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PATIALA

Supporting Documents/Additional Information

Title- 7.1.2 and 7.1.3: Green and clean campus initiatives:

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Green Campus Initiatives

Govt. Mohindra College Patiala is one of the oldest institutions in the entire north India. The institution is a living monument of rare magnificence and breath taking grandeur. The focus of the institution is always on making student environment conscious and encouraging them to adopt an eco-friendly life style. This is brought into play by involving them in a number of activities like plantation drive, seminar on cleanliness, Plugging drive, stage play on environment pollution / celebration of earth day etc. Environmental conservation by engaging stakeholders in activities like herbal Holi, anti-cracker Diwali or green Diwali, promotion of medical plants, celebration of important environment days, seminars, rallies, plastic prohibition and environment fest throughout the year. A polyhouse has also been constructed in the institution, where plants are grown with less water and organic environment for better crop production.



1.FLORA OF COLLEGE

Triangular Area (In Front of Science Block)

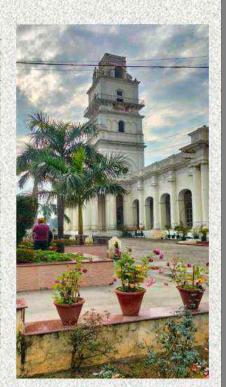
Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	Polyalthia longifolia	False Ashoka	10
2	Roystonea regia	Royal Palm	4
3	Tectona grandis	Teak	5
4	Melia azedarach	Dek/Dharek	3
5	Melaleuca alternifolia	Chinaberry	1
6	Lagerstrowmia	Jrul/Pride of india	2

Parking Area

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	Delonix regia	gulmohar	1
2	Melia Azedarach	Dek/Dhrek	6

In front of Sri Gurudwara Sahib (Square Area)

Sr. No.	Botanical name of the Plant	Common name	No. of Plants
1	Rosa indica	Rose/gulab	27
2	Hibiscus rosa-sinesis	China rose	5
3	Palm tree sp	Teak	1
4	Ficus Sp.	Fig tree	2
5	Jatropha integerima	Ratanjot/fuel plant	6
6	Acalypha indica	Three seeded murcury	1
7	Citrus lemon	Lemon	1





Rain lily "Zephyranthus sulpheurus growing wildly with <u>Rhoeo</u> sp.

Lawn Area (In front of Science block) No. of Plants Sr. No. Botanical name of the Plant Common name False Ashoka Polyalthia longifolia 33 1 2 Ficus benghalensis Fig 1 3 Royal palm Palm tree 16 4 Jasminum sambac Chameli 16 Morpankhi Thuja sp. 29 5 Chukrasia tabularis Redwood 11 6 Grevillea robusta Silver oak 7 8 8 Bauhinia sp. Kachnar 7 Cassia fistula Amaltas 5 9 2 10 Kikar Prosopis sp. 11 Jatropa sp. Ratanjot 16 12 Azadirachta indica 13 Neem 13 Senna occidentalis 5 14 Delonix regia Gulmohar 4 15 Terminalia arjuna Arjun 3 16 Terminalia chebula Harad 2 Tecoma 17 Tecoma stans 5 18 Melia azedarch Dek 3 19 Mimosa elengi Moulsari 1 Kadi Patta 20 Murraya kenigii 52 21 Citrus sinesis Mosambi 9 Phenix dactylifera 22 10 Khajur 23 Morus alba Sehtut 3 24 Ficus rotundus Fig 1 25 Pongamia pinnata Sukhchain 2 26 Punica grantum Anar 2 27 Silver oak Grevillea robusta 1 Casuarina equisetifolia 28 Coastal she-Oak 5 29 Aegle marmelos Bael/patar bil 8



1. Flowering of <u>Prunus</u> persica



	Name of the Plant	Common Name	No. of the Plant
	Rosa indica	Rose	42
2	Ficus rotundus	Fig	9
3	Elaeocarpus angustifolius	Rudraksh	1
4	Emblica officinalis	Anwala	5
5	Ficus panda	fig	3
6	Bombax ceiba	Simbal	2
7	Punica granatum	Anar	1
8	Chukrasia tubularis	1	. 5
9	Morus alba	Sehtut	1
10	Eucalyptus sp.	Safedha	6
11	Euphorbia sp.	Caller State	8
12	Terminalia arjuna	arjunn	1
13	Roystonea regia	Royal palm	1)
14	Lawsonia inermis	mehandi	2

sohanjna

Ghumar

Sukhchain

Dek

Har-

shingar

Rhoeo

Su-babool



Flowering on Alstonia scholaris



Backside of Science Block (Rose Garden)

Moringa oleifera

Melia azedarch

Pongamia pinnata

Tradescantia sp

Diffenbachia sp

Aegel marmelos

Svzygium cumni

Rhoea sp.

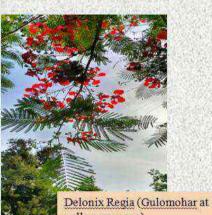
Nvcrtanthus arborum

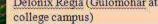
Leucaena leucocephala

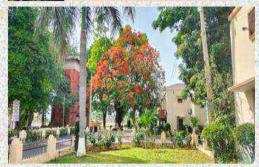
Aloe vera

Sr. No.

Sr.	Name of the Plant	Common name	No. of
No			Plants
1	Alstonia scholaris	satona	6
2	Polyalthea longifolia	False ashoka	13
3	Phoenix dactylophora	Khajoor May	12
4	Bauhinia perpurea	Kachnaar	3
5	Rosa indica	Rose	80
6	Ficus panda	and the second secon	7
7	Cycas revoluta	Kanghi-palm	4
8	Thuja sp	Morpankhi	8
9	Cassia fistula	Amaltas	4
10	Callistemon sp	bottle Brush	2
11	Delonix regia	Gulmohar	1
12	Plumeria sp.	Frangipani/champa/gulc	1
		hin	
13	Melia azedarach	Dek	2
14	Mangifera indica	Aamb	1
15	Cassia fistula	Amaltas	1
16	Grevillea robusta	Silver oak	6
17	Ficus relegiosa	Peepal	2
18	Morus alba	sehtut	2









6

In front of Principal office

	Sr. No.	Name of the Plant	Common name	Number of the plant
것관	1	Rosa indica	Rose	15
100	2	Ficus panda	fig	5
	3	Duranta repens	Golden duranta	Numerous
	4	Tabernamontana divericata	<u>Chandani</u>	14
25	5	Roystonea regia	Royal palm	10



Flowering on Tabernaemontana divaricata

Basketball court Ground

	Name of the Plant	Common	Number of Plants
1	Albizia labbeck	Sarin	3
2	Dalbergia sissoo	Tahli/ Sheesham	3
3	Ficus bengalensis	Fig/bohad/banyan tree	1
4	Ficus religiosa	Peepal/ fig	1.000.000.000.000

Sports Ground

	Name of the Plant	Common	Number of plant
1	Terminalia arjuna	Anun	6
2	Bauhinia varigata	Kachnar	1
3	Albizia labbeck	Sarin	2
4	Azadiractus indica	Neem	1
5	Bombax ceiba	Simbal	2



Flowering on Mimosopus elengi

Botanical Garden Plant list



Plumeria rubra infront of campus library



Calotropis procera infront of Sri Guruduwara Sahib, campus

Sr. No.	Name of the plants	Common name and Families	Number of the plants
1	Dracaena fragrance	Complant Asparagaceae	8
2	Cassia fistula	Amaltaas Fabaceae	2
3	Ficus glomeratus	Gullar Moraceae	2
4	Ficus religiosa	PeepalMoraceae	1. 1
5	Ficus benealensis	Bohad Moraceae	1
6	Maleleuca bracteata	Golden bottle brush Myrtaceae	2
7	Eleocarpus angustifolius	Rudrakash Eleocarpaceae	3
8	Terminalia ariuna	Arjuna Combretaceae	1
9	Terminalia belerica	Beheda Combretaceae	2
10	Terminalia chebula	Harad Combretaceae	2
11	Mangiefiera indica	Amb Anacardiaceae	2
12	Mimusops elengi	Moulsari Sapotaceae	3
13	Chukrasta velutina	Mahogany Meliaceae	2
14	Litchi chinesis	Lichi Sapindaceae	4
15	Pinusroxburghii	Cheel Pinaceae (Gymnosperm)	2
16	Manilkara zapota	Chiku Sapootaceae	2
17	Phyllanthus emblica	Aanwla Euphorbiaceae	3
18	Hibiscus rosa-sinesis	China rose Malvaceae	4
19	Cycas revoluta	Kanchi paam Cycadaceae (Gymnosperm)	4
20	Dalbergia sissoo	Tahli Fabaceac	2
21	Eucalyptus globulus	safedha Myrtaceae	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
23	Vernoia amydgyalina	Asteraceae	3
24	Lawsonia inermis	Mehandi Lythraceae	2
25	Syrygiumcumin	Jamun Myrtaceae	2
26	Nyctanthus arbor-tristis	Har-Shingar oleaceae	1
27	Albizia lebbeck	Sanin Fabaceae	2
28	Punica granatum	Anar Lythraceae	1
29	Elettaria cardamom	Elaichi Lythraceae	1
30	Nerium oleander	Kaner Apocynaceae	2
31	Cymbopogon schoenanthus	Lemmon grass Poaceae	2
32	Bauhinia variegata	Kachnar Fabaceae	2
33	Thuja occidentalis	Mor-pankhi Cupressaceae	5
34	Cinnamomum camphora	Kapur Lauraceae	2
35	Citrus sp.	Narangi Rutaceae	2
36	Psidiumguajava	Amrood Mystaceae	1 1000
37	Melia azedarach	Dharek Mehaceae	1
38	Kalanchoe orygyalis	Planning katy Crassulaceae	5
39	Oscimum sanctum	Tulsi Lamiaceae	6
40	Bryophyllum pinnata	Pathar-chat Crassulaceae	3

Botanical Garden

Sr. No.	Scientific Name	Common name	No. of plants
41	Syngonium podophyllum	Arrowhead plant Areceae	Phone Phone States
42	Tridescantia pallid	Spiderwort Commelinaceae	-
43	Coleus scutellarioide	Coleus Lamiaceae	-
44	Dieffenbachia amoena	Dumbcane Areceae	
45	Cordyline fruticosa	Palm lily Asparagaceae	in the state of t
46	Bryophylum sp	Pathar chat Crassu	
47	Tactona grandis	teak plant	
48	Araucaria araucana	Christmas tree	2
49	Prunus persica	Peach Rosaceae	2
50	Alstonia scholaris	Satona Apocynaceae	3 1



Melaleuca sp. & Prunus persica at botanical garden



Botanical Garden



2. Birds Visiting college campus

Sr. no.	Common names	Scientific names	Campus
1	Black Kite	Milvus lineatus	Campus
2	Shikra	Accipiter badius	Campus
3	Oriental Honey Buzzard	Pernis ptilorhynchus	Campus
4	Black-winged Stilt	Himantopus himantopus	Campus
5	Rock Pigeon	Columba livia	Campus
6	Spotted Dove	Streptopelia chinensis	Campus
7	Yellow Footed Green Pigeon	Treron phoenicoptera	Campus
8	Eurasian Hoopoe	<i>Uрира ерор</i> з	Campus
9	Asian Koel	Eudynamys scolopacea	Campus
10	Greater Coucal	Centropus sinensis	Campus
11	Grey Francolin	Francolimis pondicertamis	Campus
12	Indian Peafow1	Pavo cristatus	Campus
13	Common Moorhen	Gallimila chloropus	Campus
14	White-Breasted Waterhen	Amauromis phoenicurus	Campus
15	Ashy Prinia	Prinia socialis	Campus
16	Black Drongo	Dicrurus macrocercus	Campus
17	Black Redstart	Phoenicurus ochruros	Campus
18	Brahminy Myna	Sturnus pagodarum	Campus
19	Common Myna	Acridotheres tristis	Campus
20	House Crow	Corvus splendens	Campus
21	Indian Robin	Saxicoloides fidicata	Campus
22	Indian Silverbill	Lonchura malabarica	Campus
23	Jungle Babbler	Turdoides striatus	Campus
24	Oriental Magpie Robin	Copsychus saularis	Campus
25	Plain Prinia	Prima inornata	Campus
26	Purple Sunbird	Nectarinia asiatica	Campus
27	Indian Treepie	Dondrocitta vagabunda	Campus
28	Sind Sparrow	Passer pyrrhonotus	Campus
29	Tailor Bird	Orthotomus sutorius	Campus
30	Cattle Egret	Bubulcus ibis	Campus
31	Indian Pond Heron	Ardeola gravii	Campus



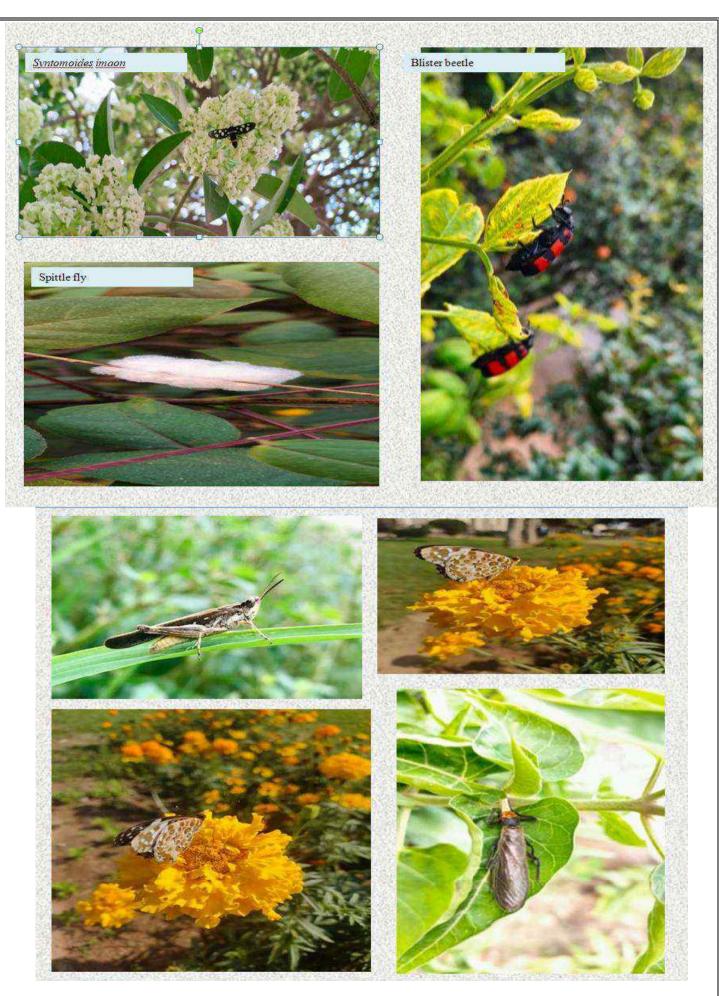


Birds Visiting college campus

Sr. <mark>N</mark> o.	Common name	Scientific name	Area
32	Brown Headed Barbet	Megalaima zeylanica	Campus
33	Coppersmith Barbet	Megalaima haemacephala	Campus
34	Lesser Golden Backed Woodpecker	Dinopium benghalense	Campus
35	Rose Ringed Parakeet	Psittacula krameri	Campus
36	Spotted Owlet	Athene brama	Campus
37	Red-wattled Lapwing	Vanellus indicus	Campus
38	Red breasted flycatcher	Ficedula parva	Campus
39	White Wagtail	Motacilla alba	Campus
40	White browed wagtail	Motacilla maderaspatensis	Campus
41	Greenish warbler	Phylloscopus trochiloides	Campus
42	Indian Grey Hornbill	Ocyceros birostris	Campus
43	Red-vented Bulbui	Pycnonotus cafer	Campus
44	Eurasian Thick-Knee	Burhimus oedicnemus	Campus
45	Brown Rock-Chat	Cercomela fusca	Campus
46	Long Tail Shrike	Lannus schach	Campus







Two Examples of proto-cooperation at campus between Two species is the indicator of sound ecosystem



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1. Tree hoppers and Formica <u>rufa</u> in symbiotic Association on plant *Cassia fistula* 2 Termite house covered with <u>Termitomyces</u> fungus



The flora and fauna of Government Mohindra College, Patiala are highly diversified and rich as evidenced from the available types of plants (near about 89 genus and more than 100 species) and birds (near about 40 species) along with insects and reptiles. It not only complements its architectural beauty but serve as important academic resource for its various academic programmes. 1. Botanical Garden; Construction of Medicinal Plants Section & Aquatic plant section.



2. Naming of the plants at Botanical Garden for Students Knowledge and Awareness



3. Earth Day celebration by Department of Botany , 22.04.22



Events organised

- POSTER MAKING COMPETITION
- RANGOLI COMPETITION
- EXTEMPORE SPEECH COMPETITION
- GUEST LECTURE BY DR. RAJEEV SHARMA ON TOPIC- SINGLE USE PLASTIC

April 22, 2022

POSTER MAKING COMPETITION





RANGOLI MAKING COMPETITION



SPECIAL LECTURE BY Dr. RAJEEV SHARMA

(HEAD,CHEMISTRY, MULTANI MODI COLLEGE, PATIALA)



Lecture on- Single Use Plastic (Prof Rajiv Sharma, Chemistry, MM Modi College, Patiala) (22/4/2022)

PLANT DISTRIBUTION





EXTEMPORE SPEECH COMPETITION









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4. Guest lecture on Tree Risk Management by Prof. Manish Kapoor on the occasion of World Science Day (9.11.2022)



Field visit with Prof. Manish Kapoor for Assessing under tree Risk



5. Earth Day, 2023



Organized a rally on Environment Education programme by Department of Botany



Tree Distribution and plantation on Earth Day, 2023

6. Guest Lecture on Earth Day, 2023 By Prof Avneet Pal Singh, Dept. of Botany, Punjabi University.



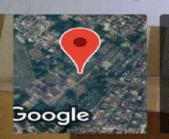


सवैरा न्यूज / धीर, पटियाला : सरकारी महिंदा कॉलेज पटियाला के बॉटनी विभाग द्वारा इंटरनल क्वालिटी एश्योरेंस सेल के सहयोग से 24 और 25 अप्रैल को दो दिवसीय पृथ्वी दिवस मनाया गया। पहले दिन विभाग की ओर से पेपर वाचन प्रतियोगिता व स्लोगन प्रतियोगिता का आयोजन किया तथा दूसरे दिन कॉलेज के बाहर सामने बाजार में जागरूकता रैली निकाली गई. जिसके क्रम में विभाग के प्रोफेसर अवनीत पाल सिंह ने भाग लिया। वनस्पति विज्ञान, पंजाबी विश्वविद्यालय, पटियाला द्वारा दैनिक जीवन में आनाज विथ पर विशेष व्याख्यान दिया गया। यह दो दिवसीय कार्यक्रम प्राचार्य अमरजीत सिंह के नेतृत्व में हुआ। इस मौके पर प्रि. अमरजीत सिंह के नेतृत्व में पीधे लगाए गए और विद्यार्थियों को पीधे भी बांटे गए। इस दौरान प्रो ओढिका बेरी, प्रो. रोमी गर्ग, प्रो. जितेन्द्र जैन, प्रो. सुनीत गुप्ता, प्रो. रचना भारद्वाज, प्रो. स्वीदर रेखी, प्रो. लखविंदर कौर, प्रो. हरप्रीत सिंह, प्रो. योद्धा सिंह, प्रो. शालू, प्रो. सोहल, प्रो. हरविंदर कौर, प्रो. नवनीत कौर, प्रो. तरणप्रीत कौर व प्रो. ज्योति सैनी कौर शामिल हुई।



- TATATA

🛯 GPS Map Camera



Patiala, Punjab, India govt mohindra college , Narula Colony, Keshar Bagh, Patiala, Punjab 147001, India govt Lat 30.314947° Long 76.397792° 25/04/23 01:08 PM GMT +05:30

7. Tree Plantation by OLD STUDENTS ASSOSSIATION on the occasion of 148th Foundation Day. 30.03.2023



8. Guest Lecture on Environment Day by Prof. RS Ghumman (Prof. eminence, GNDU, Amritsar)



Tree Plantation by Prof RS Ghumman on the occasion of Environment Day

Balance economic development goals with environmental sustainability: Prof Ghuman

TRIBUNE NEWS SERVICE

PATIALA, MAY 31

The department of public administration and the internal quality assurance cell of Government Mohindra College, Patiala, in collaboration with Punjab Pollution Control Board (PPCB) organised a series of academic events to celebrate World Environment Day 2022. The United Nations Environment Programme (UNEP) has declared to celebrate this vear's environment day under the campaign slogan of "Only One Earth" with a focus on "Living Sustainably Harmony with Nature". e events—slogan writing, The eventsposter making, awareness rally by students and semiwere based on the cam-Dierpaign slogan and the focus area. The celebrations took place under the patronage of Principal Simrat Kaur and engineer environmental Navtesh Singla of the PPCB.



Government Mohindra College organises an event to celebrate World Environment Day on Tuesday, TRIBUNE PHOTO, RAJESH SACHAR

The poster making and slogan writing competitions were held to make the students aware about the environmental concerns in which hundreds of students participated. Meanwhile, an awareness rally was organised by the students in the city in which the students sensitised citites about environmental challenges. The rally was followed by a half-day seminar on "Challenges to Environmental Sustainability in Punjab: A Way Forward". Guru Nanak Dev University's Prof of Eminence RS Ghuman delivered the keynote address

while introducing the theme of the seminar, Dr Mohammad Sohail, head, department of public administration, dwelled upon the history of policy efforts by the national and internal organisations such as UN, OECD to make human-environment interface more cordial.

During the keynote address, Prof Ghuman opined that developmental targets and environmental health were not antagonistic to each other and the policy makers must develop complimentary relation between the two. Prof Ghuman at length deliberated on issues of environmental sustainability Punjab and its negative effects on natural resources such as water, air and soil. He further expressed that the agriculture had been hit hard by the climate change in the recent times. Dr Simrat Kaur, Principal,

Dr Simrat Kaur, Principal, Government Mohindra College, Patiala, congratulated the department of public administration and Pollution Control Board for organising events to mark the World Environment Day.

19

9. Stage Play by NSS Volunteers on the occasion of Earth Day celebration by Department of Botany , 22.04.22



A Play "Mujhe Bachao" was played by NSS Volunteers on" THE EARTH DAY". This play was prepared and directed by Prof. Meenakshi, head, department of Computer Science held on 22-04-2022.



Tree Plantation by the teachers in the College Campus



Tree Plantation by the Students in the College Campus

21

World Environment Day celebrated (10-6-2021)

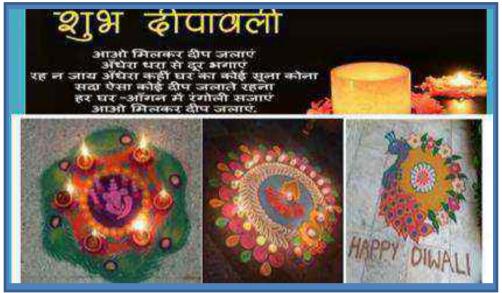
On the occasion of World Environment Day, a Webinar was organised by Mohindra Geographical Society and P.G. Department of Geography. Dr. Charanjit Singh, Deputy Director (Retd.), Punjab Pollution Control Board was the guest speaker. Dr. Simrat Kaur appreciated the efforts of the society.



Organized a Webinar on the Occasion of World Environment Day



Ploughing Drive by NCC Cadre



Anti – Cracker Diwali



Ban of Plastic Use to maintain Green and Clean Campus



Rally on World bicycle Day



ਵਾਤਾਵਰਣ ਚੇਤਨਾ ਰੈਲੀ ' ਵਿਚ ਭਾਗ ਲੈਂਦੇ ਐਨ.ਐਸ.ਐਸ. ਦੇ ਵਲੰਟੀਅਰ

NSS volunteer organized Environment Awareness Rally



Polythene free campus



🞑 GPS Map Camera

Patiala, Punjab, India 898W+6J3, Lower Mall, Patiala, Punjab 147001, India Lat 30.316082° Long 76.396245° 25/01/23 11:22 AM GMT +05:30

Playhouse at campus



Plantation Drive