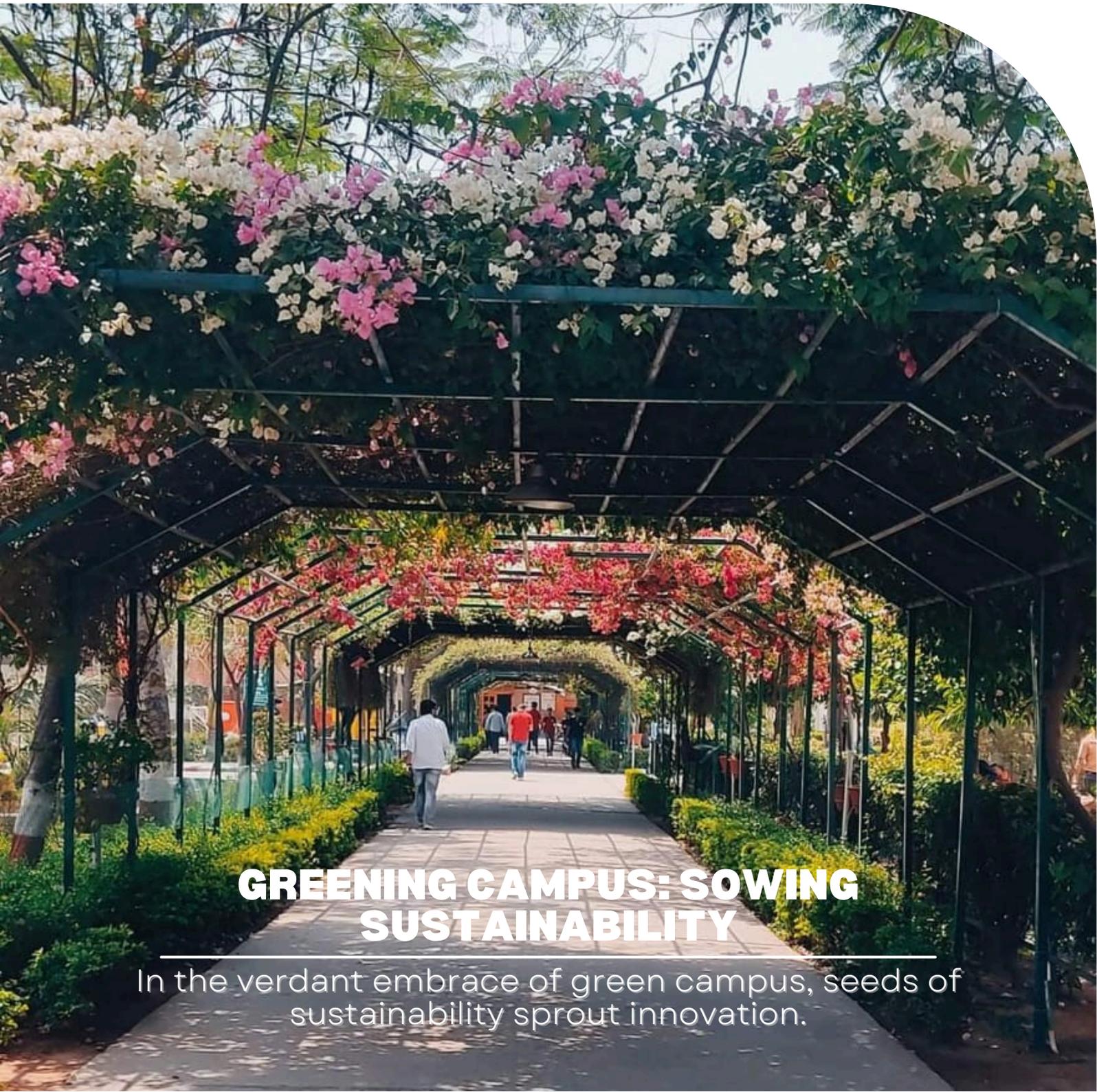


CHITKARA
UNIVERSITY



STRIKING THE GREEN CHORD

A REPORT JULY 2023 - JUNE 2024



GREENING CAMPUS: SOWING SUSTAINABILITY

In the verdant embrace of green campus, seeds of sustainability sprout innovation.

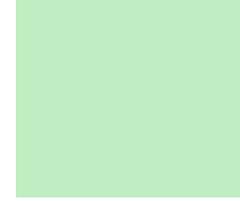
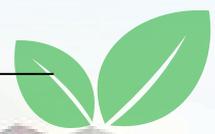
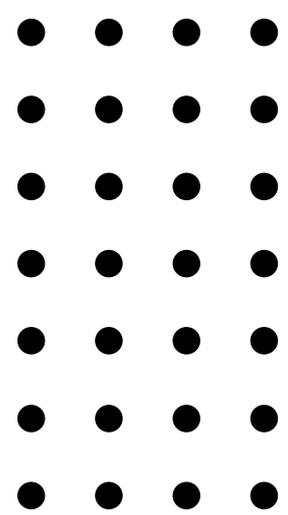


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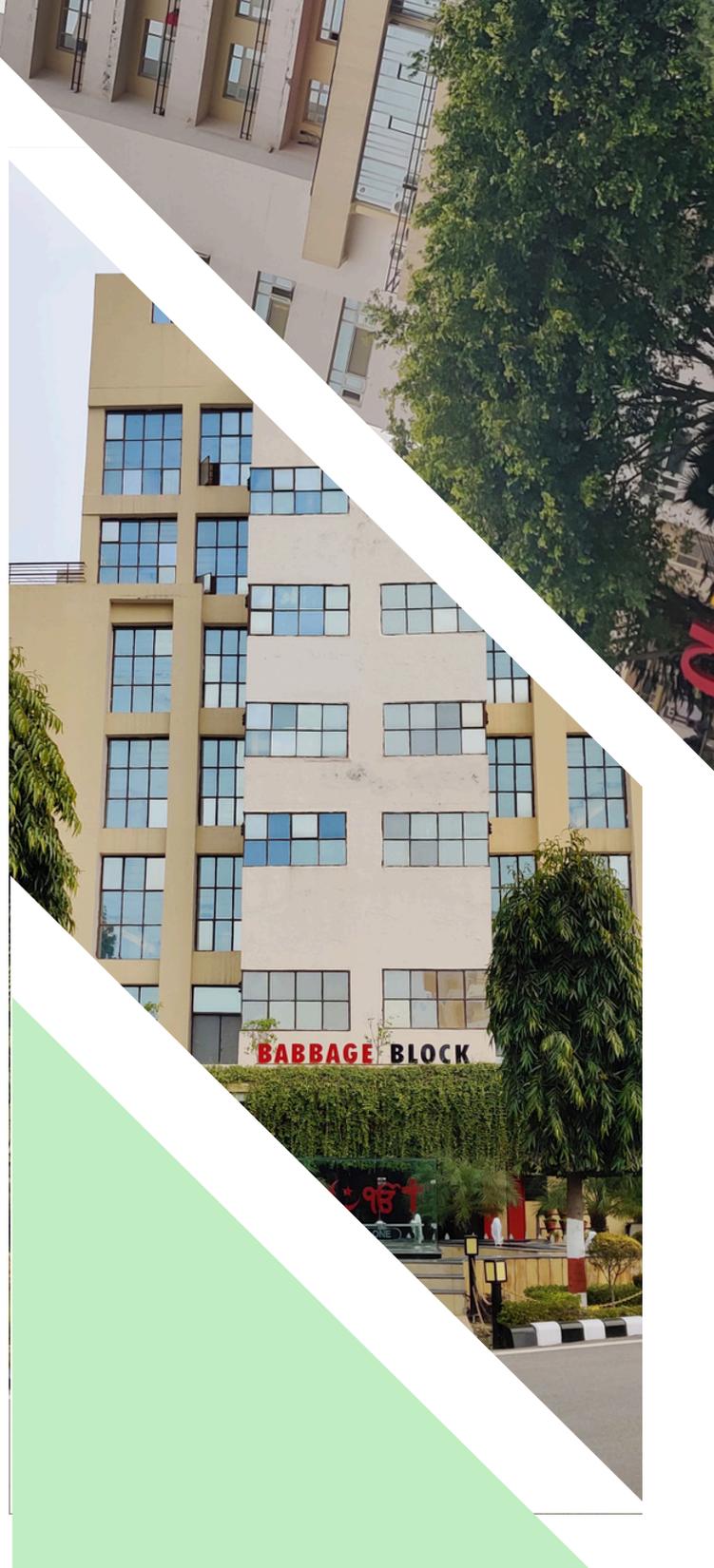


DO WE NEED TREES?

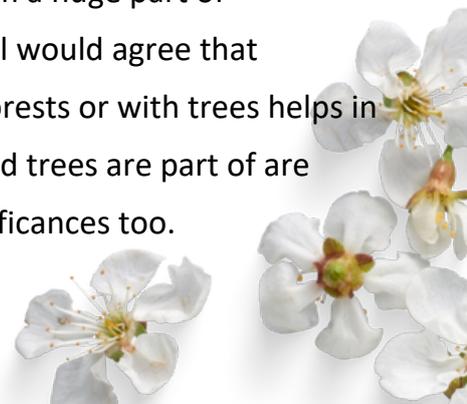
Yes of course we do! We may think we know it all; but do we really do?

There's so much that trees do for us, like:

- They purify air and combat climate change,
- House to millions of species that protect us from diseases,
- Cool our streets and cities,
- Help against soil erosion,
- Tree roots absorb excess moisture, preventing water runoff and flooding,
- Fallen leaves and branches contribute to nutrient cycling by recycling organic matter,
- Forests provide jobs to millions of people globally.



Trees also add to the aesthetic beauty of our grounds, societies, cities, streets, and backyards, and form a huge part of landscaping. You all would agree that spending time in forests or with trees helps in stress reduction and trees are part of are many cultural significances too.





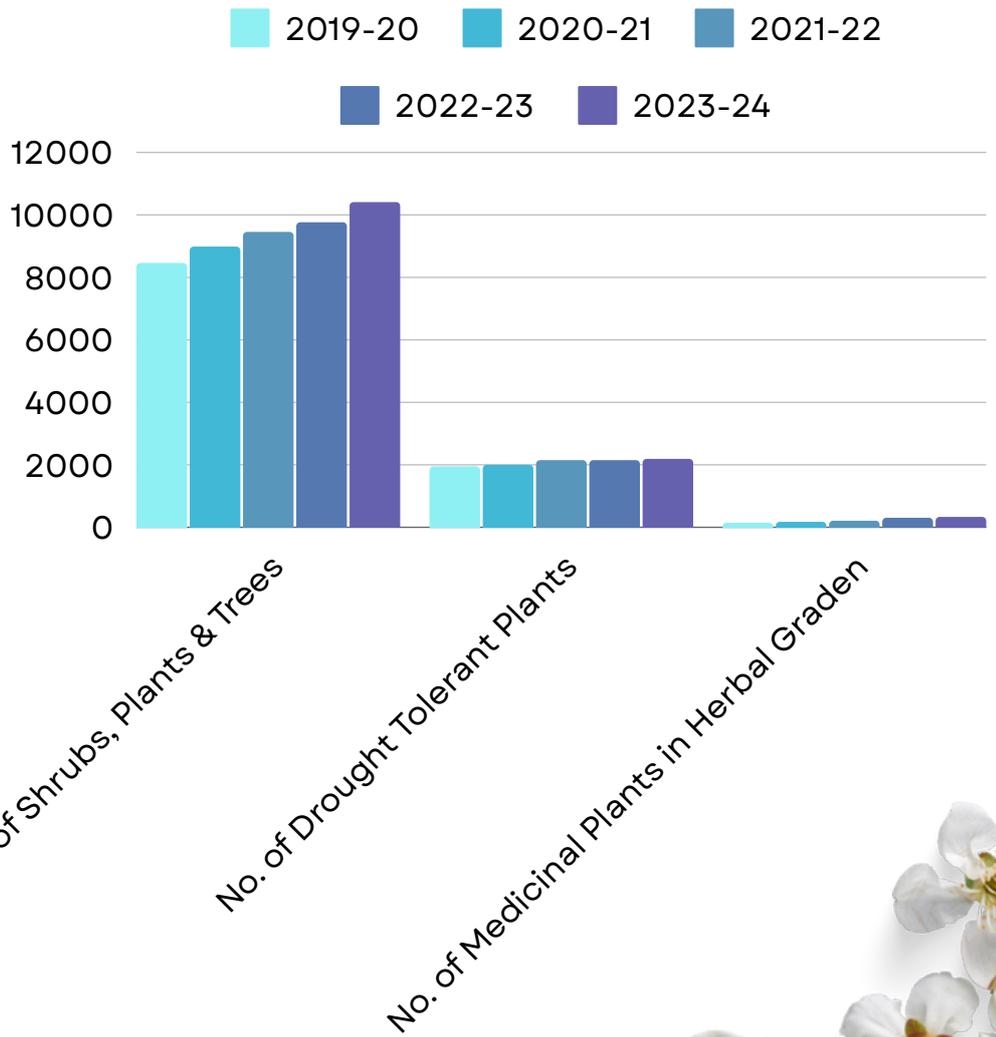
GREENERY @ CHITKARA UNIVERSITY

A conscious effort to maintain one-third of the campus area towards greenery has always been made by Chitkara University. With almost 9800 trees and plants, in five grounds, 67 gardens, and an area spread over 21 acres of land for greenery, the University endeavors to keep greenery one its topmost priorities.



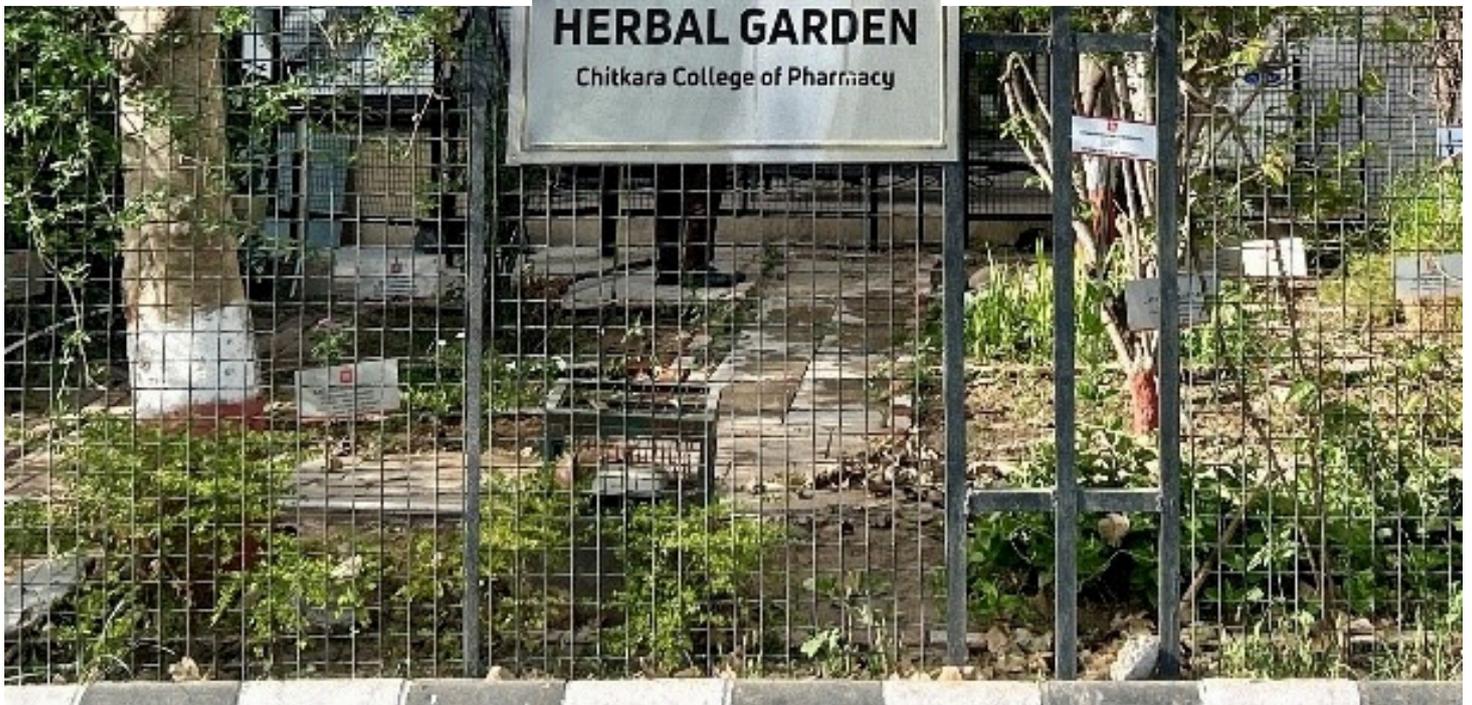


Our GREEN warriors go the extra mile to make the gardens and grounds beautiful with not only the greenery and the colorful flowers, but also with teeny-weeny art works, making the venues even more attractive. The aim is to make the gardens vibrant, so students enjoy being there and staying close to nature



DATA:





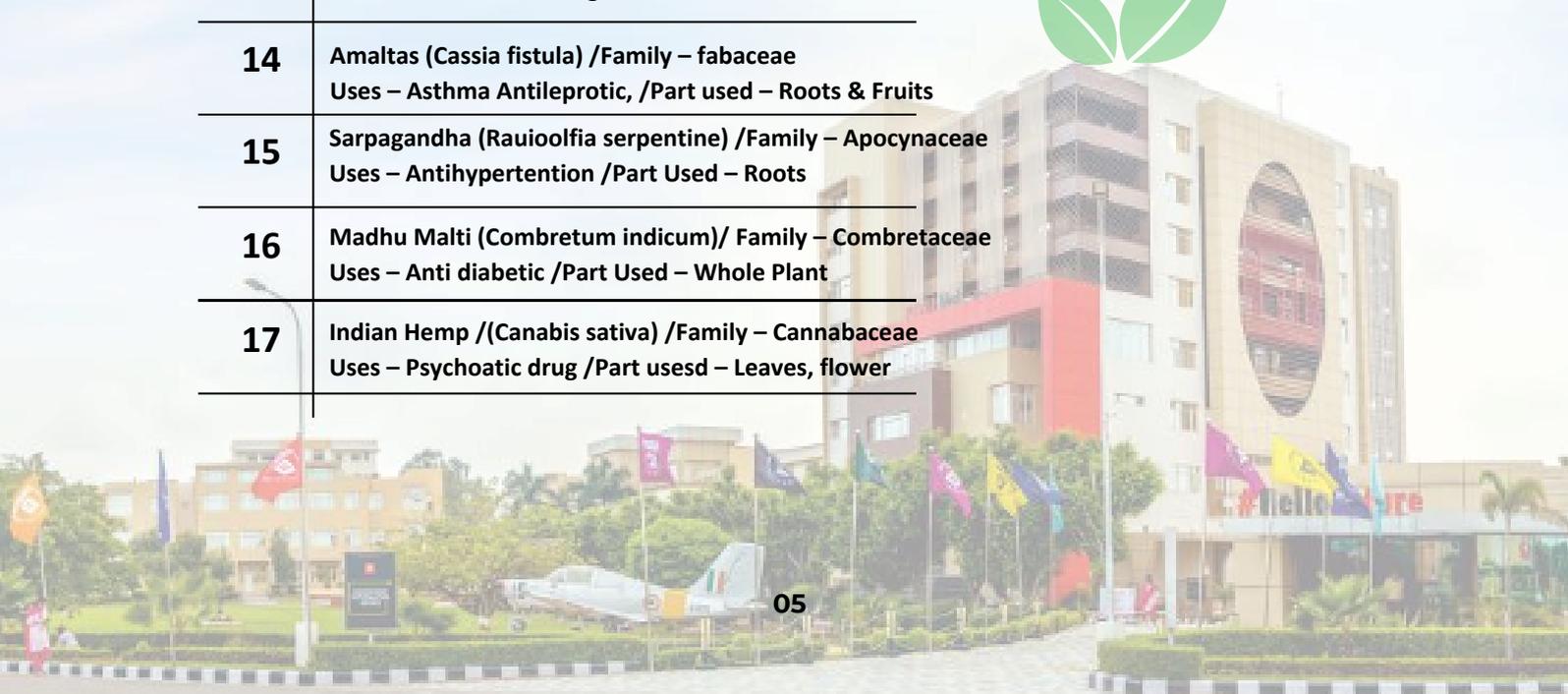
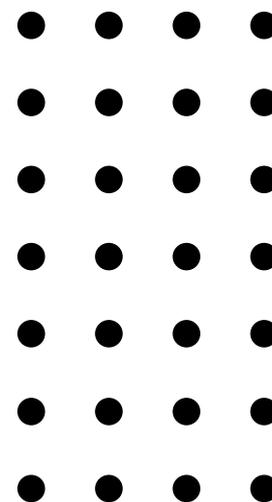
HERBAL GARDEN





THE MEDICINAL TREES IN OUR HERBAL GARDEN INCLUDE:

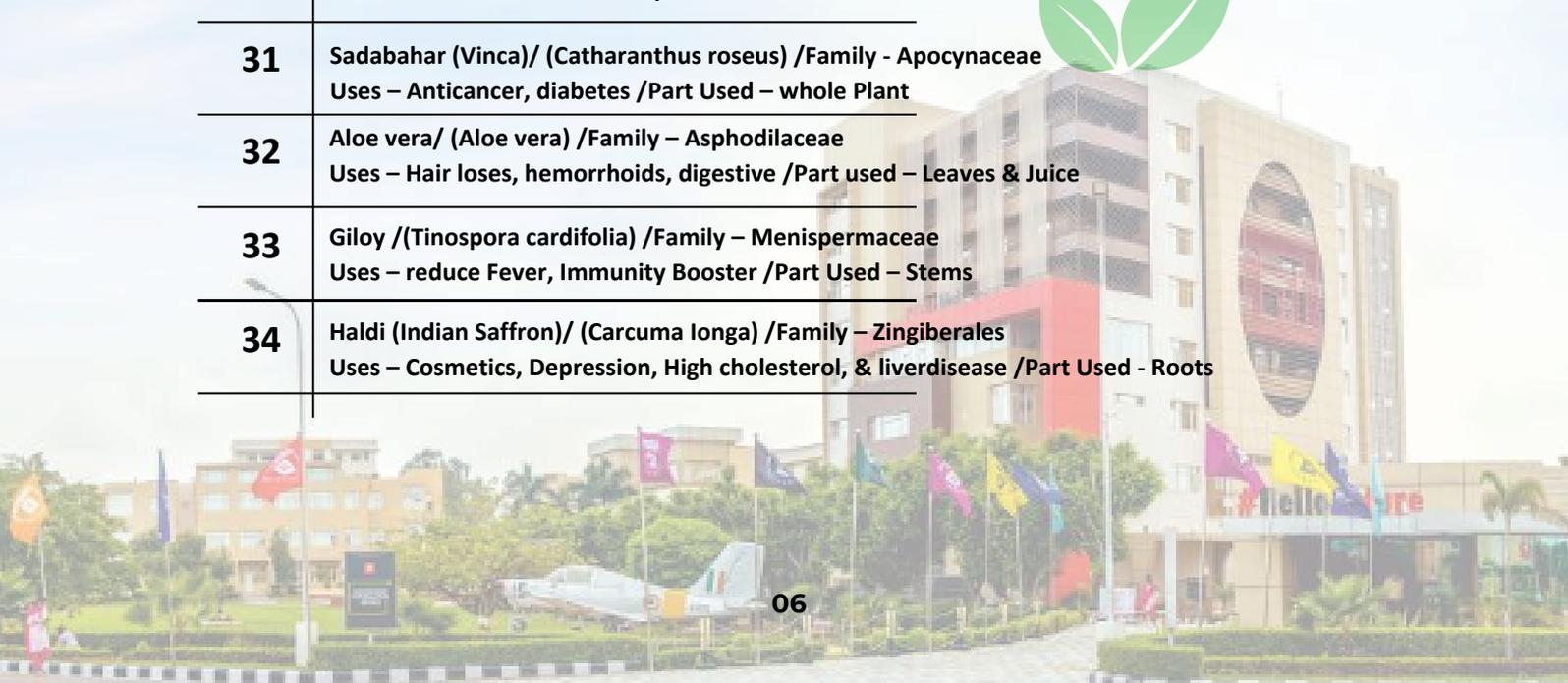
01	Safed Musali (<i>Chlorophytum borivilianum</i>) /Family - Asparagaceae Uses – Arthritis, Diabetes, Boosting vitality, Part Used - Root
02	Har – shrigar (Parijat) (<i>Nyctanthes arbor-tristis</i>) /Family – Oleaceae Uses – Sciatica, Arthritis & Fever / Part Used – Leaves & Flower
03	Jatropha (<i>Jatropha Integerrima</i>) /Family – Euphorbiaceae Uses – Skin, Cancer & Digestive system /Part Used - Seeds
04	Cardamom (Elaichi) (<i>Elettaria cardamomum</i>) /Family – Zingiberaceae Uses – Aromatic /Part Used – Fruit & Fruit seed
05	Indian bail (Bel Patra plant) (<i>Aegle Marmelos</i>) /Family – Rutaceae Uses – Traditional medicine / Part Used – Leaves, roots, fruits, & seed
06	Chandni (Crape Jasmine) (<i>Tabernaemonta divaricata</i>) / Family – Apocynaceae / Uses – Cough, inflammation prevents. /Part Used – Leaves & flower
07	Honey Suckle (Honey suckles) /Family – Carpifoliaceae Uses – Urinary disorder, headache, diabetes / Part Used – Seed, Flower & leaves
08	Spearmint (<i>Mentha spicata</i>) /Family – lamiaceae Uses – Aromatic Oil /Part Used – Leaves
09	Datura (<i>Datura Stramonium</i>) /Family – Solanaceae / Uses – Stomach & intestinal pain /Part Used – Seed
10	Peppermint (<i>Mentha piperita</i>) /Family lamiaceae Uses - Aromatic oil & carminative /Part Used – Aerial parts
11	Brahmi (<i>Bacopa monnieri</i>) /Family – Plantaginaceae Uses – Neurological tonic /Part Used – Plants
12	Black Aloe (<i>Aloe perryi</i>) /Family – Liliaceae Uses – Treatment of skin disease /Part Used - Juice
13	Pili Chameli (<i>Jasmine humile</i>) /Family – Oleaceae Uses - Treatment of Ringworm & sirus /Part Used – Flower & leaves
14	Amaltas (<i>Cassia fistula</i>) /Family – fabaceae Uses – Asthma Antileprotic, /Part used – Roots & Fruits
15	Sarpagandha (<i>Rauioolfia serpentine</i>) /Family – Apocynaceae Uses – Antihypertention /Part Used – Roots
16	Madhu Malti (<i>Combretum indicum</i>)/ Family – Combretaceae Uses – Anti diabetic /Part Used – Whole Plant
17	Indian Hemp /(<i>Canabis sativa</i>) /Family – Cannabaceae Uses – Psychoatic drug /Part used – Leaves, flower





THE MEDICINAL TREES IN OUR HERBAL GARDEN INCLUDE:

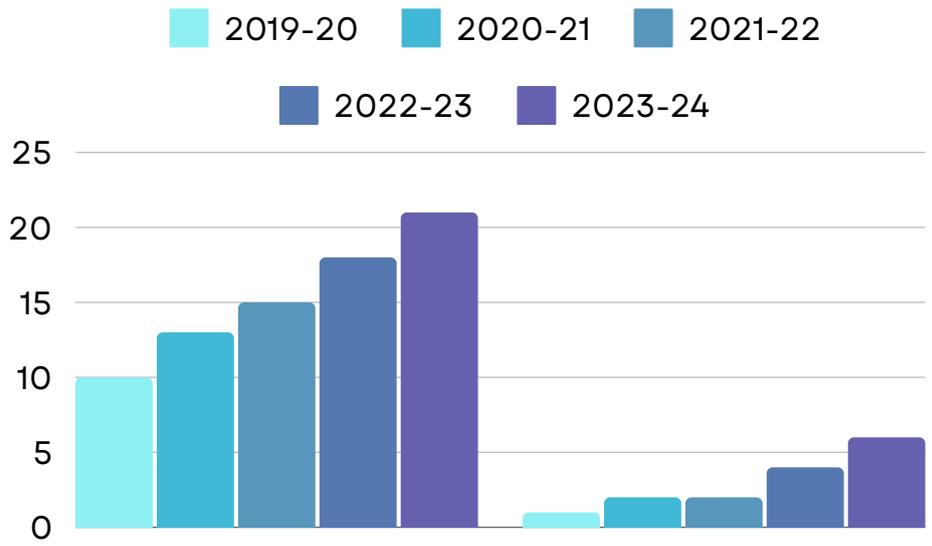
18	Shatavri /(<i>Sparagus sacemosus</i>) /Family – Liliaceae Uses – Immuno moducator /Part Used - Roots	
19	Tulsi (Basil) /(<i>Ocimum sanctum</i>) /Family – lamiaceae Uses – Traditional Medicine /Part Used - Aerial parts	
20	Ashwagandha/(<i>Withania solanaceae</i>) /Family – solanaceae Uses – Stress, anxiety, diabetes, Pain /Part Used – Roots & Fruits	● ● ● ●
21	Jatropha curcas (<i>Jatropha curcas</i>) /Family – Euphorbiaceae /Uses – Biodiesel /Part Used – Seeds	● ● ● ●
22	Karonda /(<i>Carissa carandus</i>) /Uses – Diarrhea, fever /Part Used – Fruit	● ● ● ●
23	Yellow Oleander /(cascabela thevetia) /Family - Apocynaceae Uses – Toxicity, Cardioactive /Part Used - Leaves & Fruit	● ● ● ●
24	Puth kanda (<i>Achyranthes aspera</i>) /Family – Amaranthaceae Uses –Diuretic /Part Used –Whole Plant	● ● ● ●
25	Pomegranate (<i>Punica granatum</i>) /Family - Lythraceae Uses – Prostate cancer, Breast cancer etc. Part Used – Fruit, Flower & Leaves	● ● ● ●
26	Bougainvillea (Paper flower) (<i>Bougainvillea spectabilis</i>) /Family – Nyctaginaceae/ Uses – Anticancer, anti diabetic, anti oxidant / Part Used – flower & Leaves	
27	Karri Patta (<i>Murraya Koenigii</i>) /Family – Rutaceae Uses – Loosing weigh, Sharpen memory etc./ Part used – Leaves	
28	Crown flower /(<i>Calotropis gigantean</i>) /Family – Apocynaceae Uses – Skin disorder /Part Used – Aerial parts	
29	Lemon Grass/ (<i>Cymbopogon citratus</i>) /Family – Poaceae Uses – Immunity booster /Part Used – Leaves	
30	Sahadeva/ (<i>Vernonia omygdalina</i>) /Family – Asteraceae / Uses – Diarrhoea, Abdominal pain /Part Used – Aerial Parts	
31	Sadabahr (Vinca)/ (<i>Catharanthus roseus</i>) /Family - Apocynaceae Uses – Anticancer, diabetes /Part Used – whole Plant	
32	Aloe vera/ (<i>Aloe vera</i>) /Family – Asphodilaceae Uses – Hair loses, hemorrhoids, digestive /Part used – Leaves & Juice	
33	Giloy /(<i>Tinospora cardifolia</i>) /Family – Menispermaceae Uses – reduce Fever, Immunity Booster /Part Used – Stems	
34	Haldi (Indian Saffron)/ (<i>Carcuma longa</i>) /Family – Zingiberales Uses – Cosmetics, Depression, High cholesterol, & liverdisease /Part Used - Roots	



SPACE UTILISATION = TERRACE GARDENS / VERTICAL GARDENS



There is always a solution for every situation, and yes, we have solutions for shortage of space too. When space for gardens is reduced, we utilize the vertical spaces available as well as the available terraces. This again is a step towards bringing greenery closer to us, just next to our offices and classrooms!



GRAPH : THE NUMBER OF VERTICAL AND TERRACE GARDENS WE HAVE ON CAMPUS.



No. of Vertical Gardens in Campus

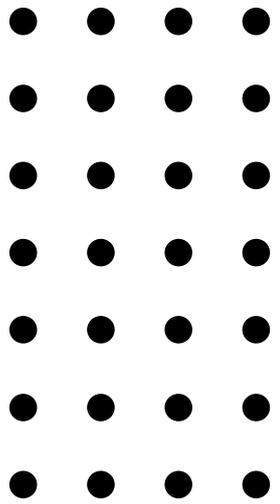
No. of Terrace Gardens in Campus





VERTICAL GARDENS - CHITKARA UNIVERSITY

<p>Bloom Nest</p>	<ul style="list-style-type: none"> • Syngonium (Pots) • Dreiciena (Pots) • Jade Plant (Pots) • Syngonium (Vertical Pots)
<p>Escoffier Block (First Floor)</p>	<ul style="list-style-type: none"> • Areca Palm • King Palm • Janada • Syngonium • Peace Lily • Pot Stand
<p>Escoffier Block (Second Floor)</p>	<ul style="list-style-type: none"> • Area Palm • Rophis Palm • Janada • Syngonium • Peace Lily • Pot Stand
<p>IHM Restaurant Area</p>	<ul style="list-style-type: none"> • Syngonium • Raphis Palm • Areca Palm
<p>Galileo Block</p>	<ul style="list-style-type: none"> • Bougainvillia • Areca Palm • Pelunia • Syngoniun
<p>Le Corbusier Block (First Floor)</p>	<ul style="list-style-type: none"> • Areca Palm • Ficus Benjamina • Raphis Palm



VERTICAL GARDENS - CHITKARA UNIVERSITY

Place	Area	No. of Pots	Name of Plants	Water System
Main Gate • Near Metre Room • Boundary Wall • Road Side	• 810 SF • 180 SF • 32 SF	• 137 • 15 • 30	Rubber Plant Zaffer Fanthus Ribbon Grass Singonia Portulaca	Drip Irrigation
Le Corbusier Block • Open Theatre • Square Two	• 600 SF • 56 SF	• 99 • 20	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Manual
Corporate Office • Path Way	1200 SF	244	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Manual
Hostel • PIE C	150 SF	30	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Drip Irrigation
Dhaba	60 SF	12	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Manual
Explore Hub	900 SF	1140	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Drip Irrigation
Turing Block VIP Entry	180 SF	695	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Drip Irrigation
Babbage Block	300 SF	522	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Drip Irrigation
Moon Block	100 SF	306	Singonia Portulaca Rubber Plant Zaffer Fanthus Ribben Grass	Drip Irrigation
Guest Room (D'Art)	75 SF	150	Singonium	Drip Irrigation
Barista	56 SF	16	Singonium	Manual
Picasso Block (Sculpture Garden)	144 SF	456	Singonium	Drip Irrigation

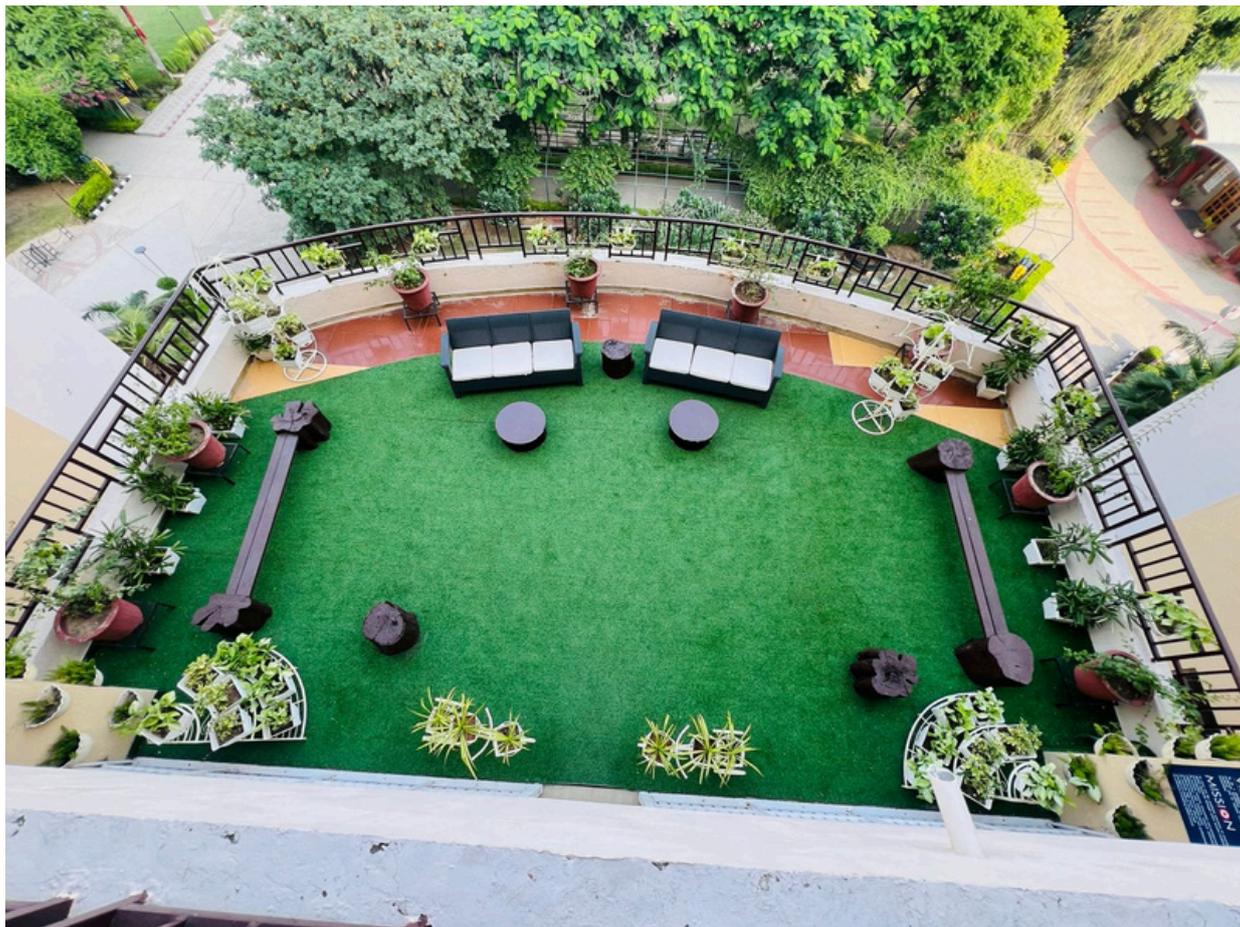
PICTURES: VERTICAL GARDENS & TERRACE GARDEN

VERTICAL GARDEN - OUTSIDE EXPLORE HUB



PICTURES: VERTICAL GARDENS & TERRACE GARDEN

TERRACE GARDEN - GALILEO BLOCK



PLANTATION DRIVES



At Chitkara University, tree plantation is a very highly practiced art of contributing to the environment. Not only is it included in every guest visit where the guests are provided the honor to plant trees, it is significantly followed during all our National Celebrations creating a combination of patriotic fervor and go-green zeal, involving students and staff!! We have had more than 25 plantations by guests in the last year and in this year we have had approximately by guests, students and other teams. Team Horticulture contributes generously to continuous planting of greenery including seasonal plants and trees.



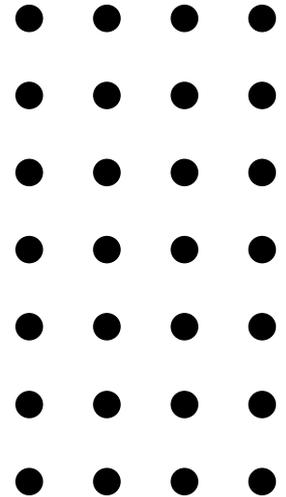


GREEN GIFTS

Another effort towards greenery is to welcome guests with green personalized gifts. Instead of a flower bouquet, the life of which could span from a day to maybe a week, we greet our guests with plants in small flowerpots that can be easily and comfortably carried back home by the guest and added to their garden. These gifts are prepared at our in-house plant nursery and are given a personal touch with name tags that are created at our in-house Paper Recycling Plant.

PLANT NURSERY

A plant nursery on campus takes care of the seedlings, nurturing and potting of plants, which are then used at various locations of the campus to convert space into colorful and bright rendezvous.

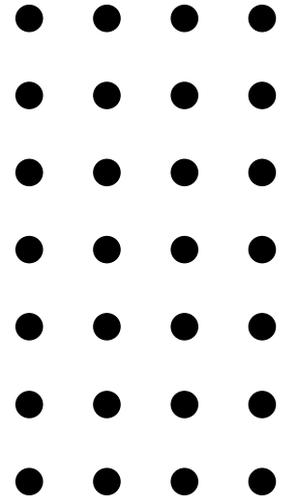


This year the plant nursery shall be shifted to the upcoming Agrohub where all activities related to greenery shall happen at a central location. Notwithstanding that, we are still proud of our earlier Plant Nursery where countless young plants and trees took birth and have travelled all over the world. We say this because at the nursery, seeds are prepared, which are handed over to desirous guests, in personalized packets of recycled paper, so that they can carry these seeds back to their homes.



VERMICOMPOSTING

In this year the new Vermicomposting pit was created at the Yellow Point Farms where the area has increased manifold.



SLUDGE FROM STP

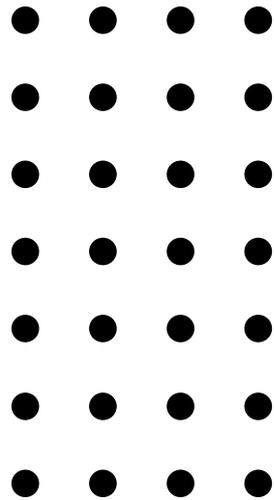
	2021-2022	2022-2023	2023-2024
Manure Required / Managed from in House Sources	3200kg/2000kg	3300kg/2200kg	3300kg/2500kg



PLASTIC REUSED FOR GREENERY

	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024
Maintenance Expense towards greenery	356007	480725	771052	418802	732630

KARNAL TECHNOLOGY



ATTRACTING THE BIRDS

We have more than 50 bird nests in the campus and around 50 bird feeding pillars and platforms.





MEET THE TEAM



TEAM - HORTICULTURE

