

GREEN AUDIT REPORT And ENVIRONMENT AUDIT



2020-21

**M/s P.E.S COLLEGE OF SCIENCE, ARTS & COMMERCE
M.C.ROAD, MANDYA – 571 401
KARNATAKA STATE.**



Prepared By,

M/s. ENVIRO ENGINEERING SOLUTIONS

ThrupthiNilaya, 8th Cross, Leelavathi Extension,
Maddur, Karnataka - 571428.

CERTIFICATE

M/s. Enviro Engineering Solutions, ThrupthiNilaya, 8th Cross, Leelavathi Extension, Maddur, Karnataka – 571428, has carried out Green Audit and Environment Audit for P.E.S. College of Science, Arts & Commerce, M.C. Road, Mandya-571401, Karnataka State during March, 2021.

Date: 12.03.2021

Place: Maddur

For Enviro Engineering Solution

Authorized Signatory

Proprietor

Dhanraj G.M

TABLE OF CONTENT

Sl. No	Description	Page No
1	Introduction	1-3
2	Basic Information	3-4
3	Infrastructure Facility	5
4	Green Audit	6
5	Methodology	7
6	Applicable of Environmental Regulations	8-9
7	Audit Framework	9-12
8	Field Observation	13-15
9	Recommendations	16
10	Conclusion	16
11	Environmental Audit Introduction	17
12	Environmental Audit committee	18
13	Scope of Environmental Audit	18
14	Observation	18-19
15	Clean and Green Initiatives	20
16	Recommendations	21

EXECUTIVE SUMMARY

Rapid urbanization, industrialization has led to several environmental and ecological crises. Now people have realized the need for Environment protection. Several legislations were enacted by various countries for the protection of the environment. Before initiating action to mitigate the problems, there is a necessity to identify the problem issues. Hence the concept of Green audit has emerged.

The management of P.E.S College of Science, Arts & Commerce, Mandya, is environmentally concerned and has the intention to make the campus eco-friendly. In order to achieve 'The Green Campus', the auditing work was taken up. Before taking up the work a lot of preparatory work was carried out and methodologies developed.

After discussions with the management, stakeholders in the college, field verification of site, regulatory requirement, the report is prepared and also suggestions are made to achieve Green Campus.

1. INTRODUCTION

M/s. P.E.S. College of Science, Arts & Commerce is a reputed Institution in the district of Mandya. The college imparts value based quality education to students belonging to all sections of society and to make higher education an effective instrument for socio-economic transformation in and around Mandya district. The College was established in the year 1966 by People's Education Society currently known as People's Education Trust (R), with the help of philanthropic farmers of Mandya District.

The sole objective of the college was to promote Quality Education among the students of Rural Areas. The Society was founded by the late Sri K.V. Shankaragowda, former Education Minister of Government of Karnataka., an educationist, politician, artist, entrepreneur and a social worker. Later Dr. H.D.Chowdaiah, former Member of Legislative Assembly and council, a well-known educationist and a pioneer in the field of Co-operative, headed Trust. At present the Trust is headed by Sri. K.S. Vijay Anand, former ZP member, Young & energetic youth leader. The college is housed at present in an area of 2.18 acres of land in the heart of the city. Besides the undergraduate college, the People's Education Trust (PET) has the following colleges -

1. P.E.S. College of Engineering.
2. P.E.S. Law College.
3. Shankaregowda College of Education.
4. P.E.S. Pre-University College and
5. P.E.S. High School.

Other Infrastructure facilities provided to the students of our Institution are

1. Swami Vivekananda Auditorium.
2. V.S.V.M. Boys Hostel.
3. P.E.T. Indoor Badminton stadium.
4. P.E.T. Multi-Gym.
5. P.E.T. Aquatic Centre.

6. P.E.T. Cricket Stadium.
7. P.E.T. Synthetic Tennis Stadium.
8. Multipurpose Athletic stadium.
9. P.E.S.C.E. Girls Hostel.
10. P.E.T. Working Women's Hostel and
11. Krishik Sarvodaya Foundation Trust (R).

The Institution at present has Thirty-Two Classrooms, which are adequate to run the College in a single session. New construction has taken place at the cost of Rs.3.8 Cr to create facilities for examination centres and to provide facilities for autonomous status. Presently, the institution is functioning under the grant-in-aid scheme of Government of Karnataka.

VISION: The P.E.S College of Science, Arts and Commerce strives to

1. Build a learning culture.
2. Make students responsible citizens.
3. Create an atmosphere of oneness.
4. Imbibe moral and ethical values.
5. Inculcate traditional values of parental care and community living.
6. Love, Care, protect and improve one's roots.
7. Uphold human values irrespective of caste, creed, race or religion.
8. Dream of becoming a world citizen

MISSION

1. Pursue and achieve excellence in quality teaching, learning and research.
2. Provide access to the students for optimum use of college infrastructure.
3. Foster and encourage innovation and creativity.
4. Recognize and accept social responsibility.

5. Respect and disseminate social harmony and unity in diversity
6. Create an environment of intellectual stimulus, scientific inquiry and responsibility.
7. Integrate global perspective.

2. BASIC INFORMATION

SL.NO	Description	Observation
1	Name of the Institution	M/s. P.E.S. College of Science, Arts & Commerce
2	Address	M.C. Road, Mandya-571 401,Karnataka
3	Contact Person	Sri. Dr. J.Mahadeva
4	Telephone No	08232-220252
5	Mail ID	pessac.mandya@gmail.com pessac.mandya@yahoo.in
6	Website	www.pessacmandya.ac.in
7	Total Area in Sq. feet	786573
8	Green Built Area, Sq. feet	259569
9	No of Staff	106
10	No of Students	2223

11	Type of courses run by college	1. Science- B.Sc. -PCM, PMCs, CBZ, BCA M.Sc. (Mathematics) 2. Arts- B.A: HEP, HES, HEE, HSK, HKF, HPF 3. Commerce- B. Com, M. Com 4. Management- B.B.A
12	Source of Water	Bore well and Rain Water.
13	Water Consumption	1,20,810 litres/day
14	Wastewater Generation	96,648 litres/day
15	No of Pumps	3
16	Bore well	3
17	Latitude and Longitude	12.5269°N, 76.8881 °E
18	Dist-Residence, meters	5
19	Dist-Highway, meters	3
20	Waste water Discharge Point	UGD
21	Power Requirement	100 KW/Day

3. INFRASTRUCTURE FACILITIES

1	Total land available (in acres)	2.18
2	Class Rooms (No. of class rooms and covered area in sq. Ft.)	32 No's, with 23.910 sq. Ft.
3	Laboratories (No. of labs rooms and covered area in sq. Ft.)	7 No's with 7,860 sq. Ft.
4	Central Library	4,680 sq. Ft.
5	Hostels(No. of rooms with students Hostels accommodated)	
	a. Men	85 Rooms Double seaters - 7,000 sq. Ft. (VSVM)
	b. Women	101 Rooms Double seaters - 8.500 sq. Ft. (Girls Hostel)
6	Sports Facilities in the College Campus (indoor/outdoor), Play grounds, Fitness equipment, sports coaches, etc.	1. Cricket stadium (Turf) 2. Swimming pool 3. Indoor facilities a) Shuttle Badminton Court (Wooden) = 4 b) Multi Gym = Men c) Multi Gym = Women 4. Volleyball court with flood light= 2 court 5. Tennis court - Synthetic 3, Clay 1 flood light 6. Basketball with flood light 7. Kho-Kho court with flood light 8. Ball badminton court 9. Kabaddi court 10. Football field

4. GREEN AUDIT

a. Definition

New England Interstate water pollution Control commission defines Green Campus as under.

- 1. Is one that carries out these functions according to a system-wide culture of environmental sustainability, balancing function and design with existing and foreseen resources?**
- 2. Is a place where environmentally responsible practice and education go hand in hand and where environmentally responsible tenets are borne out by example?**
- 3. Institution is a laboratory of self-scrutiny, experimentation, and application. At its best, it is a model environmental community where operational functions, business practices, academic programs, and people are interlinked, providing educational and practical value to the institution, the region, and the world.**

b. Benefits of Green Campus

- 1. Reduced maintenance costs.**
- 2. Productivity gains for the occupants of the campus.**
- 3. Carbon Neutral environment.**
- 4. Un-interrupted clean power supply.**
- 5. Drastic pollution reduction.**
- 6. Healthy, hygienic study environment.**
- 7. Recognition for the organization.**
- 8. Attracts enrollment of students.**
- 9. Sustainable future.**

5. METHODOLOGY

The Green Audit was conducted for M/s. P.E.S College of Science. Arts & Commerce for the academic year 2020-2021 by M/s. Enviro Engineering Solutions to identify green practices being followed, identify the gaps and to make recommendations.

Desk study	Collection of associated legislation Issues in the education institutions Develop audit plan including materials
Field Study	Collecting data regarding environmental issues Identification of gaps
Evaluation	Evaluation of data Discussions with stake holders
Reporting	<ul style="list-style-type: none">• Report writing• Verification of Report• Finalization

6. APPLICABILITY OF ENVIRONMENT REGULATION**a) Environment legislation**

SL. No	Applicable Act	Applicability
1	The Water (Prevention and control of pollution) Act, 1974	Applicable
2	The Water (Prevention and control of pollution) Cess Act, 2003	Not Applicable, after GST, this has become redundant.
3	The Air (Prevention and control of pollution) Act, 1981	Applicable
4	The Environment (Protection) Act, 1986	Applicable
5	The Public liability Insurance Act, 1991	Not Applicable

b) Rules

SL.NO	Applicable Act	Applicability
1	The Water (Prevention and control of pollution) Rules, 2003	Applicable
2	The Water (Prevention and control of pollution) Cess Rules, 1978	Not Applicable
3	The Air (Prevention and control of pollution) Rules, 1983	Applicable
4	The Environment (Protection) Rules, 2016	Applicable
5	The Hazardous and other waste (management and Trans boundary movement) Rules, 2016	Applicable
6	The manufacture, storage and import of hazardous chemicals Rules, 2000	Not Applicable

7	The Chemical accident (emergency planning, preparedness and response) Rules, 1996	Not Applicable
8	The Biomedical waste management Rules, 2016	Applicable
9	The plastic waste (management and handling) Rules, 2016	Not Applicable
10	The solid waste management Rules ,2016	Applicable
11	The E-waste (management and handling) Rules, 2016	Applicable
12	The noise pollution (regulation and control) Rules, 2010	Applicable
13	The batteries (management and handling) Rules, 2011	Not Applicable

7. AUDIT FRAMEWORK

The following audit framework is used for conducting Green Audit:

Sl. No	Audit Area	Audit Observation
1	Water Consumption	
	1. Source of water supply	Bore well
	2. Storage tank capacity	100 KLD
	3. Total Population in Campus	1858 No's
	4. Hostel Population	
	1) Boys Hostel (85 rooms, 2 No's in each Room);taking average consumption of 145 litres/capita/day	Total water Consumption=24,650 litres/capita/day

	2) Girls Hostel (101 room, 2 No's in each Room); taking average consumption of 145 litres/capita/day	Total water Consumption=29,290 litres/capita/day
	3) Non-residing Population (Difference of Total Population and Hostel Population); taking average consumption of 45 litres/capita/day	1486 No's Total water Consumption=66,870 litres/capita/day
	4) Total water consumption of the campus (addition of Hostel consumption and Non-residing consumption)	1,20,810 litres/day
2	Waste water Generation	
	1.Total wastewater generated from the campus (80% of total water consumption)	96,648 litres/day
	2.Wastewater discharge	Underground Drainage (UGD)
	3.Lab Effluent	100 litres; effluent is treated and then discharged to the UGD line.
3	Domestic Hazardous Waste	Waste is generated from DG Set and from laboratories (negligible quantity)
4	Solid Waste	
	Under Solid waste Management Rules, 2016 institution is covered under the definition-"Bulk waste generator"	

	Means and includes buildings occupied by the Central Government Departments or undertakings, State Government Departments or undertakings. Local Bodies, Public Sector undertakings or Private Companies, Hospitals, Nursing Homes. Schools, Colleges, Universities. Other Educational Institutions, Hostels, Hotels, Commercial Establishments, Markets, Places of Worship, Stadia and Sports Complexes having an Average Waste Generation Rate Exceeding 100 Kg/Day.	
	Dry waste (office & classroom); Avg generation of 0.4 kg/day	743.2Kg/day-collected by the city corporation.

	Wet waste(canteen & hostel);Avg generation of 0.4kg/day	858.8kg/day-sent to piggery.
5	Air Pollution	Source of air pollution – D.G. set.
6	E-Waste Under E-waste Management Rules, 2016 institution is covered under the definition "Bulk Consumer" Means Bulk Users of Electrical and Electronic Equipment such as Central Government or State Government Departments, Public Sector Undertakings, Banks, Educational Institutions, Multinational Organizations, International Agencies, Partnership and Public Or Private Companies that are Registered under the Factories Act, 1948 (63 of 1948) and Companies Act, 2013	
7	Hazardous waste	Used Oil is generated from DG Set; it is stored in a leak proof container in a scientific manner.
8	Rain water harvesting	The college has implemented the rain water harvesting mechanism.
9	Solar Energy	The college has not yet implemented the solar energy, it will be done in future academic year
10	Environmental Policy	Environmental policy is present
11	Environmental awareness Programs/conference/workshops	The various programs conducted/attended by the College are: 1. Emission Test Camp. 2. Plantation Program. 3. Awareness program to save water in Mandya City. 4. Celebrates World Environmental Day every year. 5. Green Marathon

12	Waste Management	<ol style="list-style-type: none"> 1. Solid waste has been stored in different coloured bins such as <ol style="list-style-type: none"> a. Green Colour Biodegradable waste or wet waste b. Blue Colour - Non biodegradable Wastes" or the "Dry Waste 2. Domestic Hazardous waste separate stored in a bin in scientific manner 3. E-waste stored in separate storage bins in a scientific manner. 4. Bio-medical Waste stored in different bins with different colour such as: <ol style="list-style-type: none"> a. Black- non-infected waste b. Red-Soiled waste c. Blue-Infected plastics d. White-Sharps
13	College Achievements in line with Government	<ol style="list-style-type: none"> 1. The college has reduced energy consumption by using LED lights instead of traditional lights due to which 20% of the electric energy is saved 2. They are using Solar water heaters in hostels boys & girls) instead of electric energy 3. RO water filter is installed on campus. 4. As per IS standards, the college has maintained 33.33% of Green Belt Area. 5. The college is plastic, litter & smoke free campus.

8. FIELD OBSERVATIONS

SL. No	Control Objectives	Controls	Audit Observation
1.	To minimize water consumption	Repair sources of water leakage, such as dripping taps as quickly as possible.	The college carries out regular checking and maintenance of pipelines, taps to control water wastage.
		Install appliances which reduce water consumption such as, Aerators on taps used for hand washing, Installing water misers, Landscaping with drought- tolerant plants, Dual flush toilets, Leak technology, detection Recycling rooftop rainwater, Rooftop vegetation, Hand sanitizers.	Yes, the college is positive in installing rain water harvesting mechanisms to reuse rainwater in toilets. Gardening, and washing of corridors. Yes, the college encourages all its faculties and student body to decrease water usage
		Encourage a decrease in water usage among staff, students and conference guests.	
		Use a hygienic efficient water and storage mechanism to minimize the loss of water during storage.	The college has included a leak management program to minimize the real losses of water during storage.
		Minimize the wastage of water, if RO filters are used and regular service to be done.	RO Filters are implemented of 25 liters capacity in each floor of the new building.
		Install water recycling mechanism i.e., rain water harvesting system.	The college has implemented the Rain water Harvesting system.
2	Minimize the use of chemical	Ensure that all cleaning products used by college have minimal detrimental impact on the environment.	Negligible amount of washing liquids are used in college and all toilet cleaners are eco-friendly.

	pollutants and Hazardous waste	Minimize the use of fertilizers and pesticides in college grounds, opting for the use of compost. Produced on site wherever possible.	Negligible amounts of fertilizers and pesticides are used in the college.
		Dispose the chemical waste generated from laboratories in a scientific manner.	Most of the waste generated is water-soluble and ultimately disposed of to UGD, which is in diluted form but before discharging into UGD, necessary treatment is done.
		Reduce the practice of burning plastic and other material that emits harmful gas on burning.	No such burning is observed/evidence at the time of auditing by us.
		Provision of Separate bins for Storage of Domestic Hazardous waste as per the norms.	Yes, the college maintains separate Hazardous waste storage bins to store the generated domestic hazardous waste.
		Provision of Storage room for Domestic Hazardous waste as per norms.	Separate storage room is not provided. Since domestic hazardous waste is generated.
3	Minimize Air pollution in the campus.	Identify the sources of air pollution.	The college has identified different air pollution sources.
		Maintenance and periodic sampling of identified air pollution sources.	The sampling of identified pollution periodically maintained.
		Is the Ambient Air Quality (AAQ) Monitoring within the National Ambient Air Quality (NAAQ) Standards?	Yes, AAQ is within the NAAQ Standards.
4	Ensure that environmental awareness is	Conduct environmental awareness workshops as a part of the program.	Yes, the college conducts such programs.

	created	Conduct events such as planting trees to spread environmental awareness among the students.	Have an active club to conduct events.
		Promote environmental awareness as a part of course work in various curricular areas, independent research projects.	Yes, the college has a Environmental Science subject, wherein environmental awareness is promoted.
		Awareness programs to promote recycling among staff, students through training, posters and incentives.	Yes, the college promotes recycling among staff and students regarding.
5	Ensure that Environmental Policy is enacted, enforced and reviewed	Establish a college Environmental Committee that will hold responsibility and serve as a source of advice and guidance to staff and students on how to implement the policy.	The college has implemented the Environmental Policy.
		A Green officer who is engaged in the profession of providing guidance on environmental impact.	Yes, there is a green officer.

9. RECOMMENDATION

1. The college is already using LED lights in hostels instead of traditional lights and is saving 20% of electricity; if the college uses solar panels for the whole campus it can save electricity.
2. Engage a Green/Maintenance Officer to look over environmental issues and create environmental awareness in the campus.

10. CONCLUSION

The Audit carried out in the M/s. P.E.S College of Science, Arts & Commerce and discussions with stakeholders indicate that there is willingness to convert the campus into a green campus. Time schedule for implementation will go long way in achieving the desired objective.

Environmental Audit

INTRODUCTION (2020-21)

PES College of Science, Arts & Commerce has realized the paramount importance of environment audit. Self-assessment of the environment will reflect the responsibility of the College in mitigating the environmental problems, if any, within the Campus. The College has been making efforts to keep the environment clean and hygienic, since its inception,

Environment audit is used to determine the type and volume of waste, which can be used for a recycling project or to improve waste minimization process. Environment audits can create health consciousness and promote environmental awareness, values and ethics. It provides a better understanding of environmental impact within the Campus, to the staff and students.

OBJECTIVES

The purpose of the environment audit is to identify, quantify, describe and prioritize the framework of environmental sustainability in compliance with the applicable regulations, policies and standards.

The major objectives of the environment audit are as follows:

- To assess the quality of soil within the Campus to investigate the quality of water available in the open wells
- To analyze the impact of our activities on quality of ambient air
- To assess the impact of our activities a noise pollution.
- To evaluate the waste management strategies.

ENVIRONMENT AUDIT COMMITTEE

Following committee has been constituted in order to achieve the objectives of the environment audit:

1	Puneeth G.M.
2	Dr. J. Mahadeva
4	Dr.Manjunatha.M
5	Veerasha. S.K
6	Gireesh.R
7	Bhavya H.S

SCOPE OF ENVIRONMENT AUDIT

The scope of environment audit encompasses the assessment of quality of soil, quality of water, quality of ambient air, causes for noise pollution, if any, and evaluation of waste management practices adopted by the College.

The assessment of quality indicates fertility. The assessment of quality of water indicates potability of water. The assessment of quality of air indicates the impact of our activities on quality of ambient air. The assessment of noise pollution indicates the impact of our activities in creating noise. The evaluation of waste management practices indicates the efficiency of such practices.

OBSERVATIONS

The observations with respect to the Environment Audit are as follows:

- **Assessment of Quality of Soil**

As the Campus constitutes more herbs, shrubs and trees which indicates the soil fertility in general. The soil sample was collected from prominent places within the Campus as per protocol. The soil sample was mixed well and air dried. Further, the soil sample was given, for testing, to the department of Geology,PES college of engineering, Mandya.

The soil sample was subjected to various tests to identify potential of hydrogen (pH) value, electrical conductivity, organic carbon and nutrients like, nitrogen, phosphorous, potassium, zinc, iron, copper, manganese, boron, sulphur, calcium, magnesium, etc. According to the report the quality of the soil is good with enriched nutrients, moist condition and useful microorganisms.

Clean and Green Campus Initiatives

Biodegradable waste is composted using vermin composting and aerobic composting techniques.

The compost produced is utilised for growing vegetables, fruits, flowers, ornamental plants and trees. Non-biodegradable waste that can be recycled are initially stored in the waste storage area, until a sizable quantity is accumulated and then sold to scrap vendors. Non-biodegradable waste that cannot be recycled is handed over to Mandya Municipality City Corporation (MMCC) on a daily basis. Highly insignificant quantity of food waste so collected is handed over to the cattle and pig rearing agri-entrepreneurs.

Partial grey water is utilised for watering some of the plants and trees. Remaining grey water and black water is let into the underground drainage facility provided by the MMCC. Liquid chemical waste is diluted before discarding into the wash basin.

Used sanitary napkins, cotton swabs, bandages are incinerated in conventional thermal incinerators and residual ash is handed over to MMCC. Tissue cultures, media and needles are sterilized through heat killing methods using a pressure cooker and wrapped in specific polythene bags and then handed over to MMCC. Biomedical waste generated during health and blood donation camps are handed over to the collaborating hospital for the proper disposal.

E-wastes are rarely generated. The quantity of e-waste generated is negligible. Buy back arrangement has been made for disposal of batteries. Equipment procured through governmental sponsorship (UGC, etc.) are stored as per respective guidelines. Other e wastes are handed over to scrap vendors.

The experiments conducted in the laboratories do not require hazardous chemicals and radioactive elements. After segregation the chemicals are neutralized and diluted before discarding. Outdated and decolourised chemicals are stored separately and returned to the supplier. Further, organic pesticides are used in the campus. Organic floor cleaners are being used.

Following waste recycling initiatives are practised in the College:

- **Unused sheets of the test booklets are used as scribbling pads.**
- **Single-use plastic bottles are used to grow plants in the bottle garden.**
- **Wires are reused during the experiments, as much as possible, to reduce and recycle ewaste.**

RECOMMENDATIONS.

Following recommendations have been made by the Committee for further improvements:

- **Continue to use organic manure and pesticides so as to maintain the quality of soil.**
- **Periodic maintenance of open wells shall be carried out.**
- **Increase the green coverage by planting more herbs, shrubs and trees.**
- **Continue the waste management practices.**
- **Competitive quotations shall be called for selling the scrap materials.**
- **Continue to use organic floor cleaners.**
- **Continue the waste recycling initiatives that are presently being practice**

ENERGY AUDIT



2020-21

**M/s P.E.S COLLEGE OF SCIENCE, ARTS & COMMERCE
M.C.ROAD, MANDYA – 571 401
KARNATAKA STATE.**



Prepared By,

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CERTIFICATE

M/s. Enviro Engineering Solutions, Thrupthi Nilaya, 8th Cross, Leelavathi Extension, Maddur, Karnataka – 571428, has carried out Energy Audit for P.E.S. College of Science, Arts & Commerce, M.C. Road, Mandya-571401, Karnataka State during March, 2021.

Date: 12.03.2021

Place: Maddur

For Enviro Engineering Solution

Perath. e.m.
Authorized Signatory
Proprietor

ACKNOWLEDGEMENT

We are thankful for Management of P.E.S. College of Science, Arts & Commerce, Mandya, for giving us an opportunity to conduct an energy audit for their college.

It is appreciable that Management is showing concern to save energy & environment and taking all initiations. It will also motivate others. Energy conservation is not just a matter of saving money, but the environment & natural resources too. In this concern Initiation to conduct an audit will be the first step.

We are thankful to the Principal & all staff of P.E.S. College of Science, Arts & Commerce who has shown interest and also supported us. It's their involvement that encouraged us to put our best possible effort to deliver the best possible result.

The Corona pandemic has affected work flow, this has put a lot of stress and uncertainty. Despite this all staff have put their effort and given time in their tight schedule. We thank everyone.

All concerned teaching & office staff have contributed to the energy audit process with maximum information, clearly and timely.

Thanking all

TABLE OF CONTENT

Sl. No	Description	Page No.
01	About P.E.S. College of Science, Arts & Commerce, Mandya.	1
02	Energy Conservation Measures Adopted At Present	2-3
03	Scope Of Energy Audit	4
04	Consumer Power Input Details -Other Major Sources Of Energy	5-6

P.E.S. College of Science, Arts & Commerce, Mandya

Category	Educational institution
Year of establishment	1966
Total area of campus	3.00 acres
Energy consumption per annum	6.4666 units per annum
Individual built-up area	
Classroom	42
Lab	07
Admin	02
Auditorium	01
Hostel	01
Type of major load	
UPS and Computers	UPS-05 and computers-245
Air conditioner	04
Lighting	516
Fans	295
pumps	03

2. Energy conservation measures adopted at present

1) Use of LED lights

Using 18w LED lights in place of 40 w tubes

Savings $22\text{w} \times 8 \text{ hours} \times 210 \text{ days} \times 147\text{nos} = 5433 \text{ units}$

Savings by use of 9w LED tube light in place of 40w fittings

$= 31\text{w} \times 8\text{hours} \times 210 \text{ days} \times 197 \text{ nos} = 10259 \text{ units}$

Total saved = $5433 + 10259 = 15692 \text{ units}$

2) Use of street lights:

There are 05 street lights in the premises:

Savings per annum- $05 \text{ nos} \times 40\text{w} \times 365 \text{ days} = 73000 \text{ watt hour}$ Savings
approximate 73 units

3) Use of 4 star rated refrigerator

Energy saved by use of 4 star refrigerator instead of old refrigerator

Total cooling capacity-1990 ltrs

Energy consumption- (BEE std)- 3144 units/annum

Savings compared to single star or old refrigerator

Based on BEE CEC- Comparative energy consumption criteria till 31.dec 2016

Savings 37%

Normal consumption- present consumption =

$4990 - 3144 = 1846 \text{ units per annum.}$

4) Use of air conditioner of 4 Star equivalent

Savings by use of 3 star rated equivalent air conditioners with EER 3.2 in comparison with EER 2.3 of single star BEE 2011

Savings case 1-29% - $661 \text{ units} \times 2 = 1322 \text{ units}$

Savings case 2-21% - $94.63 \text{ units} \times 2 = 189 \text{ units}$

Total saved = 1322 + 189 = 1511 units

1) Total energy saved per annum

Energy conservation measures	Energy saved per annum
Use of LED lights	15692
Use of 4 star rated refrigerator	1846
Use of 3 star rated Air Conditioners	1511
Total energy saved per annum	19049 units per annum.

2) Cost benefit;

Tariff LT2(b)

Low tension 440v/230vac supply

Segment- educational installation.

Considering unit rate 7.50 Rs

Cost saved- $19049 \times 7.50 = 142867.5$ rs per annum.

3) Environmental benefit

Saving in greenhouse gas emission carbon dioxide

= $31217 \text{ Units} \times 0.8 \text{ kg/kwh} = 24973 \text{ kgs of CO}_2$

3. Scope of Energy Audit:

This energy audit is conducted with the following scope.

- **Study of energy Utilization bills for one year**
- **Energy Source-Transformer centre**
- **Demand side study (Equipment type, Usage, Energy Conservation option)**
- **Power quality (Voltage, Current & PF)**
- **illumination**
- **Automatic controls usage**
- **Renewable Energy Present usage and option for solar on grid system**

Process;

- ❖ **Site walk through**
- ❖ **Data collection**
- ❖ **Test & measurements**
- ❖ **Analysis**
- ❖ **Draft report (Abstract)**
- ❖ **Concluding meeting**
- ❖ **Final report submission.**

04. CONSUMER POWER INPUT DETAILS

NAME	PES COLLEGE OF SCIENCE, ARTS & COMMERCE COLLEGE, MANDYA
CATEGORY	AIDED EDUCATIONAL INSTITUTION
CONTACT DEMAND	72.87KW + 0 HP
TARIFF	S-9456
TYPE OF SUPPLY	LT 440V /3PH
TRANSFORMER	100KVA / DEDICATED/
INPUT TO TRANSFORMER	11KV ,3ph
T.C. LOCATION	INSIDE CONSUMER PREMISES
RRNO	S-9456
AVGMD	30KVA
ENERGY CHARGES	RS 7.95 + TAX
FIXED CHARGES	RS 65/- PER KW
NORMAL CONSUMPTION	19049 UNITS PER ANNUM
AMOUNT SPENT ON ELECTRICITY	Rs 142867.5. Per annum
SUB METERING	YES -FOR ATM

OTHER MAJOR SOURCES OF ENERGY

SOLAR ROOFTOP ON GRID SYSTEM	NIL
SOLAR OFF GRID SYSTEM	Nil
DIESEL GENERATOR	KIRLOSKAR GREEN POWER IDEAS. NOISE LIMIT-<75dB(A) At 1Mtr.

Beyond the Campus

Environmental promotion and sustainability activities



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co-ordination	Forest department		
Title of the Program	D - line Burning Program & service camp		
Date	30-12-2020 to 05-01-2021	Time / Days	07 days
Venue	Bandipura National Reserve Forest, Himavad Gopalaswamy temple, Bandipur		
Objectives	<ul style="list-style-type: none">❖ To understand the importance of social responsibility❖ To Protecting the forest from wildfire		
Number of staff participated	02	Number of students Participated / benefitted	18
Outcomes	<ul style="list-style-type: none">➤ Forest protection from wildfire➤ Preventing the spread of wildfire➤ Students tend to be overly protective of forest protection.		
Details of the Organizing Committee	Rovers scouts leader Sri S.K.Veerasha Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		
Any other relevant information	06 Members senior rovers participated Appreciation letter is given by Forest Department.		


S.K. Veerasha
Rovers Scouts Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

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Principal

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P.E.S. Mandya Rovers crew
"D- Line Burning Program"
30-12-2020 to 05-01-2021
List of Participated Students

Sl.No.	Name	Course
1.	Adarsha H.R	3 rd B.Sc
2.	Yadunandan H.S	3 rd B.Com
3.	Lokesha G	3 rd B.A
4.	Manjunatha D.N	3 rd B.Com
5.	Sudeep T.M	3 rd B.Com
6.	Arjun K.S	3 rd B.com
7.	Raveesh Gowda B.C	2 nd B.Com
8.	Prajwal V.P	2 nd B.Sc
9.	Ranjan Kumar	2 nd B.Sc
10.	Puneeth N	2 nd B.Sc
11.	Panchaksari Aradya	2 nd B.Sc
12.	Aruna G N	2 nd B.Sc
13.	Dinesh K	2 nd B.Sc
14.	Sanjay K. K	2 nd B.Sc
15.	Maheshgowda N	2 nd B.A
16.	Nagendramurthy N.D	2 nd B.Sc
17.	Harish M.R	2 nd B.Sc
18.	Nagesh B	2 nd B.A


S.K. Veerasha
Rovers Scout Leader
P.E.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
& Commerce, MANDYA.

Relevant Photos
“D- Line burning Program”



Appreciation Letter from the Bandipur Forest Officer

ಕರ್ನಾಟಕ ಸರ್ಕಾರ



ಅರಣ್ಯ ಇಲಾಖೆ

ವಲಯ ಅರಣ್ಯಾಧಿಕಾರಿಗಳ ಸಭೆ, ಗೋಪಾಲಸ್ವಾಮಿಪುರ ವಲಯ, ಮೇಲುಕಾಮನಹಳ್ಳಿ, ಗುಂಧ್ಲಿಕೆಲೆ ತಾ|| 571126

ಸಂ.ವ.ಅ/ಗೋ.ವ/ಅ.ಸಂ.ಕಾ.ಭಾ/ಅ.ಸ/2021-22

ದಿನಾಂಕ:05-01-2021

ರವರಿಗೆ,

ಪ್ರಾಂಶುಪಾಲರು

ಪಿ.ಇ.ಎಸ್. ವಿಜ್ಞಾನ, ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು

ಮಂಡ್ಯ

ಮಾನ್ಯರೇ,


ವಿಷಯ: ಅಭಿನಂದನೆ ಸಲ್ಲಿಸುತ್ತಿರುವ ಕುರಿತು

....

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಬಂಡೀಪುರ ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶದ ಗೋಪಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ ವಲಯದಲ್ಲಿ ದಿನಾಂಕ:30-12-2020 ರಿಂದ 05-01-2021 ರವರೆಗೆ ಮಂಡ್ಯದ ಪಿ.ಇ.ಎಸ್. ವಿಜ್ಞಾನ, ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ "ಪಿ.ಇ.ಎಸ್ ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ರೀಡಾ" ನ ರೋವರ್ಸ್ ಸ್ಕೌಟ್ ಲೀಡರ್ ಪ್ರೊ. ಎಸ್.ಕೆ.ವೀರೇಶ ರವರ ನೇತೃತ್ವದಲ್ಲಿ ಸಹಾಯಕ ರೋವರ್ಸ್ ಸ್ಕೌಟ್ ಲೀಡರ್ ಪ್ರೊ.ನಂದೀಶ್‌ಕುಮಾರ ಎಂ.ಎಸ್ ಮತ್ತು 18 ಮಂದಿ ರೋವರ್‌ಗಳು ಹಾಗೂ 8 ಮಂದಿ ಸೀನಿಯರ್ ರೋವರ್‌ಗಳು ಅರಣ್ಯಕ್ಕೆ ಬೆಂಕಿ ಬಿದ್ದು ನಾಶವಾಗದಂತೆ ಮುಂಜಾಗ್ರತಾ ಕ್ರಮವಾಗಿ ನಡೆಸುವ "ಡಿ ಲೈನ್ ಬರ್ನಿಂಗ್" ಕಾರ್ಯದಲ್ಲಿ ಸಕ್ರಿಯವಾಗಿ ಭಾಗವಹಿಸಿ, ಅರಣ್ಯ ಸಂರಕ್ಷಣಾ ಕಾರ್ಯದಲ್ಲಿ ಭಾಗವಹಿಸುತ್ತಿರಿ. ನಿಮ್ಮ ಸಹಕಾರ ಹೀಗೆ ಮುಂದುವರೆಯಲೆಂದು ಆಶಿಸುತ್ತ ಅರಣ್ಯ ಇಲಾಖೆ ವತಿಯಿಂದ ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.

ಧನ್ಯವಾದಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ,


ಕರ್ನಾಟಕ ಅರಣ್ಯಾಧಿಕಾರಿ,
ಗೋಪಾಲಸ್ವಾಮಿಪುರ ವಲಯ
ಮೇಲುಕಾಮನಹಳ್ಳಿ


S.K. Veerasha
P.E.S. Scout Leader
P.E.S.A & C. College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.


M.C. Road, Mandya, Karnataka - 571 401

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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co- ordination	Municipality & Kayaka yogi samste		
Title of the Program	Awareness jatha on cleanliness movement and dry litteer separation		
Date	06-03-2021	Time / Days	02.30PM to 06.00PM
Venue	Dr. siddagangashree park, Swarnasandra , Mandya		
Objectives	<ul style="list-style-type: none">❖ The cleanliness Drive would promote the values of cleanliness❖ Discipline and respect for the environment in the students.❖ Educate and sensitize them about the importance of cleanliness for a healthy, socially responsible, economically dynamic and progressive nation.		
Number of staff participated	2	Number of students Participated / benefitted	18
Outcomes	<ul style="list-style-type: none">➤ The public is separating the garbage and dry garbage and maintaining social hygiene.➤ The public is engaged in keeping their surroundings clean.➤ Separate garbage and dry trash are being sent to the municipal vehicle.		
Details of the Organizing Committee	Rovers scouts leader Sri S.K.Veerasha Asst. Rovers scouts leader Nandeesh kumara M.S		
Any other relevant information	Appreciation Letter from the Neharu Yuva Kendra		


Rovers Scouts Leader
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

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Dr.J.Mahadeva, M.Sc., Ph.D,
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P.E.S. Mandya Rovers crew

"Awareness Procession on cleanliness movement and Dry litter separation"

06-03-2021

List of Participated Students

Participations List		
Sl. No.	Name	Class
1.	Adarsha H.R	3 rd B.Sc
2.	Yadunandan H.S	3 rd B.Com
3.	Raveesh Gowda B.C	2 nd B.Com
4.	Panchaksari Aradya	2 nd B.Sc
5.	Manoj	2 nd B.Sc
6.	Manojkumar M	1 st B.Com
7.	Sukruth D P	1 st B.Com
8.	Darshan K	1 st B.Com
9.	Srinivasa K	1 st B.Com
10.	Adarsh B.L	1 st B.Com
11.	Abhi M.R	1 st B.Com
12.	Gururaj H S	1 st B.Com
13.	Gagan M R	1 st B.Com
14.	Rathan Gowda K.M	1 st B.Com
15.	Harsha J	1 st BCA
16.	Uday Kumar Y S	1 st B. Sc
17.	Shashank Gowda U N	1 st B.sc
18.	Nithin M B	1 st B.Sc


S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.

Relevant Photos

Cleanliness movement and dry litter separation Program



Appreciation Letter from the Neharu Yuva Kendra

ಭಾರತ ಸರ್ಕಾರ
ಯುವ ಕಾರ್ಯ ಹಾಗೂ ಶ್ರೀಧಾ ಸಚಿವಾಲಯ
ನವರು ಯುವ ಕೇಂದ್ರ, ಮಂಡ್ಯ.



ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಜಿಲ್ಲಾಧಿಕಾರಿ, ಜಿಲ್ಲಾ ಪಂಚಾಯತ್, ಮಂಡ್ಯ
ನಗರಸಭೆ, ಮಂಡ್ಯ.

ಕರ್ನಾಟಕ ಪಬ್ಲಿಕ್ ಶಾಲೆ ಮತ್ತು ಬಾಲಕೀಯರ ಸರ್ಕಾರಿ ಪದವಿ ಪೂರ್ವ ಕಾಲೇಜು, ಅರಕೇಶ್ವರ ನಗರ.
ಕಾಯಕಯೋಗಿ ಸಮೂಹ ಸಂಸ್ಥೆ (ಲಿ), ಮಂಡ್ಯ.
ಅನನ್ಯ (ಹಾರ್ಟ್) ಹೆಲ್ತ್ ವಿಜುಕೇಷನ್ ಅವೆರ್ನೇಸ್ ಮತ್ತು ರೂರಲ್ ಡೆವಲಪ್ ಮೆಂಟ್ (ಲಿ.), ಮಂಡ್ಯ
ಜಾಗೃತಿ ಯುವತಿ ಮತ್ತು ಮಹಿಳಾ ಮಂಡಳಿ, ಮಂಡ್ಯ.
ಇವರ ಸಹಯೋಗದಲ್ಲ.



ಶ್ರೀ / ಶ್ರೀಮತಿ / ಕುಮಾರಿ ... ಉದಯ್ ಕುಮಾರ್ ಎಸ್. ಎಸ್. ಹಾಜೆ ... ರೋಷನ್ ... ಸಂಘ / ಸಂಸ್ಥೆ
... ಪಿ. ಜಿ. ಎನ್. ಮಂಡ್ಯ ರೋಷನ್ ಕ್ರೀಮ್ ... ಪಿ. ಜಿ. ಎನ್. ಮಂಡ್ಯ ರೋಷನ್ ಮಂಡ್ಯ ಜಿಲ್ಲೆಯಲ್ಲಿ ಇವರು
ದಿನಾಂಕ : 06-03-2021 ಸ್ಥಳ : ಸಿದ್ಧಗಂಗಾಶ್ರೀ ಉದ್ಯಾನವನ, ಬೆಂಗಳೂರು - ಮೈಸೂರು ಮುಖ್ಯ ರಸ್ತೆ, ಮಂಡ್ಯ. ಇಲ್ಲಿ ಯುವ ಜನರಿಗೆ

ಸ್ವಚ್ಛತಾ ಅಂದೋಲನ ಮತ್ತು ಹಸಿರಣ ಮತ್ತು ಒಳಕಣ ಬೇರ್ಪಡಿಸುವ ಕುರಿತು ಜಾಗೃತಿ ಜಾಧಾ

ಎಂ. ಶಿವಕುಮಾರ್
ಅಧ್ಯಕ್ಷರು, ಕಾಯಕಯೋಗಿ ಸಮೂಹ ಸಂಸ್ಥೆ,
ಮಂಡ್ಯ.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಭಾಗವಹಿಸಿರುತ್ತಾರೆ.

ಅನುಪಮ ಜಿ.ಎನ್
ರಾಷ್ಟ್ರ ಪ್ರಶಸ್ತಿ ಪುರಸ್ಕೃತರು,
ಮಂಡ್ಯ.

ಜಯಶ್ರೀ
ಪೌರಾಯುಕ್ತರು, ನಗರಸಭೆ,
ಮಂಡ್ಯ.

(ಅನಂತಪ್ಪ)
ಜಿಲ್ಲಾ ಯುವಜನ ಅಧಿಕಾರಿ
ನವರು ಯುವ ಕೇಂದ್ರ, ಮಂಡ್ಯ.

Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.

Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

Affiliated to University of Mysore
Accredited by NAAC with 'A' Grade

Report

Name of the Department / Committee	P.E.S. College of Science, Arts & Commerce - 7 th Criteria Bharath Scouts & Guides - P.E.S. Mandya Rovers		
Title of the Program	Opening function of 'Terrace Garden'		
Date	13-03-2021	Time / Days	01 Day
Venue	P.E.S. College of Science, Arts & Commerce, Mandya		
Objectives	<ul style="list-style-type: none">❖ Construction of the green Campus❖ Use of inappropriate materials (Waste Management)		
Number of staff participated	18	Number of students Participated / benefitted	15
Outcomes	<ul style="list-style-type: none">➤ The green atmosphere in the college is building➤ Used without throwing out any useless items➤ Various kinds of plants and vegetables are grown		
Details of the Organizing Committee	Rovers scouts leader & 7 th Criteria coordinator Sri S.K. Veerasha All Criteria Members & Rovers		
Any other relevant information	<ul style="list-style-type: none">▪ Grown flowers and vegetables were given free of charge to teachers and non teaching staff.▪ Vegetables have been used for college ceremonies.		


S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

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P.E.S. Mandya Rovers crew
Opening Function of 'Terrace Garden'
13-03-2021
List of Participated Students

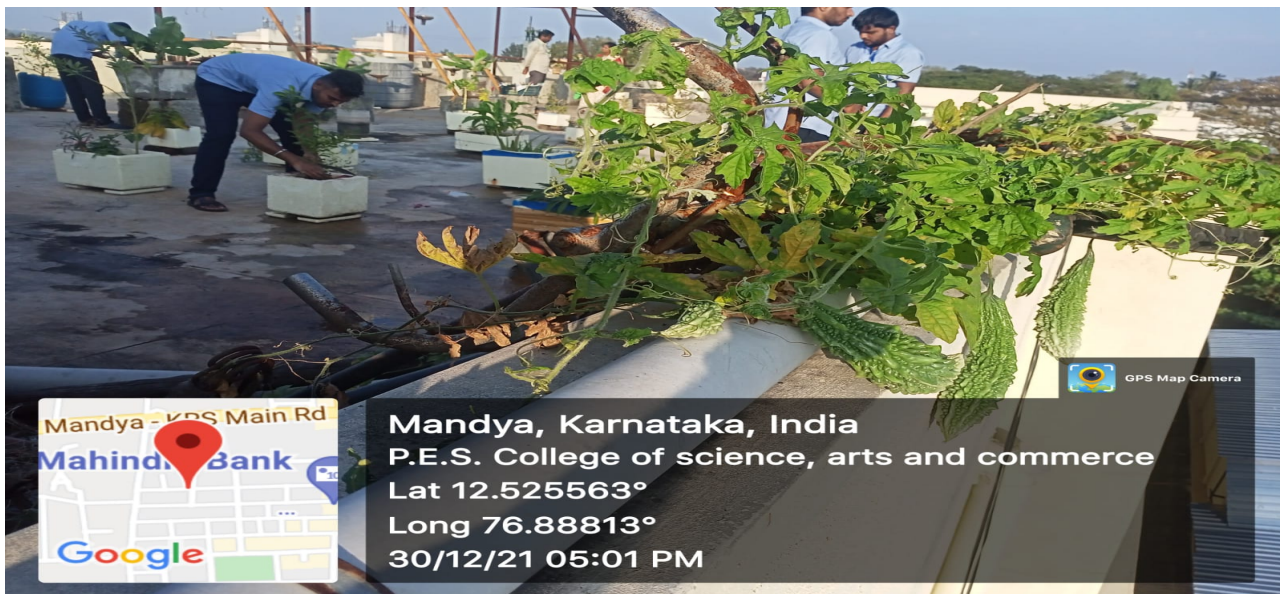
Participations List		
Sl. No.	Name	Class
1.	Adarsha H.S	3 rd B.Sc
2.	Yadunandan H.S	3 rd B. Com
3.	Raveeshgowda B.C	2 nd B.Com
4.	Naveenkumar H M	2 nd B.Com
5.	Manojkumar M	1 st B.Com
6.	Sukruth D P	1 st B.Com
7.	Darshan K	1 st B.Com
8.	SrinivasaR	1 st B.Com
9.	Adarsh B.L	1 st B.Com
10.	Abhi M.R	1 st B.Com
11.	Rathangowda K.M	1 st B.Com
12.	Harsha J	1 st BCA
13.	Udaykumar Y.S	1 st B. Sc
14.	ShashankGowda U N	1 st B.sc
15.	Nithin M B	1 st B.Sc


Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.

Relevant Photos

Opening function of 'Terrace Garden'



Memo on Opening Function of 'Terrace Garden'



Dr. J Mahadeva
Principal

P.E.S. College of Science, Arts & Commerce

P.E.S. MANDYA ROVERS CREW

M.C.Road, MANDYA – 571401



Prof. Veerasha S.K.
Rovers Scouts Leader

Letter No. P.E.S/Rovers/2020-21

Date: 11-03-2021

Memo

It is here by inform to you that to inaugurate Terrace garden by Sri. Vijay Anand, President of P.E.T. along with the principal of P.E.S. College of Science, Arts & Commerce, Mandya, at 11.00 A.M. on 13-03-2021 in College Campus. So, all the Rovers must be present in time with out Fail.


S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.

e-mail: pesmandyarovers@gmail.com

☎9945774281, 9743006213


S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.

Invitation of Opening Function of 'Terrace Garden'



Sri K. V. Shankaregowda
Founder

People's Education Trust®, Mandya
P.E.S College of science, Arts & Commerce
M.C Road, Mandya, Karnataka – 571401
(Affiliated to University of Mysore, re-Accredited by NAAC with 'A' Grade)



INVITATION



Sri K. S. Vijay Anand
President

TITLE OF THE PROGRAM

"OPENING FUNCTION OF TERRACE GARDEN"

RESOURCE PERSON
DR. HOOGAR
MBBS, MD,
MANDYA.

DATE: 13/03/2022
TIME: 11.30 AM
VENUE: P.E.S. COLLEGE OF
SCIENCE, ARTS & COMMERCE.

Dr. J. Mahadeva
Principal

Organised by:
P.E.S Mandya Rover Crew &
All Staff Members.

Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

Affiliated to University of Mysore
Accredited by NAAC with 'A' Grade

REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co – ordination	P.E.S. College of science, arts and commerce, Mandya		
Title of the Program	World environment day at a 'Home plant program'		
Date	05-06-2021	Time / Days	01 days
Venue	In own villages		
Objectives	<ul style="list-style-type: none">❖ To understand the importance of social responsibility❖ To preserve nature❖ To convey the necessity of nature to the youth		
Number of staff participated	02	Number of students Participated / benefitted	28
Outcomes	<ul style="list-style-type: none">➤ To protect the nature➤ Students have built a green forest near their home & Agricultural Area		
Details of the Organizing Committee	Rovers scouts leader Sri S.K.Veerasha Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		


S.K. Veerasha
Rovers Scouts Leader
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA,



People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

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P.E.S. Mandya Rovers crew
World environment day at a 'Home Plant Program'
 05-06-2021

List of Participated Students

Participations List		
Sl. No.	Name	Class
1.	Adarsha H.S	3 rd B.Sc
2.	Madan C.S	3 rd B.Sc
3.	Yadunandan H.S	3 rd B. Com
4.	MahammedVasim	3 rd B.Com
5.	Gunavantha G	3 rd B.Com
6.	Raveesh Gowda B.C	2 nd B.Com
7.	Naveenkumar H M	2 nd B.Com
8.	Nagendramurthy N D	2 nd B.Sc
9.	PanchakshariAradya	2 nd B.Sc
10.	Prajwal V P	2 nd B.Sc
11.	Aruna G N	2 nd B Sc
12.	MaheshGowda N	2 nd B A
13.	Nagesha B	2 nd B A
14.	Mahesh M	2 nd B A
15.	Manoj V N	2 nd B Sc
16.	Manoj Kumar M	1 st B.Com
17.	Sukruth D P	1 st B.Com
18.	Darshan K	1 st B.Com
19.	SrinivasaR	1 st B.Com
20.	Adarsh B.L	1 st B.Com
21.	Abhi M.R	1 st B.Com
22.	Gururaj H.S	1 st B.Com
23.	Gagan M R	1 st B.Com
24.	Rathan Gowda K.M	1 st B.Com
25.	Harsha J	1 st BCA
26.	Uday Kumar Y.S	1 st B. Sc
27.	Shashank Gowda U N	1 st B.sc
28.	Nithin M B	1 st B.Sc


S.K.Veerasha
 Rovers Team Leader
 P.E.S.S.A.&C.College, Mandya.


Principal
 P.E.S. College of Science
 Arts & Commerce, MANDYA.

Relevant photos of world Environment Day



Memo On World environment day at a 'Home Plant Program'



Dr. J Mahadeva
Principal

P.E.S. College of Science, Arts & Commerce
P.E.S. MANDYA ROVERS CREW

M.C.Road, MANDYA - 571401



Prof. Veerasha S.K.
Rovers Scouts Leader

Letter No. P.E.S/Rovers/2020-21

Date: 03-06-2021

Memo

It is here by inform to you that to create importance of Nature, we conduct 'World Environmental day celebration on 05-06-2021 by P.E.S. Mandya Rovers Crew, Mandya. All the Rovers enthusiastically participate in this program and make this program in your own villages without fail.

Rovers Scouts leader

e-mail: pesmandyarovers@gmail.com

☎9945774281, 9743006213

S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.

Principal
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People's Education Trust (R), Mandya
P.E.S. College of Science, Arts & Commerce, Mandya.

M.C. Road, Mandya, Karnataka - 571 401

Dr.J.Mahadeva, M.Sc., Ph.D,
Principal

Affiliated to University of Mysore
Accredited by NAAC with 'A' Grade

REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co – ordination	Bharat scouts & guides, Karnataka		
Title of the Program	Preparation of Eco Friendly Ganesh		
Date	26-07-2021	Time / Days	1 day
Venue	In their Natives		
Objectives	❖ Concept of Save Environment ❖ It Enhance the skill of Creativity		
Number of staff participated	02	Number of students Participated / benefitted	12
Outcomes	➤ It avoids the Environment pollution ➤ It is promoting mass to grow more trees ➤ The avoids idols made up of harmful chemicals pollute water bodies ➤ Cleanness the lakes & Seas when immersed in water.		
Details of the Organizing Committee	Rovers scouts leader Sri S.K.Veerasha Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		


S.K. Veerasha
Rovers Scouts Leader
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P.E.S. Mandya Rovers crew
Preparation of Eco Friendly Ganesh

26-07-2021

List of Participated Students

Participations List		
Sl. No.	Name	Class
1.	Adarsha H	3 rd B.Sc.
2.	Yadunandan H.S.	3 rd B.Com
3.	Raveesh Gowda B.C	2 nd B.Com
4.	Manoj V N	2 nd B Sc
5.	Manoj Kumar M	1 st B.Com
6.	Sukruth D P	1 st B.Com
7.	Darshan K	1 st B.Com
8.	Srinivasa R	1 st B.Com
9.	Adarsh B.L	1 st B.Com
10.	Abhi M.R	1 st B.Com
11.	Gagan M R	1 st B.Com
12.	Harsha J	1 st BCA


Rovers Scouts Leader
Rovers Scout Leader
P.E.S.S.A.&C.College, Mandya.


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Relevant Photos
Preparation of Eco Friendly Ganesh



Appreciation Letter from the
Karnataka State Pollution Control Board



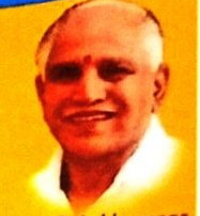
Karnataka State Pollution Control Board
ಭಾರತ ಸ್ಕೌಟ್ಸ್ ಮತ್ತು ಗೈಡ್ಸ್, ಕರ್ನಾಟಕ



Certificate of Appreciation

NANDEESH KUMARA M S

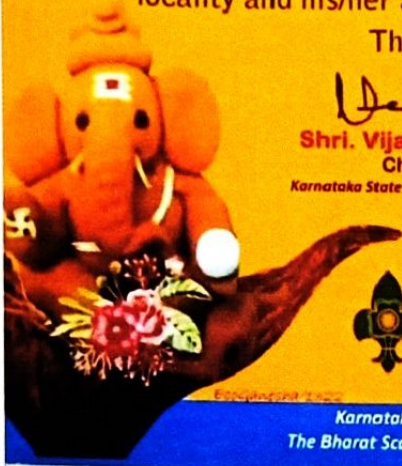
MANDYA DISTRICT



Sri. B.S. Yeddyurappa
Chief Minister

has Participated in Creating Awareness Campaign about Turmeric Ganesha in their locality and his/her action contributes to Sustainable Development Goal 4, 13, 14.

The Services and Efforts are highly Appreciated.



Shri. Vijaykumar Gogi
Chairman
Karnataka State Pollution Control Board

Shri. Srinivasulu
Member Secretary
Karnataka State Pollution Control Board

Shri. P G R Sindhia
State Chief Commissioner
The Bharat Scouts and Guides



Sri. Anand Singh
Minister for Forest, Environment and Ecology



SCOUTS
for SDGs



Karnataka State Pollution Control Board, Parisara Bhavan, #49, Church St, Bengaluru, Karnataka 560001
The Bharat Scouts and Guides, Karnataka, State Headquarters, Shanthi Gruha, #39, Palace Road, Bengaluru - 560001

S.K. Veerasha
Rovers Scout Leader
P.E.S.A.&C.College, Mandya.

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Dr.C.R. Raju M.Sc., Ph.D,
Principal

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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers Crew		
Title of the Program	Shravana festival special camp		
Date	03-09-2021 to 07-09-2021	Time / Days	05 days
Venue	Himavad Gopalaswamy Temple, Bandipura National Reserve Forest, Bandipur		
Objectives	<ul style="list-style-type: none"> ❖ To understand the importance of social responsibility ❖ Pond cleaning, Remove the Partenium & Lantana ❖ Prohibition awareness campaign on plastic use ❖ Making people aware of traffic control 		
Number of staff participated	02	Number of students Participated / benefitted	15
Outcomes	<ul style="list-style-type: none"> ➤ Forest treasures were rescued from the wildlife. ➤ Increased number of plants in the forest. ➤ People have reduced their use of plastic. 		
Details of the Organizing Committee	Rovers scouts leader Sri S.K.Veerasha Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		
Any other relevant information	Appreciation letter is given by Forest Department.		


S.K. Veerasha
 Rovers Scouts Leader
 P.E.S.S.A.&C.College, Mandya,


Principal
 P.E.S. College of Science
 Arts & Commerce, MANDYA



Dr.C.R. Raju M.Sc., Ph.D,
Principal

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P.E.S. Mandya Rovers Crew
Shravana Festival Special Camp

03-09-2021 to 07-09-2021

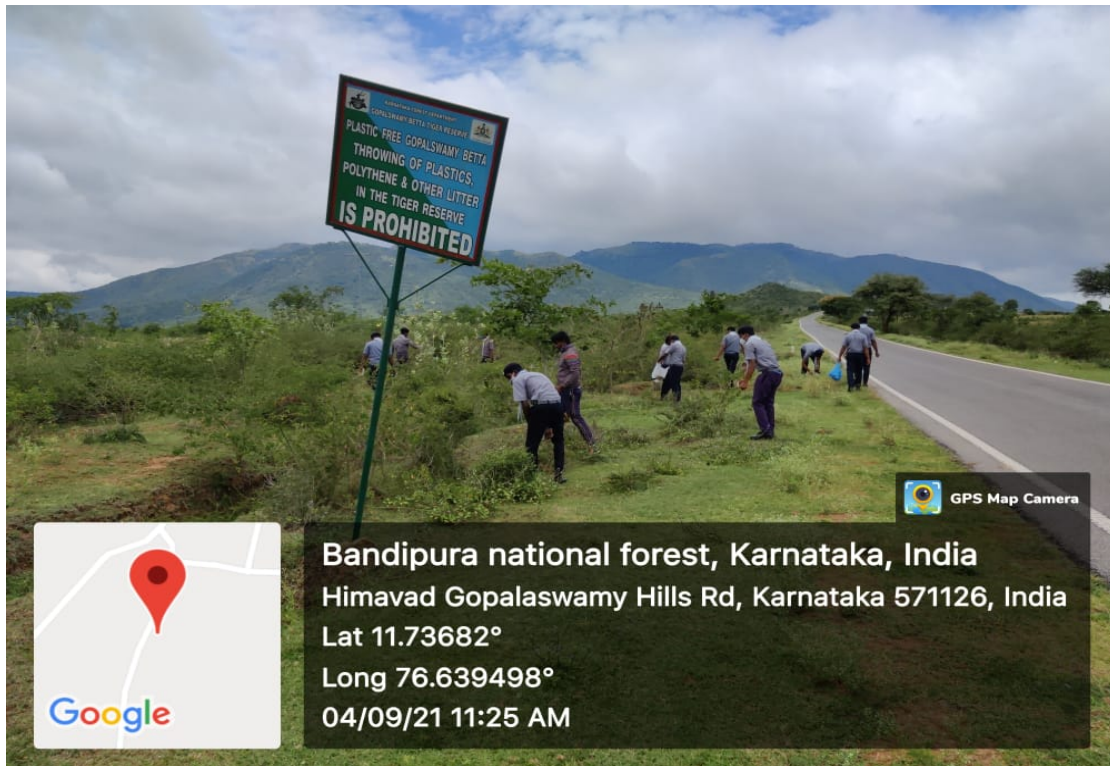
List of participated students

Participations List		
Sl. No.	Name	Class
1.	Raveesh Gowda B.C	2 nd B.Com
2.	Naveen Kumar H M	2 nd B.Com
3.	Panchakshari Aradhya	2 nd B.Sc.
4.	Nagendramurthy	2 nd B.Sc.
5.	Manoj Kumar M	1 st B.Com
6.	SrinivasaR	1 st B.Com
7.	Adarsh B.L	1 st B.Com
8.	Abhi M.R	1 st B.Com
9.	Gururaj H.S	1 st B.Com
10.	Sukruth D P	1 st B.Com
11.	Darshan K	1 st B.Com
12.	Gagan M R	1 st B.Com
13.	Rathan Gowda K.M	1 st B.Com
14.	Harsha J	1 st BCA
15.	Uday Kumar Y.S	1 st B. Sc


S. Veerasha
Rovers Scouts Leader
P.E.S.S.A.&C.College, Mandya.


Principal
P.E.S. College of Science
Arts & Commerce, MANDYA.

Relevant Photos Shravana Festival Special Camp



Appreciation Letter from the Forest Department

ಕರ್ನಾಟಕ ಸರ್ಕಾರ



ಅರಣ್ಯ ಇಲಾಖೆ

ವಲಯ ಅರಣ್ಯಾಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಗೋವಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ ವಲಯ, ಮೇಲುಕಾವಿನಹಳ್ಳಿ, ಗುಂಧ್ಲಪೇಟೆ ತಾ|| 571126

ಸಂ. ವ.ಅ.ಅ/ಗೋ.ವ/ಅ.ಪ/2021-22

ದಿನಾಂಕ: 07-09-2021

ರವರಿಗೆ,

ಪ್ರಾಂಶುಪಾಲರು

ಪಿ.ಇ.ಎಸ್. ವಿಜ್ಞಾನ, ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು
ಮಂಡ್ಯ

ಮಾನ್ಯರೇ,


ವಿಷಯ: ಅಭಿನಂದನೆ ಸಲ್ಲಿಸುತ್ತಿರುವ ಕುರಿತು

**** *

ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಬಂಡೀಪುರ ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶದ ಗೋವಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ ವಲಯದಲ್ಲಿ ದಿನಾಂಕ:03-09-2021 ರಿಂದ 07-09-2021 ರವರೆಗೆ ಮಂಡ್ಯದ ಪಿ.ಇ.ಎಸ್. ವಿಜ್ಞಾನ, ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ "ಪಿ.ಇ.ಎಸ್ ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ರೀಮ್" ನ ರೋವರ್ಸ್ ಸ್ಕೌಟ್ ಲೀಡರ್ ಪ್ರೊ. ಎಸ್.ಕೆ.ವೀರೇಶ ರವರ ನೇತೃತ್ವದಲ್ಲಿ ಸಹಾಯಕ ರೋವರ್ಸ್ ಸ್ಕೌಟ್ ಲೀಡರ್ ಪ್ರೊ.ನಂದೀಶ್‌ಕುಮಾರ ಎಂ.ಎಸ್ ಮತ್ತು 15 ಮಂದಿ ರೋವರ್‌ಗಳು ಹಾಗೂ 6 ಮಂದಿ ಸೀನಿಯರ್ ರೋವರ್‌ಗಳು ಕೋಣಗಳ ಸ್ವಚ್ಛತೆ, ಪ್ಲಾಸ್ಟಿಕ್ ನಿರ್ಮೂಲನಾ ಅಭಿಯಾನ, ಲಂಟಾನ ಮತ್ತು ಪಾರ್ಥೇನಿಯಂ ಗಿಡಗಳ ಸ್ವಚ್ಛತಾ ಕಾರ್ಯದಲ್ಲಿ ಸಕ್ರಿಯವಾಗಿ ಭಾಗವಹಿಸಿ, ಅರಣ್ಯ ಸಂರಕ್ಷಣಾ ಕಾರ್ಯದಲ್ಲಿ ಭಾಗವಹಿಸಿರುತ್ತೀರಿ. ನಿಮ್ಮ ಸಹಕಾರ ಹೀಗೆ ಮುಂದುವರೆಯಲೆಂದು ಆಶಿಸುತ್ತ ಅರಣ್ಯ ಇಲಾಖೆ ವತಿಯಿಂದ ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.

ಧನ್ಯವಾದಗಳೊಂದಿಗೆ,

ತಮ್ಮ ವಿಶ್ವಾಸಿ,


ವಲಯ ಅರಣ್ಯಾಧಿಕಾರಿ
ಗೋವಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ ವಲಯ
ಮೇಲುಕಾವಿನಹಳ್ಳಿ


S.K. Veerasha
Rovers Scout Leader
P.E.S.S.A. & C. College, Mandya.


Principal
P.E.S. College of Science
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