

GREEN AUDIT REPORT And ENVIRONMENT AUDIT



2018-19

**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

Thrupthi Nilaya, 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, 2019.

Date: 15.03.2019

Place: Maddur

For Enviro Engineering Solution

P. Venkath. G. M.
Authorized Signatory
Proprietor

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.

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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.

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. Anil Kumar. H
4	Telephone No	08232-220252
5	Mail ID	pessac.mandya@gmail.com pessac.mandya@yahoo.in
6	Website	www.pesdegreecollegemandya.edu.in
7	Total Area in Sq. feet	786573
8	Green Built Area, Sq. feet	259569
9	No of Staff	104
10	No of Students	1770
11	Type of courses run by college	1. Science- B.Sc. -PCM, PMCs, CBZ. M.Sc. (Mathematics) 2. Arts- B.A: HEP, HES, HEE, HSK, HKF, HPE 3. Commerce- B. Com, M. Com 4. Management- B.B.M

12	Source of Water	Bore well and Rain Water.
13	Water Consumption	1,20,810 liters /day
14	Wastewater Generation	96,648 liters /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)	3.00
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 2018-2019 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 FRAME WORK

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 Litre /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	

	<p>Under E-waste Management Rules, 2016 institution is covered under the definition "Bulk Consumer"</p> <p>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</p>	
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	<p>The various programs conducted/attended by the College are:</p> <ol style="list-style-type: none"> 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 color 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. Encourage a decrease in water usage among staff, students and conference guests.	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
		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 pollutants and Hazardous waste	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.
		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 created	Conduct environmental awareness workshops as a part of the program.	Yes, the college conducts such programs.
		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 an 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	Establish a college	The college has implemented the

	Environment al Policy is enacted, enforced and reviewed	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.	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 (2018-19)

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.Anil Kumar.H	
4	Dr.Manjunatha.M	
5	Neelakanta	
6	Sathish.S	
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 portability 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.

- **Investigation of Quality of Water**

Water from two open wells is used for all purposes in the College, Water from these two open wells was collected and given, for testing to the department of Geology, PES college of engineering, Mandya.

The water sample was subjected to various tests to identify organoleptic and physical parameters such as colour, odour, turbidity, pH value and total dissolved solids (TDS) and general parameters such as, total hardness, calcium, magnesium, chloride, sulphate, nitrate, iron, fluoride, copper, manganese, selenium, zinc, residual free chlorine, aluminium, anionic detergents, phenolic compounds, boron, arsenic, cadmium, cyanide, lead, mercury, chromium and etc. According to the report the quality of the water is good with enriched nutrients. The parameters are good enough to conclude that water is potable in nature and is not polluted.

- **Analysis of Impact of our activities on Air Quality**

There are only a few equipment/ installations viz., thermal conventional incinerator and diesel generator, which could cause air pollution. Diesel generators are used sparingly, only when regular power supply is disrupted. Thermal conventional incinerator is built in such a way that it causes less pollution. Pollution caused by these equipment/ installations is highly negligible. Hence, air quality tests has not been conducted.

Air pollutants such as nitrogen dioxide, carbon monoxide and lead are not measured because there are no factories/ industrial establishments emitting these pollutants located in neighbouring areas.

- **Assessment of Impact of our activities on Noise Pollution**

Diesel generators are the only equipment that could cause noise pollution. But, the diesel generator is a 'silent generator' hence, the noise level is less. The College does not require any other machinery that would cause noise pollution.

- **Evaluation of Waste Management Strategies**

Waste management in the College is being carried out scientifically and efficiently. The waste is being segregated at source, and then collected and processed appropriately. Different strategies are adopted for different types of waste.

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 E waste.

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



2018-19

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CERTIFICATE

**M/s. Enviro Engineering Solutions, ThrupthiNilaya, 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, 2019.**

Date: 15.03.2019

Place: Maddur

For Enviro Engineering Solution

Puneeth. 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.

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

Thanking all

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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	7.9074 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 $22\text{w} \times 8 \text{ hours} \times 250 \text{ days} \times 147 \text{ nos} = 6468 \text{ units}$

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

$= 31\text{w} \times 8 \text{ hours} \times 250 \text{ days} \times 197 \text{ nos} = 12214 \text{ units}$

Total saved $= 6468 + 12214 = 18692 \text{ units}$

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 $= 4990 - 3144 = 1846$

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 units x2 = 1322 units

Savings case 2-21% -94.63 units X2 = 189 units

Total saved = 1322 +189 = 1511 units

1) Total energy saved per annum

2)Cost benefit;

Energy conservation measures	Energy saved per annum
Use of LED lights	18765
Use of 4 star rated refrigerator	1846
Use of 3 star rated Air Conditioners	1511
Total energy saved per annum	22122 units per annum.

Tariff LT2(b)

Low tension 440v/230vac supply

Segment- educational installation.

Considering unit rate 7.50 Rs

Cost saved- 22122 x 7.50= 165915. rs per annum.

3) Environmental benefit

Saving in greenhouse gas emission carbon dioxide

=31217 Units X 0.8 kg/kwh- 24973kgs of CO2

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	22152 UNITS PER ANNUM
AMOUNT SPENT ON ELECTRICITY	166140/- LAKHS Rs. 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: 2018-19



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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Accredited by NAAC with 'A' Grade

Dr. Ramalingaiah, M.Sc., Ph.D.
Principal

REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co - ordination	Forest Department		
Title of the Program	World environment day		
Date	05-06-2018	Time / Days	01 days
Venue	Bandipura National Reserve Forest, Melukamanahally range, HimavadGopalaswamy Temple , Bandipur		
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	15
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.		
Any other relevant information	Appreciation letter is given by Forest Department.		


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


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



Dr. Ramalingaiah M.Sc., Ph.D.
Principal

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

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P.E.S. Mandya Rovers crew
World Environment Day

05-06-2018

List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Sachin K.R	3rd B.Com
2.	Venkatesh R	3 rd B.A
3.	Roopesh kumara	3 rd B.A
4.	Kiran C.K	3 rd BBA
5.	Sachin B.R.	3 rd B.Com
6.	Sanjay N.D	3 rd B.Com
7.	Ramu P.H	3 rd B.Com
8.	Akash N.P	3 rd B.Com
9.	Sanjay Aradhya M	3 rd B.Com
10.	Rakshithgowda M.R	3 rd B.Com
11.	Ravinandan D.L	3 rd B.Com
12.	Manohara M	2 nd B.Com
13.	Prem H.M	2 nd B.Com
14.	Likith C.R	2 nd B.Sc
15.	Sumanth N.S	2 nd B.Sc


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


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

Relevant Photos
“World Environment Day”



Appreciation Letter from the Forest Department



ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

“ಅಭಿನಂದನಾ ಪತ್ರ”

ವಿಶ್ವ ಪರಿಸರ ದಿನಾಚರಣೆಯ ಪ್ರಯುಕ್ತ ದಿನಾಂಕ: 05-06-2018 ರಂದು

ಪಿ.ಇ.ಎಸ್ ವಿಜ್ಞಾನ, ಕಲಾ & ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ

“ಪಿ.ಇ.ಎಸ್ ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ರೀವ್” ನ

15 ಮಂದಿ ರೋವರ್‌ಗಳು ಮತ್ತು 03 ಮಂದಿ ಸೀನಿಯರ್ ರೋವರ್‌ಗಳು

ಹಾಗೂ ಸಹಾಯಕ ರೋವರ್ ಲೀಡರ್ ನಂದೀಶ್ ಕುಮಾರರವರು

ರೋವರ್ ಲೀಡರ್ ಎಸ್.ಕೆ. ವೀರೇಶರವರ ನೇತೃತ್ವದಲ್ಲಿ ಆಗಮಿಸಿ


ಬಂಡೀಪುರ ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶ ಮೇಲುಕಾಮನಹಳ್ಳಿ ವಲಯದಲ್ಲಿ ಅರಣ್ಯ


ಇಲಾಖೆಯ ಸಹಯೋಗದಲ್ಲಿ ಸಸಿ ನೆಡುವ ಕಾರ್ಯಕ್ರಮ ಮತ್ತು ಬೀಜದ

ಉಂಡೆಗಳನ್ನು ಬಿತ್ತುವ ಹಾಗೂ ಪರಿಸರ ಜಾಗೃತಿ ಕಾರ್ಯದಲ್ಲಿ ಸಕ್ರಿಯವಾಗಿ

ಭಾಗವಹಿಸಿ ಅತ್ಯುತ್ತಮವಾಗಿ ಸಹಕರಿಸಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರಿಂದ ಅರಣ್ಯ

ಇಲಾಖೆಯ ವತಿಯಿಂದ ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.


ಪಲಯ ಅರಣ್ಯಾಧಿಕಾರಿಗಳು
ಜಿ.ಎಸ್.ಬೆಟ್ಟ ವಲಯ, ಮೇಲುಕಾಮನಹಳ್ಳಿ


ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ
ಬಂಡೀಪುರ ಉಪವಿಭಾಗ, ಬಂಡೀಪುರ


S.K.Veerasha
Rovers Scout 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

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

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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Co - ordination	District Bharat Scouts & Guides Organization, Mandya		
Title of the Program	International Peace day & Cleaning program		
Date	22-09-2018	Time / Days	01 days
Venue	Office of the Department of public Education, Mandya		
Objectives	<ul style="list-style-type: none">❖ To understand the importance of social responsibility❖ Cleaning the atmosphere❖ Taking care not to spread diseases by garbage		
Number of staff participated	01	Number of students Participated / benefitted	12
Outcomes	<ul style="list-style-type: none">➤ To protect the nature➤ Beautiful environment building in the office premises		
Details of the Organizing Committee	Rovers scouts leader Sri S.K. Veresha Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		
Any other relevant information	Appreciation letter is given by Bharath Scouts & guides, Mandya District organization		


Rovers Scout 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

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

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P.E.S. Mandya Rovers crew
International Peace day& Cleaning Program

22-09-2018

List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Sanjay N.D	3 rd B.Com
2.	Ramu P.H	3 rd B.Com
3.	Akash N.P	3 rd B.Com
4.	Sachin B.R	3 rd B.Com
5.	Manohara M	2 nd B Com
6.	Shashi S.K.	2 nd B.Com
7.	Likith C.R	2 nd B.Sc
8.	Sumanth N.S	2 nd B.Sc
9.	Nithingowda C.N	2 nd B.Sc
10.	Madan C.S	1 st B.Sc
11.	Adarsha H.R.	1 st B.Sc
12.	Lokesha G	1 st B.A


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
“International Peace day & Cleaning Program”



Appreciation Letter from the
Bharath Scouts & Guides, Mandya District organization



ಭಾರತ್ ಸ್ಕೌಟ್ಸ್ ಮತ್ತು ಗೈಡ್ಸ್, ಕರ್ನಾಟಕ
ಮಂಡ್ಯ ಜಿಲ್ಲಾ ಸಂಸ್ಥೆ, ಮಂಡ್ಯ

ಜಿಲ್ಲಾ ಕ್ಷೇತ್ರೀಯ ಎದುರು, ಮಂಡ್ಯ ಜಿಲ್ಲೆ 571401, e-mail: bsgmandya@gmail.com

ಸಂಖ್ಯೆ: ಬಿ.ಎಸ್.ಜಿ./ಡಿ.ಎಸ್.ಕ್ಯೂ/26/2018-19

ದಿನಾಂಕ: 22-09-2018

ಗೆ,

ಪ್ರಾಂಶುಪಾಲರು,

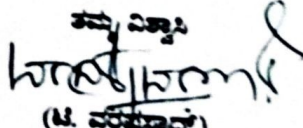
ಪಿ.ಇ.ಎಸ್. ವಿದ್ಯಾಪ್ಪ, ಕಲಾ ಮತ್ತು ವಾಗವ್ಯ ಕಾಲೇಜು,

ಮಂಡ್ಯ

ಮಾನ್ಯರೇ,

ದಿನಾಂಕ: 22-09-2018ರಂದು ಅಂತರ್ ರಾಷ್ಟ್ರೀಯ ಶಾಂತಿ ದಿನದ ಪ್ರಯುಕ್ತ ಮಂಡ್ಯ ಜಿಲ್ಲಾ ಸ್ಕೌಟ್ & ಗೈಡ್ ಸಂಸ್ಥೆಯ ಕಛೇರಿಯ ಆವರಣದಲ್ಲಿ ಉಪನ್ಯಾಸ & ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆಯ ಆವರಣದಲ್ಲಿ ಒಂದು ದಿನದ ಸ್ವಚ್ಛತಾ ಕಾರ್ಯವನ್ನು ಹಮ್ಮಿಕೊಂಡಿದ್ದು, ಸದರಿ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ನಿಮ್ಮ ಕಾಲೇಜಿನ ಪಿ.ಇ.ಎಸ್. ಮಂಡ್ಯ ರೋಮರ್ಸ್ ಕ್ಲಬ್‌ನ ರೋಮರ್ಸ್ ನ 12 ಮಂದಿ ರೋಮರ್ಸ್ ವಿದ್ಯಾರ್ಥಿಗಳು ರೋಮರ್ಸ್ ಸ್ಕೌಟ್ಸ್ ಲೀಡರ್ ಎಸ್.ಕೆ. ವೀರೇಶರವರ ನಿರ್ದೇಶನದಲ್ಲಿ ಭಾಗವಹಿಸಿ ಕಾರ್ಯಕ್ರಮವನ್ನು ಯಶಸ್ವಿಗೊಳಿಸುತ್ತಾರೆ. ಇವರಿಗೆ ಮಂಡ್ಯ ಜಿಲ್ಲಾ ಸ್ಕೌಟ್ & ಗೈಡ್ ಸಂಸ್ಥೆಯಿಂದ ಅಭಿನಂದಿಸುತ್ತೇವೆ.

ಮಂದನೆಗಳು,


(ಜಿ. ಎಸ್. ಕಮಿಷನರ್)
Dist. Scout Commissioner,
Bharat Scouts & Guides
Dist. Association Mandya.


S.K. Veerasha
Rovers Scout 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

People's Education Trust (R), Mandya
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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Title of the Program	D - line Burning Program		
Date	22-12-2018 to 27-12-2018	Time / Days	06 days
Venue	Bandipura National Reserve Forest, HimavadGopalaswamy 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	20
Outcomes	<ul style="list-style-type: none">➤ Forest protection from wildfire➤ Preventing the spread of wildfire		
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			


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


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



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

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P.E.S. Mandya Rovers crew

D - Line Burning Program

22-12-2018 to 27-12-2018

List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Sanjay N.D	3 rd B.Com
2.	Ramu P.H	3 rd B.Com
3.	Sachin B.R	3 rd B.Com
4.	Nithingowda	2 nd B.Sc
5.	Likithgowda C.R	2 nd B.Sc
6.	Sharathkumar K.S.	2 nd B.Com
7.	Prem	2 nd B.Com
8.	Manohara M	2 nd B.Com
9.	Sumanth N.S	2 nd B.Sc
10.	Hitesh M.R	1 st B.Sc
11.	Sudeep T.M	1 st B.Com
12.	Gunavanth G	1 st B.Com
13.	Shashank C.K	1 st B.Com
14.	Mahamad Vasim Pasha	1 st B.Com
15.	Adarsha H.R	1 st B.Sc.
16.	Arjun K.S.	1 st B.Com
17.	Abhishek D.R	1 st B.Com
18.	Madan C.S.	1 st B.Sc
19.	Koushikgowda C.M	1 st B.Sc
20.	Manojgowda G.S.	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 Photo
“D - Line Burning Program ”



Appreciation Letter from the Forest Department



ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

“ಅಭಿನಂದನಾ ಪತ್ರ”

ದಿನಾಂಕ: 22-12-2018 ರಿಂದ 27-12-2018ರ ವರೆಗೆ

ಪಿ.ಇ.ಎಸ್ ವಿಜ್ಞಾನ, ಕಲಾ & ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ

“ಪಿ.ಇ.ಎಸ್ ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ರೀಡ್” ನ

20 ಮಂದಿ ರೋವರ್‌ಗಳು ಮತ್ತು 08 ಮಂದಿ ಸೀನಿಯರ್ ರೋವರ್‌ಗಳು

ಹಾಗೂ ಸಹಾಯಕ ರೋವರ್ ಲೀಡರ್ ನಂದೀಶ್ ಕುಮಾರರವರು

ರೋವರ್ ಲೀಡರ್ ಎಸ್.ಕೆ. ವೀರೇಶರವರ ನೇತೃತ್ವದಲ್ಲಿ ಆಗಮಿಸಿ

ಬಂಡೀಪುರ ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶ ಹಿಮವದ್ ಗೋಪಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ

ವಲಯದಲ್ಲಿ ಅರಣ್ಯ ಸಂರಕ್ಷಣೆಯ ಸಲುವಾಗಿ ಅರಣ್ಯ ಇಲಾಖೆಯ

ಸಹಯೋಗದಲ್ಲಿ “ಡಿ ಲೈನ್ ಬರ್ನಿಂಗ್ ಕಾರ್ಯದಲ್ಲಿ” ಸಕ್ರಿಯವಾಗಿ ಭಾಗವಹಿಸಿ

ಅತ್ಯುತ್ತಮವಾಗಿ ಸಹಕರಿಸಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದ್ದರಿಂದ ಅರಣ್ಯ ಇಲಾಖೆಯ

ವತಿಯಿಂದ ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.

ವಲಯ ಅರಣ್ಯಾಧಿಕಾರಿಗಳು

ಜಿ.ಎಸ್.ಬೆಟ್ಟ ವಲಯ, ಮೇಲುಕಾಡುನಹಳ್ಳಿ

ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ

ಬಂಡೀಪುರ ಉಪವಿಭಾಗ, ಬಂಡೀಪುರ


S.K. Veerestha
Rovers Scout 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

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

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REPORT

Name of the Department / Committee	National Service Scheme (NSS)		
Co - ordination	P.E.S. College of Science, Arts & Commerce, & Red Cross Mandya		
Title of the Program	NSS Annual Special camp & Health checkup camp		
Date	05-01-2019 to 11-01-2019	Time / Days	07 days
Venue	Madarahalli Village, Mandya T & District		
Objectives	<ul style="list-style-type: none">❖ Young People towards Science❖ For the upliftment of villages❖ About increasing the vision of health among the rural❖ It is about removing the silliness of the rural people.		
Number of staff participated	02	Number of students Participated / benefitted	96
Outcomes	<ul style="list-style-type: none">➤ There is a flow of cleanliness in the villages.➤ Health checks have been made and utilized.		
Details of the Organizing Committee	NSS Program officers Sri Nilakanta & Sri S.H. Mariyayya Asst. NSS Program officer Sri Sudharshan		


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


Principal
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. H. Anilkumar M.A., Ph.D.,
Principal

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

National Service Scheme
Annual Special camp & Health checkup camp
05-01-2019 to 11-01-2019
List of participated students

Annual special camping programme participants List

College Address: P.E.S. COLLEGE OF SCIENCE, ARTS & COMMERCE, MANDYA

Camp Place: MADARAHALLI VILLAGE, MADDUR TO

Date : 05.1.2019 TO 11.1.2019

Sl. No.	Volunteers / Programme Officers Name	Class	Caste	Volunteers Signature
P.E.S. COLLEGE OF SCIENCE, ARTS & COMMERCE, MANDYA				
01	PALLAVI. P.	I B.A.	ORC	Pallavi.P
02	MANJULA. N.	I B.A.	ORC	M
03	HEMANTH. H.K.	I B.A.	ORC	Hemanth
04	SHIVARAJ. H.S.	II B.A.	3A	S
05	MANOJ	III B.A.	III B	Manoj
06	Paiju. H.	II B.A.	III A	Paiju.H.
07	Poojitha. K.M.	II B.A.	I A	Pooj
08	Tijawade. B.S.	II B.A.	II A	T
09	Malathi. G.	II B.A.	SC	Malathi G
10	Chiranjeev. H.B.	II B.A.	III A	Chiranjeev.
11	Simsha. V.	II B.A.	III A	Simsha V
12	Sanjay. K.S.	I B.A.	III A	Sanjay
13	SANTAY KUMAR. D.C.	III B.Sc.	3A	Sanjay Kumar.
14	KAVANA. M.C.	III B.Sc.	3A	Kavana M.C.
15	Laksh. gowda. G.B.	III B.Sc.	III A	Laksh G.
16	Naveenkumar. BH	III B.Sc.	III A	Naveenkumar. BH
17	Ananda. MR	III B.Sc.	III A	Ananda MR
18	Hadhuketha. R	III B.Sc.	III A	Hadhuketha R
19	Sandeep. C.	III B.Sc.	III A	Sandeep C.
20	Ruchi. R	III B.Sc.	III A	Ruchi R
21	Ashwini. B.B.	III B.Sc.	III A	Ashwini. B.B.
22	Jyothi. V	III B.Sc.	III A	Jyothi V
23	Pooja. CP	III B.Sc.	III A	Pooja CP
24	Bhavin. V.S.	III B.Sc.	III A	Bhavin V.S.
25	Bharathkumar. B.	I B.Sc.	SC	Bharathkumar B.
26	Madhusudhangoudar. C	II B.Sc.	III A	Madhusudhangoudar C.
27	Deepika. H.N.	II B.Sc.	III A	Deepika H.N.
28	Anitha	II B.Sc.	III B	Anitha
29	Niraditha. M.C.	I B.Sc.	III A	Niraditha M.C.
30	Aravindha. G.R.	I B.Sc.	III A	Aravindha G.R.

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31	Sahana B.N	I st BSc	III A	Sahana B.N
32	Kavya B.S	I st BSc	III A	Kavya B.S
33	Shravya M.S	I st BSc	III A	Shravya M.S
34	Adyali S.M.	I st B.Sc	III A	Adyali S.M.
35	Vandana K.E	I st BSc	SC	Vandana K.E
36	Asini N.	I st BSc	II B	Asini N.
37	Sandeep Kumar H.E	I st BSc	III A	Sandeep Kumar H.E
38	Abhishek Gowda L	I st BSc	III A	Abhishek Gowda L
39	RAMU. P. H.	I nd B.com	GM	RAMU. P. H.
40	PRASANNA H.R.	I nd B.com	3A	PRASANNA H.R.
41	RAKSHITHA S.	I nd B.com	3A	RAKSHITHA S.
42	BHAGYACHARI D.R.	I nd B.com	3A	BHAGYACHARI D.R.
43	CHANDANA J.	I nd B.com	GM	CHANDANA J.
44	Sachin Nohari	I nd B.com	II A	Sachin Nohari
45	Kiran H.M	I nd B.com	III A	Kiran H.M
46	Anany B.L	III B.com	III A	Anany B.L
47	Anany A. Gouda	III B.com	III A	Anany A. Gouda
48	Raja	III B.com	Bhavi (SC)	Raja
49	Rakshitha J	III B.com	III A	Rakshitha J
50	Vinutha H.N	III B.com	II A	Vinutha H.N
51	Anushree M	III B.com	III A	Anushree M
52	Sahana K.J.	III B.com	III A	Sahana K.J.
53	H.J. Rachana	III B.com	III A	H.J. Rachana
54	Manas V.C	III B.com	III A	Manas V.C
55	Rakshitha C.L	III B.com	III A	Rakshitha C.L
56	Chalunraj B.K	III B.com	III A	Chalunraj B.K
57	Sudamhan H.	III B.com	GM	Sudamhan H.
58	Naveen H.N	III B.com	II A	Naveen H.N
59	P. Hemant	III B.com	III B.com	P. Hemant
60	Dattathraya N	III B.com	III A	Dattathraya N
61	Deepak H.R.	III B.com	III A	Deepak H.R.
62	SHILPASHREE K.	I nd B.com	3A	SHILPASHREE K.
63	Kavya K.	I nd B.com	3A	Kavya K.
64	Nirganga D.	I nd B.com	3A	Nirganga D.
65	Aishwarya R.	I nd B.com	O.B.C	Aishwarya R.
66	Pallavi K.	I nd B.com	O.B.C	Pallavi K.
67	Anushree A.S.	I nd B.com	3A	Anushree A.S.
68	Pooja A.G	II nd B.Com	III A	Pooja A.G
69	Sindhu R.	I nd B.Com	III A	Sindhu R.
70	Pooja G.S	I nd B.Com	SC	Pooja G.S

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71	Sevanthi H.B	I st B.COM	III A	Sevanthi H.B
72	Nalupama M.J	II nd B.COM	SC	Nalupama M.J
73	Keshava mally D.H	II nd B.COM	III A	Keshava mally D.H
74	navana . K.S	II nd B.COM	III A	navana . K.S
75	Neelisha H.D	II nd B.COM	III A	Neelisha H.D
76	Spoorthi H.R	I st B.COM	III A	Spoorthi H.R
77	Ashwini . P	I st B.COM	III A	Ashwini . P
78	Girish . S	I st B.COM	III A	Girish . S
79	Madhura K.P	I st B.COM	III A	Madhura K.P
80	Divyashree B.S	I st B.COM	III A	Divyashree B.S
81	Chandana . N.R.	I st B.COM	III A	Chandana . N.R.
82	Pooja . S.R	I st B.COM	III A	Pooja . S.R
83	Archana H.C	I st B.COM	III A	Archana H.C
84	Hasshika K.C	I st B.COM	III A	Hasshika K.C
85	Pooja M.C	I st B.COM	III A	Pooja M.C
86	Krishnagowda S	I st B.COM	III A	Krishnagowda S
87	Harshitha . R	I st B.COM	III A	Harshitha . R
88	Thejaswini . S	I st B.COM	III A	Thejaswini . S
89	Abha . N	I st B.COM	III A	Abha . N
90	Vasanthi . B.P	I st B.COM	III A	Vasanthi . B.P
91	Keethana . M.C	I st B.COM	III A	Keethana . M.C
92	Anusha . K.C	I st B.COM	III A	Anusha . K.C
93	Nagamani M.K	III rd B.A.A	III A	Nagamani M.K
94	SANTAY . B.S	II BBA	III A	SANTAY . B.S
95	Archana . S.H	II B.B.A	O.B.C.	Archana . S.H
96	Apoorva . B.L	II B.B.A	3.B	Apoorva . B.L
97	S.H. Mariyiah	Program office	SC	S.H. Mariyiah
98	NEELAKANTA	Program office		NEELAKANTA
99	SUDHARSHAN . B.N	Asst. camp. officer		SUDHARSHAN . B.N
100	VINUTHA	Asst. —		VINUTHA

CAMP CO-ORDINATOR

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Relevant Photo NSS Annual Special camp & Health checkup camp



ಕೆಆರ್‌ಡಿಒ, ಶಿ. ಜಿ. ಯು. ಪ್ರಾಂತ್ಯ ಸಿಬ್ಬಂದಿ, ಡಿ.ಎಸ್. ಸಿಬ್ಬಂದಿ ಸೇರಿ,
ಆರೋಗ್ಯ ಪರೀಕ್ಷಾ ಕ್ಯಾಂಪ್‌ನಲ್ಲಿ ಪಾಲ್ಗೊಂಡು ಸೇವೆ ಸಲ್ಲಿಸಿದರು.



ಯಾಸವಳ್ಳಿ ಗ್ರಾಮದ ಪ್ರಮುಖ ಬಾವಿಗೆ
ಶ್ರಮಿಸಿ ಬಾವಿಗೆ ನೀರು ಸೇರಿಸಿದರು.

**Invitation of
NSS Annual Special camp & Health checkup camp**



ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

ರಾಷ್ಟ್ರೀಯ ಸೇವಾ ಯೋಜನೆ

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

(ನ್ಯಾಕ್ ಸಂಸ್ಥೆಯಿಂದ 'A' ಗ್ರೇಡ್ ಮಾನ್ಯತೆ ಪಡೆದಿದೆ)

ಮತ್ತು ಮಾದರಹಳ್ಳಿ ಗ್ರಾಮ ಪಂಚಾಯಿತಿ, ಪ್ರಾಥಮಿಕ ಕೃಷಿ ಪತ್ತಿನ ಸಹಕಾರ ಸಂಘ
ಹಾಲು ಉತ್ಪಾದಕರ ಸಹಕಾರ ಸಂಘ ಹಾಗೂ ಮಾದರಹಳ್ಳಿ ಗ್ರಾಮ ಪಂಚಾಯಿತಿ ವ್ಯಾಪ್ತಿಯ
ಎಲ್ಲಾ ಮಹಿಳಾ ಸ್ವ-ಸಹಾಯ ಸಂಘ ಮತ್ತು ಯುವಕರ ಸಂಘ ಸಂಸ್ಥೆಗಳ
ಇವರ ಸಂಯುಕ್ತಾಶ್ರಯದಲ್ಲಿ

ವಿಜ್ಞಾನ ಮತ್ತು ವೈಜ್ಞಾನಿಕ ಮನೋಭಾವದಡೆಗೆ ಯುವಜನತೆ

ವಾರ್ಷಿಕ ವಿಶೇಷ ಶ್ರಮದಾನ ಶಿಬಿರ

ದಿನಾಂಕ: 05-01-2019 ರಿಂದ 11-01-2019ರವರೆಗೆ

ಶಿಬಿರದ ಸ್ಥಳ: ಸರ್ಕಾರಿ ಪ್ರೌಢಶಾಲೆ ಆವರಣ,
ಮಾದರಹಳ್ಳಿ ಗ್ರಾಮ, ಸಿ.ಎ.ಕೆರೆ ಹೋಬಳಿ, ಮಂಡ್ಯರು ತಾಲ್ಲೂಕು

ಆಹ್ವಾನ ಪತ್ರಿಕೆ

ಶ್ರೀಮತಿ/ಶ್ರೀ.....

ಶಿಬಿರಾಧಿಕಾರಿಗಳು
ಪ್ರೊ.ಎಸ್.ಹೆಚ್.ಮರಿಯಯ್ಯ
ಘಟಕ - 1

ಶಿಬಿರಾಧಿಕಾರಿಗಳು
ಪ್ರೊ.ನೀಲಕಂಠ
ಘಟಕ - 2

ಮಾರ್ಗಸೂಚಿ : ಶಿಬಿರ ನಡೆಯುವ ಸ್ಥಳ ಮಾದರಹಳ್ಳಿ ಮತ್ತು ಸಿಂಗಟಗೆರೆ ಗ್ರಾಮ
ಮಂಡ್ಯದಿಂದ 10 ಕಿ.ಮೀ ದೂರದಲ್ಲಿದೆ ಕೆ.ಎಂ.ದೊಡ್ಡಿ ಮಾರ್ಗದ ಮೂಲಕ

ತಮಗೆ ಸ್ವಾಗತ

ಶಿಬಿರದ ನಿರ್ದೇಶಕರು, ಶಿಬಿರಾಧಿಕಾರಿಗಳು, ಶಿಬಿರಾಧಿಗಳು, ಮಾದರಹಳ್ಳಿ ಮತ್ತು ಸಿಂಗಟಗೆರೆ ಗ್ರಾಮಸ್ಥರು
ಬೋಧಕ ಮತ್ತು ಬೋಧಕೇತರ ಸಿಬ್ಬಂದಿ, ಪಿ.ಇ.ಎಸ್ ವಿಜ್ಞಾನ ಕಲಾ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು, ಮಂಡ್ಯ


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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	Forest day		
Date	21-03-2019	Time / Days	01 day
Venue	Cauvery wildlife sanctuary		
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	08
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.		
Any other relevant information			


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


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P.E.S. Mandya Rovers crew

Forest Day

21-03-2019

List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Sanjay N.D	3 rd B.Com
2.	Ramu P.H	3 rd B.Com
3.	Akash N.P	3 rd B.Com
4.	Manohara M	2 nd B Com
5.	Likith C.R	2 nd B.Sc
6.	Nithingowda C.N	2 nd B.Sc
7.	Madan C.S	1 st B.Sc
8.	Adarsha H.R.	1 st B.Sc


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


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Relevant Photos “Forest day”





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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Title of the Program	Fire burning Program		
Date	22-03-2019 to 26-03-2019	Time / Days	05 days
Venue	HimavadGopalaswamy Temple Hill, Bandipura National Reserve Forest, Bandipur		
Objectives	❖ Conservation of forest by extinguishing wildfire ❖ Preventing the spread of wildfire		
Number of staff participated	01	Number of students Participated / benefitted	05
Outcomes	➤ Forest treasures were rescued from the wildlife ➤ The forest is protected.		
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.


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P.E.S. Mandya Rovers crew

Fire Burning Program

22-03-2019 to 26-03-2019

List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Akash N.P	3 rd B.Com
2.	Likith C.R	2 nd B.Sc
3.	Manohara M	2 nd B.Com
4.	Madan C.S.	1 st B.Sc
5.	Adarsha H.R	1 st B.Sc


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


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

Relevant Photos
Fire burning Program



Appreciation Letter from the Forest Department



ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

“ಅಭಿನಂದನಾ ಪತ್ರ”

ಬಂಡೀಪುರ ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶ ಹಾಗೂ ಹಿಮವದ್ ಗೋಪಾಲಸ್ವಾಮಿ ಬೆಟ್ಟ
ವಲಯದಲ್ಲಿ ಅರಣ್ಯಕ್ಕೆ ಬೆಂಕಿ ಬಿದ್ದ ಸಂದರ್ಭದಲ್ಲಿ
ದಿನಾಂಕ: 22-03-2019 ರಿಂದ 26-03-2019ರ ವರೆಗೆ
ಪಿ.ಇ.ಎಸ್ ವಿಜ್ಞಾನ, ಕಲಾ & ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ
“ಪಿ.ಇ.ಎಸ್ ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ರೀವ್” ನ
05 ಮಂದಿ ರೋವರ್‌ಗಳು ಮತ್ತು 04 ಮಂದಿ ಸೀನಿಯರ್ ರೋವರ್‌ಗಳು
ರೋವರ್ ಲೀಡರ್ ಎಸ್.ಕೆ. ವೀರೇಶರವರ ನಿರ್ದೇಶನದಲ್ಲಿ ಆಗಮಿಸಿ
ಅರಣ್ಯ ಇಲಾಖೆಯ ಸಹಯೋಗದಲ್ಲಿ ಬೆಂಕಿ ನಂದಿಸುವ ಕಾರ್ಯದಲ್ಲಿ
ಸಕ್ರಿಯವಾಗಿ ಭಾಗವಹಿಸಿ ಅತ್ಯುತ್ತಮವಾಗಿ ಸಹಕರಿಸಿ ಕಾರ್ಯ
ನಿರ್ವಹಿಸಿದ್ದರಿಂದ ಅರಣ್ಯ ಇಲಾಖೆಯ ವತಿಯಿಂದ
ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.

ಪಲಯ ಅರಣ್ಯಾಧಿಕಾರಿಗಳು
ಜಿ.ಎಸ್ ಬೆಟ್ಟ ವಲಯ, ಮೇಲುಕಾಡುನಹಳ್ಳಿ

ಸಹಾಯಕ ಅರಣ್ಯ ಸಂರಕ್ಷಣಾಧಿಕಾರಿ
ಬಂಡೀಪುರ ಉಪವಿಭಾಗ, ಬಂಡೀಪುರ


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


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REPORT

Name of the Department / Committee	Bharath Scouts & Guides P.E.S. Mandya Rovers		
Title of the Program	Ugadhi Festival Special Annual Camp		
Date	30-03-2019 to 04-04-2019	Time / Days	06 days
Venue	Himavad Gopalaswamy Temple , Bandipura National Reserve Forest, Bandipur		
Objectives	<ul style="list-style-type: none">❖ To understand the importance of social responsibility❖ Cleaning of ponds❖ Prohibition awareness campaign on plastic use❖ Making people aware of traffic control		
Number of staff participated	01	Number of students Participated / benefitted	27
Outcomes	<ul style="list-style-type: none">➤ Forest treasures were rescued from the wildlife➤ The groundwater level is high➤ People have reduced their use of plastic		
Details of the Organizing Committee	Asst. Rovers scouts leader Sri Nandeesh kumara M.S.		
Any other relevant information	08 Senior Rovers are Participated in this camp		


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


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P.E.S. Mandya Rovers crew
Ugadhi Festival Special Annual Camp
30-03-2019 to 04-04-2019
List of Participated Students

List of Participants		
Sl.No	Name	Class
1.	Sanjay N.D	3 rd B.Com
2.	Ramu P.H	3 rd B.Com
3.	Sachin B.R	3 rd B.Com
4.	Akash N.P	3 rd B.Com
5.	Rakshithgowda M.R	3 rd B.Com
6.	Ravinandan D.L	3 rd B.Com
7.	Manoj	3 rd B.A
8.	Sujith V.N	3 rd B.A
9.	Manohara M	2 nd B.Com
10.	Prem H.M	2 nd B.Com
11.	Shashi S.K	2 nd B.Com
12.	Nithingowda	2 nd B.Sc
13.	Likithgowda C.R	2 nd B.Sc
14.	Sumanth N.S	2 nd B.Sc
15.	Sudeep T.M	1 st B.Com
16.	Gunavanth G	1 st B.Com
17.	Shashank C.K	1 st B.Com
18.	Arjun K.S	1 st B.Com
19.	Abhishek D.R	1 st B.Com
20.	Akilesh C.R	1 st B .Com
21.	Shashikumar K	1 st B.Com
22.	Mahamad vasim	1 st B.Com
23.	Lokesha G	1 st B.A
24.	Madhan C.S	1 st B.Sc
25.	Adarsha H.R	1 st B.Sc
26.	Manojgowda G.S	1 st B.Sc
27.	Nikilgowda	1 st BBA


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


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

Relevant Photos
Ugadhi Festival Special Annual Camp



Appreciation letter From Forest Department



ಕರ್ನಾಟಕ ಅರಣ್ಯ ಇಲಾಖೆ

“ಅಭಿನಂದನಾ ಪತ್ರ”

ಬಂಡೀನೂರು ಹುಲಿ ಸಂರಕ್ಷಿತ ಪ್ರದೇಶ ಹಾಗೂ ಹಿವನೂರು ಗೋನಾಲಸಾಬಿ ಬೆಟ್ಟ
ವಲಯದಲ್ಲಿ ದಿನಾಂಕ: 30-03-2019 ರಿಂದ 04-04-2019 ವರೆಗೆ

ಪಿ.ಇ.ಎಸ್. ವಿಜ್ಞಾನ, ಕಲಾ & ವಾಣಿಜ್ಯ ಕಾಲೇಜಿನ

“ಪಿ.ಇ.ಎಸ್. ಮಂಡ್ಯ ರೋವರ್ಸ್ ಕ್ಲಬ್” ನ |

27 ಮಂದಿ ರೋವರ್‌ಗಳು ಮತ್ತು 08 ಮಂದಿ ಒನಿಯರ್ ರೋವರ್‌ಗಳು
ಹಾಗೂ ಸಹಾಯಕ ರೋವರ್ ಲೀಡರ್ ನಂದೀಶ್ ಕಮಾಂಡ್ ಎಂ.ಎಸ್ ರವರು
ರೋವರ್ ಲೀಡರ್ ಎಸ್.ಕೆ. ದೀಪೇಶ್‌ರವರ ನೇತೃತ್ವದಲ್ಲಿ

ಹಿವನೂರು ಗೋನಾಲಸಾಬಿ ಚಾತ್ರಿ ವಹೋತವದಲ್ಲಿ “ವಾಲ್ವಿಕ್ ನಿವೇದ್ಯ
ಚಾಟ್ರಿ, ಸಂಕಾರಿ ನಿಯಂತ್ರಣ, ಜನಸಂದಣಿ ನಿಯಂತ್ರಣ, ಸಚಿತ್ರಾ ಕಾರ್ಯ”ವನ್ನು
ಹಾಗೂ ‘ಕರಡಿಗೂಡದಲ್ಲಿ ಬೆಂಕಿ ನಂದಿಸುವ ಕಾರ್ಯವನ್ನು’ ಅರಣ್ಯ ಇಲಾಖೆಯ
ಸಹಾಯಕರಾದ ಸಕ್ರಿಯವಾಗಿ ಭಾಗವಹಿಸಿ ಅತ್ಯುತ್ತಮವಾಗಿ ಸಹಕರಿಸಿ ಕಾರ್ಯ
ನಿರ್ವಹಿಸಿದ್ದರಿಂದ ಅರಣ್ಯ ಇಲಾಖೆಯ ವತಿಯಿಂದ

ಅಭಿನಂದನೆಗಳನ್ನು ಸಲ್ಲಿಸುತ್ತೇವೆ.

ವಲಯ ಅಧಿಕಾರಿಗಳಿಗೆ
ಪಿ.ಎಸ್.ಎಸ್. ವಲಯ ಮಂಡ್ಯ ಮಂಡ್ಯ,

ಸಹಾಯಕ ಅರಣ್ಯ, ಸಂರಕ್ಷಣಾಧಿಕಾರಿ
ಬಂಡೀನೂರು ಉಪವಿಭಾಗ, ಬಂಡೀನೂರು

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Principal
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