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Analysis of Green Campus Initiative in Nirmala College of Education Ujjain MP (India)

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Abstract: Nirmala College of Education Ujjain MP (India) has rich biodiversity including many plant species Angiosperms, Gymnosperms, Pteridophytes, Bryophytes, Algal flora, Fungi. These plantsare described with scientific name, local language, family and location. These Plants are trees, shrubs & herbaceous in natura habit & habited all plants species are playing important role in sustainable environment of green campus of Nirmala college of education.

Keywords: NCE, GCI, initiatives plants, Environment & eco-friendly institution

I. INTRODUCTION

The "Green" term "grun" grass & grow= vegetation campus word derives from Latin word for "field .it was first use to describe the larger field adjacent Nassau Hall of the college of New Jersey in 1774. [1&2.] It was started by Susan Botha in late 2007. The concept of green campus is useful in the Education research and community service system in environmental management. [3-8] The plant spectrum of the green campus here includes specific types of vegetation such as wild cultivated species, dry field pools of vegetation, new construction areas, some land, gardens, fallow tracks, old walls, epiphytes on old plants and mosses present on ancient wall of building. This green campus is useful for the students to understand the concept of sustainable development. [9]

II. MATERIALS AND METHODS

Nirmala College of Education Ujjain MP (India) also knew by shorter name NCE, Nirmala College, it's recognized & affiliated to Vikram University Ujjain M.P. (India). The Phyto spectrum of the green campus of college there includes specific types of vegetation such as wild plants, cultivated, dry field pool of vegetation, old wall, epiphytes plants, field scrubplants, various biological species and distinctive plats species. Use the field survey method in this research, the point parameter found in its green campus, the unobtrusive parameter, important in that the plants found in the vegetation were studied here. The plants found in the natural beauty here were tabulated, they were classified on the basis of local name, botanical name and family. The NEC campus was frequently visited during the summer, winter & rainy seasons. All the species of herbs were collected in the months of flowering season. All herbaceous flora growing naturally within the campus were identified with the help of relevant literature Ommachan,(1977). In this research, using the field survey method, the point parameter found in its green complex, the unobtrusive parameter, is important that the plants found in the vegetation were studied here. Here the plants found in natural beauty were tabulated and classified on the basis of local name, botanical name and family. NEC campus is frequently visited during summer, winter and rainy season.

Each identified species was completely pressed in a plant press after that they were dried and mounted on herbarium sheets of to avoid the damage to the specimens from various microorganism such as fungi, insects etc, all dried specimens were poisoned by sinking the whole plant in a solution of mercuric chloride in ethyl alcohol (115 g mercuric chloride dissolved in 4.5 litre ethyl alcohol, called Kew Mixture). After all specimens were completely poisoned, they were dried and affixed (along with a label) on a mounting sheet by using Fevicolglue of the material. All the plants have been described with their scientific names, family, voucher no. all the dried specimens were deposited to the department of Botany, Vikram University Ujjain MP (India) in the form of complete herbarium sheets for future reference.

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Fig: Map of Green campus view of Nirmala college of Education Ujjain M.P. (India)

III. RESULT AND DISCUSSION

In college green campus is a place where eco-friendly practices and education combine to promote sustainability on the campus which ultimately enables an institution to redefine its environmental culture and be environmentally, social and social and for the environment, provides an opportunity to develop new paradigms by creating sustainable solutions[12]. In this study, through the literature review, field investigation, and survey, we investigated the environment for a green campus by examining NCE Ujjain MP (India), one of the leading examples of green campus initiatives, It is located in Located on the Malwa plateau, it is higher than the north Indian plains and the land rises towards the Vindhya Range to the south are widely known for their environment-friendly policies and practices. [13-15].it's observed that the green campus of Nirmala college of education UjjainMadhya Pradesh (India) green changes the campus community, especially students, in critical thinking and learning by adopting participatory, practical, understand the influence of education on students' perceptions about sustainability and determine the expectations and collaborative approaches to work together and it is a initiatives which is make college environment healthier for students and staff by involving the whole community to work towards a sustainable future. This campus plays an important role not only in the development of knowledge and understanding but also in building the foundation of environmental ethics among the students. It has been observed that green skills, habits, attitudes and values are inculcated in a person's life right from the college level. Within the scope of these efforts of the college is a sense of belonging to the college and its surroundings. This campus environment encourages, supports and nurtures the growing potential of learners through its green environment that connects with their surroundings. [16-18]. Green Campus is a place where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind [19].

IV. CONCLUSION

The sole purpose of the present investigation is that the plants species found in the priceless treasures of the natural wealth of Green Campus initiatives of Government Nirmala College of Ujjain MP (India)is only to be reflected on the world scenario.



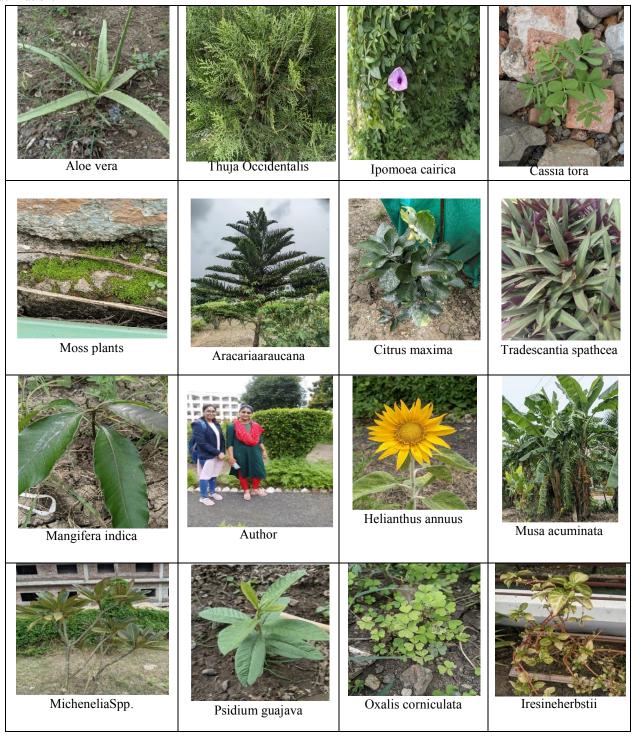


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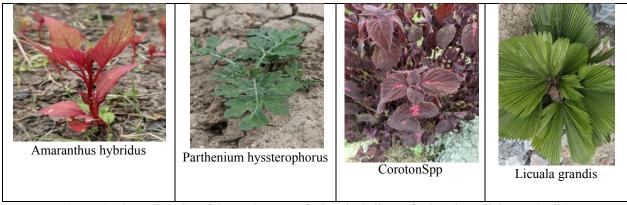


Figure 1: Phyto diversity of Green Campus of Nirmala College of Education Ujjain MP (India)



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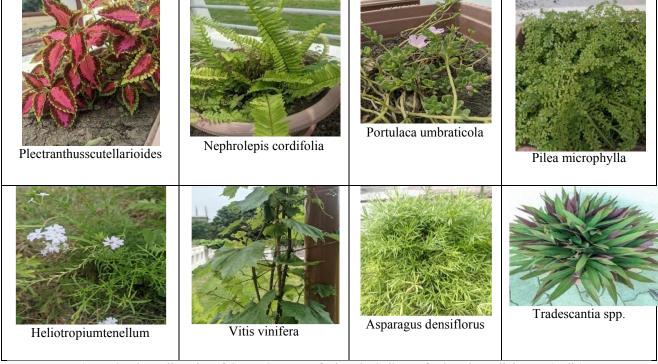


Figure 2: Phyto diversity of Green Campus of Nirmala College of Education Ujjain MP (India)

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S.N.	Vernacular Name	Botanical Name	Family
1	Eucalyptus	Eucalyptus spp.	Myrtaceae
2	kachnar	Bauhinia veriagata	Leguminaceae
3	Khajur	Phoenyxsilvestris	Aricaceae
4	Neem	Azadirachta indica	Meliaceae
5	Peepal	Ficus religiosa	Moraceae
6	Palash	Butea monosperma	Leguminaceae
7	Amaltas	Cassia fistula	Leguminaceae
8	Balamimli	Adensonia digitata	Malvaceae
9	Bamboo	Bambusa spp.	Poaceae
10	Ashok	Sareca indica	Leguminaceae
11	Kadamb	Anthocephaluskadamba	Rubiaceae
12	Casuriana	Casurianaequisitifolia	Casurianaceae
13	Tulsi	Oscimum sanctum	Lemiaceae
14	Madukamini	Muraya exotica	Rutaceae
15	Kaner (Red)	Nerium indicum	Apocynaceae
16	Kaner(Yellow	Thevesianerifolia	Apocynaceae
17	Chandan	Santelum album	Santalaceae
18	Arjun	Terminalia arjuna	Combretaceae
19	Vidya	Thuja oxidentelis	Gymnosperm
20	Imli	Temirands indica	Leguminaceae
21	Sheesham	Dalbergia sisoo	Leguminaceae
22	Gondi	Cordia myxa	Boraginaceae
23	Aam	Mangifera indica	Anacardiaceae
24	Samel	Bombex ceiba	Bombacaceae
25	Gulmohar	Delonix regia	Leguminaceae
26	Avla	Abbelica officinalis	Phyllanthaceae
27	Subabul	Lecucaenaleucocephala	Leguminaceae
28	Jamfal	Sygygium guajava	Myrtaceae
29	Champa	Micheliachampaca	Magnoliaceae
30	Badam	Terminalia catappa	Rosaceae
31	Ber	Ziziphus numularia	Rhemnaceae
32	Bel patra	Agelmarmelos	Rutaceae
33	Babool	Acacia nilitica	Leguminaceae
34	Mehandi	Lausiniainermis	Lytharaceae
35	Sadabahar	Catheranthus roseus	Apocynaceae
36	Jamun	Syzigiumcumini	Myrtaceae
37	Bottle Palm	Hyophorbelagenicaulis	Aricaceae
38	Dracaena	Dracaena	Asparagaceae
39	Bauhravia	Bauhraviadifusa	Leguminaceae



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40	Boganvillia	Boganvillia spp.	Nyctaginaceae
41	Sago	Cycas revoluta	Gymnosperm
42	Madhumaltee	Qusqualis indica	Combrataceae
43	Lotus	Nelumbo nucifera	nelumbonaceae
44	Shatavari	Asperagus spp.	Asparagaceae
45	Vajradanti	Barleria cristata	Acanthaceae
46	Giloy	Tinosporacardifolia	Menispermnaceae
47	Madar	Calotropis procera	Acclepidiaceae
48	Karanj	Pongamia pinnata	Leguminaceae
49	Sahijan	Moringa olifera	Moringaceae
50	China rose	Hibiscusrosa sinensis	Malvaceae
51	Lantana	Lantana chemera	Verbinaceae
52	Puwadia	Cassia tora	Leguminaceae
53	Agave	Agave sisalana	Agavaceae
54	Tradescantia	Tradescantia zerbrina	Commelinaceae
55	Bar room plant	Aspidispra elatior	Asparagaceae
56	Kharak plant	Colocassia spp.	Araceae
57	Galobi	Sonchus canariensis	Asteraceae
58	Adhashishi	Xanthium strumarium	Asteraceae
59	Dudhi	Euforbiahirta	Euphorbiaceae
60	Gwarpatha	Aloe vera	Agavaceae

Figure 3: Species diversity of Green Campus of Nirmala College of Education Ujjain MP (India)

