

ENVIRONMENT AUDIT REPORT



Estd. 2018

D.B.M.S. COLLEGE OF EDUCATION

(A Unit of D.B.M.S. Trust)

Recognized by NCTE (ERC) Bhubaneswar & Affiliated to Kolhan University, Chaibasa
& Jharkhand Academic Council



“ज्योतिर्मय ज्योतिर्देहि”



Abhinav Gram Foundation: Eco-Services

An ISO : 9001 / 17020 Certified Institution

265-C, Road Number 1, Ashok Nagar, Ranchi - 834002, Jharkhand

Email: abhinavgram.jhar@gmail.com, web link: www.abhinavgram.org

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1.0 ACKNOWLEDGEMENT

Abhinav Gram Foundation – Eco-Services Green Audit Team thanks the management of **D.B.M.S. College of Education, Jamshedpur** for assigning this important Green Audit (Environmental Audit) work. We appreciate the cooperation of our team in the completion of the study.

Our special thanks to:

- President & Chairperson – Mr. B. Chandrashekhar
- Secretary & Management Member – Mrs. Sripriya Dharmarajan
- Principal & Chairperson IQAC – Dr. Joochi Samarpita
- Vice - Principal & Coordinator IQAC – Dr. Monika Uppal
- Assistant Professor & Member IQAC – Mrs. Pamela Ghosh Dutta
- Assistant Professor & Member IQAC – Mrs. Kanchan Kumari
- Assistant Professor & Member IQAC – Mrs. Poonam Kumari
- Teaching and Supporting Staff of D.B.M.S College of Education, Jamshedpur

For giving us the necessary inputs to carry out this very vital exercise of Green Audit (Environment Audit). We are also thankful to other staff members actively involved in collecting the data and conducting field measurements.



2.0 CERTIFICATE



**Certificate issued to D.B.M.S College of Education,
Jamshedpur after Green Audit**



3.0 DISCLAIMER

Abhinav Gram Foundation – Eco-Services Green Audit Team has prepared this report for **D.B.M.S. College of Education, Jamshedpur** based on input data submitted by the representatives of the College complemented with the best judgment capacity of the expert team.

It is further informed that the conclusions arrive following best estimates and no representation, warranty or undertaking, express or implied is made and no responsibility is accepted by Audit Team in this report or for any direct or consequential loss arising from any use of the information, statements or forecasts in the report.

If you wish to distribute copies of this report external to your organization, then all pages must be included.

Abhinav Gram Foundation – Eco-Services, its staff, and agents shall keep confidential all information relating to your organization and shall not disclose any such information to any third party, except that in the public domain or required by law or relevant accreditation bodies. Abhinav Gram Foundation – Eco-Services staff, agents, and accreditation bodies have signed individual confidentiality undertakings and will only receive confidential information on a 'need to know basis.



Report by: (Ram Pratap Singh), IFS Retd.

Lead Auditor

Abhinav Gram Foundation - Eco Services

An ISO : 9001 / 17020 Certified Institution

4.0 CONTEXT

We are committed as a component of Corporate Social Responsibility of the Higher Edifying Institutions to ascertain that they contribute towards the minimization of ecumenical warming through Carbon Footprint abbreviation measures.

D.B.M.S College of Education, Jamshedpur management decided to conduct an external Green Evaluation by a competent Green Auditor along with a Green Audit Assessment Team headed by Dr. Joohi Samarpita, Principal, **D.B.M.S College of Education, Jamshedpur, Jharkhand.**

Green Audit or Environment Audit focuses on the Green Campus, **Waste Management, Water Management, Air Pollution, Sound Pollution, Energy Management & Carbon Footprint**, etc. being implemented by the College Management. The concept, structure, objectives, methodology, analysis tools, and audit objectives are mentioned below.

5.0 CONCEPT

The term 'Environmental audit' or 'Green audit' means different things to different people. Terms like 'assessment', 'survey', and 'review' are also used to describe similar activities. Furthermore, some organizations / Institutions believe that an 'environmental audit' addresses only environmental matters, whereas others use the term to mean an audit of health, safety, and environment-related matters. Although there is no universal definition of Green Audit, many leading companies / institutions follow the basic philosophy and approach summarized by the broad definition adopted by the International Chambers of Commerce (ICC) in its Environmental Auditing (1989) publication.

The ICC defines Environmental Auditing as:

"A management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organization, management, and equipment are performing with the aim of safeguarding the environment and natural resources in its operations / projects."

The outcome of Green Audit should be established with concrete evidence that the measures undertaken and facilities in the institution are under green auditing.

6.0 INTRODUCTION

A Nation's growth starts from its educational institutions, where ecology is taught as a prime factor of development associated with the environment. Educational institutions nowadays are becoming more sensitive to environmental factors and more concepts are being introduced to make them eco-friendly. To preserve the environment within the campus, various viewpoints are applied by the several educational Colleges to solve their environmental problems such as promotion of energy savings, recycling waste, water reduction, water harvesting, etc. The activities pursued by colleges can also create a variety of adverse environmental impacts.

Environmental auditing is a process whereby an organization's environmental performance is tested against its environmental policies and objectives. The green audit is defined as an official examination of a college's effects on the environment. As a part of such practice, an internal environmental audit (Green Audit) is conducted to evaluate the actual scenario at the campus.

A green audit can be a useful tool for Colleges to determine how and where they are using the most energy or water or resources; the College can then consider how to implement changes and make savings. It can also be used to determine the type and volume of waste, which can be used for a recycling project or to improve a waste minimization plan. Green auditing and the implementation of mitigation measures is a win-win situation for all the Colleges, the learners, and the planet. It can also create health consciousness and promote environmental awareness, values, and ethics. It provides staff and students with a better understanding of the Green impact on campus.

Green auditing promotes financial savings through the reduction of resource use. It gives an opportunity for the development of ownership and personal and social responsibility for the students and teachers. Thus, it is imperative that the College evaluate its own contributions toward a sustainable future. As environmental sustainability is becoming an increasingly important issue for the nation, the role of higher educational institutions in relation to environmental sustainability is more prevalent.

A clean and healthy environment aids effective learning and provides a conducive learning environment. There are various efforts around the world to address environmental education issues.

Environmental Management Systems (EMS) are very popular in the industrial sector, but the general belief is that EMS is something pertaining to industries only. Other parts of the world have started adopting compatible environmental management systems either voluntarily or by promoting standards by external certification. International environmental standards do not suit the existing Indian educational system. Hence, Abhinav Gram Foundation – Eco-Services has developed a compatible system by developing locally-applicable techniques.

A very simple indigenized system has been devised to monitor the environmental performance of educational institutions. It comes with a series of questions to be answered on a regular basis. Environmental conditions may be monitored from angles that are relevant to Indian requirements, without stress on legal issues or compliance.



This innovative scheme is user-friendly and totally voluntary. The environmental monitoring system helps the institution set environmental examples for the community and educate young learners. It can be adapted to urban and / or rural situations.

7.0 OVERVIEW OF THE COLLEGE

D.B.M.S. TRUST : D.B.M.S Trust has been serving society in the field of education for over 50 years in the steel city of Jamshedpur. Their educational initiatives cater to the needs of various segments of our society - including the economically challenged. Our flagship school - D.B.M.S English School (ICSE) is a premier educational institution followed by D.B.M.S Kadma High School (CBSE) with approximately 6200 students studying in these two schools. There is D.B.M.S Girls High School (JAC Board) with nominal fees for students preferring the local language. The Trust also educates approximately 500 students free of cost in the afternoons. The Trust extends its initiative in the tribal heartland of Jharkhand where tribal students are educated virtually free of cost. To provide quality teachers to the schools in Jamshedpur, the Trust has started a teachers' training college (D.B.M.S. College of Education) offering a two-year course leading to a Bachelor's Degree in Education (B.Ed.) and also a two-year course leading to Diploma in Elementary Education (D.El.Ed.).



(Fig 1- D.B.M.S. College of Education, Entry Gate)

In totality over 8000 students derive the benefit of our efforts in education. Needless to say, the Trust will continue its efforts towards expanding the activities to be more inclusive. The motto of the Trust is to develop children into future responsible citizens of our country.

D.B.M.S. COLLEGE OF EDUCATION : Dakshina Bharatha Mahila Samaj has been in existence in the field of education since 1961, and today it is a brand that we are all proud of. Opening of D.B.M.S. College of Education in July, 2018 was another feather in the cap of D.B.M.S Trust. Honourable Chief Minister of Jharkhand Shri Raghubar Das dedicated D.B.M.S. College of Education to the tribal state of Jharkhand.

D.B.M.S. College of Education is among the most reputed institute in Kolhan University. The campus is situated in Farm area, Kadma. The college is well connected for public transport and enjoy a lush green and a pollution free environment. The college is catering to the educational needs of the society by providing various courses like B.Ed. and D.El.Ed. With its massive infrastructure, well equipped laboratories, completely Wi-Fi enabled campus and a good collection of national and international journals is creating new platform to the Education world to explore the academia of the country.



(Fig 2- Temple in the campus)

Since its inception, D.B.M.S. College of Education has been living up to the expectations of Jharkhand. In a very short span, this institution has carved a niche for itself. Here we strive for perfection without compromising on the quality of education. With state of art educational infrastructure, the college provides top quality education to prospective teachers.

Facilities provided by D.B.M.S. College of Education are well-qualified teachers, spacious digital classrooms, a fully air-conditioned multipurpose hall, a library, Computer Lab, Psychological Resource Centre, Well-Equipped Science Lab, Health & Physical Education Resource Centre, Art & Craft Resource Centre, Orell E-Learning & English Language Teaching Platform-Enabled Computer LAB, etc. Our objective is to provide high standards of academic excellence backed up by

state-of-the-art infrastructure. Our students, when they graduate, will be well equipped with talent, practical training, and a high degree of communication skills. This will be our gift to the citizens of Jamshedpur and to Jharkhand. Let us hope our ambitious project fulfills the demands of time.



Fig 3 - A glance at the D.B.M.S College of Education Campus

VISION

To produce fair-minded leaders of distinction and dignity, committed to lifelong learning, leading meaningful lives, and serving society. We want to create outstanding teachers and nurture them in an atmosphere of intellectual vigor and moral values. The youth of Jharkhand may find their fulfillment achieve success, and contribute constructively towards the development of the nation. Our constant endeavor is to provide a safe, secure & conducive learning environment to those who aspire to gain from higher education. We try to educate young minds to be competent, committed & compassionate citizens who can respond thoughtfully & responsibly to the challenges of an ever-changing world.



Toward the Mission of Green Earth

MISSION

D.B.M.S. College of Education is committed to providing a holistic education that brings transformation of body, mind & spirit. We strive for academic excellence with a focus on:

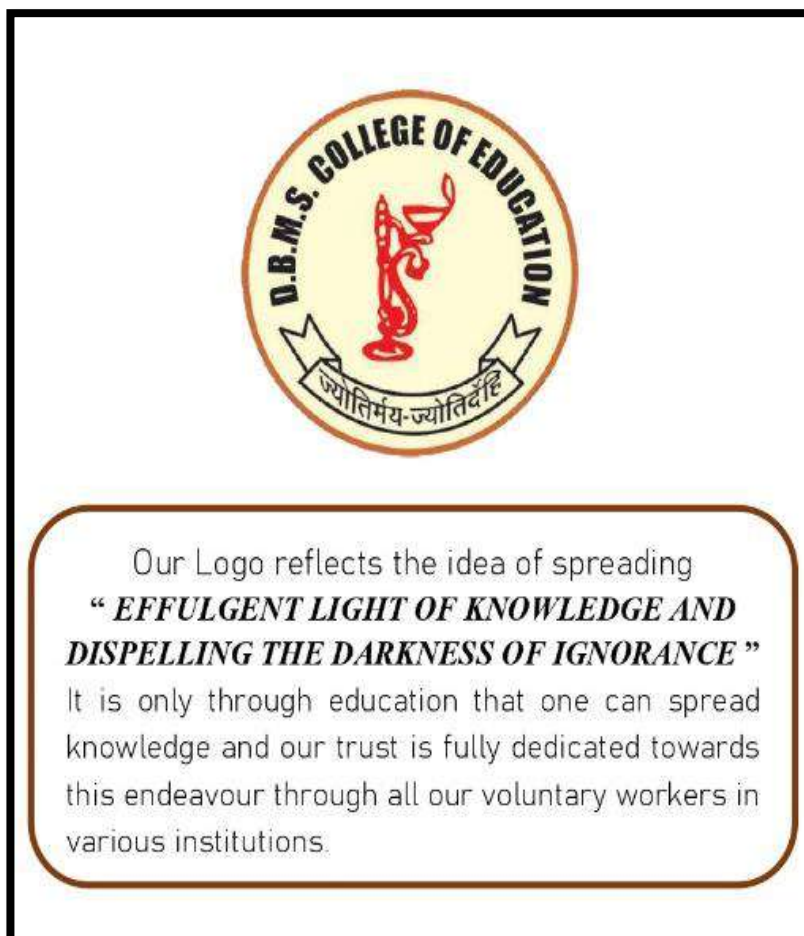
- Co-curricular activities for the all-round development of their personality.
- Ethical higher learning.
- Nurturing a sense of social responsibility.
- Creating a gender-sensitive classroom.
- Creating awareness about the environment and sustainability.
- An optimistic outlook towards life.
- DBMS College of Education always plants more and more trees as we believe that the tree plantation program contributes to making the local as well as global environment clean.

D.B.M.S. College of Education will provide all the students with a well-balanced, carefully structured & affordable education to develop to their full potential, empowering them to think creatively and critically to face the challenges of the 21st century.

D.B.M.S. College of Education is situated in the urban locality in the city of Jamshedpur (22° 48' 22.176" N Latitude and 86° 9' 54.936" E Longitude). The College has a pollution-free campus area spread over 0.75 (32,000 sq. ft. apr) acres of land in the heart of the city of Jamshedpur. The built-up area constitutes 40% of the institution's land area, while the remaining 60% is the green area.



(Fig 3 - Entrance view of D.B.M.S. College of Education)



COURSE OFFERED

1. B.Ed
2. D.El.Ed

Facilities Offered

1. Art & Craft Room
2. Science Lab
3. Computer Lab
4. Psychology Lab
5. Library
6. Multipurpose Hall
7. Health and Physical Education Resource Centre
8. Art and Craft Resource Centre
9. ICT Room
10. Play Ground
11. Common Room
12. College Canteen



(Fig 4 – Trees & Plants inside the campus of D.B.M.S. College of Education)

**Environmental Consciousness and Sustainability Policy of D.B.M.S.
College of Education**



D.B.M.S College of Education

(Recognised by National Council for Teacher Education)
Affiliated to Kolhan University, Chaibasa & J. A. C., Ranchi, Jharkhand
Road No. 23, Farm Area, Kadma, Jamshedpur-831005 | Phone : 2309097
E-mail : dbms.edu23@gmail.com | Website : dbmscollege.in

Ref.No. :

Date :


Policy on Environment Consciousness and Sustainability

Article 48A and 51(g) of the Indian Constitution gives mandate to a clean and green environment which is reflected in India's National Environment Policy with the key objectives of conservation of critical environmental resources, intrageneration and intergeneration equity and integration of environmental concern in economic and social development, environmental governance and enhancement of resources for environmental conservation. The policy recognizes that maintaining a healthy environment is not the state's responsibility alone but that of every citizen thus encouraging individual and institutional participation.

The management of D.B.M.S College of Education acknowledges its responsibility towards protection and enhancement of local and global environment along with sustainable development. The institution also recognizes its social responsibility of providing a barrier free environment to all its stakeholders. Therefore, environmental development and sustainability policy is made by the management which is subject to amendment as per requirement.

Objectives:

- 1) To systematically identify, monitor, quantify, record, report and analyze the components of environmental diversity of the institution.
- 2) To increase awareness towards protecting the environment.
- 3) To maintain a clean and green campus.
- 4) To protect the flora and fauna and work towards sustainable development.


18/9/2021

Satish Kumar Singh
18/9/2021



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Ref.No. :


Date :

- 5) To provide a barrier free environment for the physically handicapped.
- 6) To develop Innovative practices for environmental conservation.
- 7) To ensure safe and environmental friendly waste management and negligible waste generation.
- 8) To ensure optimal and efficient use of resources.

Statutory body for the policy execution:

The Statutory body for the policy execution is constituted of:

- President of the college - Chairperson
- Principal of the College
- Four faculty members
- Two non - teaching staff members


18/9/2021

Satish Kumar Singh
18/9/2021



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Ref.No. :

Date :

INSTITUTION ENERGY POLICY

- 1) The institution will ensure segregation of waste into dry waste wet waste and E-waste. Use of single use plastic in the campus is screened, and recycling is encouraged.
- 2) To utilize the natural resources of light namely sunlight and air, the entire college community is trained to keep the windows and doors open on either side of the classrooms, halls and laboratories.
- 3) The institution will conduct the following programs on a regular basis:
 - (a) Awareness programs based on the three R's of Reduce, Recycle and Reuse
 - (b) Plantation drives
 - (c) Encourage use of paper, cloth or jute bags
 - (d) Welcome guests with saplings
 - (e) Cleanliness drive along the river front
 - (f) Designated corner for collection of E-waste
- 4) The institution will ensure proper functioning of rain water harvesting pit, and will sensitize students about water conservation.
- 5) Paperless communication for announcements and meetings will be encouraged.
- 6) The institution will ensure that attention is paid to switching off the lights, fans and air conditioners when not in use.


18/9/2021

Satish W. Singh
18/9/2021

8.0 OBJECTIVES AND SCOPE

The Broad aims / objectives of the eco – auditing would be

- Environmental education through a systematic environmental management approach
- Improving the environmental standard
- Benchmarking for environmental protection initiatives
- Sustainable use of natural resources on the college campus
- Financial savings through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the College campus and its neighboring environment
- Enhancement of College profile
- Developing environmental ethics and value systems among youth.



9.0 AUDIT PARTICIPANTS

On behalf of the College:

Name	Position/Department
Mr. B. Chandrashekhar	President
Mrs. Sripriya Dharmarajan	Secretary
Dr. Joohi Samarpita	Principal & Chairperson IQAC
Dr. Monika Uppal	Vice - Principal & Co-ordinator IQAC
Mrs. Pamela Ghosh Dutta	Assistant Professor & Member IQAC
Mrs. Kanchan Kumari	Assistant Professor & Member IQAC
Mrs. Poonam Kumari	Assistant Professor & Member IQAC

On behalf of Abhinav Gram Foundation – Eco-Services

Name	Position	Qualification
Ram Pratap Singh	Lead Auditor	IFS Retd., M.Sc.-Life Sciences, AIFC-FRI, Dehradun
Er. Dilip Shrivastava	Co- Auditor	B.Tech., FIE, PHF
Er. Pramod Kumar	Co- Auditor	B.Tech., MBA (IIT Dhanbad)
Pranav Kr. Singh	Co- Auditor	B.Tech., MBA
Varun Kumar	Co-Auditor	B.com, MBA



Fig 5 - 1st Green Audit meeting between College and Green Auditors

10.0 EXECUTIVE SUMMARY

An environmental audit is a snapshot in time, in which one assesses campus performance in complying with applicable environmental laws and regulations. Though a helpful benchmark, the audit almost immediately becomes outdated unless there is some mechanism in place to continue the effort of monitoring environmental compliance.

D.B.M.S. College of Education, Jamshedpur has an Eco Club which monitors the continual improvements of greenery in college; QS Programme and their bid towards environmental protection and environmental awareness on the local and global front. The audit criterion is environmental cognizance, waste minimization and management, biodiversity conservation, water conservation, energy conservation, and environmental legislative compliance by the campus. A questionnaire is used during the Green Audit. This audit report contains observations and recommendations for the improvement of environmental consciousness.



11.0 AREAS OF IMPROVEMENT

- Solar panels should be installed as far as possible to reduce the use of thermal electricity.
- Internal system by IQAC should be more active and keep regular inspections to ensure environmental activities on the campus.
- The college campus is highly green and eco-friendly but there is still scope for creating more vertical gardens.
- College can declare their campus as no plastic zone and advise everyone to adhere.
- College can advise their faculty and students to use public transport systems or E-vehicles as far as practicable to reduce pollution.

12.0 ENVIRONMENTAL AUDIT - QUESTIONNAIRE

The areas of eco / environmental / green auditing to be followed by participating institutions are as follows :

- 12.1.1 Waste Minimization and Recycling
- 12.1.2 Greening the Campus
- 12.1.3 Energy Conservation
- 12.1.4 Water Conservation
- 12.1.5 Clean Air
- 12.1.6 Noise Monitoring Measures
- 12.1.7 Animal Welfare
- 12.1.8 Environmental Policy
- 12.1.9 General Practices

Has any Environmental Audit been conducted earlier?

The College has an ECO club that keeps an eye on environmental issues within the College campus. This club maintains regular internal monitoring of environmental issues in the best possible ways.

Now, the external audit for the environment has been awarded to Abhinav Gram Foundation – Eco-Services, Ranchi for a systematic way of monitoring the environmental initiative taken by D.B.M.S. College of Education.

What is the total permanent population of the College? (2021-2022)

	Male	Female	Total
Students	10	190	200
Teachers	04	12	16
Non-Teaching Staff	07	11	18
Sub Total	21	213	234
Approximate Number of Visitors (Per day)			10
What is the total number of working days on your campus in a year?			202

Where is the campus located?

D.B.M.S. College of Education is located 7 km from Jamshedpur Railway Station in the heart of the Steel City, Tata, TISCO, and JUSCO. The Latitude and Longitude of the Campus are 23.335512N and 85.314957E respectively.

Google Map Location - <https://goo.gl/maps/uL9a1M89DjPauiqB7>

Which of the following are available in your college?

1 Garden area	Available
2 Playground	Available
3 Kitchen	Available
4 Toilets	Available
5 Garbage Or Waste Store Yard	Available
6 Laboratory	Available
7 Canteen	Available
8 Hostel Facility (numbers)	Not Available
9 Guest House	Not Available



Which of the following are found near your college?

1 Municipal dump yard	Available
2 Garbage heap	No Garbage heaps
3 Public convenience	Yes
4 Sewer line	Yes
5 Stagnant water	No stagnant water
6 Open Drainage	No
7 Industry – (Mention the type)	No industry is located within 3 km of the college campus, however, Tata Steel Plant area is approx. 6 km
8 Bus / Railway station	Bus stand is 6.6 km, Tata Railway station 8.6 km, Adityapur Railway Station 6 km, Airport is 3 km away
9 Public halls	Yes, Kudi Mohanti Auditorium & Kalakriti Auditorium are next to the college campus.

12.1 WASTE MINIMIZATION AND RECYCLING

1.	Does your College generate any waste? If so, what are they?	Wet Waste, Dry Waste and E-Waste			
2.	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio Degradable	Non-Biodegradable	Hazardous	others
		50kg	30kg	-----	<2kg
3.	How is the waste generated in the college managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	2 composting pits are there on campus, Reuse of one side printed Paper for internal communication. Sewage water is discharged to soak pits near toilets. Domestic Waste is collected on a regular basis by Tata Steel Utilities and Infrastructure Services. Three types of Waste bins are provided at the campus for biodegradable, non-biodegradable and E-waste. Horticulture waste is also given to Municipal Corporation.			
4.	Do you use recycled paper in college?	Yes			
5.	Do you use reused paper in college?	Yes			
6.	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, Eco club carries out numerous activities. Recycling campaigns, e-waste management, Anti- plastic campaigns, Vriksharopan (Tree Plantation, sustainable goal awareness program.			
7.	Can you achieve zero garbage in your College? If yes, how?	Yes, all bio-degradable waste may be converted to compost. Also, many non-degradable materials may also be reused.			

12.2 GREENING THE CAMPUS

8.	Is there a garden in your College?	Yes, the Campus is covered with Garden.	
9.	Do students spend time in the garden?	Yes	
10.	Total number of Plants on Campus	Plant type	Approx. number
		Trees	50
		Shrubs	25
		Grass Cover	40% (3000 sqm2)
11.	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)	Jamun (Syzygium cumini) Amla (Phyllanthus emblica) Peepal (Ficus religiosa) Banyan (Ficus benghalensis) Sarpagandha (Rauvolfia serpentina)	
12.	Does the College have a department for Garden Maintenance ?	Yes	
	Number of Staff working in Horticulture Department	3 gardeners have been appointed by the management to maintain the gardens and campus greenery.	
13.	Number of Tree Plantation Drives organized by College per annum. (If Any)	Yes, 2-3 times regular tree plantation drives are organized annually under which, more than 50 plants are planted in an academic year	
14.	Number of Trees Planted in Last FY.	50	
	Survival Rate	90%	
15.	Plant Distribution Program for Students and Community	Yes, Plants with pots are distributed to visiting guests and communities on various green occasions.	
16.	Plant Ownership Program	Yes, the College has its own small nursery.	



12.3 ENERGY

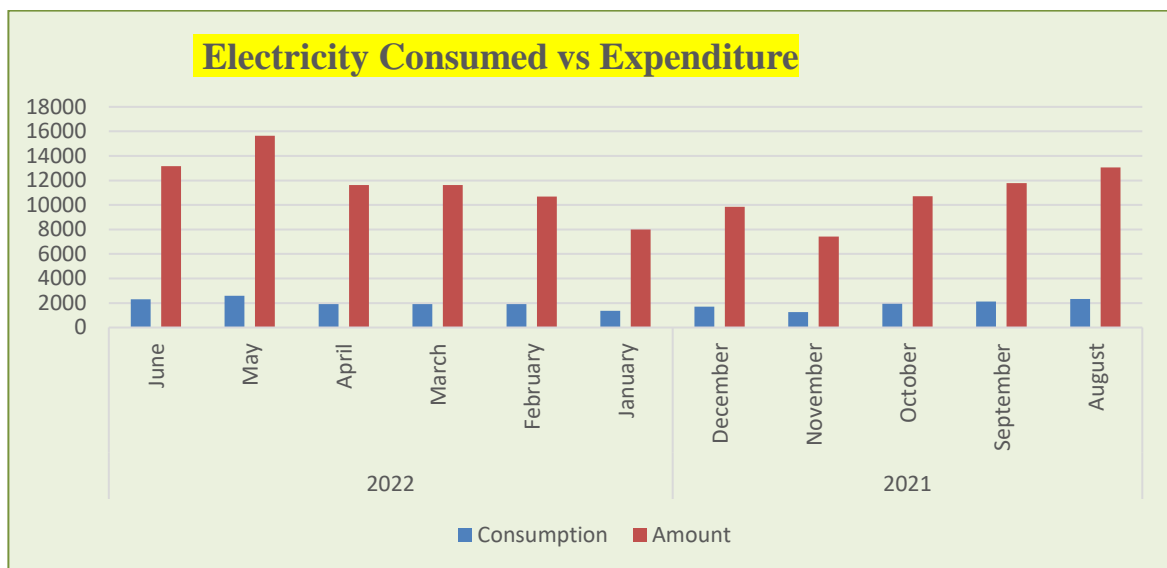
17.	List a few ways that you use energy in your College. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.	Electricity, LPG. Electricity is saved by the use of LED bulbs for illumination and use of Natural light has been practiced more as the college timing is in day time. An alternate source of energy i.e. Solar Panel Installation project is underway.
18.	Are there any energy-saving methods employed in your College? If yes, please specify. If no, suggest some	Yes, Natural lights & natural ventilation ensure energy savings during class hours. Good practices like 'Switch off' instructions are given in all rooms. Energy-saving star-rated electrical equipment is used.
19.	How many CFL/LED bulbs have your College installed?	90 % of Total Conventional bulbs are replaced by LED Lights. 9 W – 7 CFL Bulbs 23 W – 9 CFL Tubes 14 W – 4 CFL Tubes
20.	Are any alternative energy sources employed / installed in your College? (photovoltaic cells for solar energy, windmill, energy-efficient stoves, etc.) Specify.	The Solar Panel installation project is been underway, after the construction of the 2 nd floor it will be installed.
21.	Do you run "switch off" drills at College?	Yes
22.	Are your computers and other equipment put on power-saving mode?	Yes, In Practice
23.	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?	No

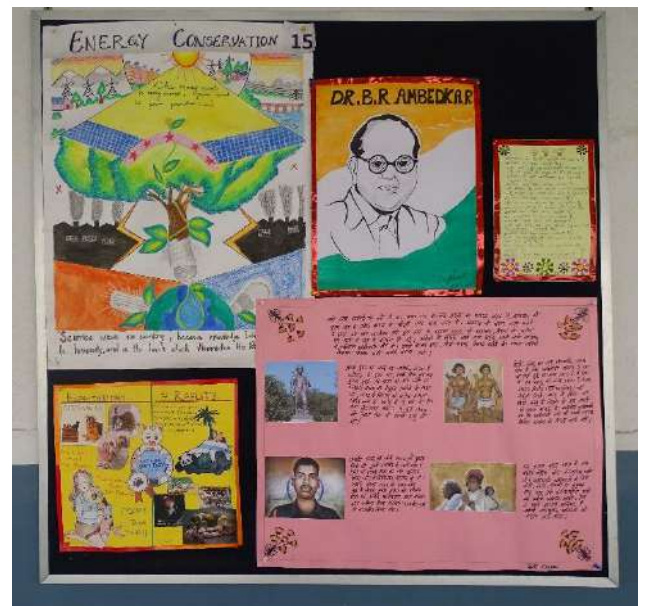
The table shows the power consumption detail for last year

The below graph does not exhibit much variation in terms of units consumed. The average units consumed in the FY 2021-22 is 2016 units. There is a monthly variation too depending on the season and the vacations that reduced the electricity bill.

Year	Month	Units Consumed	Amount paid
2022	July	2824	16167.40
	June	2300	13167.5
	May	2600	15648.54
	April	1920	11625.6
	March	1920	11625.6
	February	1900	10674
	January	1372	8005.62
2021	December	1708	9859.01
	November	1268	7422.89
	October	1932	10716.93
	September	2116	11783.24
	August	2340	13051.10

Table 1 - Electricity Consumption Analysis





(Fig 6 – College Notice Boards: Creating Awareness Regarding Energy Conservation)

GOING SOLAR

What you need to know about Solar Energy

Every second, our sun produces enough energy to sustain Earth's needs for 500,000 years.

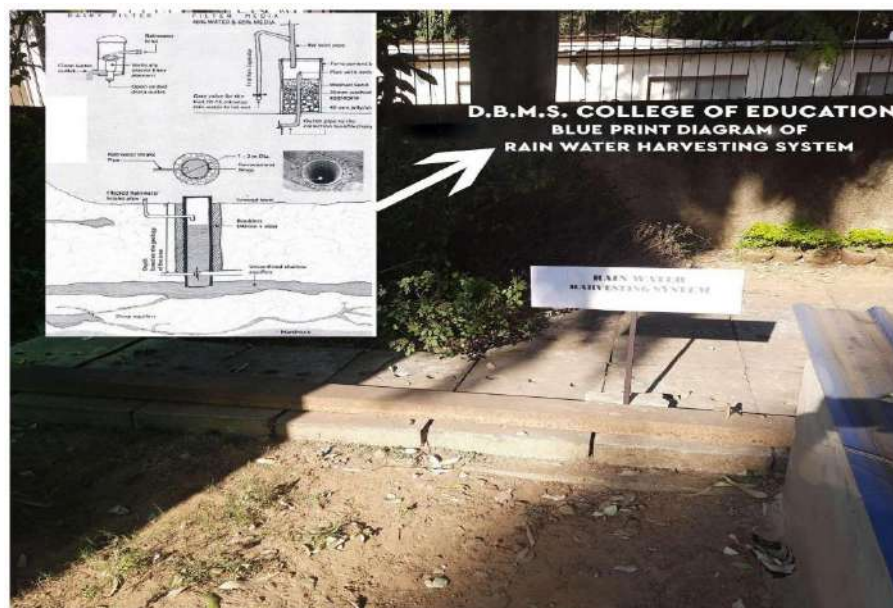
How do we harness this power?

SOLARIZE IT

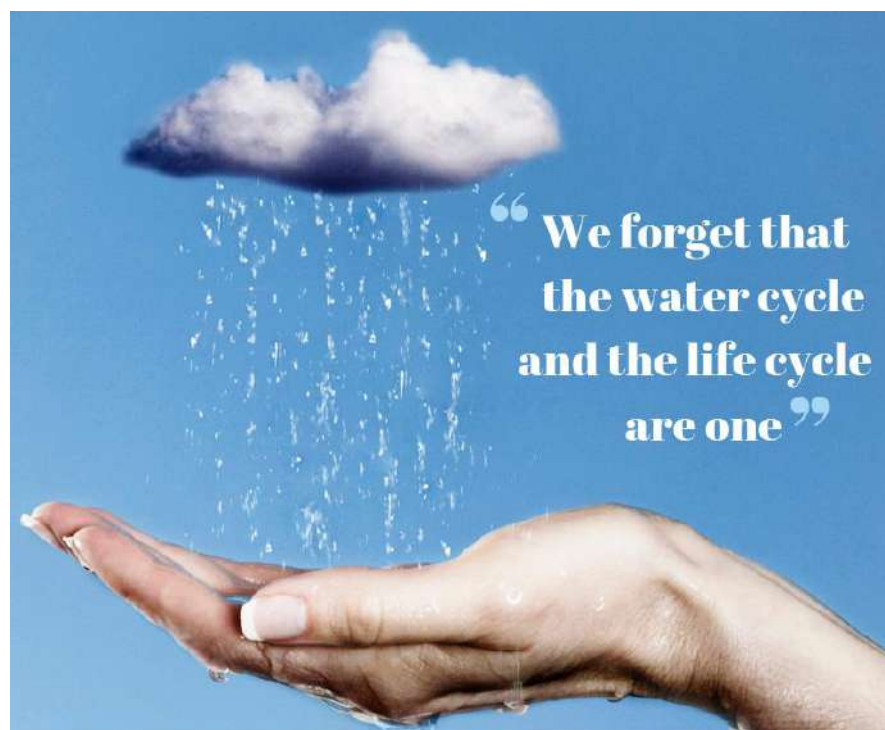
12.4 WATER CONSERVATION

24.	The list of uses of water in your College	Basic uses of water in the campus are; Drinking, Cooking, Washing, Gardening, academic use in the laboratory, sanitizing & Toilets, and Others. And total consumption is 100 KL/month
25.	How does your College store water? Are there any water-saving techniques followed in your College?	10,000 Litres underground storage Roof top water tank – 2 x 1000 lts Water pumped as and when required. Taps are closed when not in use.
26.	If there is water wastage, specify why and How can the wastage be prevented / stopped?	Overflow taps installed in all the tanks. Water Pumping is on sensor, it stops automatically as it is filled.
27.	Locate the point of entry of water and point of exit of wastewater in your College.	Entry- One entry point of supply from TATA Steel into underground tank. Wash basin water goes to Storm water drain. Exit- RWH systems are connected to recharge pits and rest of waste water flows through the drainage system.
28.	Write down a few ways that could reduce the amount of water used in your College	By Following ways: 1. Auto stop taps are installed at all points. 2. Flush tanks has option to regulate water flow. 3. Kitchen wastewater is stored for reuse in irrigating the kitchen garden. 4. Water Conservation awareness for new students.
29.	Record water use from the College water meter for six months (record at the same time of each day).	Average water consumption is 1000 – 1500 liters daily. 2x1000 liters tank is filled up twice daily.

30.	Does your College harvest rainwater?	Yes, as per NBC design rainwater harvesting system has been installed.
31.	Is there any water recycling system?	Yes, Kitchen wastewater is stored & reused in gardening. Wash basin water goes to Storm water drain which is reused. Rainwater harvesting recharges ground aquifer.

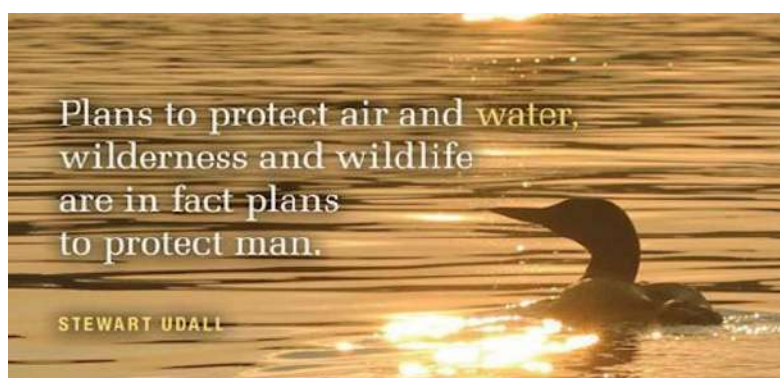


(Fig – 7 : Rainwater harvesting system layout of the College)



12.5 CLEAN AIR

32	Are the Rooms in Campus well ventilated?	Yes				
33	Window Floor ratio of the Rooms	Excellent (1:7) 48 sq.ft windows & 675 sq.ft floor space				
34	Provide details of College-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	No	No	No	No	--
	No. of vehicles more than five years old	--	--	--	--	--
	No. of Air-conditioned vehicles	--	--	--	--	--
	PUC done	--	--	--	--	--
35	Specify the type of fuel used by your College vehicles:	Total				
	Diesel	--				
	Petrol	--				
	CNG	--				
	LPG	--				
	Electric	--				
36	Air Quality Monitoring Program (If Any)	No monitoring is being done				
37	Do students suffer from respiratory ailments? (If Any)	Such health problems not been reported so far.				
38	Details of Genset	N.A. 24 X 7 Electricity supply by JUSCO				



12.6 Noise Monitoring Measures

39	Campus Noise Level / Noise Pollution	The location of the college is on the main road hence transportation sound poses a bit of noise to the campus, but the classrooms are not been disturbed by it. The College has maintained its campus highly green which takes care of Noise Pollution. Below is the campus noise level measured during survey.
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Fig No.	Location	Time	Average intensity (dB)	Max intensity (dB)
1	Classroom corridor	During Classes	54.0	62.3
2	Lounge & administrative area	During Classes	58.3	74.4
3	Corridor, Lounge & administrative area	Class Transition	64.0	83.2
4	Campus Driveway	Class Transition	63.0	74.0

(Table 2 - Campus Noise Level measured during working hours)



12.7 ANIMAL WELFARE

40	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc.)	More than 500 Birds are found in the campus. Approx. 2 cats, snakes, rats, squirrels, lizards and others including butterflies, insects, bees, earthworms, etc. are there in campus.(Campus fauna data in table 5)
41	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC - AR)?	NA
42	Does your College have a Biodiversity Program or a KARUNA CLUB?	Our college has an ECO club that carries out several awareness and sensitization activities related to the environment & biodiversity like the recently Fashion Show out of waste materials was organised.

12.8 ENVIRONMENTAL LEGISLATIVE COMPLIANCE

43	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
44	Does your College have any rules to protect the environment? List possible rules you could include.	The college has banned single use plastic. The environment policy of the college includes awareness, and environmental conservation efforts through ECO club. College is also under no smoking zone.
45	Is Environmental Ambient Air Quality Monitoring conducted by the College?	College does not have air monitoring system but Air quality index of the area has been attached from the real time data of AQI , Jamshedpur
46	Is Water and Wastewater Quality monitoring conducted by the College?	Yes – The report attached
47	Is stack monitoring of DG sets conducted by the College	Stack height monitoring is being done by the institution where it is located.

48	Is any warning notice, letter issued by state government bodies?	No
49	Does any Hazardous waste generated by the College?	No
50	Does any Bio medical waste generated by the College? If yes explain its category and disposal method	No



(Fig 8 - Tree Plantation in Campus)



12.9 GENERAL

51	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes. Vehicular Pollution Noise Pollution Laws related to tree cutting.
52	Does your College have any rules to protect the environment? List possible rules you could include.	Yes, there are some rules like banning single use plastic & no horn zone. Their Environmental Policy includes awareness and environmental conservation.
53	Is the housekeeping schedule maintained in your College campus?	Yes
54	Are students and faculties aware of environmental cleanliness ways? If Yes Explain	Yes, periodically pollution reduction, plantation, and energy conservation awareness campaigns are carried out by the ECO club of the College
55	Are Important Days Like World Environment Day, Earth Day, and Ozone Day etc. are celebrated on campus?	Yes, the university also stipulates the same.
56	Does the College participate in the National and Local Environmental Protection movement?	Yes, Swachh Bharat Abhiyan by students of the College.
57	Does the College have any Recognition / certification for environment friendliness?	Yes, a Certificate from the Horticulture Society. The College has been participating in the annual Horticulture Show organized by Tata Steel every year in which it has won several prizes.
58	Does the College use renewable energy?	We plan to install solar power on 2 nd floor when construction is completed.
59	Does the Institution conduct a Green / environmental audit of its campus?	No
60	Has the institution been audited / accredited by any other agency such as NABL, NABET, TQPM, NAAC etc.?	No

13.0 BEST PRACTICES / INITIATIVES FOR THE ENVIRONMENT

A	Biodiversity Conservation	<p>Flora and fauna conservation</p> <p>(Conservation of Flora and fauna done on campus through plantation drive, maintenance of green & herbal garden, in-house nursery, lectures series on plant disease & its control measures, science exhibition on organic & medicinal plants.</p> <p>All the plants have been given botanical names to create awareness</p> <p>Provision of a bird feeder and bird bath, to kill a single living being inside the campus is not allowed, good soil texture helps to thrive micro and mesofauna, green canopy of trees on the campus provides an abode to birds, rodents, and insects)</p>
B	Tree Plantation Drives	<p>Yes, periodically 3-4 plantation drives are conducted by students, and faculty annually. The college is maintaining a small nursery of horticultural plants in the back side of the administrative building. Guests are honored by green saplings.</p>
C	Ground Water Recharge	<p>Rain water harvesting recharge pits have been constructed in College campus to conserve and recharge ground water reserves. Due to this practice water level in borewell is always respectable.</p>
D	Pollution Reduction	<p>The campus is no horn zone, no smoking zone. It is a polythene-free zone. Composite pits for biodegradable waste, installation of dustbins, regular plantation drives & awareness activities is initiated by students.</p>
E	E-Waste Management	<p>MOU with HULLADEK.</p> <p>E-waste management is being done as per norms & collected annually.</p>
F	Solid Waste Management	<p>Garbage is lifted from campus everyday day by Tata Steel's Town Division and they have an elaborate solid waste management system. Wet & dry waste is collected separately. Compost pits are used to recycle biodegradable wastes generated on the campus.</p>

G	Water Conservation	The college is re-using Kitchen wastewater for cleaning and gardening purpose. Auto stop taps are installed in all outlets. They have a Rain Water Harvesting System.
H	Creativity with Nature	To promote nature conservation and awareness among students, College has beautifully painted its walls depicting its bio-diversity. Even dead wood and logs have been converted into eco-friendly spaces.



(Fig 9 & 10 - Tree Protection Awareness Program on Campus)

14.0 GREEN AREA OF D.B.M.S. COLLEGE OF EDUCATION, JAMSHEDPUR

1. Geographical location mapping of campus by GPS:

D.B.M.S. College of Education is situated in an urban locality in the city of Jamshedpur. At an altitude of 159 m above the mean sea level, Jamshedpur is the largest city of Jharkhand and lies towards the East Singhbhum of the Chotanagpur plateau. Also known as Tatanagar, named after Sir Jamshedji Tata who is credited with the foundation of this city. Jamshedpur is known as the Steel City of India & is an important centre of research related to different aspects of the environment and ethnicity. The College has a pollution-free campus area spread over 1.10 acres of land in the heart of the city of Jamshedpur.

Table 3. Distribution of College Campus Land area

.No.	Particulars	Area (in sq. ft)
1	Total built up area	13000
2	Total green area	19000
3	Total Campus area	32000

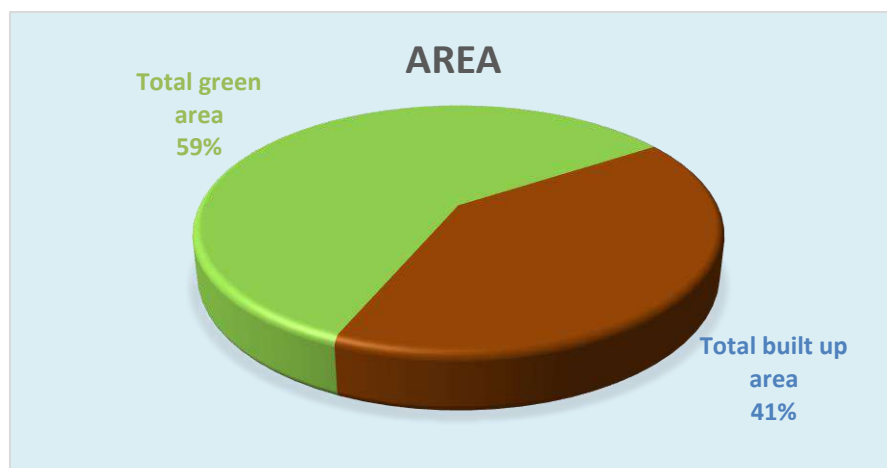


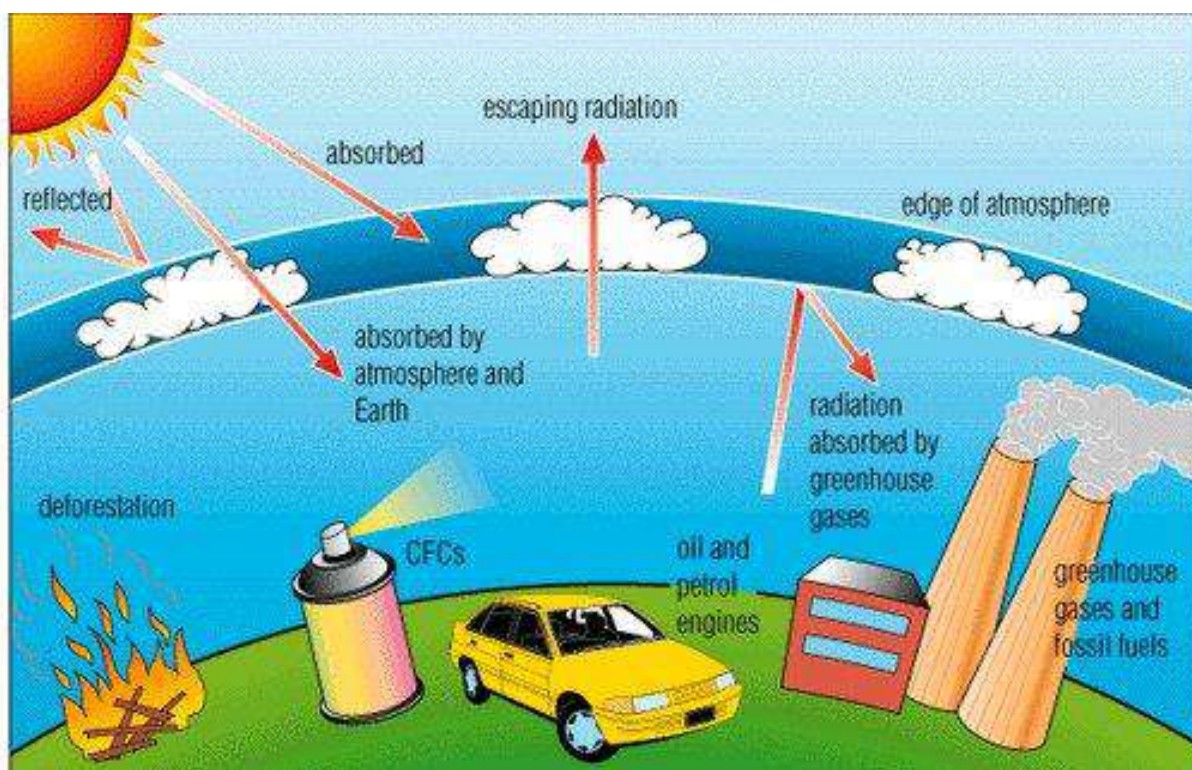
Fig 11: Distribution of the College Campus area



(Fig 12 - GPS Satellite map of D.B.M.S. College of Education)

15.0 RECOMMENDATIONS

- Environmental Monitoring i.e. (Ambient Air Quality Monitoring, and Water monitoring) need to be conducted by Competent authorities / approved laboratory in a frequency of six months.
- Reduction in the use of paperwork by going more and more digital.
- Solar panels should be installed at the rooftop of the campus for proper energy conservation by reducing independence on thermal power.
- We suggest increase in Environmental promotional activities for spreading awareness at campus and its neighboring localities.
- As far possible avoid the use of personal vehicles, single-use plastics, water wastage, energy wastage, and burning of bio-mass inside the campus.
- College canteen should ensure the health and safety of students and faculty by keeping it clean & hygienic.
- The College can install the auto stop feature in all taps for saving water.
- The College can adopt a nearby school or village as an environmental initiative.
- Since the land area of the College is moderate but greenery is impressive we suggest to create a butterfly garden near the fountain area in front of Administrative building which is highly suitable for it.



(Green Tips)

16.0 CONCLUSIONS

This audit involved extensive consultation with the campus team, and interactions with key personnel Sri Ram Pratap Singh Retd. IFS Officer & Lead Auditor of the foundation on a wide range of issues related to Environmental aspects. D.B.M.S. College of Education has its Eco Club for spreading awareness regarding environmental issues. The audit has identified several observations for making the campus more environmental friendly. The recommendations are also mentioned with observations for the campus team to initiate actions.

The audit team opines that the overall site is well maintained from an environmental perspective. There are no major observations but a few things that need to be initiated urgently are maintenance of waste management records on a monthly inventory basis and periodic inspection of buildings, housekeeping, and environment policy. The audit team feels that the College campus is highly green and environment friendly.



(Comparison of Good and Bad Environment)

17.0 REFERENCE

- The Environment [Protection] Act – 1986 (Amended 1991) & Rules-1986 (Amended 2010)
- The Petroleum Act: 1934 – The Petroleum Rules: 2002
- The Central Motor Vehicle Act: 1988 (Amended 2011) and The Central Motor Vehicle
- Rules:1989 (Amended in 2005)
- Energy Conservation Act 2010.
- The Water [Prevention & Control Of Pollution] Act – 1974 (Amended 1988) & the Water (Prevention & Control of Pollution) Rules – 1975
- The Air [Prevention & Control Of Pollution] Act –1981 (Amended 1987)
The Air (Prevention & Control of Pollution) Rules – 1982
- The Gas Cylinders Rules – 2016 (Replaces the Gas Cylinder Rules – 1981
- E-waste management rules 2016
- Electrical Act 2003 (Amended 2001) / Rules 1956 (Amended 2006)
- The Hazardous Waste (Management and Handling and Trans-boundary Movement) Rules, 2008 (Amended 2016)
- The Noise Pollution Regulation & Control rules, 2000 (Amended 2010)
- The Batteries (Management and Handling) rules, 2001 (Amended 2010)
- Relevant Indian Standard Code practices
- Internal Records of the Campus, and College website



Fig 13, 14 - View of the D.B.M.S. College of Education Library

D.B.M.S. College of Education Jamshedpur Campus

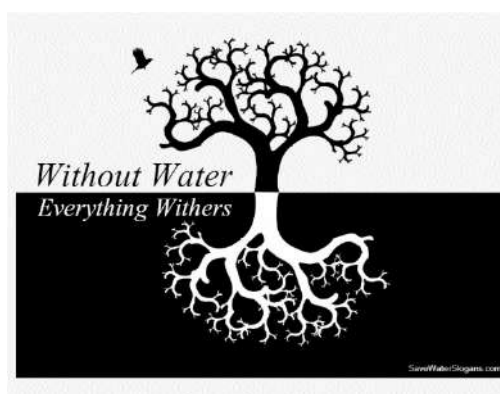


Fig 15 & 16 - Campus, D.B.M.S. College of Education



Administrative Building Front and Side Look



Temple and Garden area between the Administrative building



Vertical Gardening on campus near Administrative Block



Auditorium



CLASSROOMS



Biology Lab



Library



Canteen in Garden Area



Health Counseling Room



Exhibition Room



Sewing Training Room



Students in Library



Computer Lab



Art & Craft Room



Yoga on campus



Articraft From the dead tree wood logs (Creativity with Nature)



Environmental Exhibitions of Art & Craft with Waste



Natural & Traditional Culture through wall painting, Step Plantation on trees, Utilization of dead tree woods and logs



Self-water rotating Fountain on the campus, Beautiful wall painting

BEST FROM WASTE : 100% UTILIZATION OF WASTES IN NATURE



Layered plantation by the use of waste plastic bottles & pipe



Layered potted plantation by the use of waste pvc pipes



Row plantation in the broken pipeline and utilization of dead tree in showpiece



Fashion Show from Waste



Flower Rangoli



Plantation Drive



Artwork from waste CDs



Best Garden Award for three consecutive years



TABLE 4: CAMPUS FLORA DIVERSITY

TREES					
S. NO.	BOTANICAL NAME	COMMON NAME	FAMILY	TYPE	Qty
1	<i>Saracaashoka</i>	Sita ashok	Fabaceae	Tree	02
2	<i>Mangifera indica</i>	Mango	Anacardiaceae	Tree	05
3	<i>Eucalyptus globules</i>	Nilgiritaila	Myrtaceae	Tree	01
4	<i>Acacia salicina</i>	Native willow	Fabaceae	Tree	01
5	<i>Schleicheraoleosa</i>	Kusum	Sapindaceae	Tree	01
6	<i>Sapindusmukorssi</i>	Reetha	Sapindaceae	Tree	01
7	<i>Adina cordifolia</i>	Karam	Rubiaceae	Tree	01
8	<i>Jacaranda mimosifolia</i>	Neel mohar	Bignoniaceae	Tree	01
9	<i>Azadirachta indica</i>	Neem	Meliaceae	Tree	01
10	<i>Pongamia pinnata</i>	Karanj	Fabaceae	Tree	01
11	<i>Carica papaya</i>	Papaya	Caricaceae	Tree	02
12	<i>Litchi shinensis</i>	Litchi	Sapindaceae	Tree	02
13	<i>Eucalyptus nicholii</i>	Willow peppermint	Fabaceae	Tree	10
14	<i>Melia azadirachta</i>	Bakain	Meliaceae	Tree	01
15	<i>Ficus religiosa</i>	Peepal	Moraceae	Tree	01
16	<i>Murrayakoenigii</i>	Curry leaves	Rutaceae	Tree	02
17	<i>Terminalia catappa</i>	Kath badam	Combretaceae	Tree	01
18	<i>Syzygiumcumini</i>	Jamun/black berry	Myrtaceae	Tree	01
19	<i>Tamarindus indica</i>	Tamarind	Fabaceae	Tree	01
20	<i>Cassia javanica</i>	Pinkshower	Fabaceae	Tree	01
21	<i>Tectona grandis</i>	Teak	verbenaceae	Tree	02
22	<i>Phyllanthus emblica</i>	Amla	Euphorbiaceae	Tree	01
23	<i>Plumeria rubra</i>	Pagoda tree	Apocynaceae	Tree	01
24	<i>Delbergia sissoo</i>	Sheeshum	Fabaceae	Tree	02
25	<i>Gmelina arborea</i>	Gamhar	Verbinaceae	Tree	01
26	<i>Dracontomelondao</i>	Argus pheasant tree	Anacardiceae	Tree	02
27	<i>Thevetia peruviana</i>	Yellow kaner	Apocynaceae	Tree	01
28	<i>Phyllanthus acidus</i>	Star gooseberry	Euphoirbiaceae	Tree	01
29	<i>Acacia nilotica</i>	Babul	Fabaceae	Tree	01
30	<i>Cycas revoluta</i>	Cycas	Cycadaceae	Tree	02
31	<i>Polyalthia longifolia</i>	False ashoka	Annonaceae	Tree	02
32	<i>Cocus nucifera</i>	Coconut	Palmeae	Tree	01
33	<i>Moringa oleifera</i>	Drumstick tree	Moringaceae	Tree	02
34	<i>Plumeria pudica</i>	Bridal bouquet	Apocynaceae	Tree	03
35	<i>Aegle marmelos</i>	Wood apple	Rutaceae	Tree	01
36.	<i>Accacianilotica</i>	Fabaceae	Babul	Tree	02
SHRUBS					
S. NO.	BOTANICAL NAME	COMMON NAME	FAMILY	TYPE	Qty
1	<i>Pepromiaobtusifolia</i>	Baby rubber plant	Piperaceae	Shrub	12
2	<i>Dracaena reflexa</i>	Song of India	Asparagaceae	Shrub	11
3	<i>Cordyline fruticose</i>	Ti plant	Asparagaceae	Shrub	11
4	<i>Corton</i>	Variegated laurel	Euphorbiaceae	Shrub	02
5	<i>Cordyline terminalis</i>	Ti Plants	Asparagaceae	Shrub	O3
6	<i>Chrysanthemum</i>	Guldaudi	Asteraceae	Shrub	44
7	<i>Platyclusorientalis</i>	Morpankhi	Cupressaceae	Shrub	26
8	<i>Euphorbia milli</i>	Christ thorn	Euphorbiaceae	Shrub	22
9	<i>Tabernemontanadivaricata</i>	Chandni	Apocynaceae	Shrub	02
10	<i>Durantaerecta</i>	Sky flower	Verbenaceae	Shrub	15
11	<i>Zephyranthesminuta</i>	Rain Lily	Commelinaceae	Shrub	21
12	<i>Tradescantia spathacea</i>	Boat lily	Commelinaceae	Shrub	07

13	<i>Artemisia vulgaris</i>	Mugwort	Asteraceae	Shrub	05
14	<i>Euphorbia pulcherima</i>	Painted leaf	Euphorbiaceae	Shrub	07
15	<i>Jatropha podagrica</i>	Gout plant	Euphorbiaceae	Shrub	02
16	<i>Trachelium</i> sps	Blue throat wort	Campanulaceae	Shrub	
17	<i>Plumeria rubra</i>	Chameli	Apocynaceae	Shrub	03
18	<i>Selenicereus hamatus</i>	Queen of the night	Cactaceae	Shrub	
19	<i>Parthenium hysterophorus</i>	Carrot grass	Asteraceae	Shrub	25
20	<i>Galpemiathyallis</i>	Thyallis golden shower	Malpighiaceae	Shrub	25
21	<i>Euphorbia viguieri</i>	Viguier's spurge	Euphorbiaceae	Shrub	06
22	<i>Furcraea foetida</i>	Mauritius hemp	Asparagaceae	Shrub	04
23	<i>Thuja occidentalis</i>	Northern white cedar	Cupressaceae	Shrub	01
24	<i>Rauvolfia serpentina</i>	Sarpagandha	Apocynaceae	Shrub	01
25	<i>Areca palm</i>	Bamboo palm	Aracaceae	Shrub	04
26	<i>Ixora coccinea</i>	Scarlet jungle flame	Rubiaceae	Shrub	05
27	<i>Dracena fragrans</i>	Striped dracena	Asparagaceae	Shrub	20
28	<i>Dracena trifasciata</i>	Snake plant	Asparagaceae	Shrub	20
29	<i>Adenium obesum</i>	Desert rose	Apocynaceae	Shrub	19
30	<i>Araucaria heterophylla</i>	Monkey puzzle tree	Araucariaceae	Shrub	04
31	<i>Rosa indica</i>	Rose	Rosaceae	Shrub	02
32	<i>Hibiscus rosa sinensis</i>	China rose	Malvaceae	Shrub	01
33	<i>Jasminum officinale</i>	Jasmine	Oleaceae	Shrub	01
34	<i>Vernonia amygdalina</i>	Bitter leaf	Asteraceae	Shrub	01
35	<i>Bougainvillea glabra</i>	Paper flower	Nictaginaceae	Shrub	10
36	<i>Coffea arabica</i>	Coffee	Rubiaceae	Shrub	02
37	<i>Justicia gendarussa</i>	Willow leaved justicia	Acanthaceae	Shrub	15
38	<i>Euodia ridleyi</i>	Evodia	Rutaceae	Shrub	09
39	<i>Euphorbia pulcherima</i>	Poisettia	Euphorbiaceae	Shrub	05
HERBS					
S. NO.	BOTANICAL NAME	COMMON NAME	FAMILY	TYPE	Qty
1	<i>Emelia fosbergii</i>	Weed	Asteraceae	Herb	05
2	<i>Euphorbia hirta</i>	Dudhi grass	Euphorbiaceae	Herb	10
3	<i>Solidago multiradiata</i>	Goldenrod	Asteraceae	Herb	10
4	<i>Oxalis stricta</i>	Yellow woodsorrel	Oxalidaceae	Herb	100
5	<i>Scilla peruviana</i>	Portuguese squill	Asperagaceae	Herb	17
6	<i>Tagetes erecta</i>	Marigold	Asteraceae	Herb	47
7	<i>Calypocarpus vialis</i>	Straggler daisy	Asteraceae	Herb	50
8	<i>Aglonema</i> sps.	Chinees evergreen	Aracaceae	Herb	08
9	<i>Pentas lanceolata</i>	Egyptian starcluster	Rubiaceae	Herb	26
10	<i>Cynodon dactylon</i>	Durva grass	Poaceae	Herb	
11	<i>Prichardia pacifica</i>	Pichutia palm	Aracaceae	Herb	10
12	<i>Ageratum conyzoides</i>	Goat weed	Asteraceae	Herb	20
13	<i>Acalypha australis</i>	Assian copper leaf	Euphorbiaceae	Herb	20
14	<i>Mimosa pudica</i>	Touch –me- not	Mimosaceae	Herb	05
15	<i>Dieffenbachia seguine</i>	Dumbcane	Aracaceae	Herb	27
16	<i>Trifolium</i>	Clover	Fabaceae	Herb	16
17	<i>Chlorophytum bichetii</i>	Bichetii grass	Asparaceae	Herb	25
18	<i>Thunbergia laurifolia</i>	Blue trumpet	Acanthaceae	Herb	08
19	<i>Carex cherokeensis</i>	Cherokee sedge	Cyperaceae	Herb	07
20	<i>Sphangneticolatrilobata</i>	Yellow creeping daisy	Asteraceae	Herb	15

21	<i>Cuphea hyssopifolia</i>	Mexican heather	Lytheraceae	Herb	05
22	<i>Carexsiderostica</i>	Creeping broad leaf sedge	Cyperaceae	Herb	08
23	<i>Coleus scutellarioides</i>	Coleus	Lamiaceae	Herb	11
24	<i>Ocimum sanctum</i>	Tulsi	Lamiaceae	Herb	03
25	<i>Asparagus racemosus</i>	Stavar	Asparagaceae	Herb	01
26	<i>Centratherum punctatum</i>	Brazilian button	Asteraceae	Herb	10
27	<i>Lilium bulbiferum</i>	Orange lily	Liliaceae	Herb	06
28	<i>Mentha arvensis</i>	Mint	Lamiaceae	Herb	08
29	<i>Caladium bicolor</i>	Heart of Jesus	Araceae	Herb	04
30	<i>Aloe vera</i>	Ghritikumari	Liliaceae	Herb	15
31	<i>Dendrobium nobile</i>	Orchid	Orchidaceae	Herb	04
32	<i>Syngonium podophyllum</i>	Arrowhead plant	Araceae	Herb	06
33	<i>Spathiphyllumwallisii</i>	Peace lily	Araceae	Herb	
34	<i>Chlorophytum comosum</i>	Spider plant	Asparagaceae	Herb	15
35	<i>Philodendron erubescence</i>	Blushing philodendron	Araceae	Herb	16
36	<i>Thaumatococcusxanadu</i>	Winterbourne	Araceae	Herb	25
37	<i>Pentas lanceolata</i>	Egyptian star cluster	Rubiaceae	Herb	01
38	<i>Schefflera arboricola</i>	Umbrella plant	Araliaceae	Herb	36
39	<i>Portulaca grandiflora</i>	Moss rose	Portulacaceae	Herb	02
40	<i>Epimedium alpinum</i>	Goat weed	Berberidaceae	Herb	15
41	<i>Pennisetum purpureum</i>	Elephant grass	Poaceae	Herb	14
42	<i>Thunbergia fragrans</i>	White lady	Acanthaceae	Herb	08
43	<i>Allium pardosum</i>	Few flowered garlic	Amaryllidaceae	Herb	06
44	<i>Curculigoorchioideis</i>	Golden eye grass	Hypoxidaceae	Herb	06
45	<i>Impatiens balsamia</i>	Garden balsam	Balsamaceae	Herb	02
46	<i>Andrographis paniculate</i>	Chiretta	Acanthaceae	Herb	20
47	<i>Bigoniamaculata</i>	Polka dot bigonia	Bignoniaceae	Herb	05
48	<i>Bigoniacucullata</i>	Wax bigonia	Bignoniaceae	Herb	05
49	<i>Bigoniapalmata</i>	Pamate begonia	Bignoniaceae	Herb	03
50	<i>Tradescantia spathacia</i>	Spider wort	Commelinaceae	Herb	30
51	<i>Zingiber officinal</i>	Ginger	Zingiberaceae	Herb	06
52	<i>Anthurium andraeanum</i>	Flamingo flower	Araceae	Herb	14

– Campus Flora Diversity: Some Common Species

Images of some common species of plant preserved in the D.B.M.S. College of Education Campus are shown in following pages.



Common name – Gold Shower



Indian Snakeroot



Golden Dewdrop



Common name - Viguier's Spurge



Common name - Crape Jasmine



Common name – Baby rubberplant



Common name – Ti plant



Common name - fragrant dracaena



Common name – Yellow creeping daisy



Common name – Sedges



Mexican heather



Brazilian button flower



Common name – Peace lilly



Ming Aralia



Lacy Lady Aralia



Common name - Blushing Philodendron



Britannica



Giant False Agave

Beautiful Nursery of D.B.M.S. College of Education



Small Nursery on the campus



Vegetable Garden inside the Campus



Old Banyan Tree : Small Ecosystem



Flower plants : Ecosystem for butterflies



Lots of Mangoes on the tree



Different Show Plants



Scientific Name is written on every Trees, pot & plant inside the campus



Table 5: CAMPUS FAUNA DIVERSITY

Table 5.1 LIST OF BIRDS

S.NO.	COMMON NAME	SCIENTIFIC NAME
1	Common Cuckoo	<i>Cuculuscanorus</i>
2	House Sparrow	<i>Passer domesticus</i>
3	House Crow	<i>Corvus splendens</i>
4	Common Myna	<i>Acridotheres tristis</i>
5	Spotted dove	<i>Spilopelia chinensis</i>
6	Common Domestic Pigeon	<i>Columba livia domestica</i>
7	Hoopoe	<i>Upupa epops</i>
8	Mourning Dove	<i>Zenaida macroura</i>
9	Common Tailor bird	<i>Orthotomussutorius</i>
10	Wag Tail	<i>Motacilla</i>
11	Barn owl	<i>Tyto alba</i>
12	Parrot	<i>Psittaculakrameri</i>
13	Black Drongo	<i>Dicrurusmacrocerus</i>
14	Red Vented Bulbul	<i>Pycnonotuscafer</i>
15	Woodpecker	<i>Dinopiumbenghalense</i>

Table 5.2 LIST OF MAMMALS, REPTILES AND AMPHIBIA

S.No.	Common Name	Scientific Name
1	common Chameleon	<i>Chamaeleochamaeleon</i>
2	Squirrel	<i>Funambulus palmarum</i>
3	Rat	<i>Golundaellioti</i>
4	House lizard	<i>Hemidactylus frenatus</i>
5	Garden lizard	<i>Calotes versicolor</i>
6	Viper	<i>Daboia russelii</i>
7	Cobra	<i>Najanaja</i>
8	Rat Snake	<i>Pantherophisobsoletus</i>
9	Common frog	<i>Rana temporaria</i>
10	Common toad	<i>Bufo bufo</i>
11	Keeled Indian Mabuya	<i>Eutropiscarinata</i>

Table 5.3 LIST OF INSECTS

S.NO.	COMMON NAME	SCIENTIFIC NAME
1	Red ant	<i>Myrmica rubra</i>
2	Black ant	<i>Lasiusniger</i>
3	Dragon fly	<i>Anax indicus</i>
4	Seven spotted Lady bug	<i>Coccinellaseptempunctata</i>

5	Common crow butterfly	<i>Euploea core</i>
6	Scarlet Skimmer	<i>Crocothemisservilia</i>
7	Lime swallowtail	<i>Papiliodemoleus</i>
8	Meal worm beetle	<i>Tenebrio sp</i>
9	Red flour beetle	<i>Triboliumcastaneun</i>
10	Grasshopper	<i>Locusts migratoria</i>
11	Plain Tiger Butterfly	<i>Danaus chrysippus</i>
12	Footman Moth	<i>Nepitaconferta</i>
13	Common house spider	<i>Achaeearaneatepidariorum</i>
14	Brown Cockroach	<i>Periplanetabrunnea</i>

- Campus Fauna Diversity: Some Common Species

Images of some common animal species found in the D.B.M.S. College Campus are shown in following pages.



Common Name - Thick billed flowercatcher
Scientific Name – Diceum agile



Common Name – House sparrow
Scientific Name – passer domesticus



Common Name - Jungle barber
Scientific Name - Turdoides striata



Common Name – Black Dongo
Scientific Name – Dicrurus macrocercus



Common Name - Indian Cockoo
Scientific Name – Cuculus canorus



Common Name – Spotted dove
Scientific Name – Streptopelia chinensis



Common Name - House Crow
Scientific Name – Corvus splendens



Common Name – Common Myna
Scientific Name – Acridotheres tristis



Common Name - Rose ringed parakeet
Scientific Name – Psittacula krameri



Common Name - Sunbird
Scientific Name – Nectarinia asiatica



Common Name - Asian koel
Scientific Name – Eudynamys scolopacea



Common Name – Blue Rock Pigeon
Scientific Name – Columba livia



Common Name - Tree squirrels
Scientific Name – Sciurus Linnaeusa



Common Name – Indian Rat
Scientific Name – Bandicota bengalensis



Common Name - Indian Lizard
Scientific Name – Varanus bengalensis



Common Name – Butterfly
Scientific Name – Lepidoptera



**Flowering Plants used in waste of PCV Pipes
“Best from Waste”**



**Layered Plantation – Plantation under
trees roots followed by college in campus**



**Drinking Pot from waste clay bucket for
birds and other pet animals in the Campus**

“Save birds, Save Yourself”

Avian fauna of D.B.M.S. College of Education Campus

पृथ्वी दिवस पर फैशन शो, देवी-मनीषा बर्नी विजेता

डीबीएमएस कॉलेज फॉर एजुकेशन

जमशेदपुर, 21 अप्रैल
(फ़िफ़्टी) : पृथ्वी दिवस पर
खेडोमएमएस कॉलेज के विद्यार्थियों
ने वेस्ट मेटेरियल से कई आकर्षक
बनाईं। महल मैकिंग विथ वेस्ट
मेटेरियल और फ़ैशन शो
प्रतियोगिता में अनेकों छात्र-
छात्राओं ने भाग लिया। दोनों
प्रतियोगिताओं में बी.एड की छात्रा
निकिता चावल, स्वति सिंह,
मनोज, रेणु, मधुमिता, जया, संजया,
देवी, मनोषा, नेहा, परम्पत्ती आदि
जामिल थीं।

फैशन शो प्रतियोगिता में प्रथम देवी और मनोषा, द्वितीय स्थान नेहा और परमजीत तथा मॉडल मेकिंग



प्रतियोगिता में जया और संध्या प्रथम स्थान, जबकि द्वितीय स्थान रेणु और मधुमिता को मिला। इस

अवसर पर अवकाशप्राप्त मुख्य
संरक्षक आर पी सिंह मुख्य अति
थे। ईवांगेलि

स्टूट के बी चंद्रशेखर, ललित चंद्रशेखर, श्रीप्रिया धर्मराजन, सतीश सिंह, प्राचार्या डा. जुही समर्पित, उपाचार्या डा. मोनिका उज्ज्वल, मीसूमी दत्ता तथा स्वपी शिक्षक, शिक्षिकाएं व अन्य कर्मचारियों की उपस्थिति रही. छात्र-छात्राओं ने आभूषण, वस्त्र आदि का भी निर्माण किया। निर्णायक मंडली में तमिऴ सेल्वी बालाकृष्णन, उपा. रामनाथन और अंबोलि गवेषण थीं. छात्र परचिंदर ने गीत प्रस्तुत किया. संचालन महडाया तथा जौतल ने धन्यवाद दिया।



डीबीएमएस बीएड कालेज में बनेगा ई-कचरा संग्रह केंद्र

कैंपस
जैसे, जमशेदपुर काया विभक्त
लिबोमएलस बोएड कलेज में
इ कारण सलल केड बनाए जाएए।
सल एक्ज काया हुलासक री-
सलललण प्र, ललमलल केड सलन
कलए जाएए।



जीवाणुनाशक क्षीणक कालेजु में नोटेट सार्व ली स्वस्थ = जामरुण

[illegible]

निगंध प्रतिशोधिता में एसकेपीएस की श्वंता रही अब्दुल

[illegible]

कालेज प्रबंधन की सदस्य उपा
रामनाथन व गीता नटराजन भी
उपस्थित थीं। अंजलि राधेशान
का आभोजन हुआ। व
साफल बनाने में अथवा
कुमार सिंह व संजिव
सजिव रहे।

केयू के स्थापना दिवस
पर इनका होगा सम्मान

जोस, बर्बाद होना। यौनमूलक विधिक
स्थापना विदित समग्रता है इन कठिनमूलक
विधियों व विचारधारा कर्मचारी को
सम्मानित विधिया जगहन।

- तुरंत पेशी कमी कठिन बहली -
कैपन पालन, सरावविदित
- पैसुका कार्यन से सीपन विदित
इतिहास विचारधारा रानी कुपुता
अपनी विचार विधि बहली, समग्रता
विचार आरती कुपुता, गृह विचार
विचार प्री विचार समग्रता, कार्यन
विचार उमेश, कार्यन विचार कमी
आपकनी बर्बाद विधि कमी एन जगहन

- जमशेदपुर शर्मा के परिवार के सेवाविप्लव बतुर्ग वगैरह जमशेदपुर में फैलाव राव ।
- जमशेदपुर बीमरस कालेज की पूर्ण

[illegible]

जमशेदपुर. डीबीएमएस कॉलेज ऑफ एजुकेशन के रोटेरेक्ट क्लब और रोटरी क्लब जमशेदपुर फेमिना के संयुक्त तत्वावधान में गुरुवार को ई-वेस्ट पर जगहकता कार्यक्रम कॉलेज में किया गया। अतिथि स्पीकर जुल्को के सीनियर बिजनेस डेवलपमेंट मैनेजर अर्जुन सिंह गिल, श्रुति गोस्वामी, रोटरी फेमिना की सचिव श्रीप्रिया धर्मराजन ने ई-वेस्ट मैनेजमेंट के बारे में बताया। बताया गया कि कॉलेज में एक ई-कचरा संग्रह केंद्र बनाया जायेगा। अंजलि गणेशन की देखरेख में आयोजित कार्यक्रम का संचालन प्रियम सिंह ने किया। मौके पर अध्यक्ष अभिषेक कुमार सिंह, सचिव मिलन जोशी, सुरेखा भुल्लर, अर्पिता मुखर्जी, प्रिंसिपल डॉ जूही समर्पिता, कॉलेज प्रबंधन की सदस्य गीता नटराजन व अन्य मौजूद रहे।

डीबीएमएस कॉलेज में पृथ्वी पर हो रही समस्या पर मंथन

जमशेदपुर: डीबीएमएस कॉलेज ऑफ एजुकेशन में पश्वी दिवस के अवसर पर



उपस्थित रहे। कार्यक्रम का संचालन बीएड तृतीय सेमेस्टर की छात्रा रेखा गोप द्वारा किया गया, बीएड की छात्राओं ने पृथ्वी पर हो रहे विभिन्न समस्याओं से अवगत करवाया। इस समस्या से निकालने का भी रास्ता भी बताया गया। श्रेया विश्वास, ओनम महतो बीएड तृतीय सेमेस्टर और बीएड प्रथम सेमेस्टर की सियोनी चौधरी ने छात्राओं को पृथ्वी में हो रहे प्रदूषण की समस्या के बारे में वीडियो तथा पीपीटी द्वारा इससे अवगत करवाया, उप प्राचार्य डप्ल ने प्लास्टिक को उचित उपयोग करने का सुझाव दिया। प्राचार्य डॉ. जूही ने पृथ्वी के प्रति एक आदमी भी अपने कर्तव्य का पालन सही तरीका से करेगा तो धीरे-धीरे पृथ्वी के प्रदूषण से रोका जा सकता है, उन्होंने कचरा को पुनर्निर्माण विभिन्न रूपों में करने की सलाह दी, इस अवसर पर कॉलेज के सभी छात्र-छात्राएं मौजूद थे, अब्बल आने वाले विजेताओं को परस्कृत भी किया गया।

डीबीएमएस में बनेगा ई कचरा संग्रह केंद्र

जमशेदपुर। डीबीएमएस कॉलेज ऑफ एजुकेशन के रोटरैक्ट क्लब ने रोटरी क्लब ऑफ जमशेदपुर फेमिना के संयुक्त तत्वावधान में ई-वेस्ट जागरूकता कार्यक्रम का आयोजन हुआ। रोटरी फेमिना द्वारा रोटरैक्ट क्लब प्रायोजित है। जुस्को से आए अतिथि स्पीकर सीनियर बिजनेस डेवलपमेंट मैनेजर अर्जुन सिंह गिल और श्रुति गोस्वामी द्वारा ई-वेस्ट मैनेजमेंट के बारे में महत्वपूर्ण जानकारी दी। हुलाडेक रीसाईक्लिंग प्राइवेट लिमिटेड ने उनका सहयोग किया था। कार्यक्रम का संचालन प्रियम सिंह ने किया।

भुल्लर, पूनम कुमारी, निधि कुमारी,
कंचन तिवारी व अन्य उपस्थित थे.

जमशेदपुर : डीबीएमएस कॉलेज ऑफ एजुकेशन के छात्रों ने आज पुस्तक मेले का प्रमोशन किया। मेले में छात्रों ने अपने शिहकों के साथ पुस्तकों की देवा, समझा और खरीदारी भी की। पुस्तक संस्कृति से परिचित कराने के उद्देश्य से उन्हें राष्ट्रीय पुस्तक मेले में ले जाया गया। बीएच 2021-23 बैच के विद्यार्थियों के साथ प्राचार्य जुही समर्पिता, सचिव श्रीप्रिया धर्मराज, गीता नाराजन, तमिल सहवी, डॉ अरुण सज्जन, पामला घोष दाता, केज तिवारी, अमृता चौधरी, मौसमी, गायत्री और पुस्तकालय अध्यक्ष निरुधि सिंह भी थीं, उन्हें सुधा, मुक्ति, आनंद के साथ, चेतन जगत सिंह के करजन सहित पुस्तकालय की कर्मियों द्वारा भी समर्थन दिया गया। कार्यक्रम को छात्रों ने बहुत ही उत्साह के साथ देखा।

जमशेदपुर. डीबीएमएस कॉलेज ऑफ एजुकेशन के विद्यार्थियों द्वारा बुधवार को विश्वविद्यालय स्नातकोत्तर दर्शन शास्त्र विभाग के नैक की तैयारी में दीवारों पर सजावट की गयी। इस अवसर पर डीबीएमएस के प्राचार्य डॉ जूही समर्पिता एवं अध्यक्ष बी चंद्रशेखर, सचिव प्रिया धर्म राजन, सतीश सिंह, डॉ दीपंजय श्रीवास्तव आदि का योगदान रहा। इसे सफल बनाने में ईवा मैम, काजल, रितिक अनुपमा, सौम्या, सायोनी एवं संतोष ने योगदान दिया।

[illegible]

स्कूल के जूनियर व सीनियर दोनों ही सेक्शन के बच्चों ने पेंटिंग, भाषण, नृत्य व गायन के माध्यम से धरती का संरक्षण करने का संकल्प लिया

जमशेदपुर. डाटा वर्कर्स यूनियन उच्च विद्यालय कदमा में बुधवार को जल शक्ति अभियान के तहत पौधरोपण किया गया, इसमें डीडीएमएस कॉलेज के वीएड विद्यार्थियों ने हिस्सा लिया, कुल 50 पौधे लगाये गये, मौके पर सीआरपी राजेश कुमार तथा विद्यालय के प्रधानाध्यापक अखिलेश्वर कुमार सिंह उपस्थित थे, इस अवसर पर विद्यालय के प्रधानाध्यापक ने वर्कर्स को आयोजित हुआ।

DBMS College gets 'Garden of the Year' Award

Jamshedpur, Feb 18: DBMS College of Education received championship award from the Vice President (Corporate Services) of Tata Steel, Chanakya Chaudhary, at Beldih Club on Saturday. It received the award under schools and colleges category for the Eighth Garden of the Year Contest organized jointly by Tata Steel and Horticulture Society, Jamshedpur. The college officials said it was a matter of pride for the institute to have won the prestigious award. They said the college was aware about



environment and horticulture. The college president B Chandrashekhar, Lalita Chandrashekhar, secretary Priya Dhamarajan, Geeta Natrajan and Birendra Pandey were present during the prize distribution ceremony. (w-a)



उदित वाणी संवाददाता

जमशेदपुर : हार्तिकल्चरल सोसाइटी जमशेदपुर की ओर से शनिवार को बेल्टीह क्लब में आठवीं गार्डन ऑफ द ईयर प्रतियोगिता आयोजित की गई. प्रतियोगिता के मुख्य अतिथि टाटा स्टील के वीपी कारपोरेट सर्विसेस चाणक्य

चौधरी ने विभिन्न श्रेणी के विजेताओं को पुरस्कृत किया. उन्होंने कहा कि ऐसे आयोजन शहर को सुंदर, खूबसूरत और हरित बनाने की प्रेरणा देते हैं. इस प्रतियोगिता में जूरी ने दस श्रेणियों में 75 प्रतिभागियों को चुना. मौके पर पुष्प और गार्डन प्रेमियों के साथ ही



डीबीएमएस कॉलेज ऑफ एजुकेशन में हैडवॉस की जानकारी लेते बच्चे। जागरण

विद्यार्थियों को बताई गई हाथ धोने की विधि

जास, जमशेदपुर : डीबीएमएस कॉलेज ऑफ एजुकेशन के रोजा राइट क्लब के द्वारा मंगलवार समाज के अभिर्वाचित वर्ग के बच्चों को हाथ-धोने के महत्व के बारे में बताया गया। डीबीएमएस कदमा प्रोजेक्ट स्कूल तथा लिलिपुट स्कूल के छोटे-छोटे बच्चों को हाथ धोने का साबुन और एक-एक तौलिया रोटरी क्लब ऑफ जमशेदपुर फेमिना की अध्यक्ष ललिता चंद्रशेखर ने दिया। हस्त प्रधालन दिवस के अवसर पर छोटे बच्चों में हाथ धोने के फायदे के विषय में जागरूक करने के लिए एक नुक्कड़ नाटक भी किया गया। इसमें प्रशिक्षु स्नेहा, नीतू, मनीषा, रश्मि, अंकिता, सुवशा, निशी, आभा और खुशबू ने भाग लिया। डीबीएमएस कॉलेज की प्राचार्या डॉ. जूही समर्पिता ने इस प्रोजेक्ट को प्रोत्साहित करते हुए कहा कि स्वस्थ समाज के लिए स्वस्थ तन मन का होना आवश्यक है।



डीबीएमएस कॉलेज का रोटरेक्ट क्लब : गांधी घाट पर चला सफाई अभियान

जमशेदपुर. डीबीएमएस कॉलेज के रोटरेक्ट क्लब के विद्यार्थियों ने रविवार को दीपि सिंह और गौरव को देखोख में गांधी घाट पर सफाई अभियान चलाया. पर्वतारोही प्रेमलता अग्रवाल, इन्स क्लब क्लब की अध्यक्ष मंजु सिंह, प्राचार्य डॉ. जूही समर्पिता ने सभी को सफाई के लिए प्रेरित किया. अंजलि गणेशन को आइडलर धी. नवी किनारे से प्लास्टिक, पुजन सामग्री आदि साफ किया गया. अभियान में पुष्पलता, निक्की सिंह, निशी श्रीवास्तव, पारमला घोष दत्ता व अन्य ने भाग लिया.



JAMSHEDPUR



बी चंद्रशेखर, अध्यक्ष
डीबी एम एस कॉलेज ऑफ एजुकेशन

BREAKING NEWS

ANNEXURE - III

AIR, WATER, COMPOSITE, RWH, PARKING, GARBAGE, ETC



Dustbins at every checkpoints on Campus



Drinking water on Campus

Girls Toilet with Sanitary pad vending machine



fire extinguisher



Supply Water Meter



Rain Water Harvesting Pipelines & recharge Pits



Parking & Ramps pathways for Divyangjan



Composite Pit on Campus



Achievements of the College

Electricity & Water usage of the College

TAX INVOICE / Bill of Supply

Scan To Pay



Original for recipient

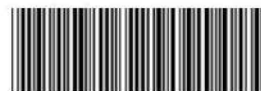
JUSCO		TATA STEEL	
Utility Bill Cum Notice Jamshedpur			
NAME & ADDRESS		BILL DETAILS	
Recipient (BP) No.	0010078262-Consumer No	Bill Type	Periodic Bill Bill No. 003020613143
Recipient (BP) Name	D B MS COLLEGE OF EDUCATION .	Payment Due Date (Current Bill)	18.04.2023
Address	ACOM.NO:DBMSC,SCHOOL BUILDING, RD NO 23 FARM AREA KADMA AREA, Jamshedpur-831005	No. of Pages	01 of 01
		Old Balance / SD Req. Amt (Rs.)	0
		Total of all pages (Rs.)	13473.72
		Previous Outstanding (Rs.)	0
Jharkhand GST State Code - 20 Recipient GSTIN -		TCS Bill Amount	0
Phone No.		GRAND TOTAL (RS.) 13473.72	
Email Address	dbms.edu23@gmail.com	TSL GSTIN - 20AAACT2803M2Z0	
Contracted Demand	79 KW	Period of Bill 23.02.2023 To 27.03.2023 S.Hr. 0768	
Bill Date	28.03.2023 Bill Month Mar	Connection Charges Due (Water)	
Security Deposit Amount (Elec.)	14139		
METER DETAIL AND CONSUMPTION HISTORY			
ELECTRICITY		WATER	
Meter & MR Details	Consumption History	Meter & MR Details	Consumption History
Rate Category	LT Commercial(General)customer--JUSCO	Rate Category	
Meter Serial No.	JUS04110	Meter Sl. No.	
Meter Card No.	62200104	Meter Card No.	
Multiplying Factor	40.0	M.F.	
Meter Status	CONNECTE	Meter Status	
Reading Status	OK	Reading Status	
Curr. Reading Date	27.03.2023	Current. Rdg. Dt.	
Last Reading Date	23.02.2023	Last Rdg.Dt.	
Current Reading	2844.300 KWH	Current Rdg.	KL Meter Size (mm)
Last Reading	2788.000 KWH	Last Rdg.	KL
Unit [Diff X MF] (C)	2252.000 KWH		
Electricity Charges		Water Charges	
Total Consumed KWH (C+P) or B or D	2252.000000	Charged Units (KL)	
Total Consumed kVAh (C+P) or B or D	0.000000	Consumed/ Flat Charges (Rs.)	
Print MD / Billing MD (KW/kVA)	0 / 0	Delay Payment Surcharge (Rs.)	
Load factor (%)	0	Meter Service Charges (Rs.)	
Energy Charges (Rs.)	12498.6	Any Other Charges (Rs.)	
Jharkhand Electricity Duty (Rs.)	749.92	TOTAL WATER (B)	0
Fixed/Demand Charges (Rs.)	0	Other Charges	
Voltage Rebate (Rs.)	0	Non Taxable Rent (Rs.)	0
Load Factor Surcharge/Rebate (Rs.)	0	Taxable Rent (Rs.)	0
FPPPA Charges (Rs.)	225.2	Municipal Contribution (Rs.)	0
Adjustment for Excess Demand (Rs.)	0	Conservancy Charges (Rs.)	0
Delay Payment Surcharge (Rs.)	0	Miscellaneous Charges (Rs.)	0
Early / Digital Pay Rebate (Rs.)	0	GST Rate (%)	9% 9%
Interest on Security Deposit (Rs.)	0	Any Other Charges (Rs.) *	0
Any Other Charges (Rs.) *	0	TOTAL OTHERS (C)	0
TOTAL ELECTRICITY (A)	13473.72	BILL AMOUNT=(A+B+C)	13473.72
Last Payment Detail	Establishment No. 28233SDBMSC199	Service No.	16668 LS-2/
Receipt No.	BILL DESK COLLECTION	Receipt Date.	08.03.2023
Cheque No.		Cheque Date	BILL DESK
		Bank Name	
Dear Customer electricity tariff is changed wef 01.12.2022. New tariff is as per JSERC's order dated 24.11.2022 For any queries call 0657-66-46000/52230			

NEFT/RTGS Details for Payment

Account No: JUSCTS0010078262; Beneficiary Name: TATA STEEL LIMITED JUSCO TOWN SERVICES; Bank Name: HDFC BANK LTD; Branch Name: Kanjurmarg Branch, Mumbai; IFSC Code: HDFC0004989



TAX INVOICE / Bill of Supply

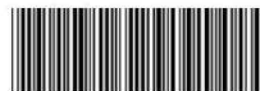


Original for recipient

		JUSCO				TATA STEEL																		
Utility Bill Cum Notice Jamshedpur																								
NAME & ADDRESS					BILL DETAILS																			
Recipient (BP) No.					0010078262-Consumer No		Bill Type		Periodic Bill		Bill No.		003018980944											
Recipient (BP) Name					D B MS COLLEGE OF EDUCATION .		Payment Due Date (Current Bill)		20.09.2021		No. of Pages		01 of 01											
Address					ACOM.NO.DBMSC,SCHOOL BUILDING, RD NO 23 FARM AREA KADMA AREA, Jamshedpur-831005		Old Balance (Rs.)		0		Total of all pages (Rs.)		13139.1											
							Previous Outstanding (Rs.)		-88		TCS Bill Amount		0											
Jharkhand GST State Code - 20 Recipient GSTIN -							GRAND TOTAL (RS.)		13051.10															
Phone No.																								
Email Address					dbms.edu23@gmail.com																			
Contracted Demand					79 KW		TSL GSTIN - 20AAACT2803M2Z0																	
Bill Date		29.08.2021		Bill Month		Aug		Period of Bill		26.07.2021 To 26.08.2021		S.Hr		744										
Security Deposit Amount (Elec.)					14139		Connection Charges Due (Water)																	
METER DETAIL AND CONSUMPTION HISTORY																								
ELECTRICITY							WATER																	
Meter & MR Details				Consumption History			Meter & MR Details				Consumption History													
Rate Category				LT Commercial(General)customer-JUSCO			Rate Category																	
Meter Serial No.		JUS04110		Month		KWH		KVAH		MD		Meter Sl. No.												
Meter Card No.		62200104		JUL(OK)		1704.000						Month		KL										
Multiplying Factor		40.0		JUN(OK)		1560.000						Meter Card No.												
Meter Status		CONNECTE		MAY(OK)		2880.000						M.F.												
Reading Status		OK		APR(DL)		2095.000						Meter Status												
Curr. Reading Date		26.08.2021		MAR(OK)		1960.000						Reading Status												
Last Reading Date		26.07.2021		FEB(OK)		1320.000						Current Rdg. Dt.												
Current Reading		1877.100		KWH				KVAH				Last Rdg Dt.												
Last Reading		1818.600		KWH				KVAH				Current Rdg.		KL										
Unit [Diff X MF] (C)		2340		KWH				KVAH				Last Rdg.		KL										
														Meter Size (mm)										
Electricity Charges							Water Charges							CGST		SGST								
Total Consumed KWH (C+P) or B or D							2340.00							Charged Units (KL)										
Total Consumed KVAh (C+P) or B or D							0.00							Consumed/ Flat Charges (Rs.)										
Print MD / Billing MD (KW/kVA)							0 / 0							Meter Hire Charges (Rs.)										
Load factor (%)							0							Meter Service Charges (Rs.)										
Energy Charges (Rs.)							12285							Any Other Charges (Rs.)										
Jharkhand Electricity Duty (Rs.)							737.1							TOTAL WATER (B)							0			
Fixed/Demand Charges (Rs.)							0							Other Charges							CGST		SGST	
Voltage Rebate (Rs.)							0							Non Taxable Rent (Rs.)							0			
Load Factor Surcharge/Rebate (Rs.)							0							Taxable Rent (Rs.)							0		0	
FPPPA Charges (Rs.)							117							Municipal Contribution (Rs.)							0		0	
Adjustment for Excess Demand (Rs.)							0							Conservancy Charges (Rs.)							0		0	
Delay Payment Surcharge (Rs.)							0							Miscellaneous Charges (Rs.)							0		0	
Early / Digital Pay Rebate (Rs.)							0							GST Rate (%)							9%		9%	
Interest on Security Deposit (Rs.)							0							Any Other Charges (Rs.) *							0		0	
Any Other Charges (Rs.) *							0							TOTAL OTHERS (C)							0		0	
TOTAL ELECTRICITY (A)							13139.1							BILL AMOUNT=(A+B+C)							13139.1			
Last Payment Detail		Establishment No.		28233SDBDBMSC199		Service No.		16668		LS-2														
Receipt No.		4926721		Receipt Date.		11.08.2021		Receipt Amount		9737														
Cheque No.		000505		Cheque Date		11.08.2021		Bank Name		HDFC BANK														
Dear Consumer, Pls pay your bill within due date.Plis ignore if already paid If door found locked for 2 consecutive months meter is liable for disconnection																								



TAX INVOICE / Bill of Supply



Original for recipient

JUSCO		TATA STEEL	
Utility Bill Cum Notice Jamshedpur			
NAME & ADDRESS		BILL DETAILS	
Recipient (BP) No.	0010078262-Consumer No	Bill Type	Periodic Bill
Recipient (BP) Name	D B MS COLLEGE OF EDUCATION .	Bill No.	003019997010
Address	ACOM.NO.DBMSC.SCHOOL BUILDING, RD NO 23 FARM AREA KADMA AREA, Jamshedpur-831005	Payment Due Date (Current Bill)	20.09.2022
Jharkhand GST State Code - 20 Recipient GSTIN -		No. of Pages	01 of 01
Phone No.		Old Balance (Rs.)	0
Email Address	dbms.edu23@gmail.com	Total of all pages (Rs.)	16680.74
Contracted Demand	79 KW	Previous Outstanding (Rs.)	-323.34
Bill Date	30.08.2022	TCS Bill Amount	0
Bill Month	Aug	GRAND TOTAL (RS.)	16357.40
Security Deposit Amount (Elec.)	14139	TSL GSTIN - 20AAACT2803M2ZO	
Connection Charges Due (Water)		Period of Bill	28.07.2022 To 29.08.2022 S.Hr 0768
METER DETAIL AND CONSUMPTION HISTORY			
ELECTRICITY		WATER	
Meter & MR Details	Consumption History	Meter & MR Details	Consumption History
Rate Category	LT Commercial (General) customer-JUSCO	Rate Category	
Meter Serial No.	JUS04110	Meter Sl. No.	
Meter Card No.	62200104	Meter Card No.	
Multiplying Factor	40.0	M.F.	
Meter Status	CONNECTE	Meter Status	
Reading Status	OK	Reading Status	
Curr. Reading Date	29.08.2022	Current Rdg. Dt.	
Last Reading Date	28.07.2022	Last Rdg Dt.	
Current Reading	2510.100	Current Rdg.	
Last Reading	2441.000	Last Rdg.	
Unit [Diff X MF] (C)	2764.000	KL	Meter Size (mm)
		KL	
Electricity Charges		Water Charges	
Total Consumed KWH (C+P) or B or D	2764.000000	Charged Units (KL)	
Total Consumed kVAh (C+P) or B or D	0.000000	Consumed/ Flat Charges (Rs.)	
Print MD / Billing MD (KW/kVA)	0 / 0	Delay Payment Surcharge (Rs.)	
Load factor (%)	0	Meter Service Charges (Rs.)	
Energy Charges (Rs.)	14511	Any Other Charges (Rs.)	
Jharkhand Electricity Duty (Rs.)	870.66	TOTAL WATER (B)	0
Fixed/Demand Charges (Rs.)	0	Other Charges	
Voltage Rebate (Rs.)	0	Non Taxable Rent (Rs.)	0
Load Factor Surcharge/Rebate (Rs.)	0	Taxable Rent (Rs.)	0
FPPPA Charges (Rs.)	1299.08	Municipal Contribution (Rs.)	0
Adjustment for Excess Demand (Rs.)	0	Conservancy Charges (Rs.)	0
Delay Payment Surcharge (Rs.)	0	Miscellaneous Charges (Rs.)	0
Early / Digital Pay Rebate (Rs.)	0	GST Rate (%)	9%
Interest on Security Deposit (Rs.)	0	Any Other Charges (Rs.) *	0
Any Other Charges (Rs.) *	0	TOTAL OTHERS (C)	0
TOTAL ELECTRICITY (A)	16680.74	BILL AMOUNT=(A+B+C)	16680.74
Last Payment Detail	Establishment No.	28233SDBMSC199	Service No.
Receipt No.	BILL DESK COLLECTION	Receipt Date.	03.08.2022
Cheque No.		Cheque Date	BILL DESK
		Bank Name	
		Service No.	16668
		Receipt Amount	16923.1
		LS-2	

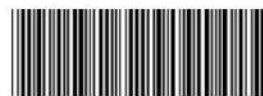
BEWARE, fake power disconnection message is being circulated by scammers. Please do not call the number or download app. For any queries call 0657-66-46000/52230

NEFT/RTGS Details for Payment:

Account No: JUSC0010078262; Beneficiary Name: TATA STEEL LIMITED JUSCO TOWN SERVICES; Bank Name: HDFC BANK LTD; Branch Name: Kanjurmarg Branch, Mumbai; IFSC Code: HDFC0004983



TAX INVOICE / Bill of Supply



Original for recipient

JUSCO		TATA STEEL	
Utility Bill Cum Notice Jamshedpur			
NAME & ADDRESS		BILL DETAILS	
Recipient (BP) No.	0010078262-Consumer No	Bill Type	Periodic Bill Bill No.
Recipient (BP) Name	D B MS COLLEGE OF EDUCATION .	Payment Due Date (Current Bill)	19.01.2023
Address	ACOM.NO:DBMSC.SCHOOL BUILDING, RD NO 23 FARM AREA KADMA AREA, Jamshedpur-831005	No. of Pages	01 of 01
		Old Balance (Rs.)	0
		Total of all pages (Rs.)	9678.86
Jharkhand GST State Code - 20 Recipient GSTIN -		Previous Outstanding (Rs.)	0
Phone No		TCS Bill Amount	0
Email Address	dbms.edu23@gmail.com	GRAND TOTAL (RS.)	9678.86
Contracted Demand	79 KW	TSL GSTIN - 20AAACT2803M2ZO	
Bill Date	29.12.2022	Bill Month	Dec
Security Deposit Amount (Elec.)	14139	Period of Bill	28.11.2022 To 28.12.2022 S.Hr 0720
		Connection Charges Due (Water)	
METER DETAIL AND CONSUMPTION HISTORY			
ELECTRICITY		WATER	
Meter & MR Details	Consumption History	Meter & MR Details	Consumption History
Rate Category	LT Commercial(General)customer-JUSCO	Rate Category	
Meter Serial No.	JUS04110	Meter Sl. No.	
Meter Card No.	62200104	Meter Card No.	
Multiplying Factor	40.0	M.F.	
Meter Status	CONNECTE	Meter Status	
Reading Status	OK	Reading Status	
Curr. Reading Date	28.12.2022	Current Rdg Dt.	
Last Reading Date	28.11.2022	Last Rdg Dt.	
Current Reading	2709.000	Current Rdg.	
Last Reading	2669.300	Last Rdg.	
Unit [Diff X MF] (C)	1588.000		
Electricity Charges		Water Charges	
Total Consumed KWH (C+P) or B or D	1588.000000	Charged Units (KL)	
Total Consumed KVAh (C+P) or B or D	0.000000	Consumed/ Flat Charges (Rs.)	
Print MD / Billing MD (KW/kVA)	0 / 0	Delay Payment Surcharge (Rs.)	
Load factor (%)	0	Meter Service Charges (Rs.)	
Energy Charges (Rs.)	8337	Any Other Charges (Rs.)	
Jharkhand Electricity Duty (Rs.)	500.22	TOTAL WATER (B)	0
Fixed/Demand Charges (Rs.)	0	Other Charges	
Voltage Rebate (Rs.)	0	Non Taxable Rent (Rs.)	0
Load Factor Surcharge/Rebate (Rs.)	0	Taxable Rent (Rs.)	0
FPPPA Charges (Rs.)	841.64	Municipal Contribution (Rs.)	0
Adjustment for Excess Demand (Rs.)	0	Conservancy Charges (Rs.)	0
Delay Payment Surcharge (Rs.)	0	Miscellaneous Charges (Rs.)	0
Early / Digital Pay Rebate (Rs.)	0	GST Rate (%)	9%
Interest on Security Deposit (Rs.)	0	Any Other Charges (Rs.) *	0
Any Other Charges (Rs.) *	0	TOTAL OTHERS (C)	0
TOTAL ELECTRICITY (A)	9678.86	BILL AMOUNT=(A+B+C)	9678.86
Last Payment Detail	Establishment No. 28233SDBBMS199	Service No.	16668
Receipt No.	BILL DESK COLLECTION	Receipt Date.	07.12.2022
Cheque No.		Receipt Amount	9332.22
		Cheque Date	BILL DESK
		Bank Name	

BEWARE, fake power disconnection message is being circulated by scammers. Please do not call the number or download app. For any queries call 0657-66-46000/52230

NEFT/RTGS Details for Payment:

Account No: JUSCTS0010078262; Beneficiary Name: TATA STEEL LIMITED JUSCO TOWN SERVICES; Bank Name: HDFC BANK LTD; Branch Name: Kanjurmarg Branch, Mumbai; IFSC Code: HDFC0004989

Campus Noise Level measurement in decibel



The principal,
DBMS College of Education,
Kadma, Jamshedpur-831005

WMD/LAB/TL-35/ 484 /23
Date: 24/04/23

Sub: Drinking Water Quality of your institute

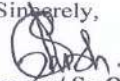
Dear Sir / Madam

Water sample was received on 20/04/23 for testing water quality at our laboratory. Water quality of the sample was found to be Satisfactory as per norms. Chemical & Bacteriological quality of water *sample is appended below.*

Sl. No.	Parameters	Test Result		Standards / Norms	
		Incoming Water DBMS School	Outgoing Water DBMS School	World Health Organization (WHO)	Bureau of Indian Standards (BIS)
1	Turbidity (NTU)	0.6	1.2	≤ 1.0	≤ 1.0 - ≤ 5.0
2	pH	7.3	7.2	6.5-8.5	6.5 - 8.5
3	Free chlorine(mg/l)	0.2	0.1	≥ 0.2	≥ 0.2
4	Colour (Hazen)	2.0	2.8	≤5.0	≤ 5.0
5	Total Coliforms/100ml	Absent	Absent	Absent	Absent
6	E. coli/100ml	Absent	Absent	Absent	Absent

Thanking you and always assuring you our best services.

Yours Sincerely,


Sr Manager/ Sr Officer,
Town Laboratory
Water Management

Water Sample Report, D.B.M.S. College of Education, Jamshedpur



Certificate of Registration

This is to certify that

ABHINAV GRAM FOUNDATION

**265- C, ROAD NO. 1 B, ASHOKNAGAR, RANCHI, PIN- 834002
JHARKHAND, INDIA**

has been independently assessed by QRO
and is compliant with the requirement of:

ISO 9001:2015

Quality Management System

For the following scope of activities:

**DEVELOPMENT AND SOCIAL SERVICES, ENVIRONMENT /GREEN AUDIT
OF INSTITUTIONS OF HIGHER EDUCATION, ENVIRONMENTAL IMPACT
ASSESSMENT (EIA), ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)**

Date of Certification: 1st July 2022


2nd Surveillance Audit Due: 30th June 2024

1st Surveillance Audit Due: 30th June 2023

Certificate Expiry: 30th June 2025

Certificate Number: 305022070241Q




Head of Certification

Validity of this certificate is subject to annual surveillance audits to be done successfully on or before 365 days from date of the audit.
(In case surveillance audit is not allowed to be conducted; this certificate shall be suspended / withdrawn).

The Validity of this certificate can be verified at www.qrocert.org

This certificate of registration remains the property of QRO Certification LLP, and shall be returned immediately upon request.

India Office : QRO Certification LLP

142, 11nd Floor, Avatar Enclave, Near Paschim Vihar West Metro Station, Delhi-110063, (INDIA)

Website : www.qrocert.org, E-mail : info@qrocert.org



Certification & Inspection

Certificate of Registration

This is to certify that the
Requirements for performing inspection
of

ABHINAV GRAM FOUNDATION

at

**265- C, ROAD NO. 1 B, ASHOKNAGAR, RANCHI,
PIN- 834002 JHARKHAND, INDIA**

has been independently assessed and
is compliant with the requirements of:

ISO/IEC 17020:2012

For the following scope of activities:

**DEVELOPMENT AND SOCIAL SERVICES, ENVIRONMENT /GREEN AUDIT
OF INSTITUTIONS OF HIGHER EDUCATION, ENVIRONMENTAL IMPACT
ASSESSMENT (EIA), ENVIRONMENTAL MANAGEMENT SYSTEMS (EMS)**

Certificate Number: UQ - 2022070182

Validity of this certificate can be verified at www.ukcertifications.org.uk/verify

Date of Certification

1st July 2022

1st Surveillance Audit Due

30th June 2023

2nd Surveillance Audit Due

30th June 2024

Certificate Expiry











30th June 2025

Daniel..

Authorised Signatory



This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.
71-75 Shelton Street, Covent Garden, London, WC2H 9JQ, United Kingdom
Website:- www.ukcertifications.org.uk, email:- info@ukcertifications.org.uk
Company No. 11847851

AccuWeather Kadma No.2, Jharkhand 27°C		
Current Pollutants	Air Quality Scale	Over the past hour
PM_{2.5}  Fair	Fine Particulate Matter  are inhalable pollutant particles with a diameter less than 2.5 micrometers that can enter the lungs and bloodstream, resulting in serious health issues. The most severe... more	21 10 µg/m³
PM₁₀  Fair	Particulate Matter  are inhalable pollutant particles with a diameter less than 10 micrometers. Particles that are larger than 2.5 micrometers can be deposited in airways, resulting in health... more	20 20 µg/m³
O₃  Excellent	Ground-level Ozone  can aggravate existing respiratory diseases and also lead to throat irritation, headaches, and chest pain.	16 39 µg/m³
SO₂  Excellent	Exposure to Sulfur Dioxide can lead to throat and eye irritation and aggravate asthma as well as chronic bronchitis.	14 14 µg/m³
NO₂  Excellent	Breathing in high levels of Nitrogen Dioxide  increases the risk of respiratory problems. Coughing and difficulty breathing are common and more serious health issues such as respiratory... more	2 4 µg/m³
CO  Excellent	Carbon Monoxide is a colorless and odorless gas and when inhaled at high levels can cause headache, nausea, dizziness, and vomiting. Repeated long-term exposure can lead to heart disease	1 192 µg/m³

Ambient Air Quality, From Accuweather.com, near D.B.M.S. College of Education on 02.05.23



Plantation by ECO Club on College Campus



