

Khwaja Moinuddin Chishti **Urdu, Arabi- Farsi** **University**

Lucknow, U.P.

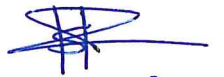
Green Audit Report

2018 - 2019

Date: 11/08/2018

AUDITED BY


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मण्डल अभियंता
पूर्वोत्तर रेलवे बरेली



Independent Auditor Er. Ashutosh Kumar Srivastava

Green Audit

1. Green Audit

The Green Audit is a systematic process for assessing environmental practices within institutions, aiming to identify, quantify, and analyze their impact on eco-friendly practices. It helps Higher Educational Institutions (HEIs) understand their resource usage and waste generation, promoting environmental awareness and sustainability. It's crucial for HEIs to evaluate their contributions towards a sustainable future, especially as environmental concerns grow. The Green Audit is mandated by organizations like the National Assessment and Accreditation Council (NAAC), reflecting the institution's role in addressing environmental challenges and reducing carbon emissions. It's essential for documenting and prioritizing environmental sustainability efforts in line with regulations and standards.

1.1 Biodiversity Audit

The Biodiversity Audit Approach is an evidence-based method for delivering biodiversity at a landscape scale. It integrates data on priority species to provide conservation guidelines, focusing on multi-species assemblages. Its objective is to offer land managers and conservation advisors practical advice for enhancing biodiversity sustainably. The approach identifies ecological guilds, grouping species with similar needs, to inform habitat-based conservation strategies. It also ensures campus sustainability by aligning buildings with green standards and enforcing environmental policies through awareness programs.

I. Biodiversity

The university maintains greenery through regular garden maintenance overseen by staff and university authorities. Activities include planting diverse species, raising awareness about carbon consumption, and organizing annual plantation programs involving the university community. A Campus Horticulture Committee ensures gardens are well-kept, with various departmental activities like landscaping and maintenance. The horticultural unit, led by a dedicated director and team, transforms areas for infrastructure while preserving natural vegetation. Plantations along roadsides, in departmental premises, and residential areas provide habitat for birds and shade. Overall, the campus boasts extensive greenery and beautification efforts.

II. Plantation

KMC Urdu, Arabi- Farsi University is actively engaged in ongoing tree planting initiatives, encompassing species of significance, including medicinal and fruit-bearing varieties. These planting events, held during national and international occasions with participation from university members and guests, foster an eco-friendly atmosphere, enriching the campus environment with pure oxygen and raising awareness among neighboring communities. The program features indigenous ornamental and medicinal plant species, identified and explained by faculty from the Horticulture and Botany departments, along with assistance from NSS students, highlighting their scientific names and medicinal properties.



Lush Green Campus of KMC Urdu, Arabi- Farsi University, Lucknow

III. Diversity of Plant and Animal Life Within the University Campus

Biodiversity serves as a vital indicator of biological system health, showcasing Earth's millions of distinct species. It varies globally, thriving in tropical regions but diminishing in Polar Regions due to limited biomass. Different diversity levels are interconnected, and rapid environmental changes often lead to extinctions. Human activities, notably habitat destruction, drive the ongoing decline in biodiversity since the emergence of humans, known as the Holocene extinction.

IV. Fauna Details in the campus

Fauna Details				
Sr. No.	Scientific name	Common name	Family	Phylum
1	Alexandrine Parakeet <i>Psittaculaeupatria</i>	Tota/Parrot	Psittaculidae	Chordata
2	Ashy Prinia <i>Priniasocialis</i>	Kali Phutk	Cisticolidae	Chordata
3	Asian Koel <i>Eudynamysscolopaceus</i>	Koel	Cuculidae	Chordata
4	Asian Pied Starling <i>Sturnus contra</i>	Ablak	Sturnidae	Chordata
5	Bank Myna <i>Acridotheresginginianus</i>	Mynah	Sturnidae	Chordata
6	Barn Owl <i>Tyto alba</i>	Owl/Ullu	Tytonidae	Chordata
7	Black Drongo <i>Dicrurusmacrocerus</i>	Bhujanga	Dicruridae	Chordata
8	Black Kite <i>Milvus migrans</i>	Cheel	Accipitridae	Chordata
9	Black Redstart <i>Phoenicurusochrurus</i>	blackstart and black redtail	Muscicapidae	Chordata
10	Black rumped flameback <i>Dinopium benghalense</i>	Katodwa	Picidae	Chordata
11	Brahminy Starling <i>Sturnus Pagodarum</i>	Brahminy Myna	Sturnidae	Chordata

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Fauna Details				
Sr. No.	Scientific name	Common name	Family	Phylum
12	Brain fever Bird Hierococcyx various	Papiha	Cuculidae	Chordata
13	Cattel Egret Bubulcus ibis	Badami bagla	Ardeidae	Chordata
14	Chestnut-tailed starling sturnusmalabaricus	Grey Headed Mynah	Sturnidae	Chordata
15	Citrine Wagtail Motacilla	Pied Wagtail	Motacillidae	Chordata
16	Common/Eurasian Hoopoe Upupa Epops	Hudhud	Upupidae	Chordata
17	Common Myna Acridotheres tristis	Desi Myna	Sturnidae	Chordata
18	Coppersmith Barbet Megalaima haemacephala	Tuktukia	Megalaimidae	Chordata
19	Eurasian Collared Dove Streptopelia decemfasciata	Panduk	Columbidae	Chordata
20	Green Bee-eater Merops orientalis	Patringa or Harrial	Meropidae	Chordata
21	House crow Corvus splendens	Crow or Kawwa	Corvidae	Chordata
22	House Swift Apus affinis nipalensis	House Swift	Apodidae	Chordata
23	House-sparrow Passer domesticus	Gauriya	Passeridae	Chordata
24	Indian Peafowl Pavocristatus	Mor	Phasianidae	Chordata
25	Indian Pond-Heron Ardeola grayii	Paddy Bird	Ardeidae	Chordata
26	Indian Robin Saxicola daresburyi	Kalchuri	Muscicapidae	Chordata
27	Indian Roller Coracias benghalensis	Neelkanth	Coraciidae	Chordata
28	Jungle Owlet Glaucidium nigrum	Barsa Chugad	Strigidae	Chordata
29	Large Grey-Babbler Argemone argemone	Gaugai	Leiothrichidae	Chordata
30	Red-breasted Flycatcher Ficedula parva	Flycatcher	Muscicapidae	Chordata
31	Red-vented Bulbul Pycnonotus cafer	Bulbul	Pycnonotidae	Chordata
32	Red-Whiskered Bulbul Pycnonotus jocosus	pahari bulbul	Pycnonotidae	Chordata
33	Rock Pigeon Columba livia	Kabootar	Columbidae	Chordata
34	Graphium doson C & R Felder	Common/Blue Jay	Papilionidae	Arthropoda
35	Astrophaneura aristolochiae Fabricius	Common Rose	Papilionidae	Arthropoda
36	Papilio Polytes cramer	Lime Butterfly	Papilionidae	Arthropoda
37	Danaus chrysippus Linnaeus	Plain Tiger	Nymphalidae	Arthropoda
38	Junonia atlites Linnaeus	Grey Pansy	Nymphalidae	Arthropoda
39	Junonia almana Linnaeus	Peacock Pansy	Nymphalidae	Arthropoda
40	Junonia iphita Cramer	Chocolate Pansy	Nymphalidae	Arthropoda
41	Hypolimnasma sippus Linnaeus	Danaid Egg fly	Nymphalidae	Arthropoda
42	Hypolimnasma bolina Linnaeus	Great Egg fly	Nymphalidae	Arthropoda
43	Phalanta phalantha Drury	Common Leopard	Nymphalidae	Arthropoda
44	Neptis hylas Linnaeus	Common Sailor	Nymphalidae	Arthropoda
45	Junonia orithya Linnaeus	Blue Pansy	Nymphalidae	Arthropoda
46	Ariadne merione Cramer	Common Castor	Nymphalidae	Arthropoda
47	Eurema brigitta Cramer	Small Grass Yellow	Pieridae	Arthropoda
48	Lxias pyrene Linnaeus	Yellow Orange Tip	Pieridae	Arthropoda
49	Cepora nerissa Fabricius	Common Gull	Pieridae	Arthropoda
50	Delias eucharis Drury	Common Jezebel	Pieridae	Arthropoda
51	Talica adantheus Guerin	Red Pierrot	Lycenidae	Arthropoda
52	Chilades pandava Horsfield	Plains cupid	Lycenidae	Arthropoda

A total of fifty-two animal species were recorded within the university campus during the study. The fauna observed represented a diverse range of animal groups, including insects, other invertebrates, reptiles, amphibians, birds, and mammals. Common fauna species across the study areas included termites, ants, earthworms, lizards, spiders, and springtails, with a notable presence near the campus's water body, which serves as a significant attraction for birds and animals seeking water.

The university's exceptional efforts, coupled with the adoption of scientific methods, are commendable.

V. Flora Details

Flora Details					
S. No	Species Name	Common Name	Family	Habit	No. of Plants
1	Murraya Paniculata	Orange Jessamine	Rutaceae	South Asia	15
2	Jacaranda Arborea	Jacaranda	Bigroniaceae	Cuba	5
3	Calotropis Gigantea	Crown Flower	Dogbanes	India, China	1
4	Black Tupela	Blackgum	Dog woods	Eastern Noth America	1
5	Mettia Milletia Pinnata	Indian beech, Karanja	Fabaceae	Eastern and Tropical Asia, Australia	3
6	Eucalyptus	Tailapatra	Myrtaceae	Substrates	3
7	Plumeria Obtusa	Singapore Graveyard	Apocynaceae	Neotropics	6
8	Tabernaemontana	Pinwheel flower	Apocynaceae	Terrestrial	8
9	Hamelia patens	Firebush	Rubiaceae	Moist Soil	3
10	Sublanceolata	Banyan	Moraceae	Subtropical Rainforest	12
11	Nerium	Oleander	Apocynaceae	River valley	4
12	Quercus Petraea	Sessile oak	Fagaceae	Semi-Natural Woodland	1
13	Caryota Mitis	Fishtail Palm	Arecaceae	India, South East Asia	2
14	Ficus Religiosa	Sacred Fig	Moraceae	SouthEast Asia	2
15	Anadenanthera Colubrina	Vilca	Fabaceae	South America	1
16	Dalbergia Sissoo	Indian Rosewood	Fabaceae	SouthEast Asia	3
17	Ficus Benjamina	Weeping Fig	Moraceae	Tropical Rainforest	4
18	Psidium Guajava	Guava, Amrood	Myrtaceae	Central & South America	2

Flora Details

S. No	Species Name	Common Name	Family	Habit	No. of Plants
19	Mangifera Indica	Mango	Anacardiaceae	Low Land Tropical	2
20	Syzygium Cumini	Java Plum, Jamun	Myrtaceae	Tropical & Subtropical Forest	3
21	Saraca Asoca	Ashok	Fabaceae	Central & Eastern Himalayas	4
22	Murraya Kolnigii	Curry Patta	Rutaceae	Tropical & Subtropical Region	1
23	Carica papaya	Papaya	Caricaceae	Tropical & Subtropical Region	1
24	Araucaria heterophylla	Norfolk Island Pine	Araucariaceae	Australia	1
25	Calotropis gigantea	Giant Calotrope	Apocynaceae	Dry coastal areas	1
26	Aganonerion polymorphum	Aganonerion	Apocynaceae	India, Bangladesh	4
27	Furcraea foetida	Mauritius hemp	Asparagaceae	Brazil	4
28	Encephalartos ferox	Zuzuland Cycad	Zamiaceae	Africa	2
29	Roystonea regia	Florida Royal Palm	Arecaceae	Central America, Cuba	2
30	Azadirachta indica	Neem	Meliaceae	India	2
31	Persea borbonia	Red Bay	Lauraceae	Moist Soil	3
32	Moringa oleifera	Moringo	Moringaceae	South Asia	2
33	Catharanthus roseus	Madagascar Periwinkle	Apocynaceae	Coastal	3
34	Rosa × alba	White Rose	Rosaceae	Sub Arctic climate	1
35	Terminalia catappa	Indian Almond	Combretaceae	Asia, Australia	1
36	Wrightia religiosa	Water Jasmine	Apocynaceae	China, Indochina and Malaysia	4
37	Cascabela Thevetia	Kaner	Dogbanes	tropical America	2

Flora Details

S. No	Species Name	Common Name	Family	Habit	No. of Plants
38	Acer negundo	Boxelder Maple	Sapindaceae	North America	3
39	Opuntia	Nopal, Prickly pear	Cactaceae	Semi arid region	1
40	Citrus limon	Lemon	Rutaceae	Asia, North East India	2
41	Petunia × atkinsiana Surfinia Group	Surfinia	Solanaceae	Central America	2
42	Mecardonia procumbens	Marcardonia	Plantaginaceae	Tropical & Subtropical region of America	1
43	Petunia	Petunia	Solanaceae	South America	2
44	Encelia californica	California brittlebush	Asteraceae	Southern California	1
45	Dianthus	Carnation	Caryophyllaceae	Oak forest clearing	3
46	Sporos dianthus	Carnation	Caryophyllaceae	Oak forest clearing	1
47	Pink dianthus	Carnation	Caryophyllaceae	Oak forest clearing	2
48	viola odorata	Sweet Violet	Violaceae	Europe & Asia	1
49	Dianthus chinensis	China pink	Caryophyllaceae	China Korea Mongolia	1
50	Torenia fournieri	Wishbone flower	Linderniaceae	Shade and hot humid weather	1
51	Tagetes minuta	Cone Marigold	Asteraceae	South America	3
52	Tinospora cordifolia	Giloy herbal plant	Menispermaceae	India	1
53	tamarindus indica	tamarind	Fabaceae	India	1
54	Calea	Bitter grass	Asteraceae	Mexico	1
55	Leucaena leucocephala	River tamarind	Fabaceae	Mexico	1
56	Indigofera tinctoria	Indigo	Fabaceae	Asia Africa	1
57	Ocimum tenuiflorum	Holy Basil, tulsi	Lamiaceae	Southern Asia	1
58	Murraya koenigii	curry tree	Rutaceae	Asia	1

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Flora Details					
S. No	Species Name	Common Name	Family	Habit	No. of Plants
59	Kalanchoe pinnata	Cathedral bells	Crassulaceae	Madagaskar	1
60	Pimenta racemosa	Bay rum tree	Myrtaceae	Carrabian	1
61	Tagetes	Marigold	Asteraceae	North America	5
62	ficus virens	White fig	Moraceae	India Pakistan	1
63	Fraxinus	Ash	Oleaceae	Subtropical	1
64	Streblus asper	Siamese rough bush	Moraceae	India, Indonesia	1
65	Rhinacanthus nasutus	snake jasmine	Acanthaceae	Tropical Asia	1
66	Lagerstroemia indica	Common Crape Myrtle	Lythraceae	South east asia, china	1
67	Aloe vera	Aloe vera	Asphodelaceae	arid climate	1
68	Minesotta	Red pine	Pinaceae	North America	1
69	bauhinia forficata	Brazilian orchid tree	Fabaceae	Argentina, Brazil, Peru	1
70	Euphorbia lathyris	capur spurge	Euphorbiaceae	Europe, Africa, Asia	1
71	baouganvillia	paperflower	Nyctaginaceae	South America, Brazil, Peru	1
72	Swietenia mahagoni	Mahogany	Meliaceae	America	1
73	Hibiscus rosa-sinensis	Shoeblack plant	Malvaceae	Tropical & Subtropical region	1
74	Calophyllum inophyllum	Punna tree	Calophyllaceae	Tropical Asia	1
Total Number of Plants					170

The highest diversity of plants was observed on the university campus with 74 plant species. Apocynaceae, Moraceae, Rutaceae, Fabaceae, Arecaceae, Myrtaceae, etc. are commonly found plants.



Greenery Maintained by KMCUAFU