORAT	ORY ROOMS
01	Chemistry	05 Rooms
02	Physics	03 Rooms
03	Zoology	04 Rooms
04	Botany	03 Rooms
05	Geography	02 Rooms
06	Psychology	04 Rooms
07	Home Science	04 Rooms
08	Computer lab	02 Rooms
	Grand Total	24 Rooms

ENVIRONMENTAL STATUS-

- HEALTH CARE FACILITIES- Good health and well-being is the right of every human. 3rd goal of United Nations 17 SDG support the theme. Health and hygiene of women is always a big task for planners. More than 40% women are still suffering health related issues. Most of the women suffer problems related to menstrual cycle. Even in recent times girls' are forced to use unhygienic cloth during this period. Menstrual cycle is a natural phenomenon in every woman's life. Regular changing of pad in this period is necessary to prevent Reproductive Tract Infections (RTI). They also feel embarrassed to borrow the napkin. Sometimes it is not possible for a girl to carry napkins; therefore sanitary vending machine at schools, colleges, airports, hospitals and work place, can be good option for girls in difficult situation. This guarantees comfort to the women who do not have to hesitate in times of their periods. In the year 2011, Ministry of Health and Family Welfare, Government of India launched the menstrual hygiene scheme (MHS) for rural adolescent girls with the objectives -
 - 1. To increase awareness among adolescent girls on Menstrual Hygiene.
 - 2. To increase access to and use of high quality sanitary napkins to adolescent girls in rural areas.
 - 3. To ensure safe disposal of Sanitary Napkins in an environmentally friendly manner.




It is convenient to pick up pad with hassle free operation. The motive of vending machine to promote menstrual health of girls' which ensure to provide the sanitary napkin at any time on their need and to them against encourage using traditional methods. The institution in collaboration with NTPC and CITCON initiated this drive to

provide essential facility to all learners. Since last 3 years sanitary napkin vending machine and incinerator are successfully working in the institution. Furthermore, we found that, the incinerator is completely destroying the napkins and the ash content is used as manure for gardening purpose. The gases released during the incineration process are dispersed through fumigation pipe. There are total 3 sanitary vending machines available in institution, out of which 2 are placed in girls' hostel, 1 is installed in main building and 1 is installed at first floor of new building. One sanitary napkin vending machine can hold 50 napkins at a time. One who wants napkin have to pay only Rs.5/for one napkin. The amount collected is kept by the HOD of Home Science department. The collected money will be used for further purchasing of napkins



INSTALLATION OF INCINERATOR



- <u>MEDICAL FACILITY</u>- Medical facility is also available for hostellers, where the doctors visit weekly and on call basis during emergency. First aid boxes are available in the office and autonomous cell of the college. Health camps, Nutrition week, Vaccination camps etc. were organized by home science department.
- CLEANLINESS AWARENESS PROGRAM- PM Modi in his programme Mann Ki Baat (35th Edition) has called upon the countrymen to initiate a Campaign called Swachchata Hi Sewa (Cleanliness is Service). The programme should begin at least 15 days prior to Gandhi Jayanti (2nd October). He said," Let's create an environment of cleanliness in the entire country." For that he urged all (leaders/ officials/ students) to be the part of this mission. Under this programme, all the students participated with great zeal and enthusiasm. Even teachers' were the essential part of this drive. As a part of this Cleanliness Drive, they had to clean the whole campus. The sweepers of the school had to be the observers. Thereafter Principal delivered the speech telling them the importance of sanitation. She also honoured the sweepers of the school for their noble job. In the end they all took oath of keeping their home, locality and city clean. It was a unique experience for all students. They were curious to be the part of this great drive that could have transformed the face of our country for ever.



• **<u>FIRE AND SAFETY FACILITIES</u>**- Fire safety is the set of practices intended to reduce the destruction caused by fire. Fire safety measures include those that are intended to prevent ignition of an uncontrolled fire, and those that are used to limit the development and effects of a fire after it starts. Fire safety measures include those that are planned during the construction of a building or implemented in structures that are already standing, and those that are taught to occupants of the building. Threats to fire safety are commonly referred to as fire hazards. A fire hazard may include a situation that increases the likelihood of a fire or may impede escape in the event a fire occurs. To avoid or to control such hazardous situation, the institution had installed fire extinguishers in different location of the campus. Faculties and students were trained to use fire extinguisher by expertise.



AWARENESS PROGRAMMES TO PROTECT ENVIRONMENT -

Prime Minister Narendra Modi in his vision for India 2021 shared that our country must phase out the use of single-use plastics by 2022 to help the environment thrive better. Union Environment Minister, Prakash Javadekar said, "Considering the adverse impacts of littered single-use plastic items on both terrestrial and aquatic ecosystems, Hon'ble Prime



Minister, Shri Narendra Modi gave a clarion call to phase out single-use plastics by 2022, and the government has taken effective measures to manage plastic waste." Keeping this in view, the institute have taken several initiatives to achieve the said goal by campaigning against the use of polythene. Under this campaign, different medium of awareness were used such as Nukkad natak, Paper banner/ Banner on Tree leaves/ Banner on Cloth were used during the awareness program. All took oath to minimize the use of single use plastics from their daily life.



THE HARMFUL EFFECTS

OF

AWARNESS

POLYTHENE.

ABOUT

1301 PLUS रैया तालाब को साफ किया और नो पॉलिथीन की ली शपथ the day share each eaches do fed and हे तोन्ह नई २ में प्रकाशन eine de le cofera uniga unitiat fant efe ber par gå Å and with miltin के राष्ट्रा भगवा in the man at an स्ते कहा केले d à six arts u mas n al nuni al plu è te men fizief: azdara 苏南市 Wanger B ed th ret

ALL THE FACULTY MEMBERS AND STUDENTS TAKING OATH TO PROTECT THE ENVIRONMENT, TAKING CARE OF CLEANLINESS AND TO AVOID USE OF POLYTHENE

- PLANTATION PROGRAMMES A programme was chalked out to maintain greenery. The green audit report of this year has been discussed with environmental experts of Raipur with suggestions to increase greenery in campus. Extra efforts have been taken by the college to create environment consciousness amongst students. One major step in this regard is the extensive plantation programmes was organized by NSS and NCC in the last four years. NGO's like Jankalyan Parishad, Ambikapur provide a grant of ten thousand rupees per year for plantation. Plantation is encouraged by all departments to increase greenery and reduce carbon emission effects. Existing gardens are maintained, renovation of the garden at the entrance was done with financial support from Jan Bhagidari Samiti in the year 2008. Conferences on issues related to environment are also organized.
- The management has chosen such species of flora which have large leaf index with high canopy to absorb more carbon dioxide. Thus, resultant is higher pure oxygen



PLANTATION PROGRAM TO CREATE ENVIRONMENT CONSCIOUSNESS AMONGST STUDENTS, ORGANIZED BY NSS AND NCC.

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PLANTATION PROGRAM TO CREATE ENVIRONMENT CONSCIOUSNESS AMONGST STUDENTS, ORGANIZED BY NSS AND NCC.



A GREAT INCITIATIVE TAKEN BY THE COLLEGE SPREADING AWARENESS ABOUT THE NATURAL SOURCE OF IMMUNITY ENHANCING PLANTS.

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STUDENTS PAINTED THE WALL TO SPREAD AWARNESS ABOUT THE ASTHETIC VALUE OF ENVIRONMENT

- <u>ENERGY CONSERVATION</u> Energy audit has been under taken by department of Physics with the support of CREDA, Government of Chhattisgarh. It has been planned to draw 50% energy through solar energy in the upcoming year. Active consideration is given to replace old fans to cut down electricity bills. The institution is using CFL bulbs. A proposal to replace LPG in hostel-kitchen by solar cooking system is under consideration.
- <u>WATER CONSERVATION</u>- Conservation of water means sustainable use of water. Students were made aware to conserve water as it is a precious natural resource. One of the most effective method is **Rainwater harvesting.** In this system, the rainwater is collected by allowing it to flow from the rooftop through pipes in a storage tank. This water may contain some soil particles from the roof. So it should be filtered before use. It is allowed to flow into a pit in the ground to recharge or refill the groundwater.

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LAYOUT OF RAINWATER HARVESTING



- NON CONVENTIONAL SOURCE OF ENERGY/ RENEWABLE ENERGY (AN ALTERNATIVE SOURCE OF ENERGY) - A proposal has been sent to Government of Chhattisgarh to provide solar energy light system. The proposal is under consideration. Water harvesting Water harvesting has been done in the PG Hostel building of the college. As a result the water crisis faced at the onset of summer season is avoided to a large extent. Check dam construction The College has an old well which is a water reservoir. The campus has five interconnected submersible pumps at different locations and all are connected to this well. This serves as a lifeline of the college. The well-water is purified by adding potassium permanganate from time to time. Drinking water points of college and hostels are connected with aqua-guards.
- **EFFORTS FOR CARBON NEUTRALITY** The carbon emission of college has been made to negligible by plantation in the campus. Most of the students use bicycles. Plantation the college units of NCC and NSS regularly conduct plantation programme. The department of Botany has developed an open terrace garden for medicinal and ornamental plants. Besides NCC and NSS, plantation is also done in collaboration with State Bank of India and other NGO's like Jankalyan Parishad, Ambikapur provide a grant of ten thousand rupees per year for plantation. In hostel, birthdays are celebrated by giving saplings of plants to the birthday girls in order to inculcate care for plants in them.
- <u>HAZARDOUS WASTE MANAGEMENT</u> Extra care is taken for the safe disposal of hazardous waste. Carcinogenic chemicals used in DNA extraction technique by the department of Botany and Biotechnology is dumped deep into the soil after using it. E-waste management Computer department looks after the safe disposal of e-waste.
- <u>WASTE DISPOSAL AND MANAGEMENT</u>- Environment awareness, environment education is the need of the hour. Safe disposal of biodegradable and non-biodegradable waste is a major threat to the environment at all levels. Vermicomposting is an eco-friendly way of disposal of biodegradable waste in which the earth-worms convert the biodegradable waste into usable organic fertilizer and

conserve the nature. Use of Inorganic fertilizers has disturbed the whole agriculture system and now it is affecting the yield of the farm and the quality of the soil. So there is a dire need to maintain the quality and productivity of soil. Hence the institute initiated the use of Vermi-composting for the proper and safe disposal of biodegradable waste in the college campus. For sewage treatment, we have discussed this point with higher authority and they have assured that proper treatment plant and filters will be installed soon. The treated quality of that effluent will meet Indian Standard norms specified by CPCB and the same would be efficiently utilized inside the college premises for plantation purpose. This practice is serving some very useful purposes:

- To spread awareness among millennials about the problems of environment and at the same time educating them about this modern technique of Vermicomposting.
- Inculcating eco-friendly culture which is the major concern of the generation of 21st century and Opening of new avenue for self-employment.



COLOUR CODED DUSTBINS WERE PLACED IN COLLEGE CAMPUS TO SEGGREGATE DRY WASTE AND WET WASTE

The department of zoology has worked on the Conservation of Herons, and life cycle of seasonal butterflies and insects. They have also formed a museum of butterflies. A herbarium of seasonal plants is prepared by the botany department. Tips on water and electricity conservation are given to students for energy conservation. A UGC sponsored project on Hostel Waste Management through Vermi-compost is taken up by Botany department. As per the directives of Supreme Court a paper on environment studies has been made compulsory, focusing on environmental problems and related issues.



BIODEGRADABLE WASTE PRODUCTS WERE COLLECTED FROM COLLEGE CANTEEN TO CONVERT INTO COMPOST







- QUALITY TESTING OF ENVIRONMENTAL PARAMETERS Furthermore, the qualities of environmental samples have been monitored by Ultimate Envirolytical solutions, a NABL accredited laboratory & approved by Ministry of Environment, Forest and Climate Change. The samples were collected from different location of the campus for analysis. The samples has been analysed as per Indian standard method, prescribed by Bureau of Indian standard (BIS). Following environmental samples has been taken under observation
 - a) Water (Bore-well water) and Waste water (Effluent water).
 - b) Ambient Air.
 - c) Soil.
 - d) Noise level.

1. WATER QUALITY TESTING PARAMETERS AND THEIR METHOD OF ANALYSIS-

S.No.	Parameter	IS Method	Analysis Method	
01	pН	IS:3025 (Part-11) RA 2017	Electrometric Method	
02	Electrical Conductivity (in µS/cm)	IS:3025 (Part-14) 1984 RA 2013	Electrometric Method	
03	Total Dissolved Solids (in mg/L)	IS:3025 (Part-16) 1984; RA 2019	Gravimetric Method	
04	Total Suspended Solids (in mg/L)	IS:3025 (Part-17) 1984; RA 2016	Gravimetric Method	
05	Turbidity (in NTU)	IS:3025 (Part-10) 1984; RA 2012	Nephlometric Method	
06	Chloride (in mg/L)	IS:3025 (Part-32) 1988; RA 2019	Argentometric Method (Titrimetric Method)	
07	Total Hardness (in mg/L)	IS:3025 (Part-21) 2009; RA 2019	Titrimetric Method	
08	Calcium (in mg/L)	IS:3025 (Part-40) 1991; RA 2019	Titrimetric Method	
09	Magnesium (in mg/L)	APHA 23 rd Edition 3500-Mg-E	Calculation Method	
10	Total Alkalinity (in mg/L)	IS:3025 (Part-23) 1986; RA 2019	Titrimetric Method	
11	Fluoride (in mg/L)	IS:3025 (Part-60) 2008; RA 2013	Electrometric method	
12	Sulphate (in mg/L)	IS:3025 (Part-24) 1989; RA 2019	Turbidity method (Spectroscopic Method)	
13	Sodium (in mg/L)	IS:3025 (Part-45) 1993; RA 2019	Flame photometric method	
14	Potassium (in mg/L)	IS:3025 (Part-45) 1993; RA 2019	Flame photometric method	
15	Chemical Oxygen Demand (in mg/L)	IS:3025 (Part-58) 2006; RA 2017	Open Reflux Method	
16	Biochemical Oxygen Demand (in mg/L)	IS:3025 (Part-44) 1993; RA 2019	Oxygen Depletion Method	

2. SOIL QUALITY TESTING PARAMETERS AND THEIR METHOD OF ANALYSIS-

r	1		
S.No.	Parameter	IS Method	Analysis Method
01	Moisture (%)	Agricultural Soil Manual	Oven dry Method
02	pН	IS:2720 (Part-26) 1987; RA 2016	Electrometric method
03	Electrical Conductivity (in µS/cm)	IS:14767:2000;RA2021	Electrometric method
04	Sodium (in Meq/L)	UES/SAP/Soil/03/Na	Flame photometric method
05	Available Potassium (in Kg/Ha)	UES/SAP/Soil/04/K	Flame photometric method
06	Available Phosphorous (in Kg/Ha)	UES/SAP/Soil/05/P	Spectroscopic Method
07	Available Nitrogen (in Kg/Ha)	Agricultural Soil Manual	Kjeldahl Method
08	Exchangeable Calcium (Meq/100g)	Agricultural Soil Manual	Titrimetric Method
09	Exchangeable Magnesium (Meq/100g)	Agricultural Soil Manual	Titrimetric Method
10	Organic Matter (in %)	Agricultural Soil Manual	Walkley and black method (Titrimetric Method)

03

04

 (SO_2)

 (NO_2)

Nitrogen Dioxide

THE	THEIR METHOD OF ANALYSIS -				
S.No.	Parameter	IS Method	Analysis Method		
01	Particulate Matter (PM ₁₀)	IS:5182(Part-23):2006	Cyclonic flow technique (Gravimetric Method)		
02	Particulate Matter (PM _{2.5})	IS:5182(Part-24):2019	Gravimetric Method		
03	Sulphur Dioxide	10 5100/D (00)	Improved West and Geake		

3. AMBIENT AIR QUALITY MONITORING PARAMETERS AND

4. NOISE LEVEL MONITORING- Noise level is measured by using sound/Noise meter.

IS:5182(Part-23):

IS:5182(Part-06):

method.

Modified

(Spectroscopic Method)

(Spectroscopic Method)

Hochheiser method.

Jacob

and



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer To,		REPORT NO	UES/TR/20-21/02781		
		LAB REF NO	UES/20-21/AAQM/04818-04819		
The Principal		DATE OF SAMPLING	11/12/2020 to 12/12	/2020	
Govt. Dudhdhari Ba	jrang Girls Post-	DATE OF RECEIPT	12/12/2020	:	
Graduate Autonomo	bus College	DATE OF REPORT	15/12/2020		
Kalibadi Chowk, Nehru Nagar, Budhapara, Raipur (C. G.) 492001		DATE OF ANALYSIS	START: 12/12/2020	END: 14/12/2020	
	SA	MPLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring.				
Sampling Location	1. Near Rusa Building 2. Near Old Sports Ground				
Customer Ref.	Verbal Communication & By Mail Confirmation.				
Sample Collected By	ample Collected By Laboratory Chemist				
Sampling Procedure	Impling Procedure As Per Standard Method				
Each Sampling Site: Sample Quantity/Packing Filter Paper (PM10): 1X3 No.(24hr.), Filter Paper (PM25): 1X1 No.(24hr) SO2: 30mlX6 (4hr) PVC Bottle, NO2: 30mlX6(4hr) PVC Bottle					

TEST REPORT

Chemical Testing Ambient Air Quality Monitoring

	Unit NAAQM Standard			Results	
Parameter			Method Reference	Near Rusa Building	Near Old Sports Ground
Particulate Matter (PM ₁₀₎	µg/m³	100	IS:5182(Part 23):2006	56.64	52.4
Particulate Matter (PM _{2.5)}	µg/m³	60	UES/SAP/A/02/PM2.5:2019	22.17	19.18
Sulphur Dioxide (SO ₂₎	µg/m³	80	IS 5182 (Part 2): 2001	9.32	8.41
Nitrogen Dioxide (NO ₂₎	µg/m³	80	IS 5182 (Part 6): 2006	21.86	14.66

REMARKS: UES/SAP/A/02/PM2.5:2019 : As Per CPCB Guideline

Terms & conditions

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only. A

For ULTIMATE ENVIROLYTICAL SOLUTIONS **REVIEWED BY**



2020

-End of the test report-----



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Cu	Name & Address Of The Customer			REPORT NO UES/TR/20-21/02782		
10,	LAB REF NO	UES	UES/20-21/W/04820			
		DATE OF SAMPLING	12/1	2/2020		
GOVI. DUDHDHA	ARI BAJRANG GIRLS POST-	DATE OF RECEIPT	12/1	2/2020		
GRADUATE AUT	DATE OF REPORT	15/1	15/12/2020			
KALIBADI CHOWK, NEHRU NAGAR, BUDHAPARA, RAIPUR (C. G.) 492001		DATE OF ANALYSIS	START: 12/12/2020 END:		END: 14/12/2020	
	SAMPLI	E DETAILS				
CUSTOMER SAMPLE ID	EFFLUENT WATER	CUSTOMER REF. VERBAL COI MAIL CONF		VERBAL COMM MAIL CONFIRM	1MUNICATION & RMATION.	
SAMPLE TYPE	SAMPLE TYPE EFFLUENT WATER S/		SAMPLE CONDITION AT RECEIPT		ок	
PACKING OF SAMPLE PLASTIC BOTTLE		SAMPLE COLLECTED BY		CUSTOMER		
OTHERS DETAILS	SEALED	QUANTITY RECEIVED		APPROX 5 LTR.		

TEST REPORT Chemical Testing 1. Water					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT	
1	pH value at 25.6°C	_	IS:3025:(Part-11):1983, RA 2012	7.67	
2	Total Suspended Solids	mg/l	IS:3025:(Part-17):1984, RA 2012	128.5	
3	Chemical Oxygen Demand	mg/l	IS:3025:(Part-58):1988, RA 2006	274.0	
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/l	IS:3025:(Part-44):1989	39.4	
5	Total Dissolved Solids	mg/l	IS:3025:(Part-16):1984, RA 2017	346.8	
	Note: mg/lit.: milligram per Liter.		·		
REMA	RKS RESULTS ARE AS ABOVE			an name in state in the set of the second second	

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 2020 2020 AUTHORIZED SIGNATORY REVIEWED

End of the test report-



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Name & Address Of The Cu To,	Name & Address Of The Custamer To,			UES/TR/20-21/02783			
THE PRINCIPAL GOVT. DUDHDH/	E PRINCIPAL /T. DUDHDHARI BAJRANG GIRI S POST.		PRINCIPAL T. DUDHDHARI BAJRANG GIRI S POST.		0ES/20-21/W/04821 12/12/2020		
GRADUATE AUT	DATE OF RECEIPT	12/:	12/12/2020				
KALIBADI CHOW BUDHAPARA, RA	DATE OF ANALYSIS	START: 12/12/2020 END: 14/12/2					
	SAMPLE	DETAILS					
CUSTOMER SAMPLE ID BOREWELL WATER		CUSTOMER REF.		VERBAL COMMUNICATION & MAIL CONFIRMATION.			
SAMPLE TYPE GROUND WATER		SAMPLE CONDITION AT RECEIPT OK		ок	ок		
PACKING OF SAMPLE	PLE PLASTIC BOTTLE SAMPLE COLLECTED BY			CUSTOMER			
OTHERS DETAILS	SEALED	QUANTITY RECEIVED APPROX 5 LTR.					

Che 1	TEST REPORT Chemical Testing 1. Ground Water				
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT	
1	pH value at 25.3°C	_	IS:3025:(Part-11):1983, RA 2017	7.77	
2	Conductivity	µS/cm	IS:3025:(Part-14):1988, RA 2013	713.6	
3	Total Dissolved Solids	mg/l .	IS:3025:(Part16):1984, RA 2017	430.0	
4	Chloride (as Cl ⁻)	mg/l	IS:3025:(Part-32):1988, RA 2014	71.9	
5	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025:(Part-23):1986, RA 2014	116.0	
6	Total Hardness (as CaCO ₃)	mg/l	IS:3025:(Part-21):2009, RA 2014	264.0	
7	Calcium (as Ca)	mg/l	IS:3025:(Part-40):1991 RA 2014	46.4	
8	Magnesium (as Mg)	mg/l	APHA 22 ND EDITION :3500-MG-B	35.9	
9	Turbidity	NTU '	IS:3025:(Part-10):2010	0.57	

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Name & Address Of The Cu	stomer	REPORT NO	UES/TR/	20-21/02783	}	
THE DDINGIDAL		LAB REF NO	UES/20-2	UES/20-21/W/04821		
		DATE OF SAMPLING	12/12/2	020		
GOVI. DUDHUH	ARI BAJRANG GIRLS PUST-	DATE OF RECEIPT	12/12/2	020		
KALIBADI CHOW		DATE OF REPORT	15/12/20	020		
BUDHAPARA, RA	AIPUR (C. G.) 492001	DATE OF ANALYSIS	START: 1	2/12/2020	END: 14/12/2020	
	SAMPLE	DETAILS				
CUSTOMER SAMPLE ID BOREWELL WATER		CUSTOMER REF.		VERBAL COMMUNICATION & MAIL CONFIRMATION.		
SAMPLE TYPE	GROUND WATER	SAMPLE CONDITION AT RECEIPT	ОК			
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY CUSTOMER				
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	AP	PROX 5 LTR.		
TEST REPORT Chemical Testing						

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
10	Sulphate (SO4 ²⁻)	mg/l	IS:3025:(Part-24):1986, RA 2014	48.97
11	Fluoride (as F)	mg/l	IS:3025:(Part-60):2008, RA 2013	0.10
12	Sodium (as Na)	mg/l	IS:3025:(Part-45):1993, RA 2003	16.30
13	Potassium (as K)	mg/l	IS:3025:(Part-45):1993, RA 2003	2.31
14	Iron (as Fe)	mg/l	IS 3025 (part 53):2003 RA 2019	0.11
	Note: mg/lit.: milligram per Liter.			

REMARKS:RESULTS ARE AS ABOVE

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R 1	A STATE	The market is a	
Thakur		15/12/2020	
15 12 2020	THE SER		
REVIEWED BY	* * * 0 * 5	AUTHORIZED SIGNATORY	
End of the test report			



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Name & Address Of The Customer To, The Principal Govt. Dudhdhari Bajrang Girls Post- Graduate Autonomous College Kalibadi Chowk, Nehru Nagar, Budhapara, Raipur (C. G.) 492001		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS	UES/TR/20-21/02802 UES/20-21/S/04846 12/12/2020 12/12/2020 15/12/2020 START: 12/12/2020	2 END: 14/12/2020		
		SAMPLE DETAILS				
Monitoring For	Soil					
Sampling Location	Near Office Garden					
Customer Ref. Verbal Communication & By		y Mail Confirmation				
Sample Collected By	Laboratory Chemist					
Sampling Procedure	Manual On Soil, Plant & Water Analysis					
Sample Quantity/Packing	3.0 Kg(Approx)					

TEST REPORT						
Sr. No.	Parameter	Unit	Method Reference	Result		
1	Moisture	%	AGRICULTURE SOIL MANUAL	12.8		
2	pH Value(1.5 Aq. Extraction)	-	IS: 2720:(PART-26):1987 RA 2011	7.11		
3	Conductivity(µs/cm) (1.5 Aq. Suspension)	μS/cm	IS: 14767:2000 RA 2016	178.2		
4	Available Nitrogen (as N)	kg/ha	AGRICULTURE SOIL MANUAL	28.2		
5	Available Phosphorus (as P)	kg/ha	AGRICULTURE SOIL MANUAL	322.0		
6	Available Potassium (as K)	kg/ha	AGRICULTURE SOIL MANUAL	456.0		
7	Exchangeable Calcium	Meq/100g	AGRICULTURE SOIL MANUAL	2.68		
8	Exchangeable Magnesium	Meq/100g	AGRICULTURE SOIL MANUAL	16.2		
9	Organic Matter	%	AGRICULTURE SOIL MANUAL	1.48		
-	Texture					
10	a) Sand	%	AGRICULTURE SOIL MANUAL	18.0		
10	b) Slit	%	AGRICULTURE SOIL MANUAL	56.0		
	c) Clay	%	AGRICULTURE SOIL MANUAL	26.0		

N.D.:-NOT DETECTED

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 2020 2020 2 **REVIEWED BY AUTHORIZED SIGNATORY** End of the test report-

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Name & Address Of The Customer To, The Principal Govt. Dudhdhari Bajrang Girls Post-Graduate Autonomous College Kalibadi Chowk, Nehru Nagar,		REPORT NO. LAB REF NO. DATE OF REPORT	UES/TR/20-21/02803 UES/20-21/N/04847 15/12/2020		
Budhapara, Raipur (C.	G.) 492001	DATE OF SAMPLING	11/12/2020 TO 12/12/2020		
	SAMPLE	DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING	_			
SAMPLING LOCATION	INSIDE AREA (AS DESCRIBED BEL	.OW)			
CUSTOMER REF.	VERBAL COMMUNICATION & BY	Y MAIL CONFIRMATION.			
SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION				
SAMPLE QUANTITY/PACKING	AMPLE QUANTITY/PACKING NOT APPLICABLE				

TEST REPORT							
RESULT							
LOCATION	UNIT	DAY TIME 15.12.2021	NIGHT TIME 15.12.2021	LIMIT (RESID	DENTIAL ZONE)		
NEAR RUSA BUILDING	dB(A)	44.3	40.2	Ŧ			
NEAR OLD SPORTS HALL	dB(A)	49.0	40.6	55 dB(A)	45 dB(A)		
NEAR MAIN BUILDING (GATE NO.01)	dB(A)	45.0	42.3				
NEAR MAIN GATE	dB(A)	48.0	46.5				

REMARKS: THE RESULTS ARE AS ABOVE.

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-----End of the test report------



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Name & Address Of The Customer To,		REPORT NO	UES/TR/19-20/2341		
		LAB REF NO	UES/19-20/AAQM/5395-5396		
The Principal	Income Olivia De et	DATE OF SAMPLING	09/12/2019 to 10/12	/2019	
Govt. Dudhdhari Bajrang Girls Post- Graduate Autonomous College Kalibadi Chowk, Nehru Nagar, Budhapara, Raipur (C. G.) 492001		DATE OF RECEIPT	10/12/2019	-	
		DATE OF REPORT	16/12/2019		
		DATE OF ANALYSIS	START: 11/12/2019	END: 16/12/2019	
	SAM	PLE DETAILS			
Monitoring For	Ambient Air Quality Monitoring.				
Sampling Location	 Near Rusa Building Near Old Sports Ground 				
Customer Ref.	Verbal Communication& By Mail Co	nfirmation.			
Sample Collected By	Sample Collected By Laboratory Chemist				
Sampling Procedure	ampling Procedure As Per Standard Method				
Sample Quantity/Packing Each Sampling Site: Sample Quantity/Packing Filter Paper (PM10): 1X3 No.(24hr.), Filter Paper (PM2.5): 1X1 No.(24hr) SO2: 30mlX6 (4hr) PVC Bottle, NO2: 30mlX6(4hr) PVC Bottle					

TEST REPORT Chemical Testing Ambient Air Quality Monitoring							
Results							
Parameter	Unit NAAQM Standard	Method Reference	Near Rusa Building	Near Old Sports Ground			
Particulate Matter (PM ₁₀₎	µg/m³	100	IS:5182(Part 23):2006	54.18	48.48		
Particulate Matter (PM _{2.5)}	µg/m³	60	UES/SAP/A/02/PM2.5:2019	23.84	20.26		
Sulphur Dioxide (SO ₂₎	µg/m³	80	IS 5182 (Part 2): 2001	8.26	9.46		
Nitrogen Dioxide (NO ₂₎	µg/m³	80	'IS 5182 (Part 6): 2006	20.48	18.24		

REMARKS: UES/SAP/A/02/PM2.5:2019: As Per CPCB Guideline

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 6 12 2019 AUTHORIZED SIGNATORY **REVIEWED BY**

-----End of the test report-----



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Name & Address Of The Customer To, THE PRINCIPAL GOVT. DUDHDHARI BAJRANG GIRLS POST- GRADUATE AUTONOMOUS COLLEGE KALIBADI CHOWK, NEHRU NAGAR, BUDHAPARA, RAIPUR (C. G.) 492001		REPORT NO	UES	UES/TR/19-20/2342		
		LAB REF NOUES/DATE OF SAMPLING09/2DATE OF RECEIPT10/2		S/19-20/W/5397 /12/2019		
				12/2019		
		DATE OF REPORT	16/12/2019		T	
		DATE OF ANALYSIS STAF		RT: 11/12/2019	END: 16/12/2019	
	SAMPLE	E DETAILS				
CUSTOMER SAMPLE ID EFFLUENT WATER		CUSTOMER REF. NO.		VERBAL COMMUNICATION& MAIL CONFIRMATION.		
SAMPLE TYPE EFFLUENT WATER		SAMPLE CONDITION AT RECEIPT		ок		
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY		CUSTOMER		
OTHERS DETAILS	SEALED	QUANTITY RECEIVED		APPROX 5 LTR.		

TEST REPORT

Chemical Testing

1.	Water			
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT
1	pH value at 25.6°C	_	IS:3025:(Part-11):1983, RA 2012	7.59
2	Total Suspended Solids	mg/l	IS:3025:(Part-17):1984, RA 2012	116.0
3	Chemical Oxygen Demand	mg/l	IS:3025:(Part-58):1988, RA 2006	28.5
4	Bio-chemical Oxygen Demand at 27°C for three day	mg/l	IS:3025:(Part-44):1989	33.6
5	Total Dissolved Solids	mg/l	IS:3025:(Part-16):1984, RA 2017	368.0
	Note: mg/lit.: milligram per Liter.			-

REMARKS:RESULTS ARE AS ABOVE

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-----End of the test report-----



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Name & Address Of The Cu.	Name & Address Of The Customer		UES/TR/19-20/2343	
		LAB REF NO	UES/19-20/W/5398	
		DATE OF SAMPLING	09/12/2019	
GRADIIATE AUT		DATE OF RECEIPT	10/12/2019	
KALIBADI CHOWK, NEHRU NAGAR, BUDHAPARA, RAIPUR (C. G.) 492001		DATE OF REPORT	16/12/2019	
		DATE OF ANALYSIS	START: 11/12/2019 END: 16/12/2019	
	SAMPLE	DETAILS		
CUSTOMER SAMPLE ID	BOREWELL WATER	CUSTOMER REF. NO. & DATE	VERBAL COMMUNICATION & MAIL CONFIRMATION.	
SAMPLE TYPE GROUND WATER		SAMPLE CONDITION AT RECEIPT	ок	
PACKING OF SAMPLE	PLASTIC BOTTLE	SAMPLE COLLECTED BY	CUSTOMER	
OTHERS DETAILS	SEALED	QUANTITY RECEIVED	APPROX 5 LTR.	

TEST REPORT Chemical Testing 1. Ground Water					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT	
1	pH value at 25.2°C	- -	IS:3025:(Part-11):1983, RA 2017	7.64	
2	Conductivity	µS/cm	IS:3025:(Part-14):1988, RA 2013	698.2	
3	Total Dissolved Solids	mg/l	IS:3025:(Part16):1984, RA 2017	423.1	
4	Chloride (as Cl ⁻)	mg/l	IS:3025:(Part-32):1988, RA 2014	64.9	
5	Total Alkalinity (as CaCO ₃)	mg/l	IS:3025:(Part-23):1986, RA 2014	98.0	
6	Total Hardness (as CaCO ₃)	mg/l	IS:3025:(Part-21):2009, RA 2014	224.0	
7	Calcium (as Ca)	mg/l	IS:3025:(Part-40):1991 RA 2014	36.4	
8	Magnesium (as Mg)	mg/l .	APHA 22 ND EDITION :3500-MG-B	24.2	
9	Turbidity	NTU	IS:3025: (Part-10):2010	0.86	

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Name & Address Of The Cu.	Name & Address Of The Customer		UES	UES/TR/19-20/2343		
THE PRINCIPAL		LAB REF NO	UES	UES/19-20/W/5398		
		DATE OF SAMPLING	09/	12/2019		
	ARI BAJRANG GIRLS PUST-	DATE OF RECEIPT	10/	12/2019		
GRADUATE AUTONOMOUS COLLEGE KALIBADI CHOWK, NEHRU NAGAR, BUDHAPARA, RAIPUR (C. G.) 492001		DATE OF REPORT	16/	12/2019		
		DATE OF ANALYSIS	START: 11/12/2019		END: 16/12/2019	
	SAMPLE	DETAILS				
CUSTOMER SAMPLE ID	BOREWELL WATER	CUSTOMER REF. NO. & DATE		VERBAL COMMUNICATION & MAIL CONFIRMATION.		
SAMPLE TYPE GROUND WATER		SAMPLE CONDITION AT RECEIPT		ОК		
PACKING OF SAMPLE PLASTIC BOTTLE		SAMPLE COLLECTED BY		CUSTOMER		
OTHERS DETAILS	SEALED	QUANTITY RECEIVED		APPROX 5 LTR.		

TEST REPORT

Chemical Testing

1. Ground Water

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	RESULT	
10	Sulphate (SO4 ²⁻)	mg/l	IS:3025:(Part-24):1986, RA 2014	42.64	
11	Fluoride (as F)	mg/l	IS:3025:(Part-60):2008, RA 2013	0.08	
12	Sodium (as Na)	mg/l	IS:3025: (Part-45):1993, RA 2003	18.6	
13	Potassium (as K)	mg/l	IS:3025:(Part-45):1993, RA 2003	2.68	
14	Iron (as Fe)	mg/l ·	IS 3025 (part 53):2003 RA 2019	0.16	
	Note: mg/lit.: milligram per Liter.				

REMARKS:RESULTS ARE AS ABOVE

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2019 REVIEWED



For ULTIMATE ENVIROLYTICAL SOLUTIONS 2019 612 AUTHORIZED SIGNATORY

End of the test report-----



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Name & Address Of The Customer To, The Principal Govt. Dudhdhari Bajrang Girls Post- Graduate Autonomous College Kalibadi Chowk, Nehru Nagar, Budhapara, Raipur (C. G.) 492001		REPORT NO LAB REF NO DATE OF SAMPLING DATE OF RECEIPT	UES/TR/19-20/2344 UES/19-20/S/5399 09/12/2019 10/12/2019	
		DATE OF REPORT	16/12/2019	
		DATE OF ANALYSIS	START: 11/12/2019	END: 16/12/2019
		SAMPLE DETAILS		
Monitoring For	Soil	·		
Sampling Location	Near Office Garden			
Customer Ref. Verbal Communication8		& By Mail Confirmation.		
Sample Collected By Laboratory Chemist				-
Sampling Procedure Manual On Soil, Plant & Water Analysis				
ample Quantity/Packing 3.0 Kg(Approx)				

TEST REPORT				
Sr. No.	Parameter	Unit Method Reference		Result
1	Moisture	%	AGRICULTURE SOIL MANUAL	8.96
2	pH Value(1.5 Aq. Extraction)	-	IS: 2720:(PART-26):1987 RA 2011	7.42
3	Conductivity(μs/cm) (1.5 Aq. Suspension)	μS/cm	IS: 14767:2000 RA 2016	158.4
4	Available Nitrogen (as N)	kg/ha	AGRICULTURE SOIL MANUAL	22.4
5	Available Phosphorus (as P)	kg/ha	AGRICULTURE SOIL MANUAL	298.0
6	Available Potassium (as K)	kg/ha	AGRICULTURE SOIL MANUAL	428.0
7	Calcuim	Meq/100g	AGRICULTURE SOIL MANUAL	2.28
8	Magnesium	Meq/100g	AGRICULTURE SOIL MANUAL	14.2
9	Organic Matter	%	AGRICULTURE SOIL MANUAL	1.28
	Texture			
10	a) Sand	%	AGRICULTURE SOIL MANUAL	16.0
10	b) Slit	%	AGRICULTURE SOIL MANUAL	58.0
	c)Clay	%	AGRICULTURE SOIL MANUAL	26.0

REMARKS: RESULTS ARE AS ABOVE

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For ULTIMATE ENVIROLYTICAL SOLUTIONS 019 2019 2 6 **REVIEWED BY AUTHORIZED SIGNATORY** End of the test report-



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Name & Address Of The Customer To,		REPORT NO.	UES/TR/19-20/2345
The Principal		LAB REF NO.	UES/19-20/N/5400-5403
Govt. Dudhdhari Bajran	g Girls Post-Graduate		46/40/2000
Autonomous College		DATE OF REPORT	16/12/2019
Kalibadi Chowk, Nehru	Nagar,	DATE OF SAMPLING	09/12/2019 TO 10/12/2019
Budhapara, Raipur (C. G.) 492001		DATE OF SAME LING	03/12/2013 10 10/12/2013
	SAMPLE	DETAILS	
MONITORING FOR	NOISE LEVEL MONITORING		
SAMPLING LOCATION	INSIDE AREA (AS DESCRIBED BEL	OW)	
CUSTOMER REF.	VERBAL COMMUNICATION & BY	MAIL CONFIRMATION.	
SAMPLE COLLECTED BY LABORATORY CHEMIST			
SAMPLING PROCEDURE MANUFACTURER'S INSTRUCTION		J	
SAMPLE QUANTITY/PACKING	NOT APPLICABLE .		

TEST REPORT					
RESULT					
LOCATION	UNIT	DAY TIME 09.12.2019	NIGHT TIME 10.12.2019	LIMIT (RESIDENTIAL ZONE)	DENTIAL ZONE)
NEAR RUSA BUILDING	dB(A)	48.6	42.6		
NEAR OLD SPORTS HALL	dB(A)	46.2	38.8	55 dB(A)	45dB(A)
NEAR MAIN BUILDING (GATE NO.01)	dB(A)	44.5	36.5		
NEAR MAIN GATE	dB(A)	50.7	43.8		

REMARKS: THE RESULTS ARE AS ABOVE.

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2019



For ULTIMATE ENVIROLYTICAL SOLUTIONS 2019 G **AUTHORIZED SIGNATORY**

--End of the test report-----

GOVT. D.B. Girl's P.G. College, Raipur GREEN AUDIT REPORT –II 2015-16 to 2019-20





Complied by

Students of M.Sc. (Botany)

Dr. Vaibhav Acharya, Dr. Neetu Harmukh

(Asst. Professor, Botany)

Prin

DAG

Principal Govt. D. BASHAG/PAG, College, PRaBul: OMbridgerteollege, RAIPUR. (Chhattlagarh)

Govt. D.B. Girl's P.G. Autonomous College, Raipur, (C.G.)

Report of Green Audit

2015-2020

Introduction:-

Biosphere is a thin layer a few hundred meters above the earth surface and a few meters below the earth surface. Green Plants are responsible to build up oxygen and reduce carbon dioxide in the biosphere. Human being is adapted to the present day condition in the biosphere. Any significant change in any or many of the parameters in the biosphere may have detrimental effect on human being. Increase in the concentration of carbon dioxide is the one such parameter causing increase in global temperature. Sequestration of carbon through green plant is the best method to reduce the concentration of carbon dioxide in the atmosphere. Therefore it is important to carry out green audit of as many places or ecosystems as possible. Present studies have been made to set as an example of green audit of the Govt. D.B. Girl's P.G. Autonomous College, Raipur.

A long term study will give an idea of dynamics of vegetation of a place as well as will provide data about carbon sequestration.

College Campus:-

The Govt. D.B.Girl's P.G.Autonomous College, Raipur is located in the middle of Raipur city adjoining to the largest pond of the city the Budha Talab (recently named Vivekanand Sarover). The college is situated in the area of 4.47 Acare. The college campus is surrounded with wall from all the sides. In the college apart from college buildings, four small gardens are situated (one in front of the office, second in front of the main college building, third one is in the old hostel and fourth is in front of Hindi, History, Dance & Music Department). Vegetation of college campus consists of both wild and cultivated plants of various habits i.e. trees, herbs, shrubs, climbers (annual and perennial),

while some plants grow on the roofs and walls of college building. Plant diversity is the maximum in the Rainy season and very less in the summer season. So many potted plants are also in the college campus and Hostel. Some potted plants are also there presented by U.G. and P.G. students of the Botany as a part of the project of *ex-situ* conservation. Trees of college campus are old to young. Phytosociological studies of vegetation were made by the students of B.Sc. IIIrd year Botany and M.Sc. Botany every year as a part of their regular practical course.

In vegetation of college economically important plants include following economically important plants:

- Non-wood forest produces (NWFPs)
- Medicinal Plants
- Ornamental and wild plants
- Aromatic Plants

The campus has elevated and sloping terrain. The campus is well protected from cattle. However, free movement of students in different other activities as sports, constructions all over the campus has hampered the growth of natural vegetation, like the listing of vegetation,

With the study of green audit the study of visiting animal, birds done by the students of zoology with the help of departmental members as the part of their course. Some migratory birds also come here regularly bats and Owl also resides here permanently on the Imli tree.

Soil:-

The underlying rock of the college campus belong to cuddapah system. Rock formation of Raipur series mainly consist of lime stone with irregular bands of shale covered by lateritic capping with yellow soil. Soil is of Matasi and Bhata type.

Methodology:-

Study for green audit on the vegetation of the college campus was started in 2009 and is being continued till date. First report was submitted in 2014 at the time of NACC 2nd Cycle.

- I. Studies of the herb layer was made with the help of square quadrate of 100 sqr.cm
- II. Complete survey was made of the shrub and trees.
- II. Photographs of the vegetation of the college campus.

Climate-

Climate of Raipur as for other parts of the country is divisible into three seasons viz. rainy, winter and summer each of about four months duration. To describe the climate of a particular area, it is customary to give the yearly or monthly means of maximum and minimum temperature and relative humidity, and the total average annual rainfall. But from an ecological point of view, these may have very little significance. Extremes of climatic conditions and their duration have a controlling effect on the distribution of plants.

Rainfall:

Average annual rainfall at Raipur is 1224.00 mm (based on data of 2015 to 2020 Most of the rainfall (>80%) occurred during rainy seasons (i.e. from June to September). November to January, March and May months are either completely dry or have experienced only very little rain.

. Temperature:

The temperature exhibit seasonal phenomena Maximum temperature was recorded in June. It decreases abruptly in July with more or less a decreasing trend till December when the lowest temperature was recorded. This is followed by an increasing trend till the maximum of May. Diurnal range of temperature is lowest during rainy season while it increases after the retreat of monsoon.

Relative humidity:

Relative humidity is one of the most important factors governing the growth of the plants as well as the decompose the dead plant parts. During July to September the maximum value of relative humidity is maintained which together with the higher temperature favour very luxuriant growth of the plants as well as a higher rate of decomposition. During winter months, a higher value of relative humidity than the summer months was obtained, but it is mainly due to lower temperature prevailing during this time. The higher value does not seem to have any influence either on the growth of the plants or the decomposition. In March, the value decreases abruptly and is maintained at a lower level throughout the summer season. However, occasional rains during this period increase the relative humidity temporarily, which is not reflected in monthly averages. This temporary increase in relative humidity has sometimes considerable influence on the revival of growth of the perennial species and favour the rapid disappearance of dead plant parts. During study period minimum monthly relative humidity was recorded in the month of May for each year. Maximum monthly relative humidity was recorded in the month of July to September every year.

Soil:

The soil type is loam and Sandy loam. The colour of the soil is reddish due to iron content. The A-I horizon farms only a few cm. of top soil, which is grey to blackish gray to brownish in colour and is very pours. It is followed by yellowish to reddish soil which become more reddish in deeper layers. This soil is generally quite soft and is rich in sexsquioxide contents. The depth of this layer may be up to 3 to 4 meters at some places. pH value of such soils are 6.0 to 6.8

OBSERVATION & RESULT:-

LIST OF PLANTS

Grasses: Family Graminae (Poaceae)

1	<i>Cynodon dactylon</i> L.	(Doob Ghans)
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2	Dactyloctenium aegyptium L.
3	Dichanthium annulatum Forssk.
4	Digitaria marginata Retz.
5	Digitaria stricta Roth.
6	Echinochloa sps. L.
7	<i>Eleusine indica</i> L.
9	Eragrostis SpsL.
8	Eragrostis tenella Walf
10	Oplimenus burmanii Gaetrn
11	Panicum trypheron Schult.
12	Setaria glauca auct.
13	Sporobolus diander Retz.

Table 2. Herb, Shrub Climber

S.No	Botanical name	Wild/Cultivated	Vernacula r name	Family
1.	Abutilon indicum L.	Wild	Kanghi	Malvaceae
2.	Acalypha indica L.	Wild	Kuppi	Euphorbiaceae
3.	Acalypha wilkesiana Mull.Arg	Cultivated		Euphorbiaceae
4.	Achyranthes aspera L.	Wild	Chirchitta	Amaranthaceae
5.	Adenium arboretum Roem & Schult	Cultivated	Desert Rose	Apocynaceae
6.	Adhatoda vasica Nees.	Cultivated	Vasak	Acanthaceae
7.	Aeruva lanata Juss. Ex Schult	Wild		Amaranthanceae
8.	Agave vivipera Roxb.	Cultivated	Sisal	Liliaceae
9.	Ageratum conyzoides L.	Wild	Koobhi	Asteraceae
10.	Alternanthera sessilis L.	Wild	Kamcher	Amaranthaceae
11.	Alysicarpus longifolius L.	Wild		Leguminosae

12.	Alysicarpus monolifer L.	Wild		Leguminosae
13.	Alysicarpus vaginalis L.	Wild		Leguminosae
14.	Amaranthus gangeticus Linn.	Cultivated	Lalbhaji	Amaranthus
15.	Amaranthus paniculatus L.	Wild	Cholai	Amaranthaceae
16.	Andrographis echioides L.	Wild	Birkubat	Acanthaceae
17.	Anisochilus carnosus Wall	Wild		Labiateae
18.	Antigonon leptopus Hook.	Wild	Coral Creeper.	Polygonaceae
19.	Argemone mexicana L.	Wild	Pilikateri	Paperveraceae
20.	Asparagus racemosus L.	Cultivated	Dashmul	Liliaceae
21.	Barleria prionitis L.	Wild	Kesraiya	Acanthaceae
22.	Biophytum sensitivum	Wild		Oxilidiaceae
23.	Blumea lacera D.C.	Wild	Kakranda	Compositae
24.	Boerhaavia diffusa L.	Wild	Punarnava	Nyctaginaceae
25.	<i>Bougainnvillea glabra</i> Comm. ex Juss.	Cultivated/Ornamental	Kagajphool	Nyctaginaceae
26.	Borreria articularis L.F.	Wild		Rubiaceae
27.	Borreria stricta L.F.	Wild	Madanghanta	Rubiaceae
28.	Bryophyllum pinnatum Kurz.	C/W	Patharchatta	Crassulaceae
29.	Calliandra brevipes Meisn.	Cultivated	Calliandra	Leguminoseae Sub Family Mimosoideae
30.	Calotropis procera R.Br.	Wild	Madar	Asclepiadaceae
31.	Canna indica L.	Cultivated	Vaijanti	Cannaceae
32.	Cassia tora L.	Wild	Charota	Leguminosae
33.	<i>Catharanthus pussilus</i> G.Don.	Cultivated	Sadabhar (White)	Apocynaceae
34.	Catharanthus roseus G.Don.	Cultivated	Sadabhar	Apocynaceae
35.	Cleome viscosa L.	Wild	Hurhur	Capparidaceae
1				

37.	Coleus blumei Lour	Cultivated	Coleus	
				Labiatae
				(Lamiaceae)
38.	Commelina benghalensis L.	Wild	Kanchara	Commelinaceae
39.	Convolvulus arvensis. L.	Wild	Beri	Convovulaceae
40.	<i>Cordyline fruticosa</i> Goeppert	Cultivated	Cordyline	Liliaceae
41.	Cosmos bipinnatus Cav.	Cultivated	Cosmos	Compositae
42.	Crotalaria prostrata Rottl.	Wild	Sana	Leguminosae
43.	Croton sparsiflorum Morong.	Wild	Chucka	Euphorbiaceae
44.	Cyanotis cristata L.	Wild		Commelinaceae
45.	Cyperus rotundus L.	Wild	Nagarmotha	Cyperaceae
46.	Desmodium triflorum L.	Wild	Kudaliya	Leguminosae
47.	Dracena sps. L.	Cultivated		Liliaceae
48.	Eclipta alba L.	Wild	Bhringraj	Compositae
49.	<i>Euphorbia geniculata</i> Ortega.	Wild		Euphorbiaceae
50.	Euphorbia hirta L.	Wild	Dudhi	Euphorbiaceae
51.	<i>Euphorbia microphylla</i> Heyne.	Wild	Chota kerwa	Euphorbiaceae
52.	Euphorbia roylena Boies	Cultivated	Thor	Euphorbiaceae
53.	Euphorbia tirucalli L.	Cultivated	Sehund	Euphorbiaceae
54.	Evolvulus alsinoides L.	Wild	Shankhpushpi	Convolvulaceae
55.	Gomphrena celosioides Mort.	Wild		Amarantaceae
56.	Heliotropium indicum L.	Wild	Hathajuri	Boraginaceae
57.	Hemelia patens sps. L.	Cultivated		Rubiaceae
58.	Hibiscus rosa-sinensis L.	Cultivated	Gudhal	Malvaceae
59.	Hyptis suaveolens L.	Wild	Jangli Tulsi	Labiateae
60.	Indigofera linifolia L.F.	Wild	Torki	Leguminosae
61.	Ipomoea pes-tigridis L.	Wild	Bailapadoi	Convovulaceae
62.	Ixora coccinia L.	Cultivated	Rukhmani	Rubiaceae
63.	Kyllinga biceps L.	Wild		Cyperaceae
64.	Kyllinga triceps Rottb.	Wild		Cyperaceae
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65.	Lagascea mollis Cav.	Wild		Compositae
66.	Lawsonia inermis L.	Wild	Mehndi	Lythraceae
67.	Lantana camara L.	Wild	Raimunia	Verbenaceae
68.	Launaea nudicaulis auct.	Wild		Asteraceae
69.	Leportea interrupta	Wild	Utigun	Urticaceae
70.	Leucas aspera L.	Wild	Chota halkusa	Labiatae (Lamiaceae)
71.	Martynia diandra Gloxin.	Wild	Bichchhu	Pedaliaceae
72.	<i>Merremia emarginata</i> Burm.f.	Wild	Muskaine	Convolvulaceae
73.	Mimosa pudica L.	Wild	Chuimui	Mimosaceae
74.	Mirabilis jalapa L.	C/ Wild	Gulabbas	Nyctanginaceae
75.	Mollugo stricta L.	Wild	Khetpapara	Molluginaceae
76.	Murraya paniculata L.	Cultivated	Madhukamini	Rutaceae
77.	Ocimum americanum L.	Wild	Memri	Labiatae (Lamiaceae)
78.	Ocimum klimendeshchericum L	Wild	Dauna	Labiatae (Lamiaceae)
79.	Ocimum sanctum L.	Wild	Tulsi	Labiatae (Lamiaceae)
80.	Oldenlandia corymbosa L.	Wild		Rubiaceae
81.	Oxalis corniculata L.	Wild	Khatti buti	Oxalidaceae
82.	Parthenium hysterophosus L.	Wild	Gajar ghas	Compositae
83.	Peristrophe bicalycalata Retz.	Wild	Atrilal	Acanthaceae
84.	Phyllanthus acidus Skeels	Wild	Jarmala	Euphorbiaceae
85.	Phyllanthus niruri auct.	Wild	Bhui amla	Euphorbiaceae
86.	Plumeria pudica Jacq.	Cultivated	Nagchampa	Apocynaceae
87.	Plumeria rubra L.	Cultivated	Champa	Apocynaceae
88.	Poinsettia pulcherima Willd.	Cultivated	White	Euphorbiaceae
89.	Psorelea corlyfolia L.	Wild	Babchai	Papilionaceae

90.	Quisqualis indica L.	Cultivated	Madhumalti	Combretaceae
91.	Rhynchosia minima D.C	Wild		Leguminosae Sub Family Papilionoideae
92.	Ruellia prostrata Poir.	Wild	Mundichot	Acanthaceae
93.	Ruellia tuberosa L.	Wild	Mundichot	Acanthaceae
94.	Rungia repens L.	Wild	Kharmor	Acanthaceae
95.	Russelia coccinea Welts	Cultivated		Sarphulariaceae
96.	Scoparia dulcis L.	Wild	Vishnujadi	Scrophulariaceae
97.	Sida acuta Burm.f.	Wild	Bariera	Malvaceae
98.	Sida cordifolia L.	Wild	Bala	Malvaceae
99.	Solanum nigrum L.	Wild	Makoi	Solanaceae
100.	Solanum xanthocarpum Schrad	Wild	Bhaskatia	Solanaceae
101.	Sonchus arvensis auct.	Wild	Sahdevi Badi	Compositae
102.	Tegetus erectus L.	Cultivated	Genda	Compositae
103.	Tegetus petula L.	W/Cultivated	Chandeni Genda	Compositae
104.	Tinospora cordifolia L.	Cultivated	Giloy	Menispermaceae
105.	<i>Trichodesma zeylanicum</i> Burm.f.	Wild	Tarmuriya	Boranginaceae
106.	Trichosanthes palmata L.	Wild	Indrayan	Cucurbitaceae
107.	Tridax procumbens L.	Wild		Compositae
108.	Vandellia bracteata L.	Wild		Scrophulariacea e
109.	Verbena Sps. L.	Cultivated		Verbenaceae
110.	Vernonia cinerea L.	Wild	Sahdevi	Compositae
111.	Xanthium strumarium L.	Wild	Gokharu	Compositae
112.	Zerbera jamesanii Hooker.	Cultivated	Zerbera	Compositae
113.	Zornia gibbosa Span.	Wild	Roonkari	Leguminosae

3. Trees

S.No	Botanical name	W/C	Vernacular	Family
			Name	
1	Acacia arabica F.	Wild	Babool	Leguminosae (Sub-
				family Mimosoideae)
2	Acacia biglandolosa Roxb.	Wild	Parkiya	Leguminosae (Sub-
				family Mimosoideae)
3	Aegle marmelos L.	Wild	Bel	Rutaceae
4	Ailanthus excelsa Roxb.	Wild	Maha neem	Simaroubaceae
5	Albizia procera Roxb.	Wild	Shiris	Leguminosae
6	Alstonia scolaris L.	Cultivated	Chhatim	Apocynaceae
7	Azadirachta indica A.Juss	Cultivated	Neem	Meliaceae
8	Annona squamosa L.	Cultivated	Sitaphal	Annonaceae
9	Bauhinia purpurea L.	Wild	Kachnar	Leguminosae
10	Bombax malabaricum L.	C/ Wild	Semal	Bombaceae
11	Cassia fistula L.	C/ Wild	Amaltas	Leguminosae
12	Caesalpinia pulcherrima L.	C/ Wild	Krishnachura	Leguminosae
13	Calotropis gigantea L.	Wild	Madar	Asclepiadaceae
14	Carica papaya L.	Cultivated	Papita	Caricaceae
15	Dalbergia sissoo Roxb.	Cultivated	Shisham	Leguminosae
16	Delonix regia Raf.	Planted	Gulmohar	Leguminosae
17	Eucalyptus lanceolatus L.	Planted	Nilgiri	Myrtaceae
18	Ficus benghalensis L.	Planted	Bargad	Moraceae
19	Ficus religiosa L.	Planted	Peepal	Moraceae
20	Ficus virens Ait.	Planted	Gasti	Moraceae
21	Lagerstroemia speciosa auct.	Planted	Jharul	Lythraceae
22	Mitragyna parvifolia L.	Planted	Mundi	Rubiaceae
23	Mangifera indica L.	Planted	Aam	Anacardiaceae
24	Millingtonia hortensis L.	Planted	Neemchameli	Bignoniaceae

25	Nyctanthes arbor-tristis L.	Planted	Parijat	Oleaceae
26	<i>Peltophorum ferrugineum</i> Benth.	Planted	Copper pod	Leguminosae
27	Pithocelobium dulce L.	Wild	Gangaimli	Leguminosae
28	Polyalthea longifolia L.	Planted	Druping Ashok	Leguminosae
29	Pongamia pinnata L.	Planted	Karanj	Leguminosae
30	Phyllanthus emblica L.	Planted	Amla	Euphorbiaceae
31	Psidium guajava L.	Planted	Amrud	Myrtaceae
32	Sapindus trifoliatus Hiern.	Planted	Reetha	Sapindaceae
33	Semaruba glauca DC.	Planted	Laxmitru	Semarubaceae
34	Spathoda companalata L.	Planted	Jaimangal	Bignoniaceae
35	Sterculia foietida DC.	Planted		Sterculiaceae
36	Syzygium jambolena L.	Planted	Jamun	Myrtaceae
37	Tamarindus indica L.	Wild	Imli	Leguminosae
38	Tecoma stans L.	Planted	Tecoma	Bignoniaceae
39	Ziziphus zujube Lamk.	Wild	Ber	Rhamnaceae
40	Ziziphus mauritiana Lamk.	Wild	Jharberi	Rhamnaceae

Other Plant Group:

Aquatic Plants:

1.Pistia Sps 2.Hydrilla vercililata

S. No	Bryophytes	Pteridophytes	Gymnosperms
1.	Funaria sps	Adiantum sps	Cycas sps
2.	Cythodium sps.	Nephrolepis sps	Araucaria sps.
3.	Riccia Sps	<i>Pteri</i> sSps	Juniperus sps
4			Thuja occidentalis
5			Zemia floribunda

Gynoderma leucidum on old tree trunks

No. of Plant Species recorded under, grasses, herb, shrub and tree were Grasses-13, Herbs & Shrubs- 113, Trees- 40

SN	YEAR	NO. OF POTTED PLANTS
1	2015-16	90
2	2016-17	170
3	2017-18	190
4	2018-19	300
5	2019-20	300

Potted plants in college campus and hostel:

Observation and Results of Green Audit:-

Table: Herb layer biomass (Dry weight g/m^2) in rainy, winter & summer season.

S. No	Year	Month			
		August	November	April	
1	2015-16	265.8g/m ²	211g/m^2	158g/m ²	
2	2016-17	374.6g/m^2	238g/m ²	164.2g/m^2	
3	2017-18	345.4g/m ²	234.0g/m ²	155.0g/m ²	
4	2018-19	370.56.4g/m ²	237.0g/m ²	164.4.0g/m ²	
5	2019-20	380.2g/m ²	241.0g/m ²	170.4g/m ²	

Herb Layer Biomass is calculated by the students of M.Sc. Botany during their part of botany ecology practical, every year.

1.Grasses & Herbs-

No. of grasses are 13 and herb shrubs and climbers 112, Trees 41

- The site shows variation in number of plant sps. of grasses and herbs in three different seasons, mainly, rainy, winter and summer.
- It was observed that the no.of sps. grasses and herbs exhibite a trend rainy < winter< summer.
- In rainy season herbs are more in number than the grasses. The same trend was observed in the winter and summer season also. However during the summer the grasses were almost negligible.

• .

1- Shrubs:-

- Perennial plants sps. in the category of shrubs are.18 in number.
- Shrubs are located in the garden and few are growing wildly.
- Most of the shrubs are bushy in nature, their height ranges from 3.5 feet to 5.5 feet.
- Garden shrubs are grow for ornamental and for the Botany Practical purpose.
- 2- Trees:-

- The campus has84.no. of tree sps.
- In all 84 trees are identified which to belongs to 41. no. of sps.
- The average age of trees is 5-40 years.
- Identifications of plants done with the flora.
- Herbarium and photographs of the vegetation of college campus done.
- Name plats of the Botanical names, family with their vernacular names, tagged on each tree of college campus.
- Flexes of the vegetation prepared by the deptt. with the red cross society of the college.
- 1st list of the vegetation submitted by the students of M.Sc. Botany 2009-10 during their project.
- Green Audit report 1 up to the 2014 has been submitted in NACC Visit.
- During the survey of animals approximate 31 animals reported.
 LIST OF VERTEBRATES AND INVERTEBRATES FOUND IN THE CAMPUS Following study was carried out by M.Sc. Zoology students from the Year 2015-2020

S.NO.	COMMON NAME	ZOOLOGICAL NAME	VERTEBRATE/ INVERTEBRATE		
Α		MAMMALS			
1.	DOG	Canis familiaris	VERTEBRATE		
2.	CAT	Felis catus	VERTEBRATE		
3.	BLACK RAT	Rattus rattus	VERTEBRATE		
4.	BAT	Pteropus	VERTEBRATE		
5.	SQUIRREL	Funambulus palmarus	VERTEBRATE		
В		BIRDS			
6.	PARROT	Psittacula	VERTEBRATE		
7.	SPARROW	Passer domesticus	VERTEBRATE		
8.	СИСКОО	Eudynamys scolopaceus	VERTEBRATE		
9.	CROW	Corvus splendens	VERTEBRATE		
10.	EAGLE	Clanga hastata	VERTEBRATE		
11.	OWL	Bubo bengalensis	VERTEBRATE		
12.	HEN	Gallus gallus domesticus	VERTEBRATE		
13.	PIGEON	Columba livia	VERTEBRATE		
	GREY HERON				
	(Seasonal				
14.	migratory bird)	Ardea cinerea	VERTEBRATE		
	LITTLE EGRET				
	(Seasonal				
15.	migratory bird)	Egretta garzetta	VERTEBRATE		
С	REPTILES				
16.	LIZARD	Hemidetylus frenatus	VERTEBRATE		
17.	COBRA	Naja naja	VERTEBRATE		
18.	KRAIT	Bungarus	VERTEBRATE		
D		INSECTS			
19.	ANT	Formica rufa	INVERTEBRATE		
20.	MOSQUITOES	i)Anopheles	INVERTEBRATE		

		ii)Culex	
		iii)Aedes	
21.	SPIDER	Parasteatoda tepidariorum	INVERTEBRATE
22.	COCKROACH	Periplaneta americana	INVERTEBRATE
23.	BUTTERFLY	Danaus plexippus	INVERTEBRATE
24.	HONEY BEE	Apis indica	INVERTEBRATE
25.	HOUSEFLY	Musca domestica	INVERTEBRATE
26.	FRUITFLY	Drosophila melanogaster	INVERTEBRATE
27.	GRASS HOPPER	Melanoplus differentialis	INVERTEBRATE
28.	WASP	Ropalidia marginata	INVERTEBRATE
29.	TERMITE	Coptotermes formosanus	INVERTEBRATE
	FLEAS	Xenopsylla	INVERTEBRATE
30.			
31.	BEETLES	Heterorrhina elegans	INVERTEBRATE

Conclusion:

Most of the area of the college campus under in the constricted area of college building, sport complex and sport ground. So greenery can increase only by increasing in the number of potted plants and indoor plants, climbers.

The open area of the college campus is 6048.38 sq. M on which vegetation is found. Apart from open area, so many potted plants are also in Botany deptt., College campus, in hostel

- Greenery can be improved within the college campus to keep one potted plant on every 10 feet.
- A ecofriendly seminar hall propose to make in front of the terrace of Botany deptt.
- Present seminar hall and auditorium can be make eco friendly by keeping potted plants including perennial climbers like species of *Pothos*, indoor plants.
- Plantation programmes have been organising every year.
- Potted plants are submitted by students of B.Sc II And III year bio and M.Sc botany from this year with their projects.
- The plants not only synthesise the carbohydrate with this, they gave fresh air by produce Oxygen as by product of photosynthesis

with this they control the pollution absorb the sound and give aesthetic sense and do bio-air conditioning.

Future Planning -

- Green audit will be done regularly with updating the list of vegetation of college campus and surroundings.
- In future Botany Department will start the consultancy for green audit and plant Identification.

Actually the Green Audit is to express the most important role of plants for the survival of Biosphere.



Principal Govt. D. B**/GI/C/P/4G**, College, Raput, Omininger College RAIPUR, (Chhottingarh)

Vegetation of College Campus









81.6366874° Altitude 234 meters Saturday, 03-04-2021

21.2329856°

Local 01:46:56 PM GMT 08:16:56 AM 21.232659° Local 12:33:17 PM GMT 07:03:17 AM 81.6365668° Altitude 233.8 meters

Thursday, 18-03-2021

















7.1.6 1. Green audit

2. Energy audit

Department of Physics



2019-2020

SUBMITTED IN PARTIAL FULFILLMENT OF

REQUIRMENT FOR THE MASTER DEGREE

OF SCIENCE IN (PHYSICS)

PROJECT WORK

ON

"ENERGY AUDIT"

GUIDED BY

Dr. Ragini Pandey

Department of physics

SUBMITTED BY

Roll no. 16524

Principal BASINCIPAL College, P. OHISABBUTCOILege . (Chhatilsearh

Today the energy consumption of every country are increased very sharply. In all sector energy is very much important for country economy. The energy demand is increasing very



Varsha soni

fast with the development of society. The prices and demand of energy is increasing with time so to control the price and demand a more effective and sustainable energy system becomes necessary. The aim of this project is to make an energy survey of the college campus, evaluating different sources of energy supply and losses in the campus.

An energy audit is a study to determine how and where energy is used and to identify methods for energy savings. There is now a universal recognition of the fact that new technologies and much greater use of some that already exist provide the most hopeful prospects for the future. The opportunities lie in the use of existing renewable energy technologies, greater efforts at energy efficiency and the dissemination of these technologies and options.

This energy audit of the Govt. D.B.Girls P.G.Autonomous College is carried out by the student of M.Sc.(IV) semester, Physics every year since 2018. This report is just one step, a mere mile marker towards our destination of achieving energy efficiency and we would like to emphasize that an energy audit is a continuous process. We have compiled a list of possible action to conserve and efficiently utilize our scarce resources and identified their saving potential. The next step would be to prioritize their implementation. We look forward with optimism that the institute authorities, staff and student shall ensure the maximum execution of the recommendation and the success of this work. Energy auditing in an integral part of energy conservation and energy management is also part and parallel of conservation ... The next generation yet to come will be completely light blind in absence of electrical energy. To avoid the energy calamity proposed auditing report use the innovative energy utilization scheme

INPUT

Source	Tube	Fan	CFL	Computer	printer	AC	Refrigerator
	Light						

Load in watt	20	50	10	100	350	3500	150
No of equipment	545	408	97	129	48	7	5
Per day consumption (5hr)	545	102	4.85	38.7	50.4	122.5	18
Per month consumption (22days)	1199	2244	106.7	851.4	1108.8	2695	540
Per year consumption (244days)	13298	24888	1183.4	9442.8	12297.6	29890	6570
Bill per month Rs.	9532.05	17839.8	848.265	6768.63	8814.96	21425.25	4293
Bill per year Rs.	105919.1	141826.41	6743.706	53810.60	70078.93	170330.73	34129.35

RESULT AND DISCUSSION

As far concerning the energy audit, electricity audit is main concerning regarding educational institution . we have collected data by considering the tube light , fan , computer

, AC miscellaneous in college most of the energy required for miscellaneous which is31.045% out of total energy . AC utilized 30.81% printers required 12.1% computer required 9.7% fan required 25.6% tube light required 13.7%

Below the diagram shows the contribution 0f tube light, fan, PC,AC, printer and miscellaneous in total use of energy.



Figure- Contribution of tube light ,AC, fan ,PC, printer, miscellaneou

TOTAL UNIT COST UTILIZED BY COLLEGE AND COST IN RUPEE ALL DATA COLLECT IN BETWEEN APRIL 2019 TO 2020

Aonth	Meter no. 100604604	bill	Meter no. 1000604605	bill	Meter no.1000604539	bill	Total unit	Bill
April	1850	14830	2435	18920	4120	33020	8405	66770
May	750	10550	2586	20270	1790	22840	5126	57470
June	1810	18700	3000	20300	3675	36890	8485	75890
July	1650	14650	2420	23150	3106	32650	7176	70450
Aug	1410	15820	3460	32610	3610	37000	8480	85430
Sep	2050	21140	3240	31010	4330	42620	9620	94770
Oct	1550	17220	5170	47270	4250	42070	10970	106560

Nov	760	10680	3270	31238	2717	30060	6747	71987
Dec	705	10740	2960	28650	2620	30250	6285	69640
Jan	1209	13150	2868	27890	2870	32320	6947	73360
Feb	1600	12750	2830	26310	2750	30300	7180	69360
Aarch	2170	17100	5027	39970	6060	48160	13257	105230
April	1677	13310	2510	19950	2601	20800	6788	54060

ENERGY SAVING CALCULATION

Cost Analysis of LED light with Conventional tub light.

- Total no. of conventional tube light in campus = 351
 - Conventional tube light average power = 40W
 - LED tube light average power = 20W
- Difference in power saved per tube =(40-20)W=20W
 - Total power saving =351*20W=7020W=7.02kw
 - Average use of tube light per year =244*5h=1220h
 - Energy saved per year =7.02*1220=8564.4kwh
 - Per year saving =8564.4*7.95= Rs. 68086.98
 - New LED light average cost = Rs. 450
- Total cost of replacing all conventional tube light =351*450=Rs. 157950

Cost analysis of new fan with old fan

• Total no. of old fan in campus =110

- old fan average power =75W
- new fan average power=50W
- Difference in power saved per fan =(75-50)W=25W
 - Total power saving 110*50W=5500W=5.5kw
 - Average use of fan per year =244*5h=1220h
 - Energy saved per year =5.5*1220kWh=6710kwh
 - Per year saving=6710*7.95=Rs53,344.5
 - New fan average cost = Rs.1345
- Total cost of replacing all old fan =110*1345=Rs. 147,950

Replacing of CRT monitor with LCD monitor

In the college campus computer with CRT monitor are 97 in numbers and the power consumption of CRT monitor are 520W which is very large. The power consumption of LCD monitor is 250W so the difference between CRT monitor and LCD monitor is large but LCD monitor is costlier than CRT monitor this saving of 250W per computer is very large.

LCD monitor cost analysis with CRT monitors

- total no. of computer with CRT monitor =97
 - CRT monitor average power = 520W
 - LCD monitor average power = 250W
- Difference in power saved per monitor = (520-250)W=270W
 - Total power saving =97*270W=26190W=26.19kw
 - Average use of monitor per year =5*244=1220h
- Energy saving by monitor per year =26.19*1220=31951.8kwh
 - Saving in rupee per year =31951.8*7.95=Rs.254016.81
 - Cost for replacing monitor =Rs. 4500
 - Total cost of replacing monitor =97*4500=Rs. 436500



Principal Govt D. B. ALACIPAL College. P. OHER BORT PALLA

Govt. D.B. Girls P.G.Autonomous College, Raipur



Nature Club of College

Members of Nature Club



Dr. Manisha Mishra Professor & Head Chemistry Department Convener- Nature Club



Dr. Vaibhav Aacharya

Asstt.Professor –Botany Deptt. Co- convener- Nature Club



Dr. Aruna Shrivastava

Asst. Professor-Botany Department Member- Nature Club Nature club was established in the year 2004 to develop the awareness of nature and self health amongst the students of the college

Motto: Conserve and Preserve

- To focus on conservation & sustenance of natural resources.
- Controlled use of electricity and water.
- Cleanliness of college campus.
- Health awareness programmes for students.

Mission

To love and respect the nature, "All living" and "non-living".

Vision

"Living in healthy environment is our birth right." This vision can be turned into reality only by spreading the message of nature conservation and health awareness through mass education. Here we have tried to inculcate this.

OBJECTIVES OF NATURE CLUB

- > To motivate the youth for environmental awareness.
- Environmental conservation of natural resources i.e. controlled use of water and electricity.
- To promote development of plantation of trees, home garden and Kitchen garden.
- Use of biodegradable materials in day to day life and minimum use of non-biodegradable things.
- To encourage students for use of plants as gift in place of buckeye.
- ➤To create awareness amongst students for their personal hygiene and health

REGULAR ACTIVITIES OF NATURE CLUB

- Plantation in college campus and nearby village kathadih
- Slogan / Essay Competition on save the earth
- Poster competition on environmental conservation.
- Group discussion on environmental conservation.
- Blood donation camp.
- Quiz competition, story and Essay writing.
- Eye testing camp.
- Health awareness programmes.

FOLLOWING ACTIVITIES ARE CONDUCTED EVERY YEAR IN COLLABORATION WITH RED CROSS SOCIETY OF COLLEGE :-

- Plantation in campus.
- Cleanliness of campus
- Awareness programmes like Lectures / discussions on -
- 1- HIV / AID
- 2- WOMEN SAFETY AND WOMEN RIGHTS
- 3- ENVIRONMENT CONSERVATION
- Essay writing , Slogan competition , Debate
- Poster making

Activities Of 2016-2017 Poster Competition on Save Earth



Activities of 2017-2018

Eye Testing camp in collaboration with medical college Date-06/10/2017



Poster competition on Save Earth Date-25/11/2017 judged by-Dr. Gurmeet Chhabra & Anvi Tiwari



Activities of 2018-2019

Awareness Programme :-**National Tobacco control** Programme Date-31/10/2018



AIDS Awareness Programme on AIDS Day 01/12/2018- Lecture by Dr. Arvind Neral & Poster competition



Coverage of AIDS awareness program







प्रत्यारोपण विशेषज्ञ की। हॉस्पिटल के रोगियों की जांच अ के साथ ही अत्याध् हॉस्पिटल में हम हॉस्पिटल में हम जिसमें छत्तीसगढ़ यूनिट शामिल है। बायोप्सी, सर्वसुवि स्कैन, डिजिटल प इस संगोष्ठी में शा डॉ. एसआर गुप्ता मेमन, डॉ आशीष



ब्लड डोनेट करने किया मोटिवेट

डिग्री गर्ल्स कॉलेज में वर्कशॉप रखी गई। यहां मेडिकल कॉलेज के माइक्रो बायोलॉजी के प्रो. डॉ अरविंद नेरल ने स्टूडेंट्स से कहा कि सोसाइटी में आप



एक ब्रांड एम्बेसडर बनकर एड्स के प्रति लोगों को अवेयर करें। एड्स के प्रति जागरूक करने की जिम्मेदारी युवाओं की भी है। उन्होंने स्टूडेंट्स को ब्लड डोनेट करने के लिए मोटिवेट भी किया।

इस दौरान पोस्टर मेकिंग, क्विज जैसे कॉम्पिटीशन रखे गए। पोस्टर मेकिंग के जरिए स्टूडेंट्स ने एड्स के प्रति लोगों को अवेयर किया। कार्यक्रम में प्रिंसिपल डॉ. रेखा पांडेय, डॉ. प्रीति शर्मा, डॉ. अरुणा श्रीवास्तव, डॉ. मनीषा मिश्रा, डॉ. वैभव आचार्या, डॉ. कल्याण रवि, डॉ. स्वप्निल कर्महे, डॉ. दीपाली राव, डॉ. नीतू हरमुख सुहित अन्य मौजूद रहे।





रावपुर | कौटिल्य सीरीज 2 दिसंब पर दी जा सकर और सी-सेट के सीरीज उन स्टूब

Poster competition on Save Earth



Awareness Lecture on **Traffic Safety rules** Dr.Dinkar and Satish Thakur (DSP) Date-06/12/2018


Lecture on Mahila suraksha Avam Yatayat suraksha



News Paper Coverage

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RAIPUR, Dec 7 A DAY-LONG workshop was organised by Government Dudhadhari Bajrang Girls' Post-Graduate (Autonomous) College Raipur and Red Cross Nature Club as part of traffic safety programme at the college campus recently. Inspector of Bhilai Police Training Institute, C Dinkar gave a lecture on traffic safety and its rules.

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Staff Reporter

ay for the welfare of the families of weithere or namines or the martyren uncered by

Three girl students, who provided assistance to the road accident victims, were honoured with medal by Bhilai Police Training Institute in the programme. Assistant Professor of Law Department, Pt Ravi Shankar Shukla University Dr Priya Ravi informed the students various

rule and laws. The workshop was held under the guidance of Principal Dr Rekha Pandey. Dr Preeti Sharma conducted the proceedings of the



The day-long workshop being conducted at Government Dudhadhari Bajrang Girls' Post-Graduate College Raipur.

programme. Dr Sraddha Girolkar, Dr Manisha Mahapatra, Dr Manisha Mishra, Dr Pushpa Tiwari, Dr Vaibhav Acharya, Dr Aruna Shrivastava, Dr Prakash Kaur Saluja, Dr Priya Dewangan, Dr Rama Sarojani, Ambika Dubey, Vibha Thakur, Vandana Sahu, faculties and students attended the workshop.

a emerge winner at State Roller Skating C'ship

Lecture on traffic safety, rules at Govt

Awareness program Lecture on –**Mahila suraksha Avam Kanoon** Speaker-Dr. Priya Rao



Quiz competition Date-11/12/2018



<u>Activities of 2019-2020</u> **Eye Testing camp & Discussion** Theme :-"Apni Drishti Apni srishti "



Plantation in primary and middle school at Kathadih with the Research & Extension Division of Forest, Professors & students were present. Date:-06/08/2019



Lecture on Social responsibilities of youth By- Dr.Arvind Neral Date-16/12/2019



Quiz competition Date-14/01/2020



Distribution of Mask by students May 2020 in covid period



Activities of 2020-2021 Lecture on AIDS Awareness by Dr. Arvind Neral, Date:-01/12/2020







कोरोना की तरह एड्स भी महामारी है, आज तक नहीं मिला सफल इलाज वर्ल्ड एड्स डे पर डॉ. कोरोना की ही तरह एक पेंडेमिक

नेरल का व्याख्यान पत्रिका न्यूज नेटवर्क

patrika.con

रायपुर. वर्ल्ड एड्स डे पर डिग्री गर्ल्स कॉलेज के रेड रिबन क्लब और रेडक्रॉस सोसायटी द्वारा मंगलवार को पंडित जवाहरलाल नेहरू मेडिकल कॉलेज के देते हुए कहा - डॉक्टर नेरल जो माइक्रोबायोलॉजी के विभागाध्यक्ष लगातार कई पुरस्कारों से सम्मानित डाँ, अरविंद नेरल के व्याख्यान का आयोजन किया गया। कॉलेज की शोध है आज छात्राओं को उनके द्वारा दकांस प्रभारी डॉ. पीति शर्मा ने सही मार्गदर्शन प्राप्त होगा



हैं और जिनका इस क्षेत्र में व्यापक

बीमारी है। पहले यह केवल समलैंगिक पुरुषों में होता था, परंतु अब सभी में यह फैल रहा है और महिलाओं में इसका संक्रमण बहुत ज्यादा है। महानगरों तक सीमित रहने वाली यह बीमारी अब गांव-गांव तक फैल चुकी है। सबसे बड़ी चिंता की बात यह है कि इसका बह सफल इलाज आज तक ख जा सका है। भारत में एन जो अधिक खतरनाक है ज्यादा पाया जाता है। इससे बचने वे लिए सरक्षित यौन संबंध वन

सामान्य वर्ग व गांव-गांव तक फैला एचआईवी

रायपुर. शासकीय दूधाधारी बजरंग महिला महाविद्यालय के रेड रिबन क्लब और रेडक्रास सोसायटी द्वारा 1 दिसंबर वर्ल्ड एड्स डे पर पंडित जवाहरलाल नेहरू मेडिकल कॉलेज के माइक्रोबायोलॉजी के विभागाध्यक्ष हाँ अरविंद नेरल का व्याख्यान



है. यह भी कोरोना की ही तरह एक

Activities during Lockdown period Poster makingCompetition



Story, Essay Writing & Slogan competition

Allentary : Advantage of Leveland 201300 in the walk of Count 10 Paralence Name - SARVADA Charter Claw - Cose and year A for days ago , Noida's busite A for days ago , Noida's busite A low days ago , Noida's ago , Noida's ago , Noida's ago , Noida's busite A low days ago , Noida's ,	to theme them were on ancidet the magin of whenced been Ever Eine the Carnanius pardame struce across the Carnanius pardame struce across the globe , Sund reports have unuged hydrogram to dener of many Species to their natural habitate. The draste measure taken by gauronnets because of the Speaking of the nord commisses, and the provide the transitions, and the provide the transitions of nate produced activities, it has green proper some dime to busine. One is all of this	में सेहत हुई दंग्नें में दले कही केंग कांगी स्म किंदी जा रही हूं लेंदे केंग्रेन कही केंग कहींग मा के रहे सरवाद के रखा पा। के रूप के क मैं मैंने के बाद करने की दीरती के की वा रहे के किंसी केंद्र बाद करी की कींसी के की वा रहे के किंसी केंद्र कही रीत की कींसी के की वा रहे किंसा उन्हों गाद मनी का स्वय मजद पा। और के मुख्य कह कहर भी जा रज राग केंद्र का किं म रखे कह कहर भी जा रज राग के रक की ति म रखद रही जी। हुए ती किंसी में के स्वर्थ के रिं के उसक रही हैं, 'मैंने देवसदा पर कि फि मिं किंसा रखद रही जी हुए ती किंसी के कर की के पा के दबसे पर कोई मी कि तक की की क्रम की के पा के दबसे के स्वर्थ हुने की किंसा की किं मा 1 स्वर्म बार्ट किंसिक की भी किंसा मी के रखके मा हते करवल की भी किंसा मी के रखके मा त तक करवा के भी किंसा मी के रखके मा त तक के स्वर्भ कर की के को के की की की की	- रहागन- * राष्ट्री निर्णय की है यह बारी वरना हो जारणा करिना हमप्र भारी" * आओ मिलकर रुक्ता दिखारुँ नियमों की मानकर कीरेना झगारें॥ * "धर में रही. बाहर कीरेना है ! स्व मिल राष्य रहेंगे	(+) (3) (9) (10) (11) (12) (13)	अरुवा 144म का कर कर गयात. कमी न देंगे जाप फेराजा। खुरहित कर्म है कर्तरप रगया, खुरहित जीवन के जुड़ा हे पविवर स्मर खुरहित जीवन के जुड़ा हे पविवर स्मर खुरहित जीवन का जार्बर तीलिये। कार्य में तरेगे खुरशा, ते होती रगरी खुरशा। हर दिन, खुरहित रहे, ठीवेग के क्वें, खाख़ो हम भी व्याय दें दाखे देवा के छविया का क्वेंग्री ते का मैं कोई। तेमसी टोट्ड, खावफ का शेड.
Lockdown is allo providing profect lonation for Olive realing twetter to lay eggs in Orders's Janimaria brain Cannot Countries have tightend them boarder, head from home' and board distancing' have become the have tracked from home' and aboar, here is a science the have tracked on good gloom and aboar, there is a science lineing Motion tarter burns to have rejeveness italy Soneg has glown used to blue social and policition burns have alloged and policition to be blue	they a temperary inequ? At Consume is Aprioding around the wood, muc people au still conjust to their people au still conjust to their homes. Stewer and office home here but for weeks now here some have but to under now here some have but to under any buck and the desting the some have built to buckdown. These something to cam their any buck and the desting of a state in the some have been some the something in the some have been so and the people have been the some the something and the something to some the something in the some the some the some the something is and the some the something to some the some and the something to some the something and some the some the something to some the some and the something the something the some and the something the something the something and something the something the something the some and the something the something the something the something are some the something the something the something are some the something the something the something are some and the something the something the something are something the something the something and something are something the something the something the something are something the something the something the something are something the something the something and something are something the something the something and something are something the something the something and the something the	म किसे के बस्ता तरी भी की की कर केस का करने बरका तरी भी की की कर केस का तर मा। तो से कि देन तर ते में किन के की की नहीं की किस की की की में की की की नहीं न बरी किस की की की में की की की नहीं न करने कि किस की की की में कि का नहीं की किस की की की में की का निकार की नहीं की किस की की की में की का निकार की नहीं की किस की की की में की का निकार की नहीं की किस की की की में की का निकार की नहीं की किस की की की में की का निकार की नहीं की किस की की की की की की की की की की की का महाना की की की की की की की की की की की की इस नहीं की की की की की की की की की इस नहीं की की की की की की की की की कि नी के नहीं की की की की की की की के नहीं की क	My Responsibility As a Citizen Daving Laddown! Name - Supposibility Class - Barnet Satur Subjet - Matter (PCN) (1) - नेवे इस पित खुद्धा है। पिता खोर, नेवेर्य से बुद्धा है। पिता खोरी, द्वर से करे द्वर पित्रमा छोरी, द्वर से करे द्वर द्वरमा ! (3) जो खुरहा से देखी रहे का ! (4) ही खुरहा में उपनी मल्द, तो ही जेवर पिर उपर जीवन बहाता, तो खुरहा के नियों के जपता ! (5) ही बहती पर उपर जीवन बहाता, तो खुरहा के नियों के जपता !		कोगेना को कुम्ना है पर्वन केछ । बार पर रहें, जीवन बरोधे । म सबसे बार्ग । म सबसे के मान सबसे मान सबसे के मान सब के मान सकत

Fire Safety Training:- Date :-06/04/2021 Every year fire safety training is given to students , teachers and office staff in collaboration with Red Cross Society. RRC has installed 11 fire fighting systems in the year2013-14 in our college corridor, and are refilled every year.





रायपुर, दिनांक २5 / 11 / 2016

ः सूचनाः

समस्त प्राध्यापकों एवं छात्राओं को सूचित किया जाता है कि महाविद्यालय के वार्षिक उत्सव के अंतर्गत निम्नलिखित विभिन्न प्रतियोगिताओं का आयोजन दिनांक 01.12.2016 से 03.12.2016 को किया जा रहा है। अतः प्रतियोगिताओं में भाग लेने की इच्छुक छात्राएँ सम्बंधित प्रभारी प्राध्यापकों से संपर्क करें।

विशेष टीपः—संयोजकों से निवेदन है कि प्रतियोगियों के परिणाम निर्धारित प्रपत्र में डॉ. शिप्रा बेनर्जी से लेकर दो प्रतियों में भरकर एक प्रति डॉ. अभया जोगलेकर/ डॉ. शिप्रा बेनर्जी एवं एक प्रति पुरस्कार समिति संयोजक डॉ. मधु श्रीवास्तव के पास जमा करेंगे।

क्र.	प्रतियोगिता का नाम	समय	संयोजक	सदस्य
1	वाद–विवाद	11.00 बजे	डॉ. प्रीति शर्मा	डॉ. रितु मरवाह
1.		12-Ja	र्डा॰ भीला भ्रीधार	डॉ. रश्मि सेन गुप्ता
2	तात्कालिक भाषण	12.00 बर्ज	डॉ. अनुभा झा	डॉ. जया तिवारी
2.		ل	में पर्या तिवाय	डॉ. प्रीति कंसारा
3.	प्रश्न मंच	1.00 बजे	डॉ. माया शेदपुरे	डॉ. रागिनी पाण्डे
			h Children	डॉ. अलका वर्मा
4.	ग्रीटिंग कार्ड	2.00 बजे 🖉	डॉॅं. रश्मि मिंज) डॉ. माया ठाकुर 🔨
5	एकल / समह गान	3.00 बजे	डॉ. व्ही.व्ही. जोशी	डॉ. पुष्पा तिवारी
5.				डॉ. शम्पा चौबे
1				

दिनांक 01.12.2016

डॉ. सविता मिश्रा छात्रसंघ प्रभारी

हारिद्यालय शा. दू.ब. महिलक

रायपुर (छ.ग.)

कार्यालय प्राचार्य, शासकीय दू.ब. महिला स्नातकोत्तर महाविद्यालय, कालीबाड़ी चौक, रायपुर (छ.ग.) Ph/Fax 0771-2229248, E-Mail: dbgirls@yahoo.co.in

रायपुर, दिनांक १५ / ११ / २०१६

:: सूचना ...

दिनांक 02.12.2016

क्र.	प्रतियोगिता का नाम	समय	संयोजक	सदस्य
1.	पाक–कला	11.00 बजे	डॉ. प्रकाश सलूजा	डॉ. साधना दीक्षित
	मीठा / नमकीन		×	डॉ. रशिम दुबे
2.	सलाद–सज्जा	12.30 बजे	डॉ. ऋचा शर्मा	डॉ. कल्याण रवि
				ड्वॅ. विनीता साहू
3.	थाली–सज्जा	2.30 बजे	डॉ. सीमा खान	डॉ. कल्पना पॉल
			Jul 30-11-16	डॉ. दीपा श्रीवास्तव
4.	पुष्प सज्जा	3.30 बजे	डॉ. वैभव आचार्य	डॉ. रमा सरोजनी
			Helyer	डॉ. ब्यूला एम. लाल

डॉ. सविता मिश्रा

छात्रसंघ प्रभारी

too thoust of P. G. College शा. दूब. महिला रैनीतिकोत्तिर महामेविद्यालय रायपुर (छ.ग.)

कार्यालय प्राचार्य, शासकीय दू.ब. महिला स्नातकोत्तर महाविद्यालय, कालीबाड़ी चौक, रायपुर (छ.ग.) Ph/Fax 0771-2229248, E-Mail: dbgirls@yahoo.co.in

रायपुर, दिनांक 25/11/2016

ः सूचनाः

दिनांक 03.12.2016

क्र.	प्रतियोगिता का नाम	समय	संयोजक	सदस्य
1.	मेंहदी प्रतियोगिता	11.00 बजे	.डॉ. मनीषा महापात्र	ভাঁ. उज्जवला सिंह
		ןי		डॉ. उमा गुप्ता
2	अल्पना प्रतियोगिता	12.00 बजे	सुश्री मंजू श्रीवास्तव	डॉ. अनीता दीक्षित
2.			MJ 2-16 30-11-76	डॉ. अलका तिवारी
3	रंगोली प्रतियोगिता	1.00 बजे	डॉ. वासु वर्मा	डॉ. किरण देवांगन
5.			J.Ver	डॉ. कल्पना मिश्रा
1	हेयर स्टाइल	2.00 बजे	डॉ. प्रेमलता तिवारी	डॉ. दीपा श्रीवास्तव
4.			· tv	डॉ. रितु मरवाह
5	एकल / समह नत्य	3.00 बजे	डॉ. पुष्पा तिवारी	डॉ. शम्पा चौबे 🕼
5.	STY & C			डॉ. स्वप्निल कर्महे
				-

डाँ. सविता मिश्रा छात्रसंघ प्रभारी

Job Hundben Job Mindben Job Mindben

शा. दूब. महिली क्रीजिस विद्वार महिली का विद्यालय रायपुर (छ.ग.)

रायपुर, दिनांक *5/11/2016

ः सूचना ः

वार्षिक प्रतिभा सम्मान समारोह 2016—17 के बाबत् विभिन्न विभागों द्वारा सन्न 2016 की उपलब्धियों का प्रतिवेदन दिनांक 05.12.2016 तक डॉ. अभया जोगलेकर/डॉ. शिप्रा बेनर्जी के पास जमा करें।

विशेष टीप :– निजी पुरस्कार पूर्व वर्षों की भाँति इस वर्ष भी आपका उदार सहयोग अपेक्षित है। पुरस्कार राशि/मेडल पुरस्कार समिति संयोजक डॉ. मधु श्रीवास्तव के पास जमा करें।

र्डी. सविता मिश्रा

छात्रसंघ प्रभारी

शा. दू.ब. महिल रायपुर (छ.ग.)

शासकीय दू.ब. महिला स्नातकोत्तर महाविद्यालय कालीबाड़ी चौक, रायपुर (छ.ग.) 492 001 Ph./Fax;0771-2229248,E-Mail:dbgirls@yahoo.co.in प्रतियोगिता का नाम Cooking (Salty clish) दिनांक 2 12 16 कुल योग प्रतियोगिता का नाम Ŧ. 14. Shivangi Khare 2. Khooshbu Patel Fabiha Sultang 3. Harsha Sinha To 4. Versha Janghe -5 Medini Priyanka Devi 8 Sahiba Lipika Verma 10 Pushpanjali Bhatken chesitop2 Anjali Sahy RS 12 Poonam Sharma B Roshani Khelwani TI Payal Patel .3 14. 15 Versha Dhiwan G Ekta Priajapati Omkauni Chandrake. 18 Rukmani Thatur 4.

हस्ताक्षर yHIR JIEZILYAA 1 Nr. P.K. Saluja Jal 2 Nr. R. D usey 2 Nr. R. D usey 2 Nr. Sadhra Dieil-Hisaltin

हस्ताक्षर निर्णायक मण्डल Dr Bm. Lale B

प्रतियोगिता का नाम Pakkala (Cooking Sweetdish

दिनांक 21216

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Th	m C m C	Myth tive Va	be Tosle	Presental	ad
φ.	प्रातयागिता का नाम	10	10	10	कुल योग
1	Rhooshby Chelak	7	M	oj	21
2.	Laxmi Grwal	Ч	8	67	22
3.	Lomash Patel	oj	8	67	22
4	Priyonka Agrawa	G	6	6	18
5	Fabiha Sultan	6	7	6	19
6.	Anju Baghel	6	7	6	19
7	Mansha Sinha	5	7	6	20
8	Shiwangi Kharle	- 07	07	7	21
°g	Pragyanjalishriva	15 9	8	8	(25)
10	Anita Tondon	A			<u> </u>
11	Lipika Venna	7	07	8	22
12	Pushpanjali	9	8	8	(25)
13.	Soumyakuman	i 8	8	al	23
14	Rashmi Raut	7	ort	7	2
15	Khileshcowi Verma	4 6	7	7	20
16	Priyanka Yadav	7	Ч	7	21
17	Bhart Sahy	8	7	7	22
18	Shraddha Sahy	57	б	7	21
19	Sakshi Sahy	6	7	7	20
20	Roshani Khelwani	6	6	7	19

हस्ताक्षर HIR JIEZILIA 1 No. P. K. salus Ino 2 Dr. Rashmi Daley Dr. Sadhag Dizit praint

हस्ताक्षर N. shr9 16 02.12.16 निर्णायक मण्डल 2

कार्यालय प्राचार्य,

शासकीय दू.ब. महिला स्नातकोत्तर महाविद्यालय कालीबाड़ी चौक, रायपुर (छ.ग.) Ph/Fax 0771-2229248, E-Mail: dbgirls@yahoo.co.in

रायपुर, दिनांक 🎖 / 01 / 2020

ः वार्षिकोत्सव 2019–20 सूचना ः

समस्त प्राध्यापक एवं सहायक प्राध्यापकों को सूचित किया जाता है कि महाविद्यालय के वार्षिक उत्सव 2019–20 के अंतर्गत निम्नलिखित प्रतियोगिताओं का आयोजन दिनांक 13,14,16 एवं 17 जनवरी 2020 को किया जा रहा है। अतः प्रतियोगिताओं में भाग लेने की इच्छुक छात्राएँ सम्बंधित प्रभारी प्राध्यापकों से संपर्क करें।

विशेष टीप :- संयोजकों से निवेदन है कि निर्धारित प्रपत्र <u>डॉ. नन्दा गुरूवारा</u> एवं डॉ. सरिता दुबे से लेकर निर्णय उसी प्रपत्र में भर कर अनिवार्य रूप से डॉ. कल्पना लाम्बे, डॉ. ऋचा टिकरिहा एवं डॉ. कल्पना मिश्रा के पास जमा करें।

क्र.	प्रतियोगिता का नाम	समय	संयोजक	सदस्य	
*	परिचर्चा	11.00	डॉ. मनीषा महापात्रा	डॉ. शीला श्रीधर, डॉ. हितेश कुमार देवांगन	
*	पाक–कला	11.00	डॉ. वासू वर्मा	श्रीमती अलका वर्मा, श्रीमती रेखा दीवान	
*	कविता पाठ	01.00	डॉ. के. रवि	डॉ. अलका तिवासे डॉ.कीर्ति पाण्डे,	
*	सलाद प्रतियोगिता	01.00	डॉ. अरूणा श्रीवास्तव	श्रीमती विनीता साहू डॉ. शिप्पी देवांगन	
*	वाद–विवाद	03.00	डॉ. चन्द्रज्योति श्रीवास्वत	डॉ. उज्जवला सिंह, डॉ. रूबी खिलानी	
*	पुष्प सज्जा	03.00	डॉ. शम्पा चौबे	डॉ. प्रिया देवांगन डॉ. अंकित तिवारी	
दिन	दिनांक 14.01.2020				
*	तात्कालिक भाषण	11.00	डॉ. रश्मि दूबे	श्रीमती अलका तिवारी, डॉ. प्रिया देवांगन	
•;•	ग्रिटिंग कार्ड मेकिंग	11.00	डॉ. ब्यूला मधुरिमा लाल	-डॉ. के. के. हैरिस. टिकश्वरी की ते पाळेन	
*	थाली सज्जा	01.00	डॉ. मिनी एलेक्स औ	डॉ. उमा मुप्ता, डॉ. दीपाली राव Neety Lolwan	

दिनांक 13.01.2020

D/Mahendra works/All Works/Union-2018-19

Alter	मिले का नाम	समय	संयोजक	सदस्य
क्र. *	प्रीतयागिता पर्यं गान	01.00	डॉ. सविता मिश्रा	डॉ. किरण शर्मा डॉ. कुमुदनी चंद्राकर
*	मेंहदी प्रतियोगिता	03.00	डॉ. दीपा श्रीवास्तव	डॉ. अनीता दीक्षित डॉ. दीपक
*	प्रश्न मंच	03.00	डॉ. श्रद्धा गिरोलकर	डा. प्राति शना डॉ. ज या तिवारी /
दिन	गंक 16.01.2020	-		Sta allen eretaria
*	गिफ्ट पैकिंग	11.00	डॉ. अलका तिवारी	श्रीमती किरण दवागन डॉ. शोभाराम पटेल
*	सुगम संगीत	11.00	डॉ. व्ही.व्ही. जोशी	शांतनु भट्टाचार्य अभिषेक थ्वाइत
*	एकल गान	01.00	डॉ. शीला श्रीधर	डॉ. शिप्रा बैनर्जी ऋचा ताम्रकार
*	हेयर स्टाइल	01.00	डॉ. प्रीति कंसारा	डॉ. रागिनी पाण्डे इारना साहने
*	समूह गान	03.00	डॉ. मंजू श्रीवास्तव	डॉ.अलका वर्मा पूजा झा
Ð				
<u> </u> 4•	एकल नृत्य	11.00	डॉ. स्वप्निल कर्महे	श्री शांतनु भट्टाचार्य श्री अभिषेक थ्वाइत
*	रंगोली प्रतियोगिता	11.00	डॉ. कल्पना पॉल	डॉ. निधी सोनी डॉ. प्रियंका पाएडें
*	स्पॉट पेंटींग	11.30	डॉ. सीमा खान	डॉ. प्रेमलता तिवारी डॉ. ऋतु मारवाह
*	अल्पना प्रतियोगिता	01.00	डॉ. रश्मि सेनगुप्ता	डॉ. किरण देवाँगन हेमलता साहू
***	समूह नृत्य	02.00	डॉ. शम्पा चौबे	डॉ. अनुभा झा डॉ. स्वप्निल कर्महे

without

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डॉ. वैभव आचार्य छात्रसंघु प्रसारप्रिभारी, शा.दू.व. महिला, महावि. रायपुर.

0 (डॉ. जो. ए.स.माराश्रम)G. College, Raiperi (डॉ. जो. ए.स.माराश)G. College, Raiperi प्रास.दूब.महिला स्नीतिकोत्तर महाविद्यालय राज्याज (क्रजीयापर) रायपुर (छत्तीलगढ़)

D/Mahendra works/All Works/Union-2018-19

कार्यालय प्राचार्य,

शासकीय दू.ब. महिला स्नातकोत्तर महाविद्यालय कालीबाड़ी चौक, रायपुर (छ.ग.) Ph/Fax 0771-2229248, E-Mail: dbgirls@yahoo.co.in

रायपुर, दिनांक 🎖 / 01 / 2020

ः वार्षिकोत्सव 2019–20 सूचना ः

समस्त प्राध्यापक एवं सहायक प्राध्यापकों को सूचित किया जाता है कि महाविद्यालय के वार्षिक उत्सव 2019–20 के अंतर्गत निम्नलिखित प्रतियोगिताओं का आयोजन दिनांक 13,14,16 एवं 17 जनवरी 2020 को किया जा रहा है। अतः प्रतियोगिताओं में भाग लेने की इच्छुक छात्राएँ सम्बंधित प्रभारी प्राध्यापकों से संपर्क करें।

विशेष टीप :- संयोजकों से निवेदन है कि निर्धारित प्रपत्र <u>डॉ. नन्दा गुरूवारा</u> एवं डॉ. सरिता दुबे से लेकर निर्णय उसी प्रपत्र में भर कर अनिवार्य रूप से डॉ. कल्पना लाम्बे, डॉ. ऋचा टिकरिहा एवं डॉ. कल्पना मिश्रा के पास जमा करें।

क्र.	प्रतियोगिता का नाम	समय	संयोजक	सदस्य	
*	परिचर्चा	11.00	डॉ. मनीषा महापात्रा	डॉ. शीला श्रीधर, डॉ. हितेश कुमार देवांगन	
*	पाक–कला	11.00	डॉ. वासू वर्मा	श्रीमती अलका वर्मा, श्रीमती रेखा दीवान	
*	कविता पाठ	01.00	डॉ. के. रवि	डॉ. अलका तिवासे डॉ.कीर्ति पाण्डे,	
*	सलाद प्रतियोगिता	01.00	डॉ. अरूणा श्रीवास्तव	श्रीमती विनीता साहू डॉ. शिप्पी देवांगन	
*	वाद–विवाद	03.00	डॉ. चन्द्रज्योति श्रीवास्वत	डॉ. उज्जवला सिंह, डॉ. रूबी खिलानी	
*	पुष्प सज्जा	03.00	डॉ. शम्पा चौबे	डॉ. प्रिया देवांगन डॉ. अंकित तिवारी	
दिन	दिनांक 14.01.2020				
*	तात्कालिक भाषण	11.00	डॉ. रश्मि दूबे	श्रीमती अलका तिवारी, डॉ. प्रिया देवांगन	
•;•	ग्रिटिंग कार्ड मेकिंग	11.00	डॉ. ब्यूला मधुरिमा लाल	-डॉ. के. के. हैरिस. टिकश्वरी की ते पाळेन	
*	थाली सज्जा	01.00	डॉ. मिनी एलेक्स औ	डॉ. उमा मुप्ता, डॉ. दीपाली राव Neety Lolwan	

दिनांक 13.01.2020

D/Mahendra works/All Works/Union-2018-19

Alter	मिले का नाम	समय	संयोजक	सदस्य
क्र. *	प्रीतयागिता पर्यं गान	01.00	डॉ. सविता मिश्रा	डॉ. किरण शर्मा डॉ. कुमुदनी चंद्राकर
*	मेंहदी प्रतियोगिता	03.00	डॉ. दीपा श्रीवास्तव	डॉ. अनीता दीक्षित डॉ. दीपक
*	प्रश्न मंच	03.00	डॉ. श्रद्धा गिरोलकर	डा. प्राति शना डॉ. ज या तिवारी /
दिन	गंक 16.01.2020	-		Sta allen eretaria
*	गिफ्ट पैकिंग	11.00	डॉ. अलका तिवारी	श्रीमती किरण दवागन डॉ. शोभाराम पटेल
*	सुगम संगीत	11.00	डॉ. व्ही.व्ही. जोशी	शांतनु भट्टाचार्य अभिषेक थ्वाइत
*	एकल गान	01.00	डॉ. शीला श्रीधर	डॉ. शिप्रा बैनर्जी ऋचा ताम्रकार
*	हेयर स्टाइल	01.00	डॉ. प्रीति कंसारा	डॉ. रागिनी पाण्डे इारना साहने
*	समूह गान	03.00	डॉ. मंजू श्रीवास्तव	डॉ.अलका वर्मा पूजा झा
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<u> </u> 4•	एकल नृत्य	11.00	डॉ. स्वप्निल कर्महे	श्री शांतनु भट्टाचार्य श्री अभिषेक थ्वाइत
*	रंगोली प्रतियोगिता	11.00	डॉ. कल्पना पॉल	डॉ. निधी सोनी डॉ. प्रियंका पाएडें
*	स्पॉट पेंटींग	11.30	डॉ. सीमा खान	डॉ. प्रेमलता तिवारी डॉ. ऋतु मारवाह
*	अल्पना प्रतियोगिता	01.00	डॉ. रश्मि सेनगुप्ता	डॉ. किरण देवाँगन हेमलता साह्
***	समूह नृत्य	02.00	डॉ. शम्पा चौबे	डॉ. अनुभा झा डॉ. स्वप्निल कर्महे

without

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डॉ. वैभव आचार्य छात्रसंघु प्रसारप्रिभारी, शा.दू.व. महिला, महावि. रायपुर.

0 (डॉ. जो. ए.स.माराश्रम)G. College, Raiperi (डॉ. जो. ए.स.माराश)G. College, Raiperi प्रास.दूब.महिला स्नीतिकोत्तर महाविद्यालय राज्याज (क्रजीयापर) रायपुर (छत्तीलगढ़)

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