



DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE
(Autonomous)
College with Potential for Excellence, Linguistic Minority Institution
Affiliated to University of Madras
Arumbakkam, Chennai 600 106

CRITERION 1 - CURRICULAR ASPECTS
Key Indicator 1.3 - Curriculam Enrichment

1.3.4 Additional Information

Number of students undertaking field projects / internships / student projects under different Programmes - 2020-2021

Program Code	Programme name	Number of students undertaking field projects	Number of students undertaking Internships	Number of students undertaking Student Projects	Total Number of students undertaking field projects /internships/student projects
1	B.A.Economics - Shift I	117			117
2	B.A. Economics - Shift II	82			82
3	Bachelor of Business Administration	215	194		409
4	B.Com (Bank Management)	143			143
5	B.Com (General)	505			505
6	B.Com - Corporate Secretaryship	354		346	700
7	Bachelor of Computer Application	110	-	-	110
8	B.Sc. Mathematics	86			86
9	B.Sc - Physics	45			45
10	B.Sc - Chemistry	47			47
11	B.Sc - Biochemistry	42			42
12	B.Sc Biotechnology	36	5		41
13	B.Sc - Plant Biology & Plant Biotechnology	36			36
14	B.Sc. Visual Communication	93	66	-	159
15	B.Sc - Computer Science	106	55	55	216


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Program Code	Programme name	Number of students undertaking field projects	Number of students undertaking Internships	Number of students undertaking Student Projects	Total Number of students undertaking field projects /internships/student projects
20	M.Com		41	74	115
22	M.Sc - Physics			25	25
24	M.Sc - Biochemistry			24	24
25	M.Sc Biotechnology		14	14	28
26	M.Sc. Applied Microbiology		13	23	36
27	M.Sc - Computer Science			26	26
28	M.Sc -Information Technology			26	26
29	Master of Computer Application		49	53	102
30	Master of Business Administration	18	40	58	116
31	M.A Economics		11		11
33	Master of Social Work	45		40	85
34	M.A. Human Resource Management		39	40	79
35	B.Com - Honors	40	121	44	205
36	B.Sc. Mathematics with Computer Applications	25			25
38	B.A. Tamil	45			45


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39	B.A. English	67			67
41	B.A.Business Economics	18			18
42	B.A. Criminology and Police Administration	77	9	68	154
43	B.A.Sociology	60		67	127
45	B.Com - Accounting & Finance	207	27		234
47	B.Sc. Psychology	48			48
61	B.A. Journalism	20			20
62	B.Com - Finance & Taxation	42			42
63	B.Com- Marketing management	53	53		106
64	B.Sc.Statistics	27			27
65	M.A. English		19	16	35
	Total	2809	756	999	4564

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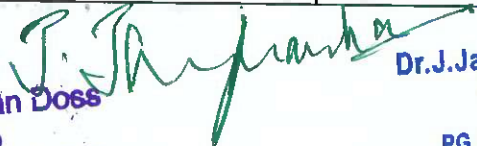
POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE (SHIFT I)

II B.COM A - ACADEMIC YEAR 2020-2021

LIST OF STUDENTS UNDERTAKEN EVS FIELD VISIT PROJECT

S.No.	Roll No	Register No.	Student Name
1	19D2356	1913091036101	AJITH D
2	19D2337	1913091036102	BAALA KANNA K J
3	19D2339	1913091036103	BARATH N
4	19D2345	1913091036104	BHARATH KUMAR S
5	19D2359	1913091036105	BHARATH N K
6	19D2336	1913091036106	CHANDRU
7	19D2380	1913091036107	CHARAAN U
8	19D2322	1913091036108	DEEPAK RAJ D
9	19D2362	1913091036110	GANESH P
10	19D2372	1913091036111	GAUTHAM J
11	19D2352	1913091036112	GUNASEKARAN M
12	19D2329	1913091036113	GURUDEV S
13	19D2379	1913091036114	HARIHARAN K
14	19D2311	1913091036115	HARRIS RAO V G
15	19D2315	1913091036116	JAGATHISH V
16	19D2340	1913091036117	KARTHICKRAJ G
17	19D2357	1913091036118	KARTHIK KUMAR G
18	19D2333	1913091036119	KISHORE E G
19	19D2382	1913091036120	KUMARAGURUBARAN P
20	19D2331	1913091036121	LOKESHVAAR R
21	19D2367	1913091036122	MANOJ KUMAR S
22	19D2376	1913091036123	MURUGANANDAN N B
23	19D2365	1913091036124	NAVIN M
24	19D2383	1913091036125	PERARASAN K
25	19D2369	1913091036126	SABARI V
26	19D2344	1913091036127	SURESH BABU A
27	19D2375	1913091036128	SURESH P
28	19D2324	1913091036129	VIGNESHVARAN D
29	19D2358	1913091036130	VIJAY DHANUSH C
30	19D2346	1913091036131	YASHWANTH K
31	19D2361	1913091036132	YUVARAAJ I
32	19D2377	1913091036133	AKILANDESWARI
33	19D2330	1913091036134	AMRUTHA MADHU
34	19D2373	1913091036135	ANAMIGA SHREE S
35	19D2321	1913091036136	AYISHA SHREEN
36	19D2349	1913091036137	DHANALAKSHMI A
37	19D2347	1913091036138	DIVYA G
38	19D2343	1913091036139	HARINI OVIYA S
39	19D2353	1913091036140	KAVITHA A
40	19D2351	1913091036141	KEERTHANA R
41	19D2328	1913091036142	KEERTHIKA V


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Dr. J. Jayasankar, M.Com., M.Phil., Ph.D
Associate Professor & Head
Research Supervisor & Guide
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S.No.	Roll No	Register No.	Student Name
42	19D2364	1913091036143	LOGESHNI J
43	19D2341	1913091036144	LOGESHWARI P S
44	19D2314	1913091036145	MADHUMITHA R
45	19D2371	1913091036146	MANJULA K
46	19D2326	1913091036147	PAVITHRA S
47	19D2303	1913091036148	PRERNA R
48	19D2332	1913091036149	PRIYA G
49	19D2374	1913091036150	PRIYANKA N
50	19D2370	1913091036151	RAJESHWARI M
51	19D2378	1913091036152	RAMYA PRIYA J
52	19D2323	1913091036153	SARANYA M
53	19D2360	1913091036154	SNEHA K
54	19D2342	1913091036155	SOWMIYA S
55	19D2316	1913091036156	SRI KAVIYA G
56	19D2350	1913091036157	SWETHA K
57	19D2319	1913091036158	VISHALI B
58	19D2354	1913091036159	YAMINI R
59	19D2335	1913091036160	BHERARAM K
60	19D2313	1913091036162	GAURAV AGARWAL H
61	19D2307	1913091036163	HARSH RAJ MAHESWARI B
62	19D2310	1913091036164	KUNAL K
63	19D2348	1913091036165	KUSHAL JAIN P
64	19D2381	1913091036166	MAHENDER KUMAR L
65	19D2301	1913091036168	SHIVAM SHARMA V
66	19D2308	1913091036169	SIDDHARTH MEHTA
67	19D2334	1913091036170	VAIBHAV S
68	19D2312	1913091036171	RICHA R
69	19D2325	1913091036172	ARAVINDAKSHAN V RA
70	19D2317	1913091036173	CHIRAG VERMA
71	19D2363	1913091036175	MAHESH K
72	19D2355	1913091036177	SATHYAMOORTHY
73	19D2368	1913091036178	SUBHASH GANTHI S

K. Moneesh Kumar

DR. K. MONEESH KUMAR
FACULTY INCHARGE

J. Jayasankar

DR. J.JAYASANKAR
HEAD OF THE DEPARTMENT

[Signature]

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II B.COM B - ACADEMIC YEAR 2020-2021

LIST OF STUDENTS UNDERTAKEN EVS FIELD VISIT PROJECT

S.No.	Roll No	Register No.	Student Name
1	19D2462	1913091036201	ASHWIN N
2	19D2449	1913091036202	BALAJI V
3	19D2481	1913091036203	BARATH J
4	19D2480	1913091036205	DASARATH J
5	19D2453	1913091036206	DILLI GANESH R
6	19D2456	1913091036207	GOKUL RAJ R
7	19D2441	1913091036208	GOPI KRISHNAN S
8	19D2460	1913091036209	HARIHARASUDHAN G B
9	19D2467	1913091036210	HARISH R
10	19D2452	1913091036211	HARISH U
11	19D2471	1913091036212	HEMADRI P S
12	19D2476	1913091036213	KARTHICK RAJA J
13	19D2468	1913091036214	KRITHIKK T T
14	19D2454	1913091036215	LOGESH K
15	19D2448	1913091036217	MONISH R
16	19D2461	1913091036218	MURUGAN C
17	19D2473	1913091036219	NAVEEN KUMAR G
18	19D2463	1913091036220	NAVEEN KUMAR R
19	19D2450	1913091036221	NIRMAL KUMAR R
20	19D2457	1913091036222	RANJIT S
21	19D2428	1913091036223	SABARISH S S
22	19D2455	1913091036224	SACHIN KUMAR S
23	19D2424	1913091036225	SRIDHAR S
24	19D2426	1913091036226	SRINATH S
25	19D2464	1913091036227	SRIRAM S
26	19D2465	1913091036228	SURYA PRAKASH S
27	19D2417	1913091036229	TAMIL SELVAN K
28	19D2432	1913091036230	THIYANESHWARAN G
29	19D2443	1913091036231	VENKAT T
30	19D2423	1913091036232	VISHVA D
31	19D2466	1913091036233	YASH JAIN V
32	19D2425	1913091036234	YUGENDAR G
33	19D2478	1913091036236	AISHWARYA R
34	19D2414	1913091036237	ARUNA NANDHINI K K
35	19D2451	1913091036238	DEEPIKA N R
36	19D2415	1913091036239	DEVADHARSHINI J
37	19D2479	1913091036240	HARI PRIYA S
38	19D2472	1913091036241	HARSHINI S
39	19D2427	1913091036242	JAYAPRIYA G C
40	19D2431	1913091036243	KEERTHANA G
41	19D2475	1913091036244	KOKILAVATHI A


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S.No.	Roll No	Register No.	Student Name
42	19D2419	1913091036245	KOWSHIKA S
43	19D2430	1913091036246	POOJA S
44	19D2429	1913091036247	SANDHIYA N
45	19D2442	1913091036248	SANGEETHA J
46	19D2418	1913091036250	SUCHITHRA R
47	19D2440	1913091036251	THARANYAA K
48	19D2469	1913091036252	UMA MAHESWARI K
49	19D2474	1913091036253	VINODHINI A
50	19D2402	1913091036254	VISHAKA M
51	19D2459	1913091036255	YUVASRI V
52	19D2410	1913091036257	CHANDAN S
53	19D2405	1913091036258	CHANDRA PRAKASH P
54	19D2413	1913091036259	CHIRAG J
55	19D2438	1913091036260	DARSHAN BHATTED P
56	19D2447	1913091036261	DARSHAN K
57	19D2409	1913091036262	JITU
58	19D2477	1913091036264	PREM S
59	19D2401	1913091036265	RISHAB MISHRA S
60	19D2420	1913091036266	SAHIL M JAIN
61	19D2408	1913091036267	SANKET MANISH VYAS
62	19D2436	1913091036269	UJWAL KABRA
63	19D2434	1913091036270	VAIBHAV MARLECHA
64	19D2444	1913091036271	VAIBHAV V
65	19D2412	1913091036272	VISHAL SHARMA A
66	19D2416	1913091036273	SHREEDEVI B
67	19D2407	1913091036274	ABHINAV PANDEY S
68	19D2435	1913091036275	ASHISH CHANDAK
69	19D2446	1913091036276	DHIRAJ NIBJYIA
70	19D2411	1913091036277	HIMANSHU SHARMA M
71	19D2421	1913091036278	SOMESHWARAN A S
72	19D2406	1913091036279	SURAJ V
73	19D2403	1913091036280	VARUN R


DR. M. RAJESH
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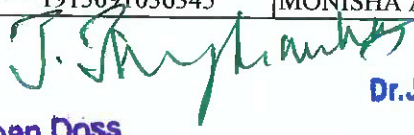


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POST GRADUATE AND RESEARCH DEPARTMENT OF COMMERCE (SHIFT D)
II B.COM C - ACADEMIC YEAR 2020-2021
LIST OF STUDENTS UNDERTAKEN EVS FIELD VISIT PROJECT

S.No.	Student ID.	Register No.	Student Name
1	19D2523	1913091036301	AKASH M
2	19D2524	1913091036302	ARAVIND M
3	19D2569	1913091036303	ASHWIN K
4	19D2522	1913091036304	BADRINARAYANAN J
5	19D2531	1913091036305	BALA GOWRI SANKAR B
6	19D2567	1913091036306	BARATHESWARAN V
7	19D2562	1913091036307	BHARATH V
8	19D2573	1913091036309	FAREED M
9	19D2555	1913091036310	GOKULRAJ K
10	19D2541	1913091036311	JAI GANESH S
11	19D2570	1913091036312	JAIYANTH K C
12	19D2537	1913091036313	KARTHICK K
13	19D2576	1913091036314	KARTHIGEYAN T
14	19D2575	1913091036315	LOKESHWARAN M
15	19D2581	1913091036316	MAHESHWARAN S
16	19D2526	1913091036317	MANOJPRAVEEN B
17	19D2553	1913091036320	PAVITHRAN G S
18	19D2565	1913091036321	PRASHANTH G
19	19D2538	1913091036322	RAJESH KUMAR D V
20	19D2564	1913091036323	ROSHAN KUMAR G
21	19D2577	1913091036324	SANJAI N
22	19D2557	1913091036325	SELVAKUMAR M
23	19D2539	1913091036326	SHARATHY KUMAR M
24	19D2582	1913091036327	SHYAM SUNDAR B
25	19D2543	1913091036328	SUDARSAN SARATHY V
26	19D2563	1913091036329	SUGUMAR S
27	19D2572	1913091036330	SUNIL KUMMAR S P
28	19D2571	1913091036331	SURENDAR S P
29	19D2561	1913091036333	VIGNESH S
30	19D2519	1913091036334	AARTHI T
31	19D2559	1913091036335	AKSHAYA B
32	19D2549	1913091036336	BHARATHY A
33	19D2540	1913091036337	DEEPA D
34	19D2529	1913091036338	DEEPA LAKSHMI B
35	19D2520	1913091036339	DHANALAKSHMI S
36	19D2515	1913091036340	JAYASHREE K
37	19D2579	1913091036341	KAVIYASRI R
38	19D2558	1913091036342	KIRUTHIKA J
39	19D2542	1913091036343	KOWSHIKA S
40	19D2509	1913091036344	MADHURA M D
41	19D2532	1913091036345	MONISHA A M


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S.No.	Student ID.	Register No.	Student Name
42	19D2568	1913091036346	NIVEDHA C
43	19D2533	1913091036347	OHM SNEHA S
44	19D2536	1913091036348	PADMA PRIYA R P
45	19D2566	1913091036349	RAJESWARI S
46	19D2516	1913091036350	RAMYA B
47	19D2544	1913091036351	SABIYA BEGUM A
48	19D2547	1913091036352	SHALINI J
49	19D2527	1913091036353	SINDUJA N
50	19D2518	1913091036354	SREESHMA S
51	19D2548	1913091036355	THIVYA BHARATHI A
52	19D2506	1913091036356	VIDHYA J
53	19D2521	1913091036357	VIJAYA PARVATHI V
54	19D2512	1913091036358	AKIL JAIN A
55	19D2535	1913091036359	AMIT KUMAR SONI
56	19D2510	1913091036360	CHIRAG SANWAL
57	19D2552	1913091036362	DIWAKAR TRIPATHI P
58	19D2503	1913091036363	GAURAV SARAWAGI
59	19D2504	1913091036364	GIRISH SINGH MOHTA
60	19D2501	1913091036365	HANSMUKH T
61	19D2507	1913091036366	JANAK S DAVEY
62	19D2502	1913091036367	KAMAL KUMAR CHANDAK P
63	19D2514	1913091036368	KISHORE T
64	19D2574	1913091036369	MOHIT R
65	19D2517	1913091036370	NIKHIL A
66	19D2551	1913091036372	ROHIT RAJPUROHIT R
67	19D2578	1913091036373	SANJAY PAREEK
68	19D2505	1913091036375	VINAY MEHTA K
69	19D2508	1913091036376	KOMAL G
70	19D2534	1913091036377	ADARSH KHATRI A
71	19D2513	1913091036378	GAURAV SHARMA A
72	19D2554	1913091036379	THASWINKUMAR S


DR. M. R. HEMAMALINI
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DR. J. JAYASANKAR
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19.4.2021

PG & RESEARCH DEPARTMENT OF COMMERCE (SHIFT I)

EVS REPORT

Objectives:

- To bring awareness on the environmental sustainability
- Enhancing the eco-friendly system among students

The PG and Research Department of Commerce (Shift I), Dwaraka Doss Goverdhan Doss Vaishnav College instructed the II B.Com (General) 'A' Section students to visit the following places through virtual mode as part of EVS project.

List of Places

S.No.	Places
1.	Beach
2.	Museum
3.	Zoological Park
4.	Planetarium
5.	Park

The II Year B.Com (General) 'A' Section out of 73 students on which 68 students were visited the above places and submitted the report to the PG and Research Department of Commerce (Shift I), through Google classroom as a Part of EVs Project.

Outcome:

Learned to imply eco-friendly measures to protect the environment.

Dr. K. MONEESH KUMAR
Faculty in charge

DR. J. JAYASANKAR
Head of the Department

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Affiliated to University of Madras
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19.4.2021

PG & RESEARCH DEPARTMENT OF COMMERCE (SHIFT I)

EVS REPORT

Objectives:

- To bring awareness on the environmental sustainability
- Enhancing the eco-friendly system among students

The PG and Research Department of Commerce (Shift I), Dwaraka Doss Goverdhan Doss Vaishnav College instructed the II B.Com (General) 'B' Section students to visit the following places through virtual mode as part of EVS project.

List of Places


S.No.	Places
1.	Beach
2.	Museum
3.	Zoological Park
4.	Planetarium
5.	Park

The II Year B.Com (General) 'B' Section out of 73 students on which 68 students were visited the above places and submitted the report to the PG and Research Department of Commerce (Shift I), through Google classroom as a Part of EVs Project.

Outcome:

Learned to imply eco-friendly measures to protect the environment.


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Faculty in charge


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DR. J. JAYASANKAR
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19.4.2021

PG & RESEARCH DEPARTMENT OF COMMERCE (SHIFT I)

EVS REPORT

Objectives:

- To bring awareness on the environmental sustainability
- Enhancing the eco-friendly system among students

PG and Research Department of Commerce (Shift I), Dwaraka Doss Goverdhan Doss Vaishnav College instructed the II B.Com (General) 'C' Section students to visit the following places through virtual mode as part of field work of EVS project.


List of Places:

S.No.	Places
1.	Museum
2.	Beach
3.	Park
4.	Zoological Park
5.	Planetarium


The II Year B.Com (General) 'C' Section out of 72 students on which 65 students were visited the above places and submitted the report to the Department of Commerce through Google classroom as a Part of EVS Project.

Outcome:

Learned to imply eco-friendly measures to protect the environment.


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GUINDY NATIONAL PARK



S. Kowsika

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A Report

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The capital city of Tamil Nadu, Chennai brims with modern delights and coastlines adorned with beautiful beaches. Visitors flock into the fourth largest city of the country to discover the amazing ancient culture. It has few spots of interest for the wildlife aficionados too.

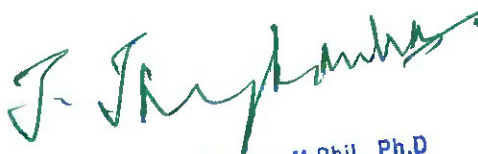
One of the natural spectacles of the city is a small but renowned Guindy National Park. Spanning over an area of 2.70 square kilometres, it is a great habitat of varied species of fauna coupled with the tropical dry evergreen forests of the coromandel coast.


Well protected by the state government, the park is so considered to be the eighth smallest national park of India. Adjacent to the national park is the exciting national children's park attracting the younger lot. Another attraction of the National Park is the snake park.

* The park has a role in both ex-situ and in-situ conservation and is home to 400 blackbucks, 2000 spotted deer, 24 jackals, wide variety of snakes, geckos, tortoises and over 130 species of birds, 14 species of mammals, over 60 species of butterflies and spiders each, a wealth of different invertebrates, - grasshoppers, ants, termites, crabs, slugs, scorpions, mites, earthworms.

* These are free-ranging fauna and live with the minimal of interference from human beings.

* The only major management activity is protection as in any other in-situ conservation area. The park attracts more than 7,00,000 visitors every year.


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History:

A large area of the forest was handed over to the government from 1961 to 1977 for the construction of various memorials and educational institutions. In 1958, a vast area of the forest was given for the construction of the Indian Institute of Technology.

Rajaji memorial was built in 1974 and Kamaraj memorial was built in 1975. Tamil Nadu forest department took charge of the forest in the year 1977. A wall was then constructed to demarcate the Indian Institute of Technology and the Raj Bhavan from the Park.

Established in 1972 by the revered herpetologist and wildlife conservationist, Romulus Whitaker also founded the Madras Crocodile Bank Trust and centre for Herpetology in 1976.

With the presence of a splendid variety of snakes, it attracts several pharmaceutical companies that help them produce anti-venom drugs. In 1975, the Central zoo authority honoured the snake park with the status of a medium zoo.

Several trees were uprooted during the 2016 Vardah cyclone. Stretching from Sardar Patel road from Adyar to Anna Salai at the Guindy junction, Guindy National Park draws more than seven lakh visitors annually.

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Flora:

The park has a dry evergreen scrub and thorn forest, grasslands and water bodies with over 350 species of plants including shrubs, climbers, herbs and grasses and over 24 variety of trees, including the sugar-apple, *Atlantia monophylla*, wood-apple, and neem.

This flora provides an ideal habitat for over 150 species for birds. About one-sixth of the park has been left as open grassland to preserve that habitat for blackbucks. Though both the species of blackbuck and spotted deer have their natural habitat in grassland, the spotted deer prefer bushes and can adjust in land covered with shrubbery.



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Fauna:

There are over 14 species of mammals including blackbuck, chital or spotted deer, jackal, small Indian civet, common palm civet, bonnet macaque, hyena, pangolin, hedgehog, common mongoose and three-striped palm squirrel. The park has also black-naped hare and several species of bats and rodents.

The park has over 150 species of birds including grey partridge, crow pheasant, parrot, quail, paradise flycatcher, black-winged Kite, honey buzzard, pariah kite, golden-backed woodpecker, yellow-wattled lapwing, red-wattled lapwing, tailor bird, robin, drongo and stone curlew. Bird watchers anticipate migratory birds here like teal, garganeys, pochards, medium egrets, large egrets, night herons, and open-billed storks every fall season.

Grindy snake park:

Set next to the National Park, the Grindy snake park houses reptiles like the pythons, Adders, Vipers, King Cobras, and Fan-throated Lizard, Geckos, star tortoise, giant turtles, Kraits, Indian Monitor Lizard and Chameleons.

It also displays reptiles like Gharial, Slider Turtle, Rock Lizard, Green Iguana, Indian flapshell turtle, Siamese Crocodile, spectacled cobra, dog-faced water snake, common vine snake, common cat snake, Olive Keelback, Common wolf snake, common Sand boa, Indian Rock Python, and Whitaker's Boa. An inspiring museum displaying the specimens of reptiles and amphibians is another interesting feature of the Grindy snake park.

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Children's Park at Guindy National Park Chennai:-

Spread over an area of 22 acres, the children's park houses a variety of birds and animals that grabs the attention of children. Twenty million years old tree is a key draw of the children's park. Swings, elephant and pony rides as well as a mini railway keeps the things engaged.

Animals found in the children's park are Black Buck, Sambar, spotted deer, Porcupine, jackal, python, Night heron, Mongoose, common otter, common langur, Grey pelican, cockatill and common peafowl.

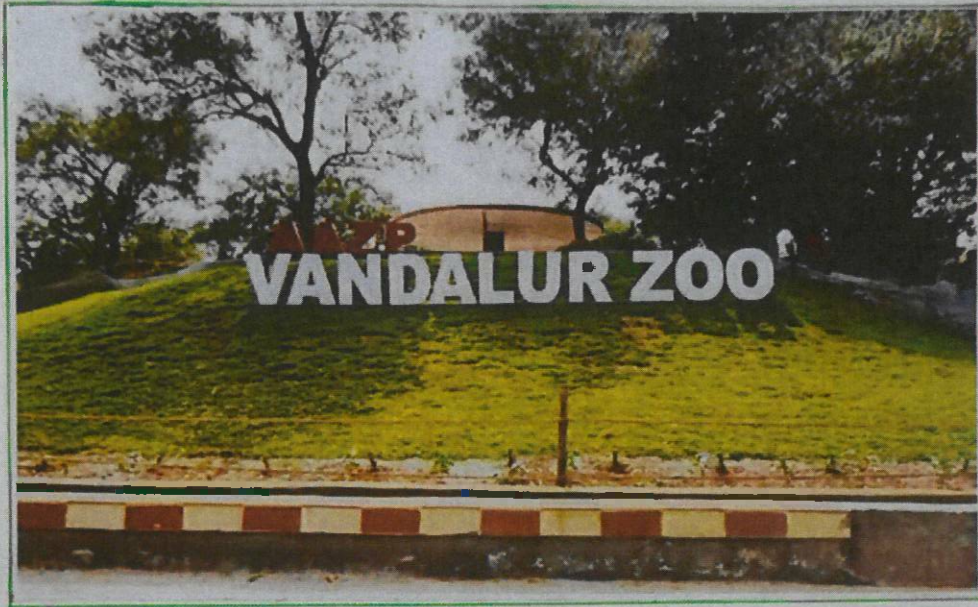
Guindy national Park entry fee:

- * Rs. 15 per person for Adults.
- * Rs. 5 per person for children (Above 10 yrs of age)
- * Rs. 2 per person for school children (between 5 to 12 years of age)
- * Rs. 10 for still camera
- * Rs. 15 for video camera.

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REPORT



NAME : M.ARAVIND

CLASS : II - B.COM - "C"

ROLL NO : 19D2524

PROJECT : EVS

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HISTORY



In 1854, Edward Green Balfour, the then director of the Government Central Museum at Madras, Persuaded the Nawab of the Carnatic to donate his entire animal collection to the Museum. This attracted large crowds and became the nucleus of the Madras Zoo, which was founded in 1855. Balfour started the Zoo on the museum premises, and a year later it had over 300 animals, including

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mammals Premises, and a Year later it had over 300 animals, including mammals, birds and reptiles. It was later transferred to the Madras Corporation and shifted to People's Park near Chennai Central railway Station at Park Town in 1861, as it was growing. The municipal Zoological garden occupied one end of the 116-acre Park and was open free to the Public.

By 1975, the Zoo could no longer expand, and it had to be moved out of the city because of Space constraints and increased noise Pollution. In 1976 the Tamil Nadu Forest Department set aside 1,265 acres in the Vandalur Reserve Forest on the outskirts of the city to build the current Zoo, which is largest Zoological garden in India and one of the largest in the World. Work started in 1979 at an initial cost of ₹ 75 million, and its new Premises was officially opened to Public on 24 July 1985 by then chief minister of Tamil Nadu M.G. Ramachandran, when most of the Works were completed.

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ENVIRONMENT



The Zoo is located within the Vandalur Reserve Forest area. The Zoo's ecosystem consists of dry deciduous and dry ever green Scrub forest vegetation of the Eastern Ghats, a degraded forest consisting of mostly thorny bushes, receiving an average annual rainfall of 1,400 millimetres and an average annual temperature of 26°C (79°F). The terrain is a gentle undulating one ranging in altitude from 10 to 100 metres (33 to 328 ft) with an average elevation of 50 metres (160 ft) above Sea level. The Park was designed to keep the natural vegetation of the area intact except where enclosures, roads and structures had to be constructed.

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Originally a Sparse Scrub forest invaded by weeds, consisting of species such as carissa, Gmelina, Eugenia, Acacia, Trestia and a few other dry evergreen forest species, the Park's Vegetation was gradually enriched by planting dry evergreen species. The entire campus has been fortified by means of a compound wall, Preventing any biotic interference in the Park and allowing the natural growth of Vegetation, which give the Park and allowing the natural growth of Vegetation which give the Park and look like the natural forest. The exhibits were originally based on taxonomic and geographical distribution of the species, but have now been replaced by ecological niches and habitats. Most of the exhibits in the Zoo lie along a circular road covering about 2.5 Kilometres (1.6mi). Smaller mammals and other exhibits are located along three inner roads. The Park area is dotted with large open island-type enclosures and chain-link fence with camouflaged wet and dry meads, hidden walls, and simulated natural environment for the residents of the Park.

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The remaining area makes up the free-range zone an open area which makes up the bulk of the Park and where animals such as deer and Jackals in the free-range zone. In addition, there are four enclosures for deer each housing about 30 animals. Deer and Jackals are found in equal numbers and are known for their fast-breeding ability, especially in their natural environment. The deer-Jackal ratio is maintained by the 'natural method of Selection' allowing the stronger ones to prey on the weaker ones a natural way of balancing the ecological system.

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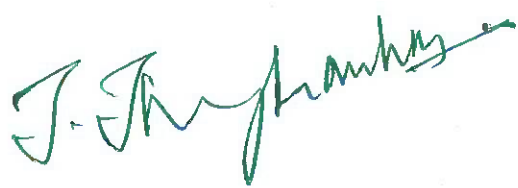
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MARINA BEACH

REPORT

1. INTRODUCTION:-

Marina Beach is a natural urban beach in Chennai, Tamil Nadu, India, along Bay of Bengal.

a. The beach runs from near Fort St. George in the north to Foreshore Estate in the South, a distance of 6.0 km.

b. making it the longest natural urban beach in the Country

c. The marina is primarily unlike the short, rocky formations that make up the Juhu Beach in Mumbai.

d. 60,000 visitors a day during the weekend and on holidays. During summer months, about 10,000 to 20,000 people visit the beach daily.

2. History:-

Before the 16th Century, there were frequent incidents of inundation of land coast due to rise in sea level. When the sea withdrew, several ridges and bays left behind. On the Southern side of Fort St. George, one such ridge north of the Cooum River to the present site of the Presidency College.

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When Fort St. George was the sea was too close to the fort. Before the mudhar harbour was built, the beach was just a strip of mud, termed mudkippers. The beach worked up close to the present day road for a long the harbour was built in 1881. He also gave it the name Marina in the same year. Since the early 19th Century, a number of were constructed fronting the beach.

3. Environment:

Before the 16th Century, there were frequent incidences of inundation of land near the coast due to rise in sea level. When the sea withdrew, several ridges and lagoons were left behind. on the Southern side of Fort St. George. one such sand ridge ran from the mouth of the Cooum River. The ridge is the site of the present-day beach. The building up the harbour near the fort resulted in sand accretion to the south of the fort, moved after at about 2.5 km away from the fort creating a wide belt between the land and the sea.

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A. Structures Along the Beach:

Being the city's primary area for recreation, the entire stretch features numerous statues and monuments that have come up over the years along the beach promenade, called Kemmangal Sagar, while the beach stretches along the eastern side of the road, the western side is dotted with various government institutions and historic and state buildings from the British rule all along its length. Victory was its length. Victory was memorial, a memorial for the warriors who lost their lives in the world wars. marks the northern for the beach. The traffic Deck measures 4,140 square meters with facilities a viewing gallery, walking track, children's play area. traffic sign board, and a ride.

B. Conclusion:-

The pedestrian path along the beach Although the beach promenade, was created in 1894. the beach shore has been in the literature much earlier. the beach shore has a mentioned the verse in 4000 Divya Prasthanam written by Pugalur, the verse, stating back to 7th was

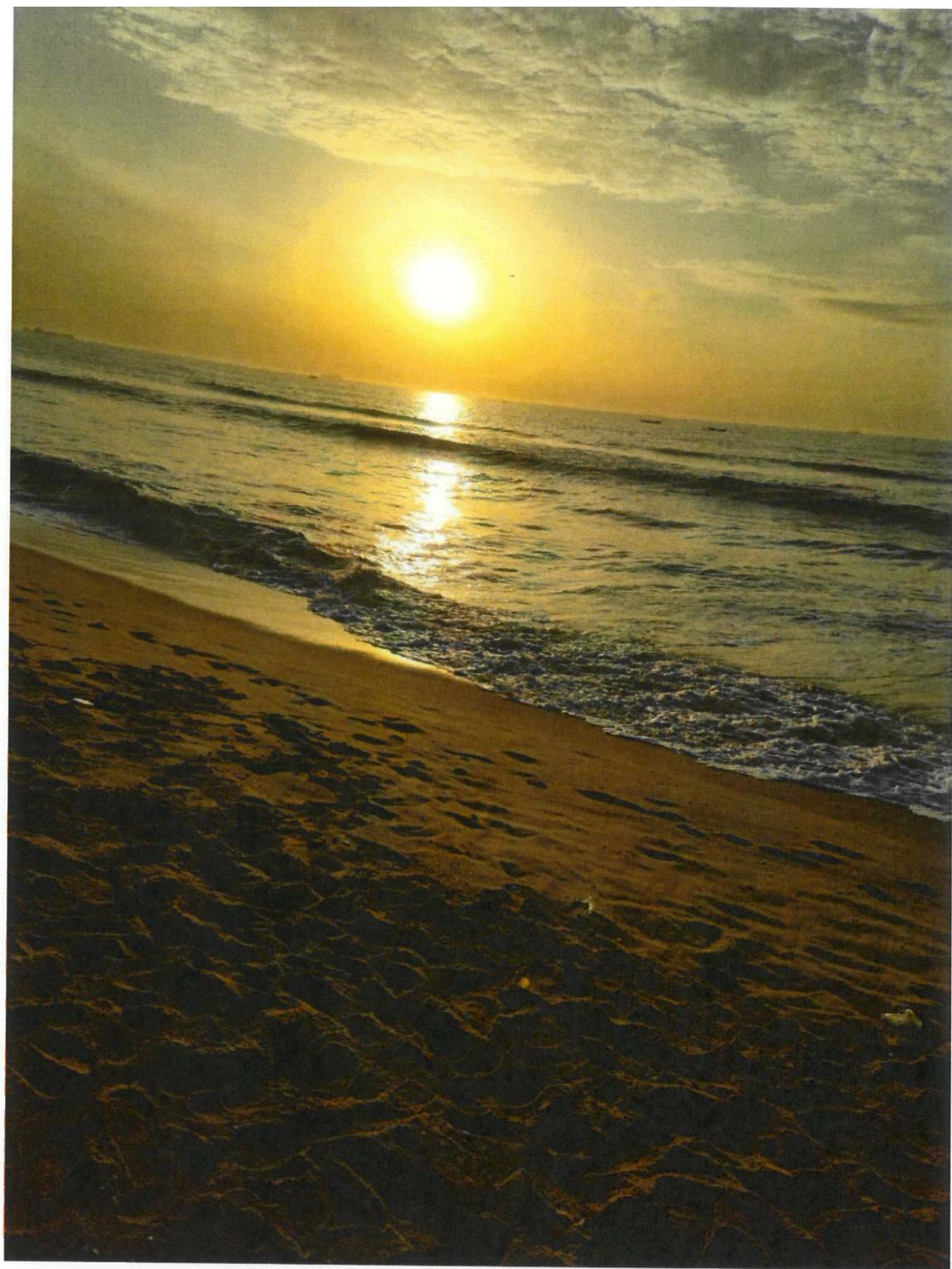

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written in Tamil, and it says that the sea was so rich
with white waves being there very precious gems like pearls
corals and white pearls and that the light of the full moon
shone down on the sea and makes the waves brighter with
colour.

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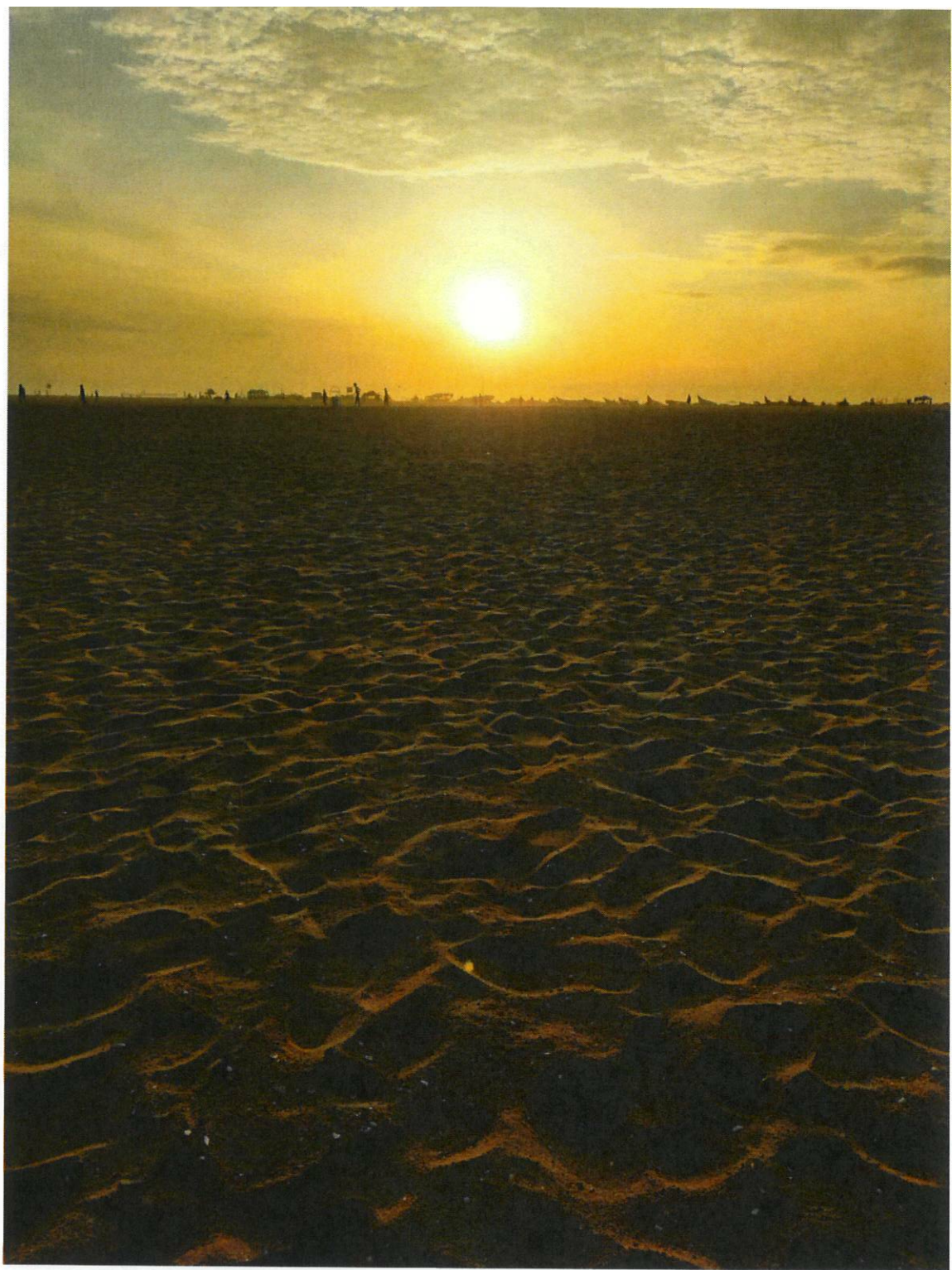


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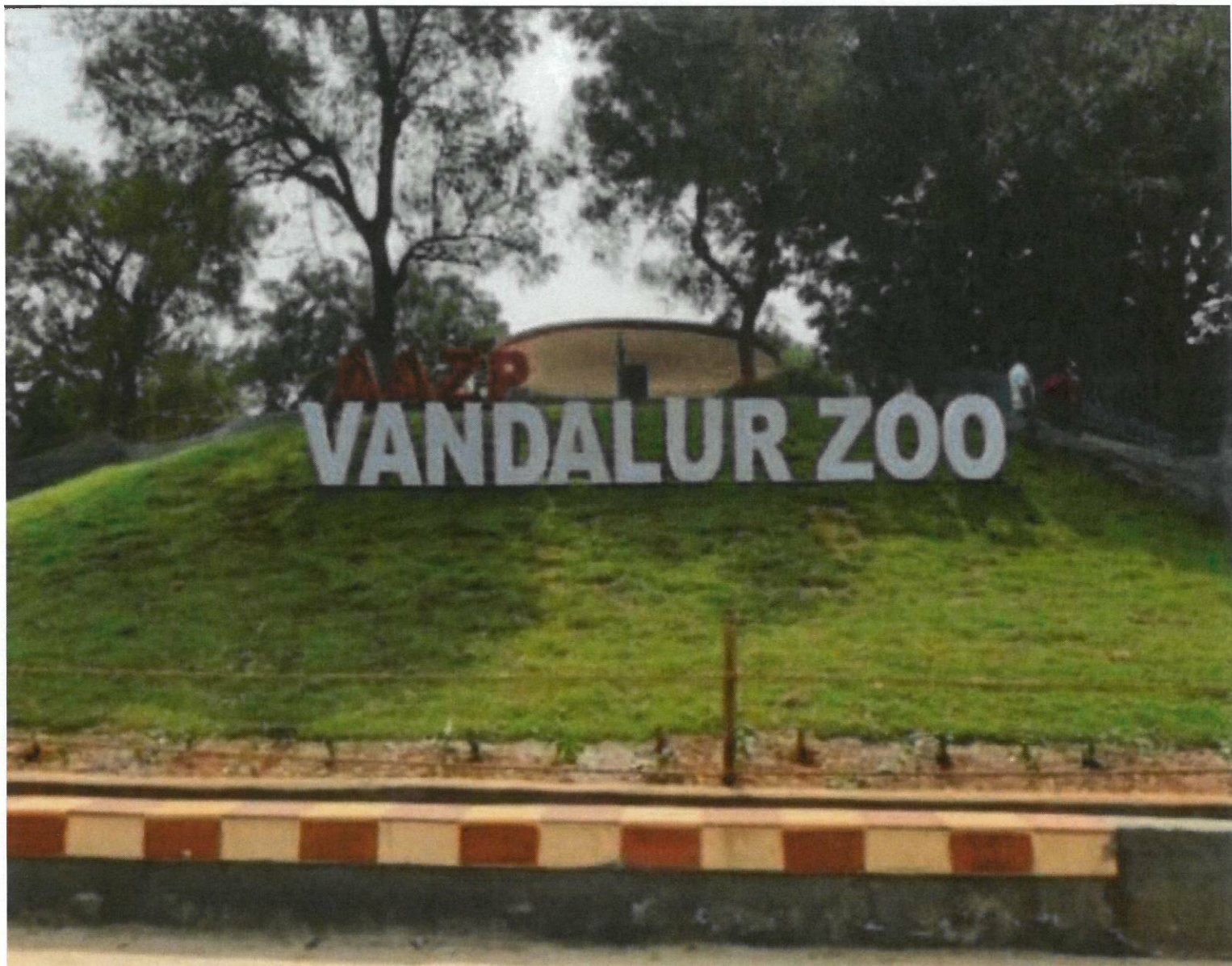


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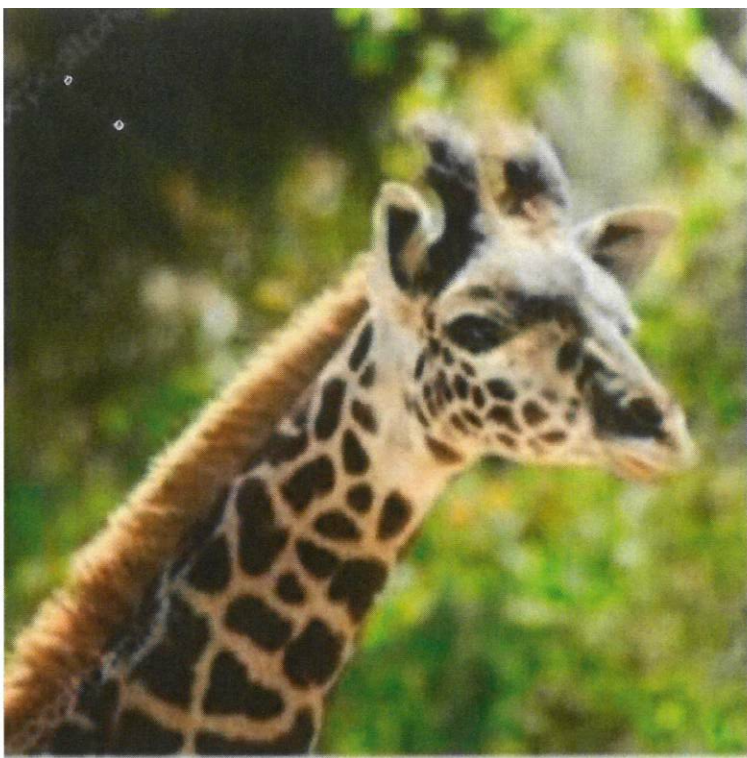


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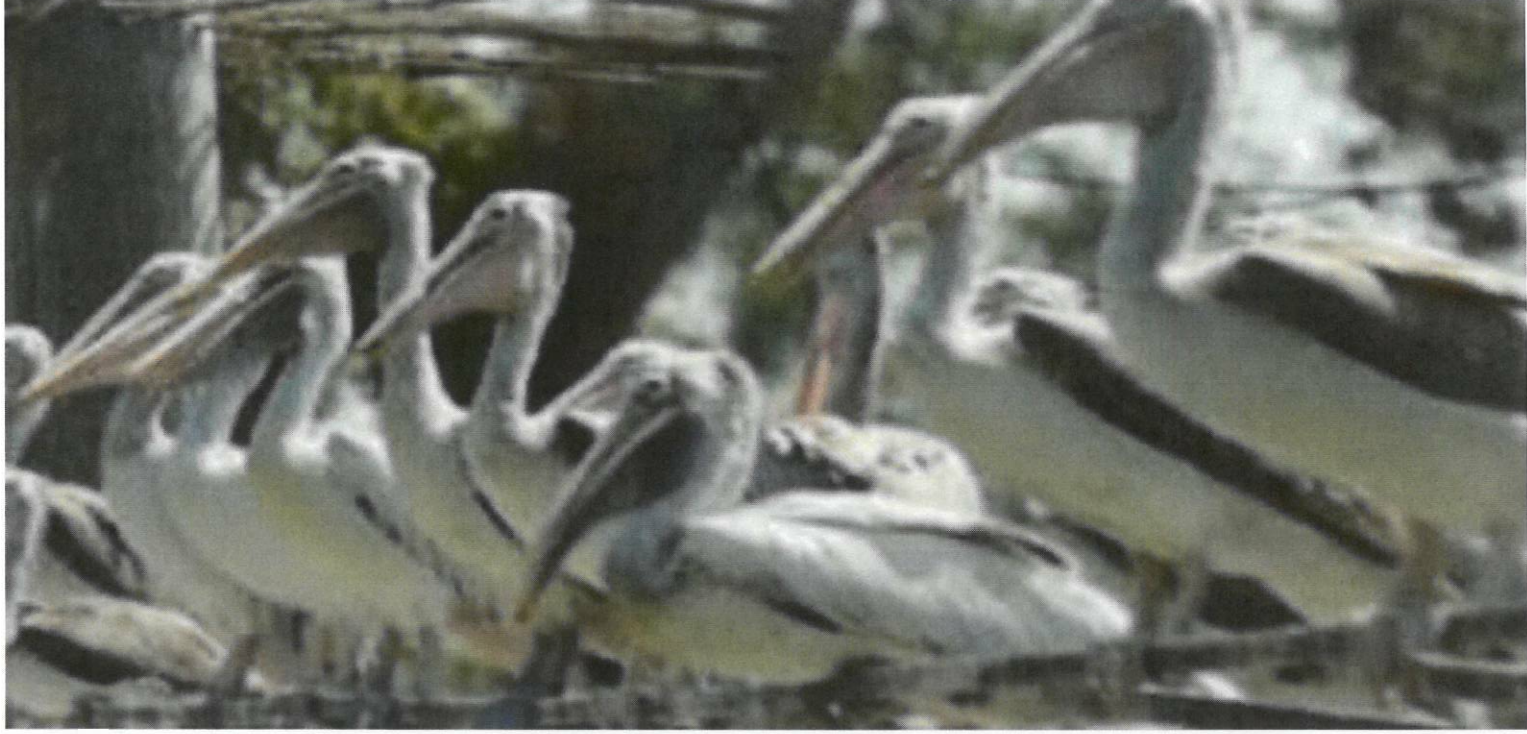


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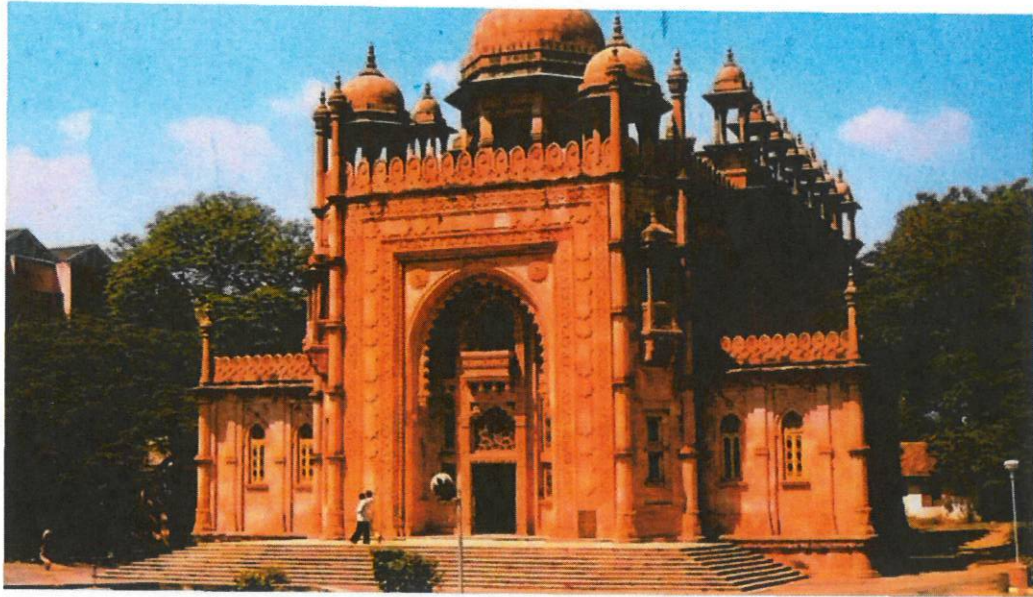
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Chennai Egmore Museum

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Thursday, I made a visit to Chennai Government Museum. which is in Egmore. It is near to my location. So, It doesn't take much time to reach the museum. Moreover, the entry fee in the museum is affordable. They charge only Rs 15 for adult and Rs 10 for children.

So now, I will share the experience and important information about the Museum.

To explore the places in the museum

- Its campus has six independent building with 46 galleries. And they are
- In main building, where you will find artifacts sculptures from the past, animal galleries botany galleries and philately gallery.
- Front building has a very interesting puppet gallery and galleries preserving the folk art and music


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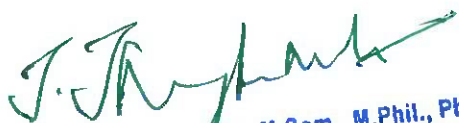
Children's Museum is one of the section that fascinates all kids..

- Most importantly, It has Connemara public library and Department of Natural History.
- Museum also has a theatre in it.

To know depth about the museum, we may look in history of the library.

The Government Museum of Chennai is one of the most popular sightseeing spots in the city. Though initially it was set up in an edifice on the College Road, Nungambakkam in 1851, later on, in 1854, it was shifted to the present look in Egmore.

Today, it proudly stands as the second oldest museum in India. Some of the edifices in the campus of the museum are over 100 years old.



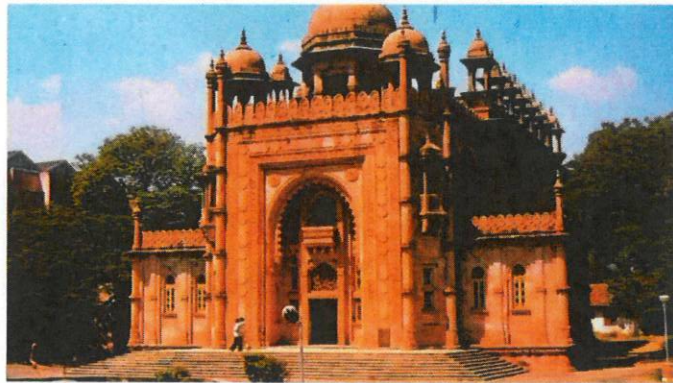
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In August 1778, the governor of Madras granted 43 acres for an estate to a civil servant, who subsequently in 1793, assigned the ground to a committee of 24 which when regulated the public amusement in the city.

In 1821, the committee sold the main house and central garden space to E.S Moorat, an Armenian merchant who, in turn, sold it back to the government in 1830. The government first used to the building and grounds as the collector's "Cutehery". and later for Central Museum.

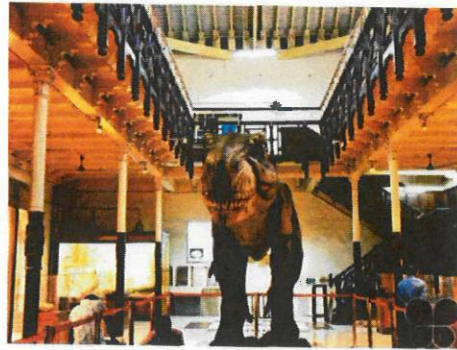


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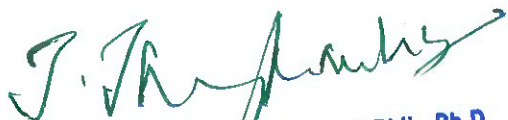
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Interesting parts in the Museum:

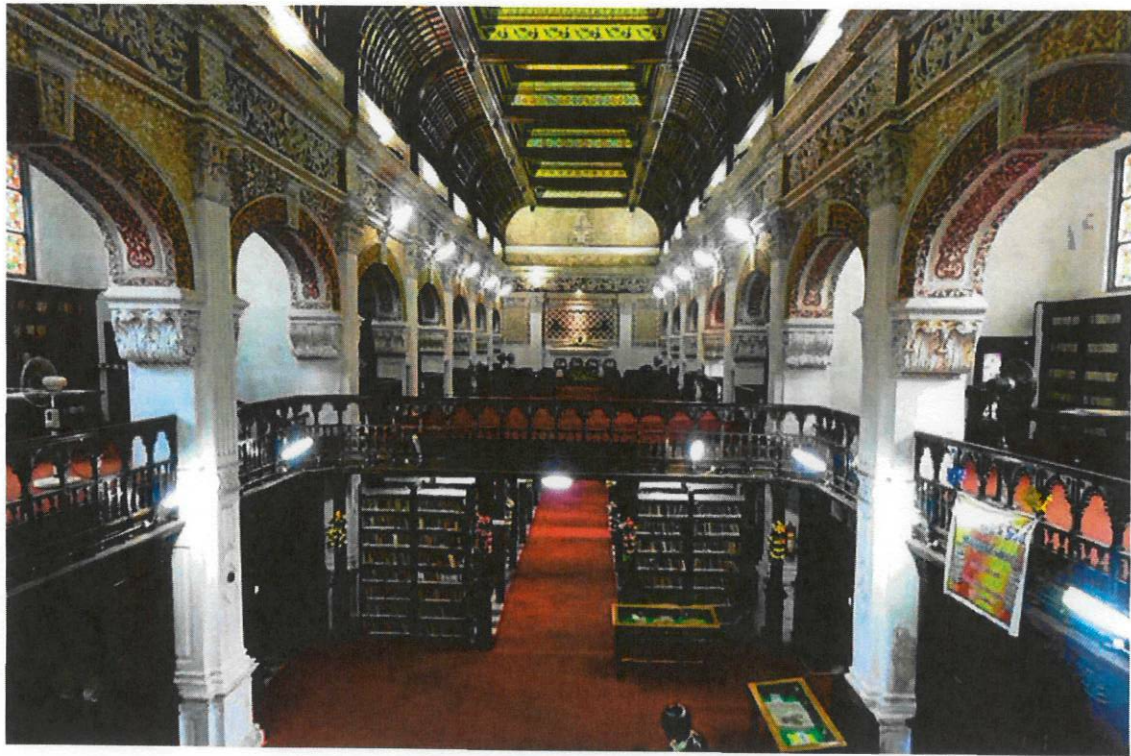
1) The life-size, animatronic Tyrannosaurus Rex exhibit. Located in the natural history section the head of the Rex moves from side to side and looks surprisingly life-like.



2) We can also find the Connermara Library, one of the oldest library in the country. Started in 1890, this library has over 599,999 books for you to check out including - also centuries - old publications and ancient texts.


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Connemara library

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3) The Government Museum also has a Children's Museum that filled with colourful visual exhibits of animal history, Indian history, scientific advancement and other general knowledge that we've all come to pass as commonly known.



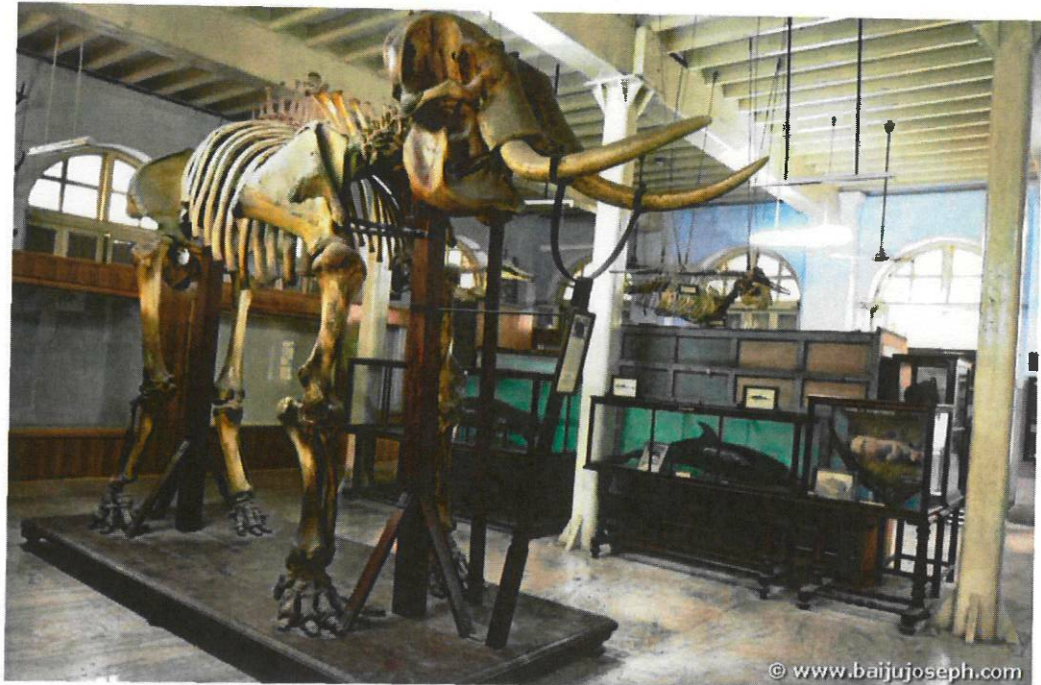
4) There's also the Natural History Museum displaying a vast collection of animal exhibits from across the globe along with placards that give you details about the species. You will definitely feel excited on seeing that exhibits

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Natural history part

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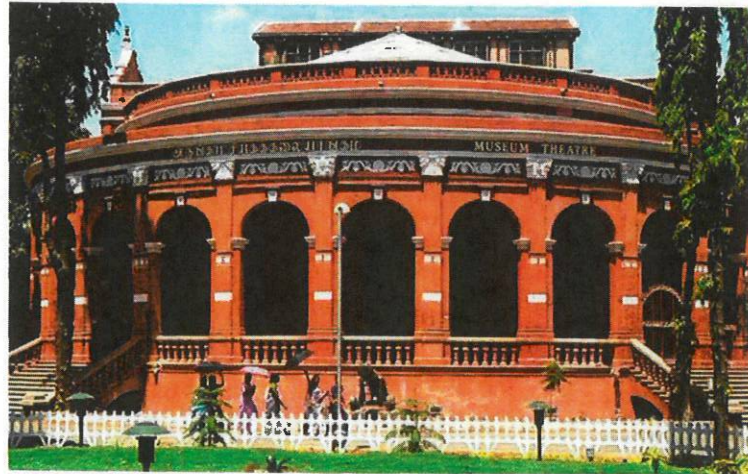
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5) You also have the Museum Theatre to check out.

A technological marvel as well as a hub for the city's theatre groups. The museum Theatre can accommodate about 600 people. An air-conditioned 3D theatre, the first of its kind facility in a state museum. The theatre will screen science oriented films.



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• When we are child we do not understand the value to such things. Even if we go to art gallery or museum, we are simply at a rush to see one after another all the things. And just pass by the artifacts displayed.

Even

• But that is not the case when we grow up. We understand that each and everything displayed are having some reason for being there.

• Museum actually gives a full history-glimpse of the history



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J. Jayalithaa

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J. Jayalalithaa

* Hundreds of people gathered as a grand memorial for late Tamil Nadu chief Minister J. Jayalalithaa, modelled on a phoenix to depict her political resurgence against all odds, was unveiled in Chennai on Wednesday off the famous Marina Beach. The memorial was thrown open to the general public by Tamil Nadu chief Minister Palaniswami amid chants of slogans hailing Jayalalithaa by thousands of ruling AIADMK volunteers.

* A grand memorial for late Tamil Nadu chief Minister J. Jayalalithaa, modelled on a phoenix to depict her political resurgence against all odds, was unveiled in Chennai

* The memorial's entrance is adorned by two lion sculptures and bronze busts of Jayalalithaa and late chief minister MG. Ramachandran, her political mentor and the AIADMK founder.

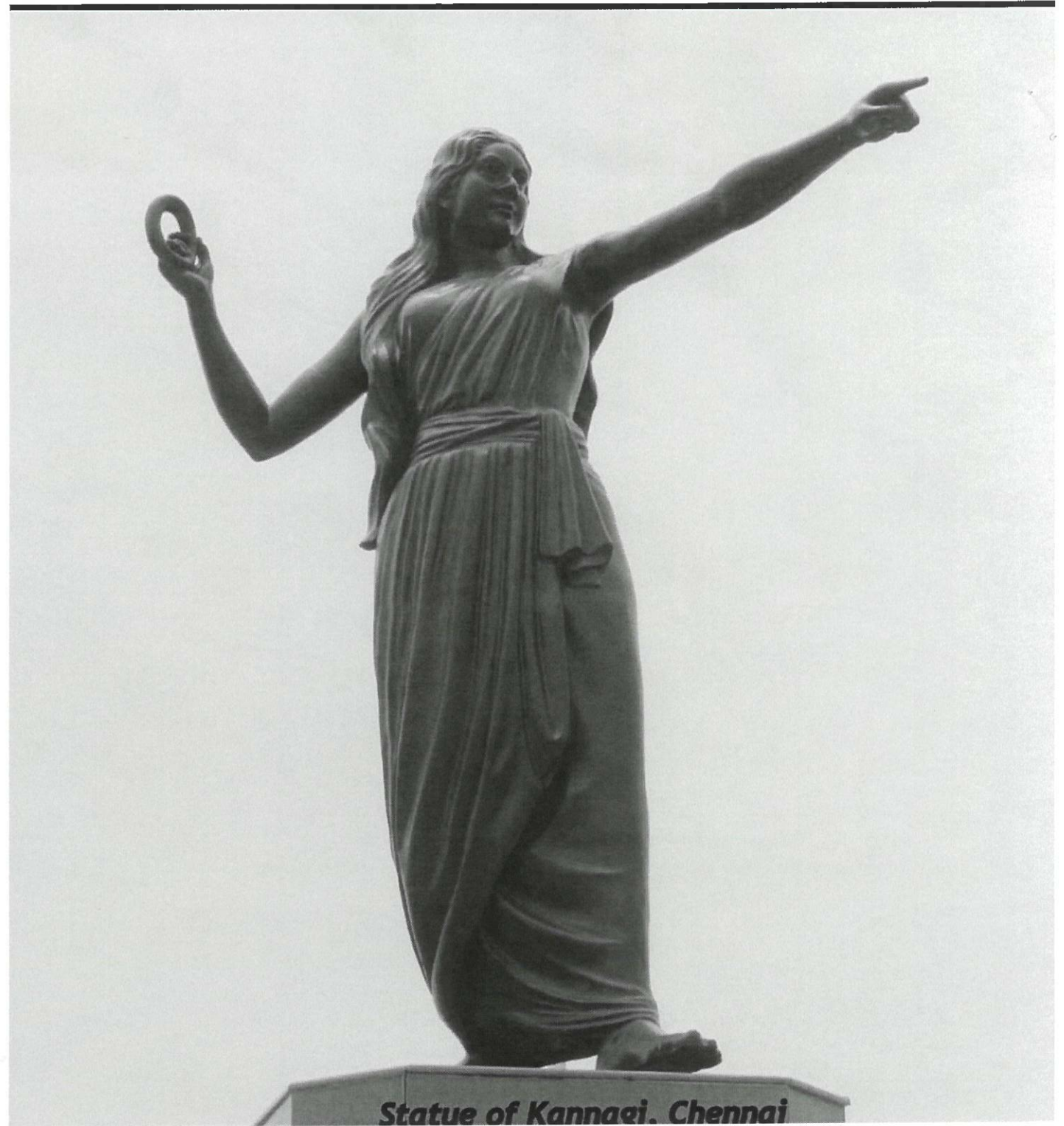
* Her signature slogan "Makkalai Naan Makkaluthaga Naan", meaning her stature was because of the people and she was for the people, was brightly engraved on the mausoleum and a huge photograph of the late leader placed nearby.

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Statue of Kannagi, Chennai

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Kannagi statue

OT ON POCO M2 PRO

OCO

* Kannagi statue is a statue at the Marina Beach, Chennai, India. Its location is at the intersection of Bharathi Salai and Kamarajar promenade. On 2 January 1968, it was erected as Kannagi holding an anklet in her hand and demanding justice.

* In 1967, the Dravida Munnetra Kazhagam (DMK) leader C.N. Annadurai became Chief Minister of Tamil Nadu. His government conducted second world Tamil conference in January 1968, Chennai. As part of the conference, the statues of the ten Tamil icons who associated with the history of Tamil literature were erected on the marina beach. This includes 10 foot bronze statue of Kannagi, a female protagonist character in the Silapathikaram, one of the five Great Epics of Tamil literature.

* In May 2001, All India Anna Dravida Munnetra Kazhagam (AIADMK) leader J. Jayalalithaa became Chief Minister of Tamil Nadu. On 21 September 2001, she resigned due to the corruption charges.

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ROLL NO:- 19D2451

Subject :- L.V.S Assignment

Topic :- Guindy National Park

Date :- 15/04/2021

Mobile NO:- 98408 13097

CLASS :- B.com General

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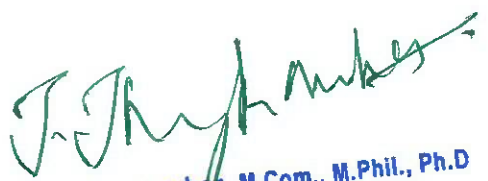
Guindy National Park


Guindy National Park is a 2.70 km² (1.04 sq.m) protected area of Tamil Nadu located in Chennai, India. It is the 8th smallest National Park of India and one of the very few National Parks situated inside a city.

The park has a role in both ex-situ and in-situ conservation and is home to 400 blackbucks, 2000 spotted deer, 24 crocodiles, a wide variety of snakes, geckos, tortoises and over 130 species of birds, 14 species of mammals, over 60 species of butterflies and spiders. The Park attracts more than 4,00,000 visitors every year.

Guindy Snake and children Park:-

For ex-situ conservation, about 22 acres (8.9 km) of the Guindy National Park has been carved out into a park known as the children's park and play area known as the children's park.



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and play area at the Northwest corner of the national Park with a collection of animals and birds. The children's park also exhibits a fossilised tree specimen which is estimated to be about 20 million years old and a statue of a Tyrannosaurus at the entrance. The snake park is loaded with the variety of Reptiles and amphibians which are a sight to behold.

Flora:-

The Park has a abundance of natural vegetation summing up to more than 24 ~~million~~ varieties of Trees and 350 species of other plants. This flora provides an Ideal habitat for over 150 species of birds.


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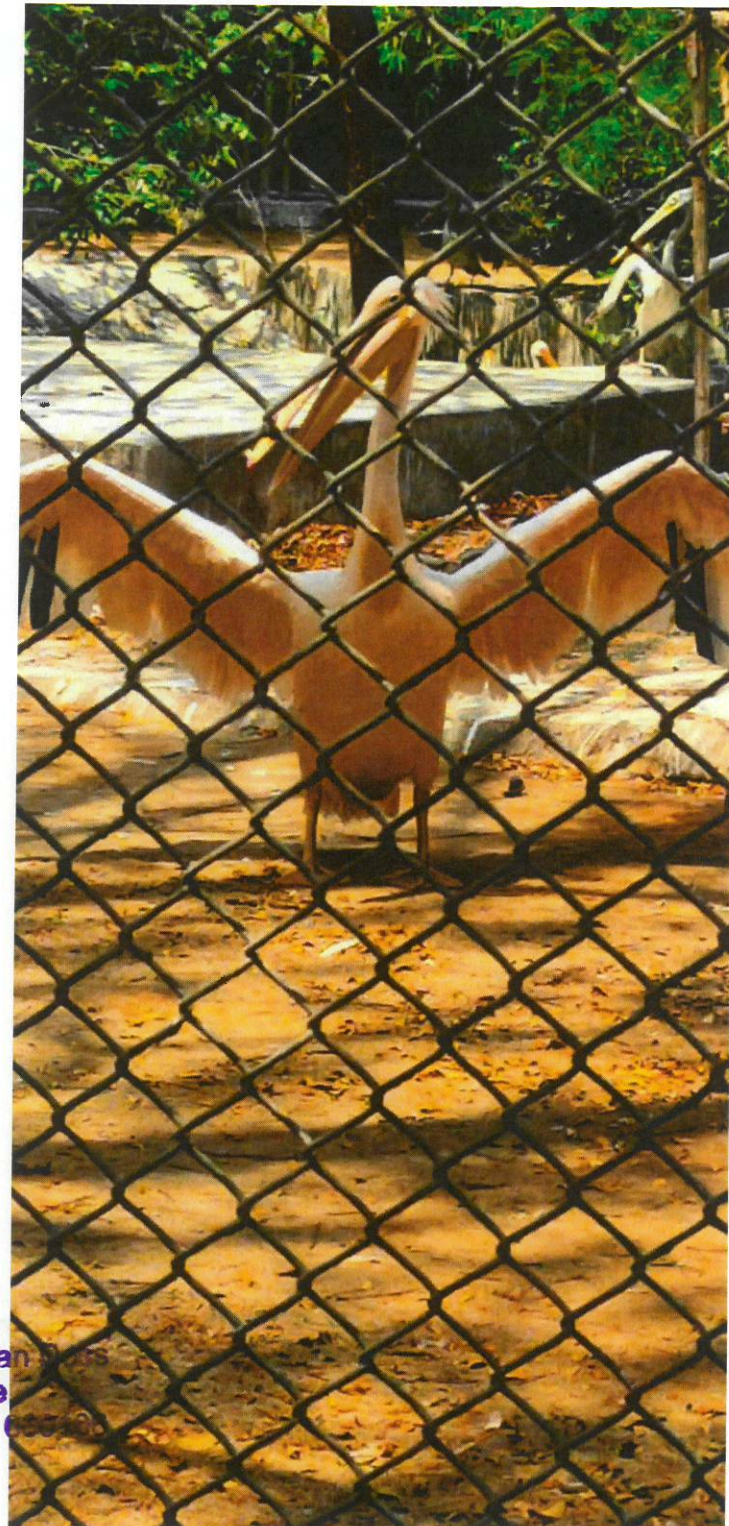


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Fauna

There are over 14 species of Mammal including black buck, chital or spotted deer, Goral, Small Indian, Common palm Squirrel, hyena, etc. The forest also has black-naped hare and several species of bats and Rodents.

History

once covering an area of 5 km² (1.93) sqm of one of the last remnants of tropical dry evergreen forest of the Coromandel Coast, Guindy forest was originally a game reserve. In 1958, a portion of the forest reserve was transferred to the Union Educational Ministry for establishing the Indian Institute of Technology.

Madras. In same year the another portion of the land was transferred to forest department for

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creating the Guindy ~~Deer~~ Park and children Park at the Instance of then Prime Minister of India, Jawaharlal Nehru. In 1978 the whole of the Remcuning area popularly known then as Guindy Deer Park, was Declared as National Park. The park is about 9 species of amphibians. There are also many kinds of reptiles, Including Saw-scaled viper and the fanthroated lizard. Some species of tortoise and turtles - especially the endangered star tortoise, lizards.

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EVS ASSIGNMENT


VISIT TO VELLORE FORT

I have come to vellore for attending a family function. As I was given EVS assignment, I had a chance to visit "The vellore fort" after many years. The robust masonry is a visual treat to our eyes.

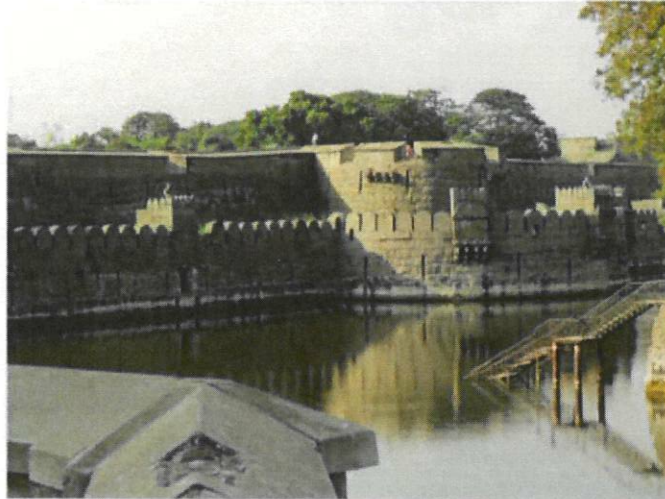
Vellore fort was built by the Vijayanagara Kings. It was at one time the headquarters of the Anavide Dynasty of the Vijayanagara Empire.

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After the Vijayanagara Empire the fort was occupied by Bijapur Sultanate, Maratha empire and finally by the British kings. Now it is managed by the Archaeological Survey of India.



The fort is surrounded by a beautiful moat which was once used as an additional line of defence in case of an invasion.

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I still remember the time when I went for boating in that moat. Due to COVID restrictions, now they have stopped allowing people for boating.

Fort houses the Jalakanteshwaram Hindu Temple, the christian St. John's church and a muslim Mosque. The carvings that the Jalakanteshwar temple bears is very magnificent. Two eyes are not enough to see those detailed carvings. The sculpture in the porch on the left of the entrance is a masterpiece.



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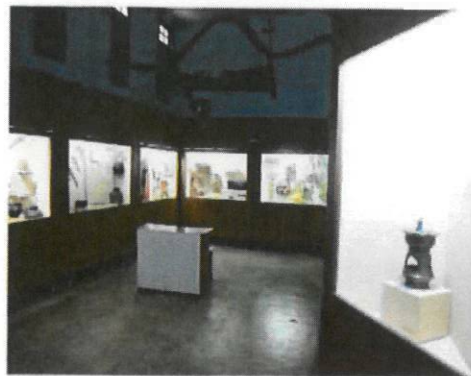
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The St. John's church is located inside the fort. It is the oldest standing church in the vellore Diocese. The Mosque is also located inside the fort. But people are not allowed to visit the mosque. Despite many protests, it is not allowing people inside.

There is also a museum which is placed near the fort. The museum has 2 galleries in it. Some of them are stone sculptures, art, natural science, bronze and anthropology gallery. Sculptures of God, inscriptions, swords used by the kings are placed here.



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The fort is considered to be amongst the best examples of Military architecture in Southern India and is known for its grand ramparts, wide moat and robust masonry.

I would highly recommend visiting the fort for every person who ever is going to Vellore. It is a visual treat and also the cool breeze that we get near those greeny parks are amazing.

After the visit, I felt that I have gained an opportunity to know about the glory of the kings and their bravery and also I could observe their brilliance in their architecture and sculpturing works. This visit has really gave me some insights about our history and I completely enjoyed observing each and every part.

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VISIT TO PUDUCHERRY MUSEUM

Being a Pondicherrian, It gives me an immense pleasure to describe about the museum where I went regarding EVS Assignment. The Building of the Museum is majestic and sturdy and it has many department that cover various subjects and periods of history.

Generally, Museums are the repositories of antique items. They are, in reality, great historical, anthropological and archaeological monuments that tell us about the ancient world, how it developed over the


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The entire museum explains about the French Rule and it is overall a good learning place. If anyone wants to learn and explore about the history of Puducherry, then the Museum is the best place, what I personally suggest. Various historical items are also preserved and displayed neatly and attractively. The thing which is appreciable is that section for various minerals and ores is witnessed. There is a separate room (hall) which display portraits and paintings of various artists. The overall articles in the Museum revolves around the French people's livings, their mode of control or rule over the reign.

Amazing collections of coins, clay materials, weapons, swords, rifles is maintained properly. After seeing those ancient utilities, It drives us



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During my visit to the Pondicherry museum, I had a beautiful visual treat which I have captured. In some places, the camera is prohibited, however the external places are allowed to take a snap.



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There are lots and lots of stuff and history to be learnt about Puducherry. It has stones, plates, canons used in 18th, 19th century also it gives an eye treat in visual form equipped with manual chariot used as transportation by higher officials and authorities who ruled over the reign. God and Goddess statues and idols are made up of metals like bronze. It is purely a visual treat for the visitors over there.

Puducherry Museum is famous and especially noted for its collection of wax bronzes from the period of Chola Empire. The Museum's collection includes 81 Chola Bronze sculptures, ranking as one of the largest collections of Chola Bronzes.

Puducherry was captured by the Dutch in 1693 but was subsequently returned to French by the Treaty

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company" to retain their settlements at Paducherry, Mahe, Yanam, Karaikal and Chandranagor.

Inside the Museum, the place / hall had certain historic articles and detailed information, description of the past relic items, coins, guns is given. It is really well preserved and easy to navigate. For sure, it is an interesting place to dive into the history and know the city's past.

The entrance hall along with the courtyard of the museum includes a fossilized tree trunk and various stone sculptures. The ground floor houses one of the major attractions of this beautifully maintained museum which is a section that includes three curious transport mechanisms - a ^aplaque, a coach and a version of



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Puducherry Museum rose to prominence and acquired its unique identity and stature under the French rule. The Museum provides an ambience typically unique and presents glimpses of its passage through the geological, archaeological and historical periods and seeks to highlight the many facets of its arts and crafts which have now become part of Puducherry's rich heritage.

The Museum "Multi purpose" was established in the year 1983. The numismatic section, displayed in the central hall reflect a taste of tradition and refinement. Also on display, in the "Cabinet de travail" is a replica of a chair used by Governor Duplex. All the display of piano, lamps, paintings, clocks, furniture and fixture with decorative pieces are attractive in nature.

As I returned home, I felt I was enriched

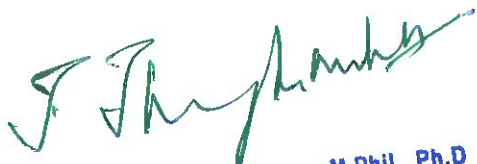
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Assignment - 1

Roll no : 19D2315

V. Jagathish
2nd bcom general


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has declined due to the expense of maintenance and has become uneconomical since the advent of cheaper and often much more effective electronic navigational systems.

Maintenance :-

In the United States, lighthouses are maintained by the United States coast guard.

In India, lighthouses are maintained by Directorate general of Lighthouses and Lightships which comes under the ministry of shipping.

Before the development of clearly defined ports mariners were guided by fires built on hilltops. Since elevating the fire would improve the visibility, placing the fire on a platform became a practice that led to the development of the lighthouse.

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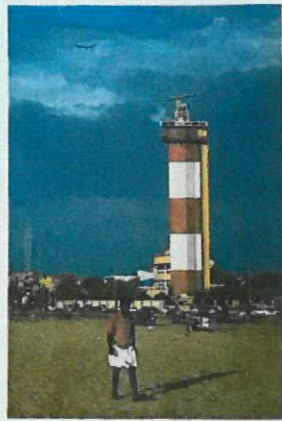
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Light house

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Light house is a tower, building, or another type of structure designed to emit light from a system of lamps and lenses and to serve as a navigational aid for maritime pilots to sea or on inland waterways. Lighthouse mark dangerous coastlines, hazardous shoals, reefs, rocks, and safe entries to harbors. They also assist in aerial navigation. Once widely used, the number of operational lighthouses.

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Kannagi statue

V-JAGATHISH

1902315

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Size of the preview :- 415 x 600 pixels.

Kannagi, a legendary tamil women is the central character of the south Indian epic silapathikaram. Legend has it that Kannagi took revenge on the king of Madurai for a mistaken death penalty imposed on her husband Kovalan by cursing the city with disaster.

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Kannagi statue is a statue at the Marina beach, Chennai. It is located at the Intersection of Bharathi Salai and Kamarajar promenade. On Jan, 2 1968 it was erected as Kannagi holding an anklet in her hand and demanding justice.

In 1967 Pravida Munnetra Kazhagam conducted second world Tamil conference in Jan 1968, Chennai. As part of the conference the statues of the ten Tamil icons who associated with the history of Tamil literature were erected on the Marina beach.

This include 10 foot bronze statue of Kannagi a female protagonist character in the Silapathikaram, one of the five great epics of Tamil literature.


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Marina Beach

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Sir Mountstuart Grant Duff, the then governor of Madras from 1881 to 1886, was highly captivated with the wonderful beach and built a promenade along the beach which was open to the public in 1884. It was layered with soft sand and named as the Madras Marina. It had served as the meeting place for the freedom fighters

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before independence. India's first aquarium was built in the Marina beach in 1909.

Numerous events like Independence Day, Republic Day, Ganesh chaturthi and Chennai Marathon are held at renowned beach.

The major crowd can be seen in Kaanum Pongal. It has also been the venue for major protests like the "Jalikaattu protest" in 2017 and historical campaigns like the My leader campaign launched in 2016.

There is no entry fees to be paid to visit the beach and can be visited anytime. November to February is the most preferred time period to visit the Chennai to avoid the scorching heat. Being a metropolitan city, Chennai is accessible through all the means of transportation including air, water & land.



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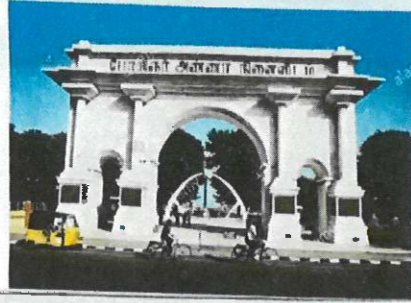


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Anna Memorial

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Anna Memorial locally known as Anna Samadhi, is a memorial structure built on the Marina beach in Chennai, India. It was built in memory of former chief Minister of Tamil Nadu, C.N. Annadurai (1967-69) who was cremated here in 1989. The memorial lies on the northern end of the Marina abutting the MGR and Jayalitha Memorial.

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In 1996-1998 during DMK regime, the Anna Memorial was remodelled at the cost of ₹ 27.5 million and the entrance arch carried the design of "Rising Sun" the symbol of DMK party. The design was removed after the AIADMK party returned to power in May 2001. The renovation resulted to power in ~~the~~ T-shaped entrance arch giving way to a highly polished marble tiled structure, widened pathways, and building of ornamental octagonal mantapams. After the Indian Ocean tsunami struck the coastal parts of the state in December 2004, the memorial affeted, repair works were undertaken at a cost of ₹ 13.3 million.

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Namma Chennai.

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Namma Chennai - The selfie spot that is being opened for public. It is opened ahead of pongal celebrations in the city according to senior corporation officials.

The word "namma Chennai" will stand on a three foot pedestal, towering about 10 feet in height. The typography has been made at a cost of Rs. 22 lakhs.

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The typography at the selfie spot will be accompanied by other arrangements around it including seating area opposite the structure. These are being made at an estimated cost Rs. 30 lakh.

The structure located in the opposite of Queen Mary's college with the words Namma Chennai in a combination of Tamil and English.

They are looking to create another landmark on the beach that will resonate with both city residents especially the young and also tourists to the city who never fail to visit Marina beach, said another corporation official. The structure also help in encouraging a sense of ownership towards the city and build civic responsibility the official added.



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DEPARTMENT OF COMMERCE (SHIFT II)

REPORT ON EVS PROJECT

Environmental Studies has been an integral part of college education in one form or the other. At present the concept, issues, and problems related to environment are either integrated with different disciplines or introduced as a subject. The aim of E.V.S (environmental studies) is to develop awareness of and concerned about the environment and its associated problems and which has the knowledge, Skills, attitudes, motivations.

OBJECTIVE

- ❖ To help students to acquire awareness and sensitively of environment and it's allied problems.
- ❖ Gain a variety of experiences and acquire a basic understanding of environment and its associated problems.
- ❖ Acquire a set of values and feelings of concern for environment.
- ❖ To provide an opportunity to be actively involved at all levels in working towards the resolution of environmental problems.

In view of this, the department assigned EVS projects on in the form of report writing and project submission to the students of II B.COM A. The students were instructed to visit the places related to their topic through virtual mode as part of EVS project. The students submitted their Project works through Google Classroom.

Outcome:


- ❖ The students learned the eco-friendly measures to protect the environment.
- ❖ The students were able to observe, discuss, explain, experiment through interaction with immediate surroundings.


Ms. M.Devaki

Faculty Incharge


Prof. S. Seshadrinathan

Head of The Department


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In view of this, the department assigned EVS projects on in the form of report writing and project submission to the students of II B.COM B. The students were instructed to visit the places related to their topic through virtual mode as part of EVS project. The students submitted their Project works through Google Classroom.

Outcome:


- ❖ The students learned the eco-friendly measures to protect the environment.
- ❖ The students were able to observe, discuss, explain, experiment through interaction with immediate surroundings.


Ms. G. Ramya

Faculty Incharge


Prof. S. Seshadrinathan

Head of The Department


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- ❖ To provide an opportunity to be actively involved at all levels in working towards the resolution of environmental problems.

In view of this, the department assigned EVS projects on in the form of report writing and project submission to the students of II B.COM C. The students were instructed to visit the places related to their topic through virtual mode as part of EVS project. The students submitted their Project works through Google Classroom.

Outcome:

- ❖ The students learned the eco-friendly measures to protect the environment.
- ❖ The students were able to observe, discuss, explain, experiment through interaction with immediate surroundings.

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Dr.L.N. Jayanthi

Faculty Incharge

S. Seshadrinathan

Prof. S. Seshadrinathan

Head of The Department

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REPORT ON EVS PROJECT

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- ❖ Gain a variety of experiences and acquire a basic understanding of environment and its associated problems.
- ❖ Acquire a set of values and feelings of concern for environment.
- ❖ To provide an opportunity to be actively involved at all levels in working towards the resolution of environmental problems.

In view of this, the department assigned EVS projects on in the form of report writing and project submission to the students of II B.COM D. The students were instructed to visit the places related to their topic through virtual mode as part of EVS project. The students submitted their Project works through Google Classroom.

Outcome:

- ❖ The students learned the eco-friendly measures to protect the environment.
- ❖ The students were able to observe, discuss, explain, experiment through interaction with immediate surroundings.

Ms. N. Subhashree

Ms. N. Subhashree

Faculty Incharge

Prof. S. Seshadrinathan

Prof. S. Seshadrinathan

Head of The Department

Principal

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4	19E0504	UTHAYA KUMAR K
5	19E0505	LAKSHMI NARASIMMAN K
6	19E0506	MADHAVAN K
7	19E0508	VAMSI KRISHNA R
8	19E0510	RAHUL S
9	19E0511	PAVITHRA M
10	19E0512	NITEESH BALAAJI S
11	19E0513	PREM SAI V
12	19E0514	RISHAB V
13	19E0515	CHINNADURAI M
14	19E0516	SRINIDHI S
15	19E0518	ABITHA S
16	19E0519	ASHOK V
17	19E0520	RAM NARAYANAN A
18	19E0521	SUSHANTH M
19	19E0522	KAMALESH R
20	19E0523	HARIMURUGAN V
21	19E0524	ANSHU MISHRA D
22	19E0525	KISHORE K
23	19E0526	ROHITH S
24	19E0527	HARSH BAGRI
25	19E0529	RAHUL R D
26	19E0530	YASHVANTH M S
27	19E0531	KAMAL VIKRAM R
28	19E0532	JENALD MIRACLE J
29	19E0533	MAGESH T
30	19E0534	ELAVARASI E
31	19E0535	VASANTHA KRISHNA H
32	19E0536	HARSH MEHTA S
33	19E0537	KUSHAL GANDHI P
34	19E0538	VISWANATHAN V
35	19E0539	ABISHEK S
36	19E0540	MUTHUSREENIVAS PRABHAKAR
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40	19E0544	VEDANT M DAVEY
41	19E0545	CHAINCY
42	19E0546	PRAVEEN KUMAR S
43	19E0547	KAWIN PRABHU K
44	19E0548	ROHAN SURJAN
45	19E0549	DINESH E
46	19E0550	CHETHAN PRASAAD S
47	19E0551	KALAIARASAN D
48	19E0552	SNEHA S
49	19E0553	BALASUBRAMANIAN A
50	19E0554	SARATH KUMAR S
51	19E0555	KARTHIKEYAN S
52	19E0556	SHASWATH A
53	19E0557	OM PRAKASH S
54	19E0558	HARSH KRISHNA PANDEY
55	19E0559	SRIHARI C
56	19E0560	VASANTH A
57	19E0561	PRIYA DHARSHINI J
58	19E0562	KARTHICK SRIVATSA V
59	19E0563	SURYA PRAKASH PRAJAPAT
60	19E0564	KARTHIKEYAN S
61	19E0566	PUSHPARAJ J K
62	19E0567	BALU NAVEEN
63	19E0568	SWATHI B
64	19E0569	BHARANI DHARAN P
65	19E0570	HARRISH R
66	19E0571	SATHISHKUMAR M
67	19E0572	VAIBHAAV D
68	19E0573	TINU GLEN G
69	19E0574	ARVIND R
70	19E0575	PRAKALYA B S
71	19E0576	SANJAY A
72	19E0577	VIKASH RAJ P S
73	19E0578	HARSHINIE M
74	19E0579	THUSHAL ARVIND V
75	19E0580	DEV S JAIN
76	19E0581	MALAVIKA C ARVIND
77	19E0601	SWETHA R
78	19E0602	NAVEEN BALAJI M
79	19E0603	MADHUMITHA N

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84	19E0611	ARIHANT M
85	19E0613	SOURABH KUMAR JAIN P
86	19E0615	SIDDHARTH S N
87	19E0616	NEHUL JAIN
88	19E0617	AARTHI M
89	19E0618	PRIYANKA G
90	19E0619	PREETHI S
91	19E0621	SAMUEL JONES K
92	19E0623	MUKUND MASKARA
93	19E0624	SUNIL CHOUDHARY S
94	19E0625	NANDA KUMAR S
95	19E0626	NAVEEN D
96	19E0627	THRISWANTH KUMAR J
97	19E0628	RAKSHANA S
98	19E0629	SIDDARTH JAIN
99	19E0630	CHANDRAN R G
100	19E0632	ARVIND SRINIVAS J
101	19E0633	LOKESH R
102	19E0634	BARGAV P
103	19E0635	MANOJ KUMAR V S
104	19E0636	PRATEEK P
105	19E0637	KARTHICK S
106	19E0638	HARSHIT V
107	19E0640	SHALINI G
108	19E0642	YUVASHREE S
109	19E0643	SREENATH P K
110	19E0644	NIKASH S P
111	19E0645	DEEPISALA M
112	19E0647	SAI SAGANNA P
113	19E0648	CHOCKALINGAM M
114	19E0649	MOHAMMED ANSAR S
115	19E0650	AKASH K
116	19E0651	JAWAHAR S
117	19E0652	SUDHARSHANAM K S
118	19E0653	SATHISH KUMAR D
119	19E0654	SURYA H
120	19E0655	ARIHANT N
121	19E0656	ARUNKUMAR G

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123	19E0658	HIMANSHU DUGAR
124	19E0660	KARTHIK M S
125	19E0661	PAKSHAL H JAIN
126	19E0662	BARATH B
127	19E0663	SANTHOSH KUMAR D
128	19E0664	SHREYANSH H
129	19E0665	HARI KRISHNAN M
130	19E0666	KIRUTHIKA R
131	19E0667	AADHITHIYAN L
132	19E0668	SAI HARSHINI J
133	19E0670	MOHAMMED NAVEED M
134	19E0671	SAMSUNDER S
135	19E0672	SREE SARAN S
136	19E0673	SAISANDEEP M
137	19E0675	NAVI VARSHAN S
138	19E0676	SUNDARESWARAN H
139	19E0677	AVINASH KUMAR M
140	19E0678	HEMKUMAR D
141	19E0679	SARVESH R
142	19E0680	MANASAA M
143	19E0681	PARTHIBAN R
144	19E0682	HARIHAREN V
145	19E0683	ROHITH PURI GOSWAMI G
146	19E0684	PRIYANKA S
147	19E0702	ARIVOLI M
148	19E0703	PERIYAKARUPPAN I
149	19E0704	SHRIRAM M
150	19E0705	HAREESKUMAR T R
151	19E0706	KRITHIKA S
152	19E0707	NIVAS SHANKAR K
153	19E0708	VENKATA SUBRAMANIAM K
154	19E0710	AKSHAY G S
155	19E0711	LOGESH K
156	19E0712	PRITESH BAFNA K
157	19E0713	PRATHAM MITTAL
158	19E0714	RESHMA S
159	19E0715	GAURAV BHATERA
160	19E0716	RAKSHAK VENKATESH PS
161	19E0717	MAHALAKSHMI C
162	19E0718	GAURAV T CHAUHAN
163	19E0719	SAIRAM S P

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164	19E0720	JEYSURYA S
165	19E0721	MUTHU SURIYA R
166	19E0724	LALITH J
167	19E0725	HARINI G
168	19E0726	AKASH S
169	19E0727	VIJAY BALAJI P
170	19E0728	VISHAL KATARIA D
171	19E0729	ARUNACHALAM S
172	19E0730	RAKSHIT S
173	19E0731	VINOTHITHA Y
174	19E0732	VISHWAK S
175	19E0733	KAILASH D
176	19E0734	CHIRAAG BOTHRA
177	19E0735	AGASH S
178	19E0736	MONICA M
179	19E0737	MONISHA N
180	19E0738	PRATHIKSHA C R
181	19E0739	PREETHI G
182	19E0740	SURESH V S
183	19E0741	THARUN P C
184	19E0742	DARSHAN B
185	19E0743	GOWTHAM B R
186	19E0744	MANOJ R
187	19E0745	BHUVANESH KUMAR R K
188	19E0746	KEERTHANA V
189	19E0748	SATHISH KUMAR A
190	19E0749	HARIPRIYA S
191	19E0750	SAISANJAY K
192	19E0751	SIVA RAM S
193	19E0752	VINODHKUMAR S
194	19E0753	YASHWANTH R
195	19E0754	IYYANAR P
196	19E0755	SURYA K
197	19E0756	KANISHKAR A
198	19E0757	NIRMAL R
199	19E0758	ADITHYA K VORA
200	19E0759	SNEHA N
201	19E0760	RAMKUMAR S
202	19E0761	KARAN KUMAR B
203	19E0763	DEEPIKA M
204	19E0764	ARVIND D
205	19E0765	KUSHAL

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206	19E0766	YUKESH S
207	19E0767	DINESH KUMAR S
208	19E0768	PRABHAKAR A
209	19E0770	MADHAVAN C
210	19E0771	RAKSHITH N D
211	19E0772	DHIPRAJ R
212	19E0773	BALAMURUGAN J
213	19E0774	SAIRAM S
214	19E0775	GOWTHAM S
215	19E0776	AKASH S
216	19E0777	PRATHAM JAIN
217	19E0779	ARUN V
218	19E0780	SASHIDHAR A R
219	19E0781	ABISHEK B
220	19E0782	KARTHIKEYAN J
221	19E0783	NITHISH KUMAR M
222	19E0802	DARSHIT R SHAH
223	19E0803	YOGESH V
224	19E0805	SETHURAMAN A
225	19E0806	DEEPIKA A
226	19E0807	VIKRAM K
227	19E0808	GAGAN K
228	19E0809	ABHISHEK V
229	19E0811	KISHORE G
230	19E0814	BHARATHWAJ S
231	19E0816	LOKESHWARAN S
232	19E0817	PRIYADHARSHINI S
233	19E0818	JAY PRATAP SINGH GEHLOT
234	19E0819	RAKSHITHA VAB
235	19E0820	RAGHUL S
236	19E0821	DEEPIKA P
237	19E0822	KHUSHWANT K
238	19E0823	HARSITH U
239	19E0824	KARAN V
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241	19E0827	SHRI SHERISHA U
242	19E0828	NAVEEN KUMAR M
243	19E0829	AADARSH G S
244	19E0830	GOWTHAM RAJ H
245	19E0831	SANDHIYA S
246	19E0833	NEERAJ N
247	19E0835	SHREYANS

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248	19E0836	KARTHI V S
249	19E0837	GOKUL S
250	19E0838	SAI CHARAN P
251	19E0839	KEERTHANA S
252	19E0840	GOKUL U
253	19E0841	RAJINIKANTH PANDEY H
254	19E0842	KRUTARTH S SONI
255	19E0843	SIVA TEJA Y
256	19E0844	REHAN JAIN H
257	19E0845	SHYAM M
258	19E0847	ESHWAR UPADHAY M
259	19E0848	DHANUSH KUMAR R
260	19E0849	KISHORE KUMAR K
261	19E0850	MANIKANDAN R
262	19E0851	NIDHIN S
263	19E0852	BHARATH WAJ R
264	19E0853	SUMANTH S
265	19E0854	KAMALESH R D
266	19E0856	RAMKUMAR I
267	19E0858	VINIT J SHAH
268	19E0859	HARIHARAPADMANABAN M
269	19E0861	NITESH SINGH R
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271	19E0864	YASH H
272	19E0865	CHANDRAKALA
273	19E0867	ANKUSH PATAWARI
274	19E0869	KIRTHANA R
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276	19E0871	ISAI A K
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278	19E0873	MRITHYUNJAI B
279	19E0874	AKASH G K
280	19E0875	JINESH L JAIN
281	19E0876	YOGESH T V
282	19E0877	RAHOOL B
283	19E0878	DILIP KUMAR V
284	19E0879	HEMANTH KUMAR C K
285	19E0880	SUBHANKAR V
286	19E0881	VENKATESH
287	19E0882	NIKESH J



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DEPARTMENT OF COMMERCE (SHIFT II)


ENVIRONMENTAL STUDIES-PROJECT WORK


RAIN WATER HARVESTING

Rainwater harvesting (RWH) is the collection and storage of rain, rather than allowing it to run off. Rainwater is collected from a roof-like surface and redirected to a tank, cistern, deep pit (well, shaft, or borehole), aquifer, or a reservoir with percolation, so that it seeps down and restores the ground water. Dew and fog can also be collected with nets or other tools. Rainwater harvesting differs from stormwater harvesting as the runoff is collected from roofs, rather than creeks, drains, roads, or any other land surfaces. Its uses include watering gardens, livestock, irrigation, domestic use with proper treatment, and domestic heating. The harvested water can also be committed to longer-term storage or groundwater recharge.

Rainwater harvesting is one of the simplest and oldest methods of self-supply of water for households, and residential and household-scale projects, usually financed by the user. However, larger systems for schools, hospitals, and other facilities can run up costs only able to be financed by owners, organizations, and governmental units.






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Importance of Rainwater Harvesting

1. Rainwater harvesting or the collection of rainwater in a proper way, **can be a permanent solution to the problem of water crisis in different parts of the world.** This simple method can put forward a solution which will be workable in areas where there is sufficient rain but the groundwater supply is not sufficient on the one hand and on the other surface water resource is insufficient. This is particularly applicable in hilly areas where it can be utilized for human consumption, by animals and also for farming. In remote areas, where surface pollution is comparatively low, rainwater harvesting is ideal.
2. Although the earth is three-fourths water; **very little of it is suitable for human consumption or agriculture.** Rainfall is unpredictable and there is a constant shortage of water in countries which are agriculture dependent or generally drought prone.
3. A bad monsoon means low crop yield and shortage of food. Even animals suffer from scarcity of water. Africa and the Indian subcontinent face acute water crisis during the summer months. The farmers are the most affected because they do not get sufficient water for their fields. Rainwater harvesting therefore is an **ideal solution for farmers who depend on monsoon for consistent water supply.**
4. **Unavailability of clean water compels the consumption of polluted water, giving rise to water-borne diseases** and high rate of infant mortality. In recent studies it has been observed that in Lima (Peru) nearly 2 million people do not have access to any water supply and those who do have access get water supply which has a high possibility of being contaminated. It has been reported that the water crisis in some parts of Honduras is so severe that the municipal corporation of those areas cannot supply enough water even to those residents who have municipal water supply connection. This has been reported by Anna Kajumuto Tibaijuka, Under-secretary General, UNED UN-Habitat.
5. If rain water, which comes for free, can be collected and stored, instead of letting it run off, it could be an **alternative to back up the main water supply especially during dry spells.**


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Its importance will not be limited to an individual family but can be used by a community as well. Systematic rainwater harvesting can help in irrigation with minimum use of technology and is therefore cost effective. This simple method can help farmers to prevent their crops from drying due to lack of water. It also creates a sense of social responsibility and awareness about the environment.

6. **The importance of rainwater harvesting lies in the fact that it can be stored for future use.** Just as it can be used directly so also the stored water can be utilized to revitalize the ground level water and improve its quality. This also helps to raise the level of ground water which then can be easily accessible. When fed into the ground level wells and tube well are prevented from drying up. This increases soil fertility. Harvesting rainwater checks surface runoff of water and reduces soil erosion.


7. In areas having sparse and irregular rainfall, scarcity of water is a persistent problem. It cannot be completely resolved but can be mitigated through rain water harvesting. Rainwater harvesting is an ideal solution to water problems in regions which receive inconsistent rainfall throughout the year.

Methods of Rainwater Harvesting

The most common methods for rainwater harvesting are:

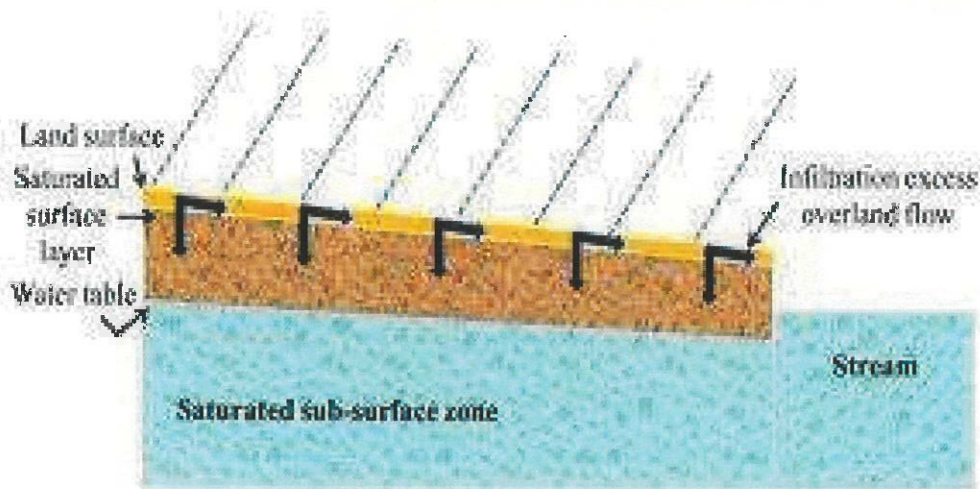
1. Surface runoff harvesting

Surface runoff harvesting is most suitable in urban areas. Here rain water flows away as surface runoff and can be stored for future use. Surface runoff rain water in ponds, tanks and reservoirs built for this purpose. This can provide water for farming, for cattle and also for general domestic use. Without sufficient water health and hygiene are severely affected. This adds to the environmental pollution. Surface water can be stored by redirecting the flow of small creeks and streams into reservoirs on the surface or underground.


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Surface run-off rainwater harvesting




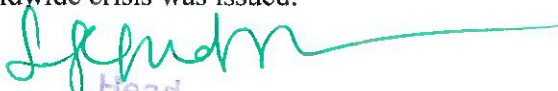
2. Roof top rain water harvesting

For this the first requirement is to intercept the rainwater to flow towards a definite direction. The water should reach a bucket or a tank through pipes made from wood or bamboo. In urban areas pvc pipes can be used. The rain water can be directly collected by keeping a bucket or container beneath the roof. The first flow of rain water will usually carry with it dust particles, leaves, insects and bird droppings. So it is best to use a detachable downpipe to divert the first rain water.

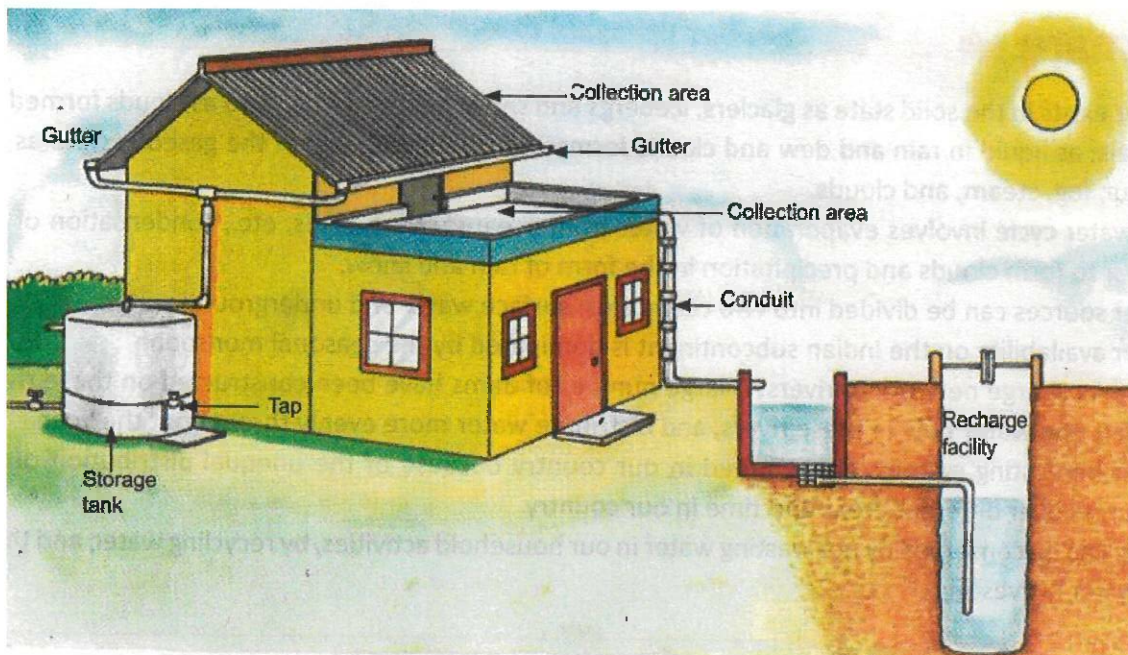
Recharge pits can be constructed to hold rain water. These can be of any shape or size, depending upon the amount of rain the area receives. These pits need to be filled with, boulders, gravels and coarse sand, which will act as a filter for the impurities that are carried along with the first flow of water. Roof top rain water can be harvested through existing tube wells. In areas where the aquifer that holds the ground water has dried up, tubewells source deeper into the soil for water. Roof top rain water harvesting can be done through these dried up tubewells to rehydrate the dried subsoil water level.

As man became more and more dependent on technology, he moved away from nature and perhaps ignored the value of natural resources. In his march towards power, he forgot to save the precious water which is another name for life. Probably because most of the natural resources come for free we fail to how precious it is until a worldwide crisis was issued.


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It is our unfriendly attitude towards nature that has polluted water-bodies and left them unfit for any use. Natural resources come in abundance but they cannot be produced in our workshops. Today most of the countries of the world are facing the scarcity of water and are taking up rainwater harvesting for the dire necessity of survival. So the seriousness of the issue has been realized the seriousness and efforts to overcome this problem has been initiated.




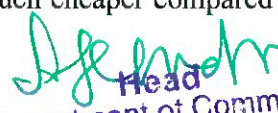
Advantages of Rainwater Harvesting

In both urban and rural settings, harvesting can be done by the use of infrastructure. One of the simplest ways of storing water from the collection is storage tanks. In most cases, the harvested water is usually redirected to storage tanks, cisterns, or reservoirs. The water is usually stored for later use. The roof of buildings is the best way to harvest rainwater. There are numerous advantages in doing so.

1. Easy to Maintain

The use of rainwater harvesting system provides ideal merits to any community. First and foremost, the collection offers a better and efficient utilisation of energy resource. It is important because potable water is usually not renewable, thus reducing wastage. The systems used for water collection is based on simple techniques that are very easy to maintain. The overall expenses used in setting up harvesting methods are much cheaper compared to other


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purifying or pumping means. Also, its maintenance is feasible on the economic front as it does not require deep pockets.

2. Reducing Water Bills

Water that has been stored from harvesting water can be used for several non-drinking purposes. It will immediately reduce one's utility bills. It is ideal for both residential and commercial properties.

3. Suitable for Irrigation

Harvesting allows the collection of large amounts of water. Most rooftops provide the necessary platform for collecting water. Rainwater is usually free from harmful chemicals, which makes it ideal for irrigation purposes.

4. Reduce demand on Ground Water

Another important advantage is that it reduces demand for potable water. It is important especially in areas with low water levels.

Disadvantages Of Rain Water Harvesting


Alongside the array of advantages, this technique also proposes a set of drawbacks:

1. Erratic Rainfall – The volume of rainfall is tough to predict. Sometimes little, sometimes no rainfall can limit the supply of rainwater, hence depending on this resource alone is not possible.

2. Not Suitable For All Areas – This technique is suitable only for the areas that receive plenty of rainfall

3. High Investment – Depending on the system's size and technology level, a rainwater harvesting system may cost anywhere between \$200 to \$2000. Give the huge investment cost it may be not payback if you are not being able to use the set up in case of erratic or scarce rainfall.

3. High Maintenance – Regular maintenance cost is another drawback. These harvesting systems are prone to rodents, mosquitoes, algae growth, insects and lizards hence demand high


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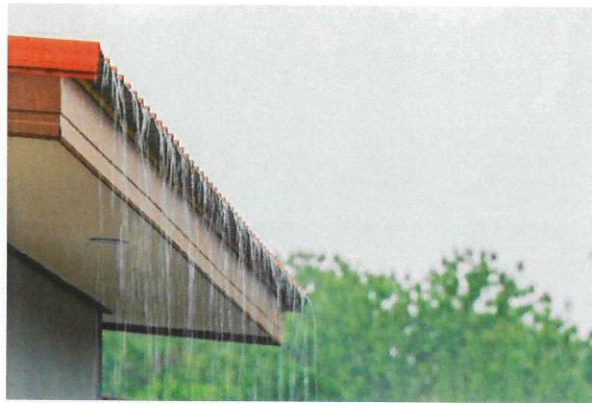

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maintenance. If ignored or maintained poorly they can become a breeding ground for many animals and insects – ultimately inviting additional problems.

4. Storage Limits – The collection facilities may impose some kind of restrictions on the quantity of rainwater you may be able to use. In case of heavy rainfall, the collection system may not be able to hold all the rainwater ultimately the water goes to drains or rivers.

How Much Rainwater Can Be Harvested?

Explained below is an illustrative theoretical calculation that explains the massive potential for rain water harvesting. This same procedure can be used to get the potential for any plot of land or roof top area, using rainfall data for a particular area.



For example, consider the area of the plot as 100 sq.m. The average annual rainfall in Chennai is approximately 44 inches or 1100 mm.


Area of plot = 100 sq.m.

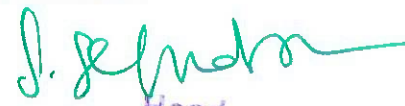
Height of rainfall = 1.1 m (1100 mm or 44 inches)

Total volume of rainfall over the area of plot = Area of plot X Height of rainfall =
100 sq.m. x 1.1 m = 110 cu.m. (1,10,000 litres)

Assuming that only 60 percent of the total rainfall is effectually harvested, the volume of water harvested = 66,000 litres.


This volume is about 4 times the annual drinking water requirement of a 5-member family. The average daily water requirement per person is 10 litres according to IS 1172: Indian Standard Code of Basic Requirements for Water Supply, Drainage and Sanitation.



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Conclusion:

Erratic monsoon rains, sudden and heavy downpours result in flash floods and capacious flow in the rivers. Even when many parts of our country have little or no water, we have to let the rain water flow into the sea. Women in the village walk miles to fetch a pot of potable water while city residents lose sleep and time waiting in serpentine queues for a bucket of water. Now since natural resources (like rain water) are free of cost modern human beings need to realize its value and find ways to save it. Green living with modern water-saving technologies and lifestyle is also catching on. Our world is reeling under an extreme water crisis, cities and communities would need to become more aware of rainwater harvesting, storing, and most importantly – wisely using water. Access to sufficient clean water is everyone's right, let's pledge to save water as it could save several lives in the future.


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DEPARTMENT OF COMMERCE (SHIFT II)

ENVIRONMENTAL STUDIES (PROJECT WORK)

PLASTIC FREE ENVIRONMENT



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Plastic pollution is caused due to the accumulation of the waste plastic material in the environment. Plastic is a non bio-degradable substance. It doesn't get disposed off in the soil or water and its effect is worse when burnt. It is thus a challenge to dispose it off. It remains in the environment for hundreds of years and causes air, water and land pollution. It is hazardous for the humans, animals as well as the plants. Several animals, birds and marine creatures die due to plastic pollution each year. Plastic plates, bags, spoons, glasses and other material are readily available in the market. These are economical and easy to use. People prefer using these use-and-throw utensils during gatherings and parties as it shuns the hassle of clearing and cleaning the utensils later. All they need to do is to gather these and throw them away. However, little do they realize that this waste is not disposed off so easily.

It continues to remain in the environment and harm us adversely.

Not just plastic utensils and carry bags, furniture and various other things made out of plastic are also used extensively world over. It is high time we must realize the harmful effects of plastic pollution and contribute our bit towards bringing it down. Ways to Beat Plastic Pollution.

SIMPLE WAYS TO LOWER PLASTIC POLLUTION THAT WE CAN PRACTICE IN OUR DAILY LIFE:

1. Avoid Usage/ Look for Alternatives:

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The first and the most important step towards beating plastic pollution is to avoid the usage of plastic products. Now, since we have grown quite accustomed to using plastic products and these are light on our pocket, we cannot avoid their usage completely. However, we can certainly avoid using those plastic products that can easily be replaced with eco-friendly alternatives. For instance, instead of using plastic bags, we can easily opt for a jute, cloth or paper bag when we head for shopping. Likewise, instead of using disposable plastic cutlery and utensils during parties we can use those made of steel, paper, thermocol or any other material which is reusable or easy to dispose.

2.Reusable straws, spoons, cups and plates:

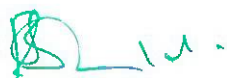
Instead of using plastic straws, spoons, cups and plates, carry and use your own stainless-steel straws and spoons, paper cups and paper plates or other reusable products whenever you eat outside.

3.Carry reusable bottles: Plastic bottles take 450-1000 years to decompose and 1 million plastic drinking bottles are purchased every minute around the world. Now, imagine the number of water bottles that must have been discarded every day. So, carry glass or stainless-steel bottles instead of purchasing water bottles every time you need drinking water.

4.Carry Bags: Carrying your own canvas and reusable carry bags made of cotton, jute, hemp, nylon and leather are best alternatives to plastic shopping bags. Most of these bags are light weight, customizable with your own designs and easy to carry wherever you travel.

5.Pre-cycle and recycle: Learning the basic knowledge of pre-cycle and recycle processes of waste management will certainly help us in fighting plastic pollution as our daily waste also contribute a large amount in plastic pollution. Pre-cycling is the practice of determining the right number of products that are essential and products that comes in plastic packages, and finding ways to avoid them or at least minimize them. It's about making the best decisions from the choices that are available to us such as picking up vegetables from local farmers market carrying our own reusable bag, buying milk in glass or stainless-steel bottles, carrying canvas tote bags while shopping instead of expecting plastic bags from stores and vendors, etc.





















6.Get involved: On top of avoiding plastic products ourselves, we should also try to spread the awareness to our friends, family, neighborhood and society for a larger impact. We need to create online forums, awareness campaigns in the neighborhood, activities in community spaces and workplaces to bring in more people.



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Use THIS	Not THAT	Use THIS	Not THAT
Reusable Cloth Totes 	Plastic Shopping Bags 	Beeswax Wrap 	Cellophane Wrap 
Reusable Drinking Container 	Plastic Water Bottles 	Glass Refillable Containers 	Plastic Drink Jugs/Containers 
Metal Drinking Straws 	Plastic Drinking Straws 	Cardboard Case 	Plastic 6 pack Rings 
Metal Utensils 	Plastic Utensils 	Microfiber/Microplastic Lint Filter 	Nylons As Lint Trap 
Natural Fabrics 	Synthetic Fabrics 	Metal Razor With Replaceable Blades 	Plastic Razors 

Stop plastic pollution at the source.

We all know the phrase reduce, reuse, recycle, and it's common knowledge that these steps are generally good for the environment. What you might not know is that the order of those words has meaning as well. The words are in order of greatest impact in lowering your carbon footprint, reduce being the most important. If you want to reduce the harmful effects of plastic pollution, follow the hierarchy of steps and tips below.



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The first step; reduce.

The most effective way to reduce plastic pollution is to not create plastics in the first place. Reduce and refuse! Sure, it's great to recycle a plastic water bottle after you are done with it. But it's MUCH better to never use it in the first place, eliminating the extraction of materials from the earth, energy used to manufacture it, and fuels to transport it to wherever it will be sold. Each child who brings non-reusable bags for lunch to school every day generates 67 pounds of waste each year. Try to keep this most important step in mind every day!

You might be surprised on how little thought you devote to your plastic use. The straw in your water at a sit-down restaurant, your deodorant tube, extra plastic bags for your produce, and even the plastic wrap your sandwich comes in can be avoided with enough planning, or simply just asking to skip the plastic packaging. Also be aware of hidden plastics you can avoid, such as microbeads in facewash! You can also reduce your plastic usage by simply buying bulk! Instead of needing two bottles of shampoo a month, buy a larger bottle and reduce the overall packaging by only purchasing one.

Be mindful of what you are using and where it is going after you are finished with it, and look for products that use less packaging. Voting with your wallet by picking products that utilize less plastic encourages manufacturers to follow the dollars and reduce their plastic use. This is your power as a consumer.



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The second step; reuse.

If you are like most people, it's difficult to make it through your day without acquiring some form of plastic! That's where reuse comes in. Once the plastic is in your possession, it is your chance to be creative and find different usages for it. Reuse plastic produce bags for sandwiches, plastic grocery bags for small trash bags, and re-use your plastic silverware! If you can't find a use for something, donate it! Not only will you be reducing waste, you'll be helping others. Most people skip this step and go directly to recycling, but reusing plastics can reduce the demand for new plastics to be created.



The last step, recycle.

After you have reused your plastic as many times as you can and are ready to dispose of it, choose the recycling container instead of the trash. Recycling plastic takes less energy than making plastic from raw materials. Sure it can be a hassle to clean your peanut butter jar to recycle it rather than tossing it in the trash, but the impact is vastly different and the choice is yours.

At this time, plastic is a fact of modern life, as is pollution derived from it. However, with a little planning, commitment, and effort, it's easy to make steps towards reducing your carbon footprint. Remember that the biggest impact is made by avoiding plastics in the first place, if that can't be done reuse and recycling are the next best steps! Be conscious of the amount of plastic material you are using, and try to replace plastic with something more sustainable whenever possible. Reuse any plastic that you have already acquired, and recycle used plastic to keep it out of the waste stream and reduce demand for new plastic. Enough people taking these simple steps can help reduce plastic pollution and keep our planet clean and healthy for future generations.

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Reduce, Reuse Recycle.

What can be recycled?

One Container. One Recycling Solution.

Cans Crisp cans, tomato food cans, aluminium trays and foil etc.	
Plastics Plastic bottles, cups, milk cartons, household packaging etc.	
Paper Pico paper, newspapers, magazines, wrapping paper etc.	
Glass Glass bottles, jars, drink and food jars, etc.	
Cardboard Boxes, newspaper packaging, cartons, food boxes etc.	
Not Suitable for recycling Food, oil, paint, aerosols etc.	

Please Note: All waste must be emptied of its contents before disposal.

Call recycling teams

Biffa

Impact of Plastic Pollution

- Plastic Pollution is affecting the whole earth, including mankind, wildlife, and aquatic life. It is spreading like a disease which has no cure. We all must realize the harmful impact it has on our lives so as to avert it as soon as possible.
- Plastic pollutes our water. Each year, tonnes of plastic are dumped into the ocean. As plastic does not dissolve, it remains in the water thereby hampering its purity. This means we won't be left with clean water in the coming years.



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- Furthermore, plastic pollutes our land as well. When humans dump Plastic waste into landfills, the soil gets damaged. It ruins the fertility of the soil. In addition to this, various **disease-carrying insects** collect in that area, causing deadly illnesses. Most importantly, plastic pollution harms the **Marine life**.
- The plastic litter in the water is mistaken for food by the aquatic animals. They eat it and die eventually. For instance, a dolphin died due to a plastic ring stuck in its mouth. It couldn't open its mouth due to that and died of starvation. Thus, we see how innocent animals are dying because of plastic pollution.



CONCLUSION:

In short, we see how plastic pollution is ruining everyone's life on earth. We must take major steps to prevent it. We must use alternatives like cloth bags and paper bags instead of plastic bags. If we are purchasing plastic, we must reuse it. We must avoid **drinking bottled water** which contributes largely to plastic pollution. The government must put a plastic ban on the use of plastic. All this can prevent plastic pollution to a large extent.

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