

PCE-Green Audit Report-2020-21



**PRIYADARSHINI COLLEGE
OF ENGINEERING, (PCE),**

Nagpur- MS (India)



GREEN AUDIT REPORT

2020-2021

PCE-Green Audit Report-2020-21

CERTIFICATE

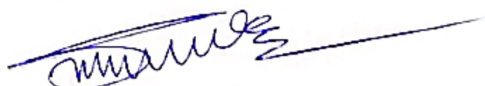
This is to certify that a Green Audit at **Priyadarshini College of Engineering, Nagpur** (PCE) was conducted for 2020-2021 session to assess green initiatives for sustenance of institute ecosystem and environment.

Institute has submitted necessary data and credentials for scrutiny. The activities and measures carried out by the institute have been verified based on the report submitted and actual field observations. It was observed that a number of environmentally friendly best practices are undertaken in the college.

The institute constantly strives to care for the mother earth, biodiversity and landscaping as per the requirements of the flora. Also motivates the students to keep the campus green, clean and plastic free.

The efforts taken by the institute towards environmental sustainability is appreciable and commendable.

Internal Green Audit officer



(Dr. Subhash R. Somkuwar)
External Green Audit Officer



(Dr. Rupali R. Chaudhary)
External Green Audit Co-officer

HOD-Botany
Dr. Ambedkar College
Deekshabhoomi, Nagpur

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Plants Diversity in Priyadarshini College of Engineering, Nagpur (PCE) Premises 2020-21

Sr. No.	Botanical Name	Family	Common Name	Total No. of Individual/s	Total No. of Sapling/s
1	<i>Abutilon indicum</i>	Malvaceae	Indian mallow	8	-
2	<i>Acacia nilotica</i>	Fabaceae	Babul	1	7
3	<i>Acacia concinna</i>	Fabaceae	Shikakai	2	1
4	<i>Acacia catechu</i>	Fabaceae	Khair	2	2
5	<i>Acacia leucophleca</i>	Fabaceae	Hiwar	2	3
6	<i>Acalypha hispida</i>	Euphorbiaceae	fox tail	17	-
7	<i>Achyranthes aspera</i>	Amaranthaceae	Kutri	6	-
8	<i>Aegle marmelos</i>	Rutaceae	Bel	1	-
9	<i>Annona squamosa</i>	Annonaceae	Sitaphal	3	2
10	<i>Allamanda cathartica</i>	Apocynaceae	Golden trumpet	2	-
11	<i>Anthurium sp.</i>	Araceae	Flamingo Flower	9	-
12	<i>Alstonia scholaris</i>	Apocynaceae	Saptparni	36	-
13	<i>Aralia sp.</i>	Araliaceae	Aralia white	9	-
14	<i>Aralia sp.2</i>	Araliaceae	Aralia ornamental	11	-
15	<i>Argemone mexicana</i>	Papaveraceae	Pipla dudi	3	-
16	<i>Albizia procera</i>	Fabaceae	Pandara Siris	1	-
17	<i>Albizia sp.</i>	Fabaceae	Siris	-	1
18	<i>Aloe vera</i>	Asphodelaceae	Aloe vera	15	-

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19	<i>Alternanthera sessilis</i>	Amaranthaceae	Kanchari	4	-
20	<i>Alpinia</i> sp.	Zingiberaceae	Red ginger plant	3	-
21	<i>Asparagus racemosus</i>	Asparagaceae	Shatawari	5	-
22	<i>Azadirachta indica</i>	Meliaceae	Neem	161	39
23	<i>Beaucarnea recurvata</i>	Asparagaceae	Ponytail palm	4	-
24	<i>Bambusa arundinacea</i>	Poaceae	Bamboo	102	-
25	<i>Bambusa ventricosa</i>	Poaceae	Buddha's Bamboo	8	-
26	<i>Bauhinia purpurea</i>	Fabaceae	Kanchan	137	-
27	<i>Bauhinia variegata</i>	Fabaceae	Kanchan	17	-
28	<i>Boerhavia diffusa</i>	Nyctaginaceae	Khaperkhuti	47	-
29	<i>Bryophyllum pinnatum</i>	Crassulaceae	Panphuti	4	-
30	<i>Butea monosperma</i>	Fabaceae	Palas	5	2
31	<i>Canavalia gladiata</i>	Fabaceae	Badi sem	2	-
32	<i>Calliandra haematocephala</i>	Fabaceae	Powder pop	3	-
33	<i>Cardiospermum halicacabum</i>	Sapindaceae	Kapalphodi	3	-
34	<i>Caesalpinia pulcherrima</i>	Fabaceae	Shankhasur	10	-
35	<i>Capparis</i> sp.	Capparaceae	Capparis	52	-
36	<i>Convolvulus arvensis</i>	Convolvulaceae	Morning glory	3	6
37	<i>Cocculus hirsutus</i>	Menispermaceae	Washingwel	10	-
38	<i>Cocos nucifera</i>	Arecaceae	Coconut	3	-
39	<i>Combretum indicum</i>	Combretaceae	Combretaceae	8	-

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40	<i>Conocarpus lancifolius</i>	Combretaceae	Damas	3	-
41	<i>Cordia sebestena</i>	Boraginaceae	Scarlet cordia	4	-
42	<i>Cycas circinalis</i>	Cycadaceae	Cycas	11	-
43	<i>Cycas sp.</i>	Cycadaceae	Cycas	18	2
44	<i>Cucumaria sp</i>	Cucurbitaceae	Cucumaria	4	-
45	<i>Croton bonplandianum</i>	Euphorbiaceae	Croton	7	-
46	<i>Codiaeum variegatum</i>	Euphorbiaceae	Croton	3	-
47	<i>Corchorus capsularis</i>	Malvaceae	Banpat	6	-
48	<i>Celosia argentea</i>	Amaranthaceae	Kombda	16	-
49	<i>Ceiba pentandra</i>	Malvaceae	Safed Semul	4	-
50	<i>Citrus limon</i>	Rutaceae	Limboo	3	-
51	<i>Clitoria ternatea</i>	Fabaceae	Gokurna	9	-
52	<i>Calotropis procera</i>	Apocynaceae	Rui	26	2
53	<i>Callistemon citrinus</i>	Myrtaceae	Bottlebrushes	1	-
54	<i>Cassia fistula</i>	Fabaceae	Bahawa	1	
55	<i>Chlorophytum breviscapum</i>	Asparagaceae	Musli	12	-
56	<i>Cymbopogon martini</i>	Poaceae	Gawat	13	-
57	<i>Dalbergia latifolia</i>	Fabaceae	Sisam	3	-
58	<i>Dalbargia sissoo</i>	Fabaceae	Sisam	2	-
59	<i>Datura metel</i>	Solanaceae	Datura	2	-
60	<i>Delonix regia</i>	Fabaceae	Gulmohar	6	-

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58	<i>Dalbargia sissoo</i>	Fabaceae	Sisam	2	-
59	<i>Datura metel</i>	Solanaceae	Datura	2	-
60	<i>Delonix regia</i>	Fabaceae	Gulmohar	6	-

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61	<i>Desmodium gangeticum</i>	Fabaceae	Shalaparni	14	-
62	<i>Digera muricata</i>	Amaranthaceae	Getna	6	-
63	<i>Diplocyclos palmatus</i>	Cucurbitaceae	Shivlingi	8	-
64	<i>Dolichos lablab</i>	Fabaceae	Wall	2	-
65	<i>Dracaena reflexa</i>	Asparagaceae	Dracaena	10	-
66	<i>Dracaena fragrans</i>	Asparagaceae	Dracaena	6	-
67	<i>Dracaena sp</i>	Asparagaceae	Dracaena	5	-
68	<i>Dregea volubilis</i>	Apocynaceae	Akad bel,	2	-
69	<i>Duranta repens</i>	Verbenaceae	Duranta	54	-
70	<i>Dyopsis lutescens</i>	Arecaceae	Areca palm	18	-
71	<i>Eclipta prostrata</i>	Asteraceae	Bhringaraj	24	-
72	<i>Euphorbia tithymaloides</i>	Euphorbiaceae	Euphorbia	1	-
73	<i>Euphorbia milli</i>	Euphorbiaceae	Euphorbia	98	-
74	<i>Euphorbia hirta</i>	Euphorbiaceae	dudi	many	-
75	<i>Ficus benghalensis</i>	Moraceae	Wad	10	-
76	<i>Ficus hispida</i>	Moraceae	katumber	1	-
77	<i>Ficus religiosa</i>	Moraceae	Pipal	3	7
78	<i>Ficus microcarpa</i>	Moraceae	Berry	17	-
79	<i>Gardenia gummifera</i>	Rubiaceae	Dikemali	22	-
80	<i>Gmelina arborea</i>	Lamiaceae	Shivan	27	-
81	<i>Hardwickia binata</i>	Fabaceae	Pahali Anjan	3	-

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82	<i>Hemidesmus indicus</i>	Apocynaceae	Khobarwel	42	18
83	<i>Heliconia psittacorum</i>	Heliconiaceae	Parrot's flower	4	-
84	<i>Hyptis suaveolens</i>	Lamiaceae	Vilayati Tulasi	10	-
85	<i>Hibiscus rosa-sinensis</i>	Malvaceae	Jaswand	2	2
86	<i>Ixora coccinea</i>	Rubiaceae	Lokhandi	12	-
87	<i>Ixora</i> sp.	Rubiaceae	Ixora	9	-
88	<i>Jasminum sambac</i>	Oleaceae	Arabi Jai	6	-
89	<i>Jatropha integerrima</i>	Euphorbiaceae	Ornamental Jatropha	3	-
90	<i>Jatropha podagrica</i>	Euphorbiaceae	Jatropha	4	1
91	<i>Juniperus procera</i>	Rubiaceae	Junifar	26	
92	<i>Justicia procumbens</i>	Acanthaceae	Karambal	8	-
93	<i>Lantana camara</i>	Verbenaceae	Ghaneri	9	9
94	<i>Lantana</i> sp. ornamental	Verbenaceae	Ghaneri	7	9
95	<i>Lagerstroemia speciosa</i>	Lythraceae	<i>Pride of India & Maharashtra</i>	1	-
96	<i>Lagerstroemia</i> sp. ornamental	Lythraceae	Ice-cream flower	2	-
97	<i>Leucaena leucocephala</i>	Fabaceae	Subabul	2	8
98	<i>Limonia acidissima</i>	Rutaceae	Kavath	9	
99	<i>Malachra capitata</i>	Malvaceae	Vilayati Bhendi	31	-
100	<i>Mimusops elengi</i>	Sapotaceae	Bakul	1	-
101	<i>Mangifera indica</i>	Anacardiaceae	Aamba	3	2
102	<i>Mentha piperita</i>	Lamiaceae	Pudina	29	-

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103	<i>Millettia pinnata</i>	Fabaceae	Karanj	30	5
104	<i>Millingtonia hortensis</i>	Bignoniaceae	Veni	10	-
105	<i>Morus alba</i>	Moraceae	Sahtut	1	
106	<i>Moringa oleifera</i>	Moringaceae	Mungna	1	-
107	<i>Mukia maderaspatana</i>	Cucurbitaceae	Ghugri	14	-
108	<i>Murraya exotica</i>	Rutaceae	Murraya	1	-
109	<i>Nerium oleander</i>	Apocynaceae	Kaner	63	-
110	<i>Neolamarckia cadamba</i>	Rubiaceae	Kadamb	21	-
111	<i>Nyctanthes arbor-tristis</i>	Oleaceae	Ratrani	3	-
112	<i>Ocimum tenuiflorum</i>	Lamiaceae	Tulsi	8	-
113	<i>Parthenium hysterophorus</i>	Asteraceae	Gajar gawat	many	-
114	<i>Peltophorum pterocarpum</i>	Fabaceae	tamrashimbi	2	2
115	<i>Pergularia daemia</i>	Asclepiadaceae	Utranwel	21	3
116	<i>Phoenix sylvestris</i>	Arecaceae	Shindi	5	-
117	<i>Phoenix sp.1</i>	Arecaceae	Shindi	6	-
118	<i>Phoenix sp.2</i>	Arecaceae	Shindi	9	-
119	<i>Phyllanthus emblica</i>	Phyllanthaceae	Aamla	-	1
120	<i>Physalis angulata</i>	Solanaceae	Phophundi	54	-
121	<i>Plumeria rubra</i>	Apocynaceae	Chafa	156	-
122	<i>Plumeria alba</i>	Apocynaceae	Chafa	13	
123	<i>Pithecellobium dulce</i>	Fabaceae	Chichbilai	5	3

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124	<i>Pittosporum tobira</i> (variegated)	Pittosporaceae	Cheesewood	3	-
125	<i>Phyllostachys aurea</i>	Poaceae	Golden bamboo	2	-
126	<i>Phyllanthus emblica</i>	Phyllanthaceae	Awla	2	-
127	<i>Phyllanthus virgatus</i>	Phyllanthaceae	Kalaawla	9	-
128	<i>Phyllanthus niruri</i>	Phyllanthaceae	Bhuiawla	34	-
129	<i>Phyllanthus amarus</i>	Phyllanthaceae	Bhuiawla	17	-
130	<i>Polyalthia longifolia</i>	Annonaceae	Ashoka	16	-
131	<i>Portulaca oleracea</i>	Portulacaceae	Ghol	13	-
132	<i>Prosopis juliflora</i>	Mimosaceae	Vilayati shami	50	-
133	<i>Pyrostegia venusta</i>	Bignoniaceae	Sankrantiwel	2	-
134	<i>Pterocarpus marsupium</i>	Fabaceae	Raktachandan Biwla	2	-
135	<i>Pterocarpus santalinus</i>	Fabaceae	Red Sandal	4	-
136	<i>Psidium guajava</i>	Myrtaceae	Jamb	3	-
137	<i>Roystonea regia</i>	Arecaceae	Royal palm	7	-
138	<i>Putranjiva roxburghii</i>	Putranjivaceae	Putranjivi	1	-
139	<i>Rhynchosia minima</i>	Fabaceae	Dhakta	9	-
140	<i>Rosa indica</i>	Rosaceae	Gulab	47	-
141	<i>Santalum album</i>	Santalaceae	Chandan	2	-
142	<i>Sida cordifolia</i>	Malvaceae	Chikna	31	-
143	<i>Sida mysorensis</i>	Malvaceae	Chikna	17	-
144	<i>Sesbania sesban</i>	Fabaceae	Shewarie	5	5

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145	<i>Samanea saman</i>	Fabaceae	Gulabi Shiris	1	-
146	<i>Scoparia dulcis</i>	Plantaginaceae	Bon Dhonya	2	-
147	<i>Spathodea campanulata</i>	Bignoniaceae	Fountain Tree	3	-
148	<i>Spathiphyllum</i> sp.	Araceae	Peace lily	2	-
149	<i>Syzygium cumini</i>	Myrtaceae	Jambul	3	6
150	<i>Syngonium</i> sp.	Araceae	Arrowhead vine	7	-
151	<i>Tabebuia rosea</i>	Bignoniaceae	Gulabi Rani	30	-
152	<i>Tecoma stans</i>	Bignoniaceae	Ghatpuspa	3	-
153	<i>Tecoma capensis</i>	Bignoniaceae	Cape honeysuckle	25	-
154	<i>Tectona grandis</i>	Lamiaceae	Sag	1672	-
155	<i>Tabernaemontana divaricata</i>	Apocynaceae	Swastik	21	-
156	<i>Tabernaemontana</i> sp.	Apocynaceae	Tagar	7	-
157	<i>Tagetes erecta</i>	Asteraceae	Zendu	52	-
158	<i>Tragia involucrata</i>	Euphorbiaceae	Khachkuli	27	26
159	<i>Tamarindus indica</i>	Fabaceae	Chinch	3	-
160	<i>Tephrosia purpurea</i>	Fabaceae	Sarphonk	71	-
161	<i>Terminalia bellirica</i>	Combretaceae	Behda	2	-
162	<i>Terminalia catappa</i>	Combretaceae	Badam	6	-
163	<i>Tinospora cordifolia</i>	Menispermaceae	Gudwel	3	-
164	<i>Tridax procumbens</i>	Asteraceae	Kambarmodi	many	-
165	<i>Vernonia cinerea</i>	Asteraceae	Sahdevi	many	-

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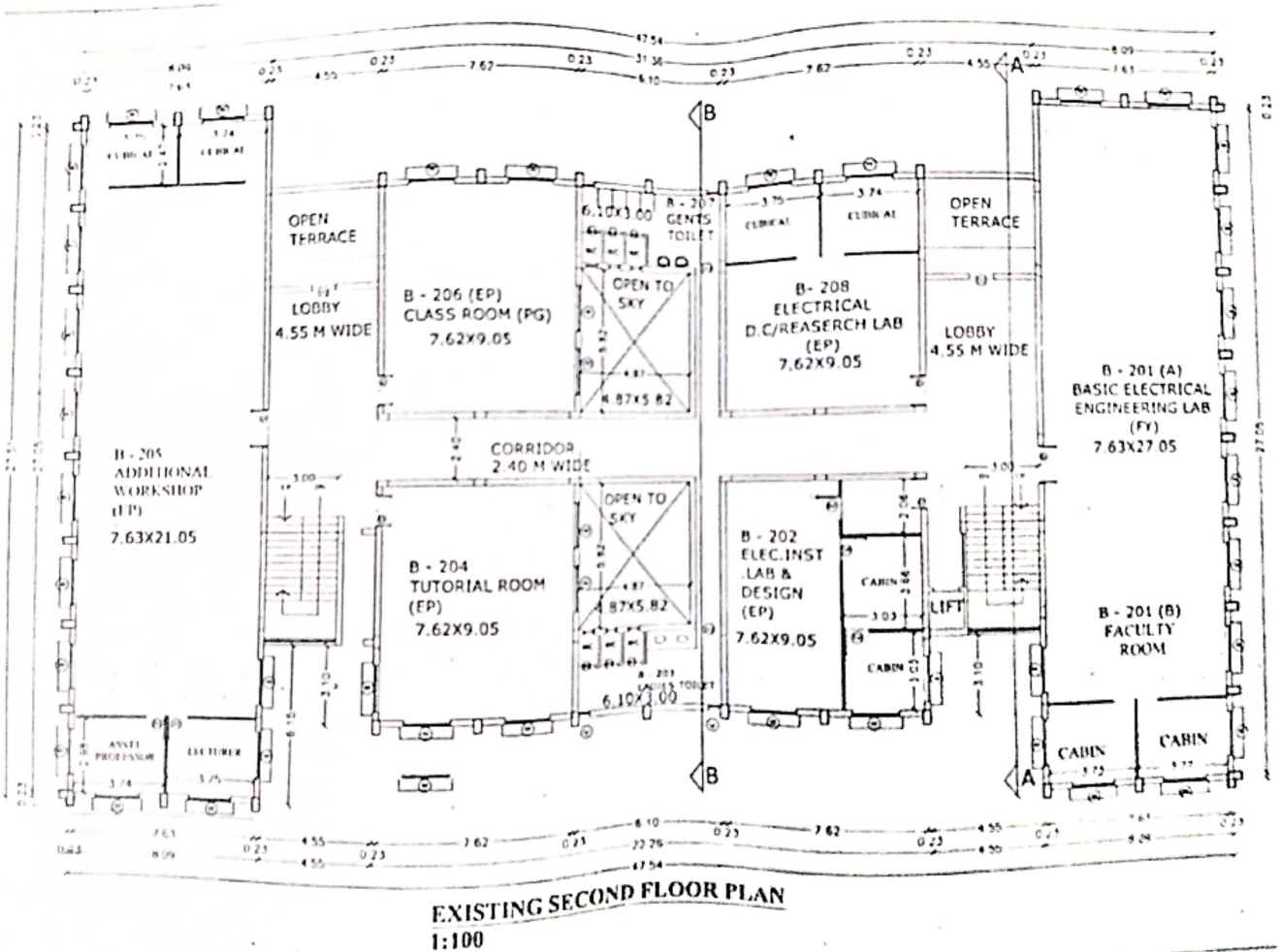
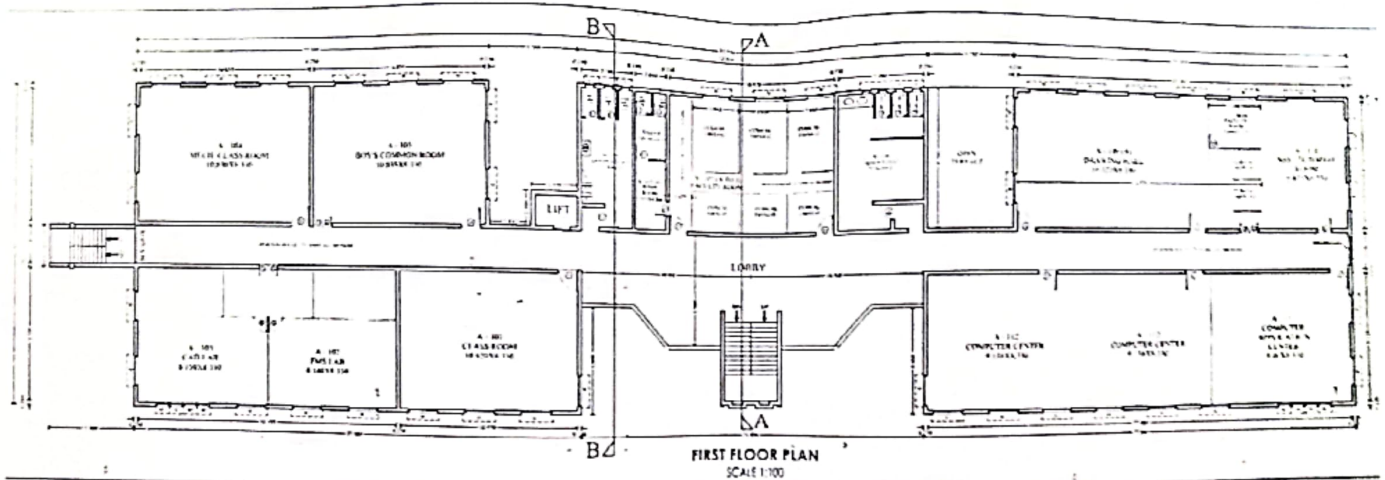
166	<i>Vinca rosea</i>	Apocynaceae	Sadaphuli	3	-
167	<i>Wodyetia bifurcata</i>	Arecaceae	Foxtail palm	4	-
168	<i>Woodfordia fruticosa</i>	Lythraceae	Dhalas	4	-
169	<i>Ziziphus jujuba</i>	Rhamnaceae	Bor	6	-

	ATTRIBUTES	VARIABLES
COLLEGE AREA	CAMPUS AREA	40468.6 Sq.Mt.
	BUILT UP AREA	32894 Sq.Mt.
POPULATION	STUDENTS	2847
	TEACHERS	204
	NON TEACHING STAFFS	80

AUDIT KEY STEPS

Planning completed	August -2020
First Field work completed	September- 2020
Second Field work completed	October -2020
Third Field work and Data compilation	January- 2021
Preliminary report	April- 2021
Draft report completed and sent for office response	August-2021
Office response received	September-2021
Final report (DPR) completed	December -2021

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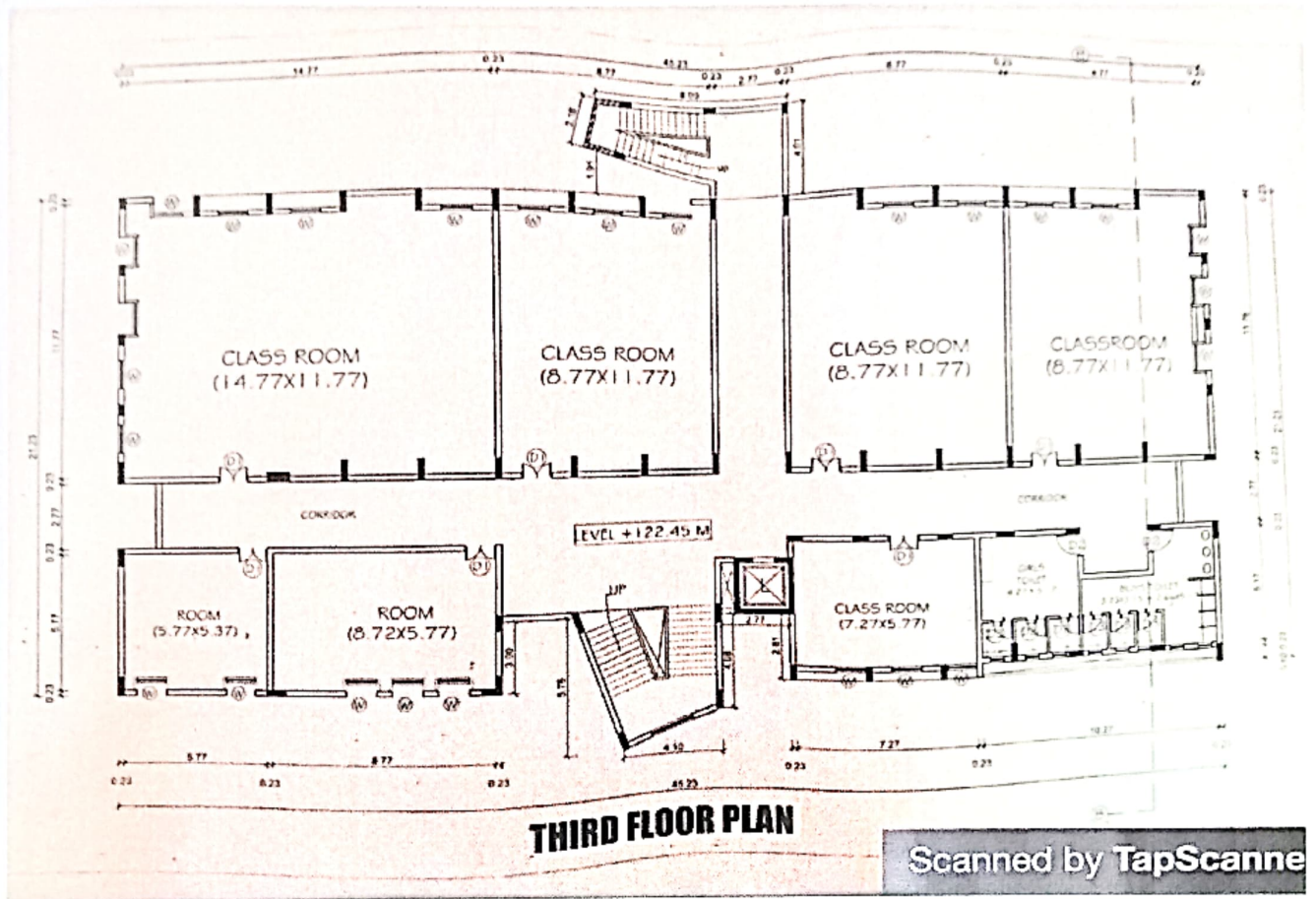


Fig.: Approved Building Plan



**Pictures of Fire Safety Certificate (Ground
/First/Second/Third/ETC)**

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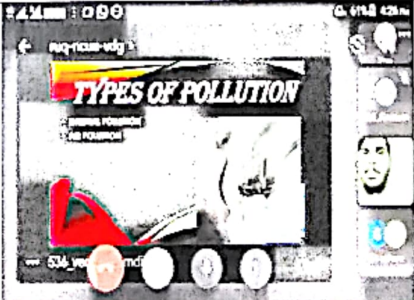
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Pictures of water recharge units, vermicomposting and Solar system units.

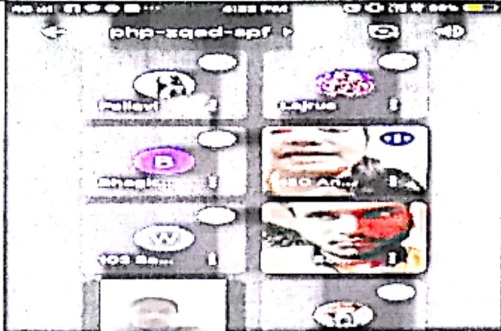


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College Level Green Initiatives / Activities - 2020-21.

Sr. No.	Programs organized	Date	Photos	Remark
1	Tree Plantation	05/07/2020		The Students of the Department with Rotaract Club of PCE planted various trees. Total No of trees planted by Students was 138. This was a small tribute given to the brave souls of the soldiers them so that all the people of our country remember all those brave souls and sacrifice given by them for the Country. From the Department Prof. Harsh Dubey and Student Saloni Bagwani coordinated the event.
2	Tree Plantation	05/06/2021		Event: World Environment Day Date: 05/06/2021 (Online) Participants: More than 20 students and Faculties of Electrical department .
2	Periodic Awareness Programme For Staff, Students And Society For Protecting And Maintaining Environment	05/07/2020		Event:- International Plastic Bag Free Day. No of Students: - 50
3	Environmental Pollution Awareness Programme	10/09/2020		Event:- An open house Debate "No nature ...No future" The students actively participated in the debate competition and this created environmental awareness of keeping surroundings green and clean. No.of participants : 30

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4	Declamation Competition on "Adopt Electric Vehicle to create eco-friendly environment"	10/02/2021		Event: Declamation Competition on "Adopt Electric Vehicle to create eco-friendly environment" Remark: This activity was organized to help students in honing their speaking skills and also make them aware about the various ways to keep the environment eco-friendly. No. Of Students participated : 30
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ACKNOWLEDGEMENTS

The green audit conducted by the **Priyadarshini College of Engineering, Nagpur (PCE)** is an internal audit that aims towards looking after a healthy environment and to take green initiatives to foster the concept of environmental sustainability.

Sincere thanks to Principal, **PCE** and Internal Green Audit Supporting Staff for providing us necessary data, facilities and co-operation during the audit period that helped in making the audit possible.