



National College

(Autonomous)

College with Potential for Excellence

Nationally Re-accredited at 'A+' Grade by NAAC

A Unit of Dr.V. Krishnamurthy Educational Foundation



Tiruchy - Dindigul Road, Karumandapam, Tiruchirappalli - 620 001

Policy Document on Environment and Energy Usage

Motto: "Reduce, Recycle and Restore"

Preamble

- This document was developed to provide students, staff and other stakeholders with the policy position of NCT with regard to Environment and Energy usage in the institution and elsewhere.
- Every care was taken to cover all facets within the scope of the Environment policy of Government of India and the United Nations.
- Any comments, queries and suggestions may be brought to the attention of the Principal, who is the administrative head of the institution.
- The NCT reserves the right to alter, amend or modify sections of this policy document in response to regional, national and international needs as and when there arises a need, and is committed to doing so.

Introduction

- Academic institutions are expected to raise environmental consciousness, impart environmental values and develop environmental -friendly behavior in the future citizens of the world.
- Increased natural disasters and human made disasters have created a situation when the informed citizenry is expected to respond appropriately without resorting to blame game. It also includes the quality of learning and knowledge related to a biological community.
- It incorporates some of the Sustainable Development Goals envisaged by the United Nations like:
 - Clean Water and Sanitation (SDG 6)
 - Affordable and Clean Energy (SDG 7)
 - Sustainable Cities and Communities (SDG 11)
 - Responsible Consumption and Production (SDG 12)
 - Climate Action (SDG 13)

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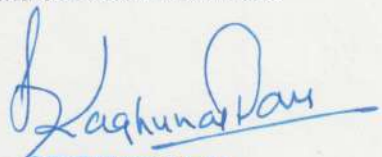
- Life below Water (SDG 14)
- Life on Land (SDG 15)
- Taking these into consideration, the NCT has framed this Environment and Energy Usage Policy and looks forward to its implementation.
- The National College, an autonomous institution of higher learning, under Bharathidasan University, Tiruchirappalli, with local, regional, national and global impacts, routinely evaluates its standards, programmes, practices and special ventures to remain effective.
- The college is eco-friendly in many ways. It is a green campus with lush greenery in the form of lawns, medicinal plants, native boulevard trees and a nursery. Smoking is completely prohibited on campus. Use of poor-quality plastic is also banned. Plastic cups, plastic bottles and plastic bags are not to be thrown inside the campus and violating this rule would invite punishment in the form of fines. Waste is to be segregated into degradable and non-degradable and for their collection two differently painted bins are kept all over the campus. Waste is disposed regularly. A composting unit must be in place to make compost, comprising dead leaves and wasted food. Water conservation is done through rain water harvesting pits in different locations. LED bulbs have to replace the CFL bulbs throughout the campus and help conserve energy. E-waste is to be disposed through agencies that collect and recycle it. A rooftop solar power plant may be erected in future with the money coming from corporate social responsibility. It is hoped that it will save energy and lower the power bills, besides supplying electricity to the local grid. A waste water recycling plant or a Sewage Treatment Plant is to be erected to minimize the dependence on ground water for all watering purposes.

Purpose

- The purpose of the Environment and Energy Usage Policy is to create a green campus and inculcate among the teachers and students a green attitude.
- The policy shall serve as an overall framework within which all the stakeholders namely the college management, the teaching staff, the non-teaching staff and the students will act.


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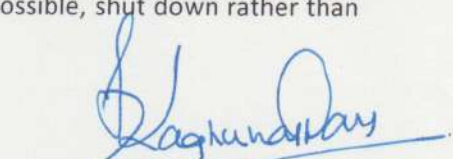
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Objectives

- To help the students become "dwellers" in the land and develop intimate knowledge and understanding of the place, especially its soil, the rocks, the wind, birds, insects, animals, plants, and even seasonal and climatic changes.
- To instill in students a reverence for life, that is to develop an environmental ethic, which will guide them to prevent pollution of all kinds.
- To make the students and teachers knowledgeable about carbon footprints and alternative sources of energy like wind energy and solar energy.
- To take part in reforestation/ tree planting drive which is restocking of existing forests and woodlands.
- To sensitize staff and students to follow eco-friendly practices in daily activities and programs.
- To move towards a paperless office with E-office practices such as encouraging communication through emails and other virtual platforms.
- Preference to eco-friendly items and material for packaging and decorations as well as for gifting / presenting memento and felicitating guests, during various programs.
- To reduce waste production on campus.
- To switch off lights, fans /air conditioners in conference rooms, classrooms, lecture halls when they are not in use.
- To install solar panels for the generation of alternate energy.
- To maintain cleanliness and sanitization throughout the campus.
- To provide information and training opportunities on energy saving measures.
- To reduce local air pollution emission by using bicycles, public transportation and pedestrian – friendly roads.
- To turn off computer monitors when not in use. Whenever possible, shut down rather than logging off.
- To use natural lighting and ventilation as and when possible.


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- To conduct periodical Green, Energy and Environmental Audits and take corrective steps.
- To protect the various species of birds, butterflies, dragonflies and plants found on campus.
- "Reduce, Recycle and Restore" to be the motto for all green activities.

List of Birds, Butterflies and Dragonflies found on campus during different seasons

Birds List

Common Name	-	Scientific Name
Grey Francolin	-	Francolinus pondicerianus
Indian Peafowl	-	Pavo cristatus
Indian Pond Heron	-	Ardeola grayii
Cattle Egret	-	Bubulcus ibis
Black -Winged Kite	-	Elanus caeruleus
Black Kite	-	Milvus migrans
Brhaminy Kite	-	Haliastur indus
Oriental Honey- buzzard	-	Pernis ptilorhynchus
Shikra	-	Accipiter badius
White-breasted Waterhen	-	Amaurornis phoenicurus
Purple Swamphen	-	Porphyrio porphyrio
Common Moorhen	-	Gallinula chloropus
Common Coot	-	Fulica atra
Yellow-wattled Lapwing	-	Vanellus malabaricus
Red-wattled Lapwing	-	Vanellus indicus
Rock Pigeon	-	Columba livia
Spotted Dove	-	Spilopelia chinensis
Rose-ringed Parakeet	-	Psittacula krameri
Jacobin Cuckoo	-	Clamator jacobinus
Common Hawk Cuckoo	-	Hierococcyx varius
Asian Koel	-	Eudynamys scolopaceus
Blue-faced Malkoha	-	Phaenicophaeus viridirostris
Greater Coucal	-	Centropus sinensis
Barn Owl	-	Tyto alba
Indian Scops Owl	-	Otus bakkamoena
Spotted Owlet	-	Athene brama
Asian Palm Swift	-	Cypsiurus balasiensis
Common Hoopoe	-	Upupa epops
Indian Roller	-	Coracias benghalensis
White-throated Kingfisher	-	Halcyon smyrnensis



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Common Kingfisher	-	Alcedo atthis
Pied Kingfisher	-	Ceryle rudis
Green Bee-eater	-	Merops orientalis
Coppersmith Barbet	-	Megalaima haemacephala
Black-Rumped Goldenback	-	Dinopium benghalense
Indian Pitta	-	Pitta brachyura
Common Woodshrike	-	Tephrodornis pondicerianus
Ashy Woodswallow	-	Artamus fuscus
Brown Shrike	-	Lanius cristatus
Black Drongo	-	Dicrurus macrocerus
Indian Golden Oriole	-	Oriolus kundoo
Indian Paradise-flycatcher	-	Terpsiphone paradisi
Rufous Treepie	-	Dendrocitta vagabunda
Indian Jungle Crow	-	Corvus culminatus
House Crow	-	Corvus splendens
Barn Swallow	-	Hirundo rustica
Red-rumped Swallow	-	Cecropis daurica
Red-vented Bulbul	-	Pycnonotus cafer
Common Tailorbird	-	Orthotomus sutorius
Booted Warbler	-	Iduna caligata
Green Warbler	-	Phylloscopus nitidus
Yellow-billed Babbler	-	Turdoides affinis
Whiskered Tern	-	Chlidonias hybridus
Brahminy Starling	-	Sturnia pagodarum
Oriental Magpie Robin	-	Copsychus saularis
Indian Robin	-	Saxicoloides fulicatus
Asian Brown Flycatcher	-	Muscicapa latirostris
Pale-billed Flowerpecker	-	Dicaeum erythrorhynchos
Purple Sunbird	-	Cinnyris asiaticus
House Sparrow	-	Passer domesticus
Baya Weaver	-	Ploceus philippinus
Scaly-breasted Munia	-	Lonchura punctulata
White-browed Wagtail	-	Motacilla maderaspatensis

Butterflies

Common Name	-	Scientific Name
Tailed Jay	-	Graphium agamemnon
Common Mormon	-	Papilio polytes
Blue Mormon	-	Papilio polymnestor



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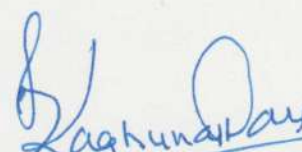


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Lime Butterfly	-	Papilio demoleus
Common Banded Peacock	-	Papilio crino
Common Rose	-	Pachliopta aristolochiae
Crimson Rose	-	Pachliopta hector
Common Grass Yellow	-	Eurema hecabe
Common Emigrant	-	Catopsilia pomona
Common Jezebel	-	Delias eucharis
Blue Tiger	-	Tirumala limniace
Dark Blue Tiger	-	Tirumala septentrionis
Glassy Tiger	-	Parantica aglea
Plain Tiger	-	Danaus crysippus
Striped Tiger	-	Danaus genutia
Common Crow	-	Euploea core
Double Branded Crow	-	Euploea sylvester
Common Evening Brown	-	Melanitis leda
Common Bushbrown	-	Mycalesis perseus
Tawny Coster	-	Acraea violae
Angled Caster	-	Ariadne ariadne
Joker	-	Byblia ilithiya
Danaid Eggfly	-	Hypolimnas misippus
Great Eggfly	-	Hypolimnas bolina
Blue Pansy	-	Junonia orithiya
Yellow Pansy	-	Junonia Hierta
Lemon Pansy	-	Junonia lemonias
Chocolate Pansy	-	Junonia iphita
Common Pierrot	-	Castalius rosimon
Common Cerulean	-	Jamides celeno
Forget-me-not	-	Catochrysops strabo
Pea Blue	-	Lampides boeticus
Zebra Blue	-	Leptotes olinius
Gram Blue	-	Euchrysops cnejus
Pale Grass Blue	-	Pseudozizeeria maha
Tiny Grass Blue	-	Zizula hylax
Grass Jewel	-	Freyeria trochylus
Small Grass Jewel	-	Freyeria putli
Plains Cupid	-	Chilades pandava




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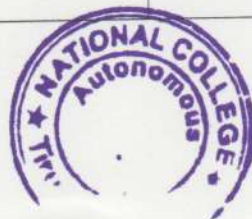
Plain Pam Dart	-	Cephrenes acalle
Straight Swift	-	Parnara naso / Parnara bada
Grass Demon	-	Udaspes folus
Indian Dartlet	-	Oriens goloides

Dragonflies

Wandering Glider	-	Pantala flavescens
Crimson Marsh Glider	-	Trithemis aurora
Green Marsh Skimmer	-	Orthetrum sabina
Blue Ground Skimmer	-	Diplacodes trivialis
Common Hooktail	-	Paragomphus lineatus

Tree Diversity of National College Campus

S.No	Binomial Name	Family	Common Name
1.	<i>Peltophorum trifolium</i> (DC) ex.	Fabaceae	அயல் வாகை
2.	<i>Samanea saman</i> (Jacq.) Merr.	Fabaceae	தூங்கா மூஞ்சி மரம்
3.	<i>Derris scandens</i> (Roxb.) Benth.	Fabaceae	அதிரல் (or) கொடிப்புன்கு
4.	<i>Bauhinia racemosa</i> . Lam	Fabaceae	ஆத்தி
5.	<i>Cassia siame</i> . Lam	Fabaceae	மலை ஆவாரை
6.	<i>Pongamia pinnata</i> . (L.) Pierre.	Fabaceae	புங்கை
7.	<i>Delonix regia</i> . (Boj. ex Hook.) Raf.	Fabaceae	மயிர்க்கொன்றை
8.	<i>Millingtonia hortensis</i> , Linn.	<u>Bignoniaceae</u>	மரமல்லி
9.	<i>Lanea coromandelica</i> . (Houtt.) Merr.	Anacardiaceae	ஓதியன்
10.	<i>Terminalia catappa</i> .L.	<u>Combretaceae</u>	வாதாம்
11.	<i>Syzygium cumini</i> (L.)	<u>Myrtaceae</u>	நாவல்



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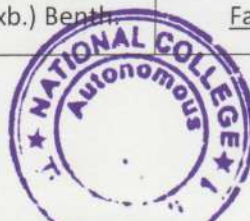
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12.	<i>Spathodea (Tabebuia Grandis)</i>	Bignoniaceae	நந்தி ஃப்ளேம்
13.	<i>Cassia fistula L.</i>	Fabaceae	சரக்கொன்றை
14.	<i>Swietenia mahagoni(L.)</i>	<u>Meliaceae</u>	மகாகனி
15.	<i>Melia azedarach L.</i>	<u>Meliaceae</u>	மலை வேம்பு
16.	<i>Mimusops elengi L.</i>	<u>Sapotaceae</u>	மஹிலம்
17.	<i>Bambusa bambos (L.)</i>	Poaceae	மூங்கில்
18.	<i>Leucaena leucocephala (Lam.)</i>	<u>Fabaceae</u>	குபா புல்
19.	<i>Phyllanthus acidus(L.)</i>	<u>Phyllanthaceae</u>	அரைநெல்லி
20.	<i>Coleoptera integrifolia</i>	-	ஆவி மரம்
21.	<i>Dalbergia sissoo Roxb.</i>	<u>Fabaceae</u>	சிசு மரம்
22.	<i>Dalbergia latifolia. Roxb.</i>	<u>Fabaceae</u>	ஈட்டி மரம்
23.	<i>Sterculia foetida L.</i>	<u>Malvaceae</u>	குதிரைப்பிடுக்கு
24.	<i>Pterocarpus marsupium Roxburgh</i>	<u>Fabaceae</u>	வேங்கை
25.	<i>Terminalia arjuna (Roxb.) Wight & Arn.</i>	Combretaceae.	வெண் மருது
26.	<i>Albizia lebeck (L.) Benth.</i>	Fabaceae	வாகை
27.	<i>Tectona grandis L.f.</i>	<u>Lamiaceae</u>	தேக்கு
28.	<i>Aegle marmelos (L.) Corrèa</i>	<u>Rutaceae</u>	வில்வம்
29.	<i>Moutegenia calabura L.</i>	-	சர்க்கரை பழம்
30.	<i>Ficus benghalensis L. 1753</i>	Moraceae	ஆல மரம்
31.	<i>Ficus religiosa L.</i>	Ficus religiosa	அரச மரம்
32.	<i>Tecoma stans (L.) Juss. ex Kunth</i>	<u>Bignoniaceae</u>	-
33.	<i>Madhuca longifolia (J.Konig) J.F.Macbr.</i>	Sapotaceae	இலுப்பை மரம்
34.	<i>Thespesia populnea (L.) Sol. ex Corrèa</i>	Malvaceae	பூவரசு
35.	<i>Vitex negundo L.</i>	<u>Lamiaceae</u>	நொச்சி
36.	<i>Crateva adanson DC., 1824</i>	Capparaceae	மாவிலங்கு
37.	<i>Pithecellobium dulce (Roxb.) Benth.</i>	<u>Fabaceae</u>	கொடுக்காய்ப்புளி

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38.	<i>Santalum album</i> L.	<u>Santalaceae</u>	சந்தனம் மரம்
39.	<i>Tamarindus indica</i>	<u>Fabaceae</u>	புளியமரம்.
40.	<i>Polyalthia longifolia</i> Sonn.	Annonaceae	நெட்டிலிங்கம்
41.	<i>Morinda pubescens</i> Roxb.	<u>Rubiaceae</u>	நூனா
42.	<i>Lawsonia inermis</i> L.	<u>Lythraceae</u>	மருதாணி
43.	<i>Adinandra pavonina</i> L.	Pentaphylacaceae	ஆனை குண்டுமணி
44.	<i>Erythrina variegata</i> L.	<u>Fabaceae</u>	கல்யாண முருங்கை
45.	<i>Couroupita guianensis</i> Aubl.	<u>Lecythydaceae</u>	நாகலிங்கம்
46.	<i>Mangifera indica</i> L.	<u>Anacardiaceae</u>	மாமரம்
47.	<i>Calophyllum inophyllum</i> L.	<u>Calophyllaceae</u>	புன்னை மரம்
48.	<i>Punica granatum</i> L.	<u>Lythraceae</u>	மாதுளை


Principal


Secretary

