



**RAMAKRISHNA SARADA MISSION  
VIVEKANANDA VIDYABHAVAN  
33, SRI MAA SARADA SARANI  
DUM DUM, KOLKATA-700055**

Phone : 2551-3452 (College)  
2551-3202 (Ashrama)

Date: 20.02.2023

To  
The Member Secretary  
Biodiversity Board  
West Bengal

Respected Sir

Ramakrishna Sarada Mission Vivekananda Vidyabhavan (founded 1961) ([www.rksmvv.ac.in](http://www.rksmvv.ac.in)) is a premier girls' college in Kolkata, built under the auspices of Sri Sarada Math. Situated in the heart of the modern urban South Dum Dum locality of Kolkata, RKSMVV is spread over thirteen acres of lush greenery. The expansive college campus, a rarity among city colleges, nurtures a miniature self-sustained ecosystem within the busy, bustling metropolis. The college has always focused on creating and maintaining a green and eco-friendly campus.

We would like to appeal to you to help us take forward our mission of providing a serene academic environment along with creating environmental consciousness through sensitization of our students. We were encouraged to find in your website that WBBB has included Awareness Generation among Students among its programmes, and would really appreciate if you could help us with the following activities initially:

- a) Marking the trees with Identification Tags. The RKSMVV campus hosts more than 700 trees, plants and shrubs within its boundaries.
- b) Creating a Medicinal Plant/ Herb Garden within the campus.

We look forward to your response.

Namashkar and Thank you

*P. Vedarupapana*  
Pravrajika Vedarupapana  
Principal  
Principal Ramakrishna Sarada Mission  
Vivekananda Vidyabhavan  
Ramakrishna Sarada Mission Vivekananda Vidyabhavan  
33, Sri Maa Sarada Sarani, DumDum, Kolkata- 700055  
Website- [www.rksmvv.ac.in](http://www.rksmvv.ac.in)  
Phone No. 8240795988



## WEST BENGAL BIODIVERSITY BOARD

(Department of Environment, Government of West Bengal)

Memo No.: 166 /4M (Bio) – 1/2019

Date: 02/03/2023

*From:* Dr. S. N. Ghosh  
Sr. Research Officer

*To:* Pravrajika Vedarupaprana  
Principal,  
Ramakrishan Sarada Mission Vivekananda Vidyabhavan,  
33, Sri Maa Sarada Sarani, Dum Dum, Kolkata – 700055

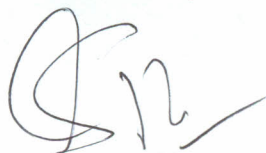
Respected Madam,

In response to your Email dtd. 20.02.2023, this is to convey that the Board is pleased to provide technical support for your great initiative in biodiversity conservation issue.

Discussion in this regard, face to face, and visit to the site would be convenient for this purpose.

With kind regards,

Yours faithfully,



(S. N. Ghosh)

Prani Sampad Bhawan (5<sup>th</sup> Floor), Block: LB-2, Sector: III, Salt Lake City,  
Kolkata- 700 106, West Bengal, India

Phone: 033 2335 2731/5954, Telefax: 033 2335 2763, Email: biodiversity.wbbb@gmail.com, biodiversity.wbbb@nic.in  
Website: www.wbbb.wb.gov.in



RAMAKRISHNA SARADA MISSION  
VIVEKANANDA VIDYABHAVAN  
33, SRI MAA SARADA SARANI  
DUM DUM, KOLKATA-700055

Phone : 2551-3452 (College)  
2551-3202 (Ashrama)

Date : 04.03.2023

To  
The Member Secretary  
Biodiversity Board  
West Bengal

Respected Sir

We are elated at your positive response to our email dated 20.02.2023.

We will be obliged if you kindly visit our college around 6<sup>th</sup> or 9th March for a discussion on the mentioned topic.

Namaskar and Thank you

*P. Vedarupapana*

Pravrajika Vedarupapana

*Principal*

Principal Ramakrishna Sarada Mission  
Vivekananda Vidyabhavan

Ramakrishna Sarada Mission Vivekananda Vidyabhavan

33, Sri Maa Sarada Sarani, Dumdum, Kolkata 55

[www.rksmvv.ac.in](http://www.rksmvv.ac.in)

8240795988



**WEST BENGAL BIODIVERSITY BOARD**  
(Department of Environment, Government of West Bengal)

Memo No.: 716/4M(Bio)/2019

Date: 20/08/2024

*From:* Dr. Anirban Roy  
Research Officer

*To:* The Principal  
Ramakrishna Sarada Mission Vivekananda Vidyabhavan,  
33, Sri Maa Sarada Sarani, Dum Dum, Kolkata – 700055

**Sub.:** Report on 'The Tree Diversity and Carbon Stock of Ramakrishna Sarada Mission Vivekananda Vidyabhavan campus'

Madam,

In reference to the letter (vide memo no. NIL dtd. 20.02.2023), I am directed to forward the report on 'The Tree Diversity and Carbon Stock of Ramakrishna Sarada Mission Vivekananda Vidyabhavan campus' which has been prepared through subsequent seasonal visits of the said college campus.

Thanking you,

Yours faithfully,

  
Research Officer

Encl. a/a.

**TREE DIVERSITY AND CARBON STOCK OF RKSMVV CAMPUS**

Sl. No.	SCIENTIFIC NAME	Tag No.	Wood Density (g/cm <sup>3</sup> )	RBH (cm)	Height (cm)	Volume (cm <sup>3</sup> )	AGB (g)	BGB (g)	TB (g)	Carbon Stock (g)	Carbon Stock (tonne)	Carbon Stock (tonne)/Sp.
1	<i>Holarrhena pubescens</i> Wall. & G.Don	1A	0.63	95.54	1230	35254777.07	22210509.55	5774732.484	27985242.04	13992621.02	13.99	13.99
2	<i>Neolamarckia cadamba</i> (Roxb.) Bosser	2A	0.48	87.58	1520	36608280.25	17571974.52	4568713.376	22140687.9	11070343.95	11.07	82.40
		2B	0.48	84.39	1930	43163773.89	20718611.46	5386838.981	26105450.45	13052725.22	13.05	
		2C	0.48	85.99	2090	48522611.46	23290853.5	6055621.911	29346475.41	14673237.71	14.67	
		2D	0.48	109.87	1780	67472770.70	32386929.94	8420601.783	40807531.72	20403765.86	20.40	
		2E	0.48	31.05	1760	5328343.95	2557605.096	664977.3248	3222582.42	1611291.21	1.61	
		2F	0.48	23.89	1150	2060111.46	988853.5032	257101.9108	1245955.414	622977.707	0.62	
		2G	0.48	65.29	1230	16462022.29	7901770.701	2054460.382	9956231.083	4978115.541	4.98	
		2H	0.48	19.11	1240	1421656.05	682394.9045	177422.6752	859817.5796	429908.7898	0.43	
		2I	0.48	97.13	1270	37624761.15	18059885.35	4695570.191	22755455.54	11377727.77	11.38	
		2J	0.48	23.89	1340	2400477.71	1152229.299	299579.6178	1451808.917	725904.4586	0.73	
		2K	0.48	12.74	1270	647133.76	310624.2038	80762.29299	391386.4968	195693.2484	0.20	
		2L	0.48	23.89	1730	3099124.20	1487579.618	386770.7006	1874350.318	937175.1592	0.94	
		2M	0.48	27.07	1190	2738136.94	1314305.732	341719.4904	1656025.223	828012.6115	0.83	
2O	0.48	25.48	2430	4952866.24	2377375.796	618117.707	2995493.503	1497746.752	1.50			
3	<i>Bauhinia purpurea</i> L.	3A	0.72	31.85	700	2229299.36	1605095.541	417324.8408	2022420.382	1011210.191	1.01	4.76
		3B	0.72	25.48	1740	3546496.82	2553477.707	663904.2038	3217381.911	1608690.955	1.61	
		3C	0.72	22.29	1220	1903821.66	1370751.592	356395.414	1727147.006	863573.5032	0.86	
		3D	0.72	25.48	1380	2812738.85	2025171.975	526544.7134	2551716.688	1275858.344	1.28	
4	<i>Khaya anthotheca</i> (Welw.) C.DC.	4A	0.52	22.29	2630	4104140.13	2134152.866	554879.7452	2689032.611	1344516.306	1.34	4.39
		4B	0.52	15.92	2350	1871019.11	972929.9363	252961.7834	1225891.72	612945.8599	0.61	
		4C	0.52	14.33	2690	1734792.99	902092.3567	234544.0127	1136636.369	568318.1847	0.57	
		4D	0.52	17.52	2240	2157961.78	1122140.127	291756.4331	1413896.561	706948.2803	0.71	
		4E	0.52	15.92	2960	2356687.90	1225477.707	318624.2038	1544101.911	772050.9554	0.77	
		4F	0.52	15.92	1490	1186305.73	616878.9809	160388.535	777267.5159	388633.758	0.39	
5	<i>Lagerstroemia speciosa</i> (L.) Pers.	5A	0.63	23.89	1950	3493232.48	2200736.465	572191.4809	2772927.946	1386463.973	1.39	6.49
		5B	0.63	20.70	1680	2260509.55	1424121.019	370271.465	1794392.484	897196.242	0.90	
		5C	0.63	11.15	1460	569585.99	358839.172	93298.18471	452137.3567	226068.6783	0.23	
		5D	0.63	49.36	1310	10023168.79	6314596.338	1641795.048	7956391.385	3978195.693	3.98	

*P. Vedarupapana*  
 Principal  
 Ramakrishna Sarada Mission  
 Vivekananda Vidyabhavan

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6	<i>Bombax ceiba</i> L.	6A	0.32	19.11	3100	3554140.13	1137324.841	295704.4586	1433029.299	716514.6497	0.72	0.72
7	<i>Ficus benghalensis</i> L.	7A	0.49	111.46	900	35111464.97	17204617.83	4473200.637	21677818.47	10838909.24	10.84	32.11
		7B	0.49	89.17	2760	68912101.91	33766929.94	8779401.783	42546331.72	21273165.86	21.27	
8	<i>Ceiba pentandra</i> (L.) Gaertn.	8A	0.3	60.51	3640	41848407.64	12554522.29	3264175.796	15818698.09	7909349.045	7.91	11.83
		8B	0.3	31.85	1690	5382165.61	1614649.682	419808.9172	2034458.599	1017229.299	1.02	
		8C	0.3	44.59	2460	15355414.01	4606624.204	1197722.293	5804346.497	2902173.248	2.90	
9	<i>Syzygium cumini</i> (L.) Skeels	9A	0.7	4.78	320	22929.94	16050.95541	4173.248408	20224.20382	10112.10191	0.01	0.07
		9B	0.7	7.96	690	137340.76	96138.53503	24996.01911	121134.5541	60567.27707	0.06	
10	<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schult.	10A	0.75	7.96	250	49761.15	37320.85987	9703.423567	47024.28344	23512.14172	0.02	0.68
		10B	0.75	12.74	290	147770.70	110828.0255	28815.28662	139643.3121	69821.65605	0.07	
		10C	0.75	12.74	260	132484.08	99363.05732	25834.3949	125197.4522	62598.72611	0.06	
		10D	0.75	15.92	250	199044.59	149283.4395	38813.69427	188097.1338	94048.56688	0.09	
		10E	0.75	15.92	390	310509.55	232882.1656	60549.36306	293431.5287	146715.7643	0.15	
		10F	0.75	15.92	300	238853.50	179140.1274	46576.43312	225716.5605	112858.2803	0.11	
		10G	0.75	17.52	380	366082.80	274562.1019	71386.1465	345948.2484	172974.1242	0.17	
11	<i>Couroupita guianensis</i> Aubl.	11A	0.43	63.69	1980	25222929.94	10845859.87	2819923.567	13665783.44	6832891.72	6.83	26.19
		11B	0.43	52.55	3280	28438853.50	12228707.01	3179463.822	15408170.83	7704085.414	7.70	
		11C	0.43	54.14	3320	30556687.90	13139375.8	3416237.707	16555613.5	8277806.752	8.28	
		11D	0.43	62.10	1030	12473168.79	5363462.58	1394500.271	6757962.85	3378981.425	3.38	
12	<i>Alstonia scholaris</i> (L.) R.Br.	12A	0.4	17.52	1330	1281289.81	512515.9236	133254.1401	645770.0637	322885.0318	0.32	0.60
		12B	0.4	11.15	1240	483757.96	193503.1847	50310.82803	243814.0127	121907.0064	0.12	
		12C	0.4	14.33	960	619108.28	247643.3121	64387.26115	312030.5732	156015.2866	0.16	
13	<i>Madhuca longifolia</i> var. <i>latifolia</i> (Roxb.) A.Chev.	13A	0.72	11.15	930	362818.47	261229.2994	67919.61783	329148.9172	164574.4586	0.16	0.16
14	<i>Diospyros montana</i> Roxb.	14A	0.73	17.52	1120	1078980.89	787656.051	204790.5732	992446.6242	496223.3121	0.50	0.5
15	<i>Crateva religiosa</i> G.Forst.	15A	0.36	7.96	970	193073.25	69506.36943	18071.65605	87578.02548	43789.01274	0.04	0.04
16	<i>Adenanthera pavonina</i> L.	16A	0.72	23.89	2360	4227707.01	3043949.045	791426.7516	3835375.796	1917687.898	1.92	1.92
17	<i>Swietenia mahagoni</i> (L.) Jacq.	17A	0.66	26.59	1240	2753372.61	1817225.924	472478.7401	2289704.664	1144852.332	1.14	2.29
		17B	0.66	19.11	2410	2763057.32	1823617.834	474140.6369	2297758.471	1148879.236	1.15	
18	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	18A	0.81	50.96	1070	8723566.88	7066089.172	1837183.185	8903272.357	4451636.178	4.45	7.03
		18B	0.81	23.89	2820	5051751.59	4091918.79	1063898.885	5155817.675	2577908.838	2.58	

P. Vedavapapana  
Principal  
Ramakrishna Sarada Mission  
Vivekananda Vidyabhavan

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19	<i>Cassia fistula</i> L.	19A	0.83	7.96	1070	212977.71	176771.4968	45960.58917	222732.086	111366.043	0.11	1.13
		19B	0.83	17.52	2030	1955652.87	1623191.879	422029.8885	2045221.768	1022610.884	1.02	3.1
20	<i>Mimusops elengi</i> L.	20A	0.88	33.44	1590	5582722.93	4912796.178	1277327.006	6190123.185	3095061.592	3.10	7.51
21	<i>Plumeria alba</i> L.	21A	0.8	35.83	740	2982683.12	2386146.497	620398.0892	3006544.586	1503272.293	1.50	
		21B	0.8	27.07	530	1219506.37	975605.0955	253657.3248	1229262.42	614631.2102	0.61	
		21C	0.8	30.25	560	1609554.14	1287643.312	334787.2611	1622430.573	811215.2866	0.81	
		21D	0.8	39.81	620	3085191.08	2468152.866	641719.7452	3109872.611	1554936.306	1.55	
		21E	0.8	44.59	710	4431847.13	3545477.707	921824.2038	4467301.911	2233650.955	2.23	
		21F	0.8	17.52	620	597292.99	477834.3949	124236.9427	602071.3376	301035.6688	0.30	
21G	0.8	36.62	230	968710.19	774968.1529	201491.7197	976459.8726	488229.9363	0.49			
22	<i>Moringa oleifera</i> Lam.	22A	0.26	15.92	320	254777.07	66242.03822	17222.92994	83464.96815	41732.48408	0.04	0.04
23	<i>Swietenia macrophylla</i> King	23A	0.53	27.07	3560	8191401.27	4341442.675	1128775.096	5470217.771	2735108.885	2.74	9.35
		23B	0.53	6.37	2530	322292.99	170815.2866	44411.97452	215227.2611	107613.6306	0.11	
		23C	0.53	28.66	6520	16819108.28	8914127.389	2317673.121	11231800.51	5615900.255	5.62	
		23D	0.53	14.33	620	399840.76	211915.6051	55098.05732	267013.6624	133506.8312	0.13	
		23E	0.53	14.33	3540	2282961.78	1209969.745	314592.1338	1524561.879	762280.9395	0.76	
24	<i>Mangifera indica</i> L.	24A	0.6	39.81	890	4428742.04	2657245.223	690883.758	3348128.981	1674064.49	1.67	31.37
		24B	0.6	54.14	1740	16014649.68	9608789.809	2498285.35	12107075.16	6053537.58	6.05	
		24C	0.6	27.07	550	1265525.48	759315.2866	197421.9745	956737.2611	478368.6306	0.48	
		24D	0.6	35.03	1440	5549044.59	3329426.752	865650.9554	4195077.707	2097538.854	2.10	
		24G	0.6	66.88	820	11516560.51	6909936.306	1796583.439	8706519.745	4353259.873	4.35	
		24H	0.6	35.03	1420	5471974.52	3283184.713	853628.0255	4136812.739	2068406.369	2.07	
		24I	0.6	25.48	1720	3505732.48	2103439.49	546894.2675	2650333.758	1325166.879	1.33	
		24J	0.6	41.40	1460	7857961.78	4714777.07	1225842.038	5940619.108	2970309.554	2.97	
		24L	0.6	47.77	1890	13542993.63	8125796.178	2112707.006	10238503.18	5119251.592	5.12	
		24M	0.6	17.52	1660	1599203.82	959522.293	249475.7962	1208998.089	604499.0446	0.60	
24O	0.6	52.55	1410	12225238.85	7335143.312	1907137.261	9242280.573	4621140.287	4.62			
25	<i>Artocarpus heterophyllus</i> Lam.	25A	0.54	19.11	1080	1238216.56	668636.9427	173845.6051	842482.5478	421241.2739	0.42	4.79
		25B	0.54	22.29	2520	3932484.08	2123541.401	552120.7643	2675662.166	1337831.083	1.34	
		25C	0.54	38.22	1520	6970700.64	3764178.344	978686.3694	4742864.713	2371432.357	2.37	
		25D	0.54	14.33	850	548168.79	296011.1465	76962.89809	372974.0446	186487.0223	0.19	
		25E	0.54	4.78	930	66640.13	35985.66879	9356.273885	45341.94268	22670.97134	0.02	

P. Vedarupapana  
Principal  
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		25F	0.54	23.89	740	1325636.94	715843.949	186119.4268	901963.3758	450981.6879	0.45	
26	<i>Tectona grandis</i> L.f.	26A	0.61	36.62	2760	11624522.29	7090958.599	1843649.236	8934607.834	4467303.917	4.47	6.46
		26B	0.61	25.48	2540	5177070.06	3158012.739	821083.3121	3979096.051	1989548.025	1.99	
		27A	0.78	7.96	1020	203025.48	158359.8726	41173.56688	199533.4395	99766.71975	0.10	
27	<i>Shorea robusta</i> Gaertn.	27B	0.78	6.37	620	78980.89	61605.09554	16017.32484	77622.42038	38811.21019	0.04	4.54
		27C	0.78	27.07	3140	7225000.00	5635500	1465230	7100730	3550365	3.55	
		27D	0.78	12.74	2020	1029299.36	802853.5032	208741.9108	1011595.414	505797.707	0.51	
		27E	0.78	11.15	1280	499363.06	389503.1847	101270.828	490774.0127	245387.0064	0.25	
		27F	0.78	12.74	380	193630.57	151031.8471	39268.28025	190300.1274	95150.06369	0.10	
		28A	0.65	15.92	950	756369.43	491640.1274	127826.4331	619466.5605	309733.2803	0.31	
28B	0.65	14.33	440	283757.96	184442.6752	47955.09554	232397.7707	116198.8854	0.12			
29	<i>Terminalia catappa</i> L.	29A	0.54	15.92	3020	2404458.60	1298407.643	337585.9873	1635993.631	817996.8153	0.82	0.82
30	<i>Phyllanthus acidus</i> (L.) Skeels	30A	0.6	15.92	730	581210.19	348726.1146	90668.78981	439394.9045	219697.4522	0.22	0.22
31	<i>Citrus maxima</i> (Burm.) Merr.	31A	0.59	28.66	870	2244267.52	1324117.834	344270.6369	1668388.471	834194.2357	0.83	1.75
		31B	0.59	38.22	430	1971974.52	1163464.968	302500.8917	1465965.86	732982.9299	0.73	
		31C	0.59	12.74	610	310828.03	183388.535	47681.01911	231069.5541	115534.7771	0.12	
		31D	0.59	9.55	610	174840.76	103156.051	26820.57325	129976.6242	64988.3121	0.06	
32	<i>Spondias pinnata</i> (L. f.) Kurz	32A	0.31	14.33	1850	1193073.25	369852.707	96161.70382	466014.4108	233007.2054	0.23	0.23
33	<i>Averrhoa carambola</i> L.	33A	0.6	15.92	1660	1321656.05	792993.6306	206178.3439	999171.9745	499585.9873	0.50	0.5
34	<i>Azadirachta indica</i> A.Juss.	34A	0.73	24.68	3220	6159275.48	4496271.099	1169030.486	5665301.584	2832650.792	2.83	7.99
		34B	0.73	31.21	2310	7065363.06	5157715.032	1341005.908	6498720.94	3249360.47	3.25	
		34C	0.73	29.14	1560	4159461.78	3036407.102	789465.8465	3825872.948	1912936.474	1.91	
35	<i>Tamarindus indica</i> L.	35A	0.99	38.22	1280	5870063.69	5811363.057	1510954.395	7322317.452	3661158.726	3.66	3.66
36	<i>Nyctanthes arbor-tristis</i> L.	36A	0.88	25.48	810	1650955.41	1452840.764	377738.5987	1830579.363	915289.6815	0.92	0.92
37	<i>Plumeria rubra</i> L.	37A	0.56	50.96	450	3668789.81	2054522.293	534175.7962	2588698.089	1294349.045	1.29	1.90
		37B	0.56	31.85	540	1719745.22	963057.3248	250394.9045	1213452.229	606726.1146	0.61	
38	<i>Psidium guajava</i> L.	38A	0.67	36.62	620	2611305.73	1749574.841	454889.4586	2204464.299	1102232.15	1.10	3.03
		38B	0.67	47.77	550	3941082.80	2640525.478	686536.6242	3327062.102	1663531.051	1.66	
		38C	0.67	19.11	540	619108.28	414802.5478	107848.6624	522651.2102	261325.6051	0.26	
39	<i>Annona squamosa</i> L.	39A	0.61	2.39	300	5374.20	3278.264331	852.3487261	4130.613057	2065.306529	0.002	0.002
40	<i>Litchi chinensis</i> Sonn.	40A	0.87	28.66	210	541719.75	471296.1783	122537.0064	593833.1847	296916.5924	0.30	0.3

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Sl. No.	SCIENTIFIC NAME	Tag No.	Wood Density (g/cm <sup>3</sup> )	RBH (cm)	Height (cm)	Volume (cm <sup>3</sup> )	AGB (g)	BGB (g)	TB (g)	Carbon Stock (g)	Carbon Stock (tonne)	Carbon Stock (tonne)/Sp.
41	<i>Manilkara zapota</i> (L.) P.Royen	41A	0.91	11.94	580	259753.18	236375.3981	61457.6035	297833.0016	148916.5008	0.15	0.54
		41B	0.91	19.11	600	687898.09	625987.2611	162756.6879	788743.949	394371.9745	0.39	
42	<i>Terminalia chebula</i> Retz.	42A	0.83	11.62	350	148499.20	123254.3392	32046.12818	155300.4674	77650.23368	0.08	0.08
		43A	0.58	24.20	610	1122089.17	650811.7197	169211.0471	820022.7669	410011.3834	0.41	
43	<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & Eberm.	43A	0.58	24.20	610	1122089.17	650811.7197	169211.0471	820022.7669	410011.3834	0.41	5.45
44	<i>Aegle marmelos</i> (L.) Corrêa	44A	0.78	17.52	1510	1454697.45	1134664.013	295012.6433	1429676.656	714838.328	0.71	
		44B	0.78	28.66	1020	2631210.19	2052343.949	533609.4268	2585953.376	1292976.688	1.29	
		44C	0.78	17.52	1790	1724442.68	1345065.287	349716.9745	1694782.261	847391.1306	0.85	
		44D	0.78	31.85	1660	5286624.20	4123566.879	1072127.389	5195694.268	2597847.134	2.60	
45	<i>Dillenia indica</i> L.	45A	0.65	15.13	620	445501.59	289576.035	75289.76911	364865.8041	182432.9021	0.18	0.18
46	<i>Thuja occidentalis</i> L.	46A	0.3	7.96	360	71656.05	21496.81529	5589.171975	27085.98726	13542.99363	0.01	0.03
		46	0.3	7.96	360	71656.05	21496.81529	5589.171975	27085.98726	13542.99363	0.01	
		47A	0.6	87.58	2090	50336385.35	30201831.21	7852476.115	38054307.32	19027153.66	19.03	19.03
47	<i>Millingtonia hortensis</i> L.f.	47A	0.6	87.58	2090	50336385.35	30201831.21	7852476.115	38054307.32	19027153.66	19.03	0.48
48	<i>Magnolia champaca</i> (L.) Baill. ex Pierre	48A	0.54	23.89	780	1397292.99	754538.2166	196179.9363	950718.1529	475359.0764	0.48	
49	<i>Nerium oleander</i> L.	49A	0.6	15.92	620	493630.57	296178.3439	77006.36943	373184.7134	186592.3567	0.19	0.60
		49B	0.6	15.92	230	183121.02	109872.6115	28566.87898	138439.4904	69219.74522	0.07	
		49C	0.6	12.74	310	157961.78	94777.07006	24642.03822	119419.1083	59709.55414	0.06	
		49D	0.6	14.33	540	348248.41	208949.0446	54326.75159	263275.7962	131637.8981	0.13	
		49E	0.6	9.55	620	177707.01	106624.2038	27722.29299	134346.4968	67173.24841	0.07	
		49F	0.6	6.37	360	45859.87	27515.92357	7154.140127	34670.06369	17335.03185	0.02	
		49G	0.6	15.92	230	183121.02	109872.6115	28566.87898	138439.4904	69219.74522	0.07	
50	<i>Phyllanthus emblica</i> L.	50A	0.73	1.59	220	1751.59	1278.66242	332.4522293	1611.11465	805.5573248	0.001	0.001
51	<i>Murraya paniculata</i> (L.) Jack	51A	0.99	15.92	320	254777.07	252229.2994	65579.61783	317808.9172	158904.4586	0.16	1.10
		51B	0.99	19.11	760	871337.58	862624.2038	224282.293	1086906.497	543453.2484	0.54	
		51C	0.99	20.70	420	565127.39	559476.1146	145463.7898	704939.9045	352469.9522	0.35	
		51D	0.99	7.96	340	67675.16	66998.40764	17419.58599	84417.99363	42208.99682	0.04	
52	<i>Eucalyptus globulus</i> Labill.	52A	0.71	63.69	1560	19872611.46	14109554.14	3668484.076	17778038.22	8889019.108	8.89	22.63
		52B	0.71	63.69	1870	23821656.05	16913375.8	4397477.707	21310853.5	10655426.75	10.66	
		52C	0.71	42.99	1190	6906926.75	4903917.994	1275018.678	6178936.672	3089468.336	3.09	
53	<i>Senna siamea</i> (Lam.) H.S.Irwin & Barneby	53A	0.68	47.77	1320	9458598.73	6431847.134	1672280.255	8104127.389	4052063.694	4.05	4.05
54	<i>Magnolia grandiflora</i> L.	54A	0.45	17.52	280	269745.22	121385.3503	31560.19108	152945.5414	76472.7707	0.08	0.08

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**SPECIES WISE CONTRIBUTION OF CARBON STORAGE**

Sl. No.	Tree Species	Carbon Stock (tonne)	Contribution to total carbon storage (%)
1	<i>Neolamarckia cadamba</i>	82.40	24.17
2	<i>Ficus benghalensis</i>	32.11	9.42
3	<i>Mangifera indica</i>	31.37	9.20
4	<i>Couroupita guianensis</i>	26.19	7.68
5	<i>Eucalyptus globulus</i>	22.63	6.64
6	<i>Millingtonia hortensis</i>	19.03	5.58
7	<i>Holarrhena pubescens</i>	13.99	4.10
8	<i>Ceiba pentandra</i>	11.83	3.47
9	<i>Swietenia macrophylla</i>	9.35	2.74
10	<i>Azadirachta indica</i>	7.99	2.35
11	<i>Plumeria alba</i>	7.51	2.20
12	<i>Terminalia arjuna</i>	7.03	2.06
13	<i>Lagerstroemia speciosa</i>	6.49	1.90
14	<i>Tectona grandis</i>	6.46	1.89
15	<i>Aegle marmelos</i>	5.45	1.60
16	<i>Artocarpus heterophyllus</i>	4.79	1.41
17	<i>Bauhinia purpurea</i>	4.76	1.40
18	<i>Shorea robusta</i>	4.54	1.33
19	<i>Khaya anthotheca</i>	4.39	1.29
20	<i>Senna siamea</i>	4.05	1.19
21	<i>Tamarindus indica</i>	3.66	1.07
22	<i>Mimusops elengi</i>	3.10	0.91
23	<i>Psidium guajava</i>	3.03	0.89
24	<i>Swietenia mahagoni</i>	2.29	0.67
25	<i>Adenantha pavonina</i>	1.92	0.56
26	<i>Plumeria rubra</i>	1.90	0.56
27	<i>Citrus maxima</i>	1.75	0.51
28	<i>Cassia fistula</i>	1.13	0.33
29	<i>Murraya paniculata</i>	1.10	0.32
30	<i>Nyctanthes arbor-tristis</i>	0.92	0.27
31	<i>Terminalia catappa</i>	0.82	0.24
32	<i>Bombax ceiba</i>	0.72	0.21
33	<i>Tabernaemontana divaricata</i>	0.68	0.20
34	<i>Nerium oleander</i>	0.60	0.18
35	<i>Alstonia scholaris</i>	0.60	0.18
36	<i>Manilkara zapota</i>	0.54	0.16
37	<i>Diospyros montana</i>	0.50	0.15
38	<i>Averrhoa carambola</i>	0.50	0.15
39	<i>Magnolia champaca</i>	0.48	0.14
40	<i>Monoon longifolium</i>	0.43	0.12
41	<i>Cinnamomum tamala</i>	0.41	0.12
42	<i>Litchi chinensis</i>	0.30	0.09
43	<i>Spondias pinnata</i>	0.23	0.07
44	<i>Phyllanthus acidus</i>	0.22	0.06
45	<i>Dillenia indica L.</i>	0.18	0.05
46	<i>Madhuca longifolia var. latifolia</i>	0.16	0.05
47	<i>Terminalia chebula</i>	0.08	0.02

*P. Vedaruppanna*

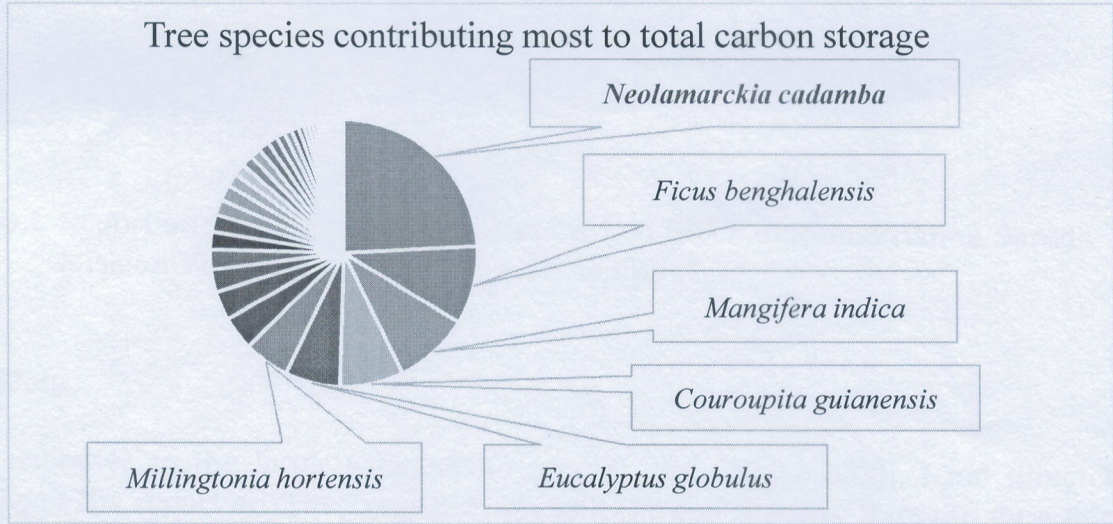
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**Remakrishna Sarada Mission  
Vivekananda Vidyabhavan**

**SPECIES WISE CONTRIBUTION OF CARBON STORAGE**

Sl. No.	Tree Species	Carbon Stock (tonne)	Contribution to total carbon storage (%)
48	<i>Magnolia grandiflora</i>	0.08	0.02
49	<i>Syzygium cumini</i>	0.07	0.02
50	<i>Crateva religiosa</i>	0.04	0.01
51	<i>Moringa oleifera</i>	0.04	0.01
52	<i>Thuja occidentalis</i>	0.03	0.01
53	<i>Annona squamosa</i>	0.002	0.0006
54	<i>Phyllanthus emblica</i>	0.001	0.0003

340.89

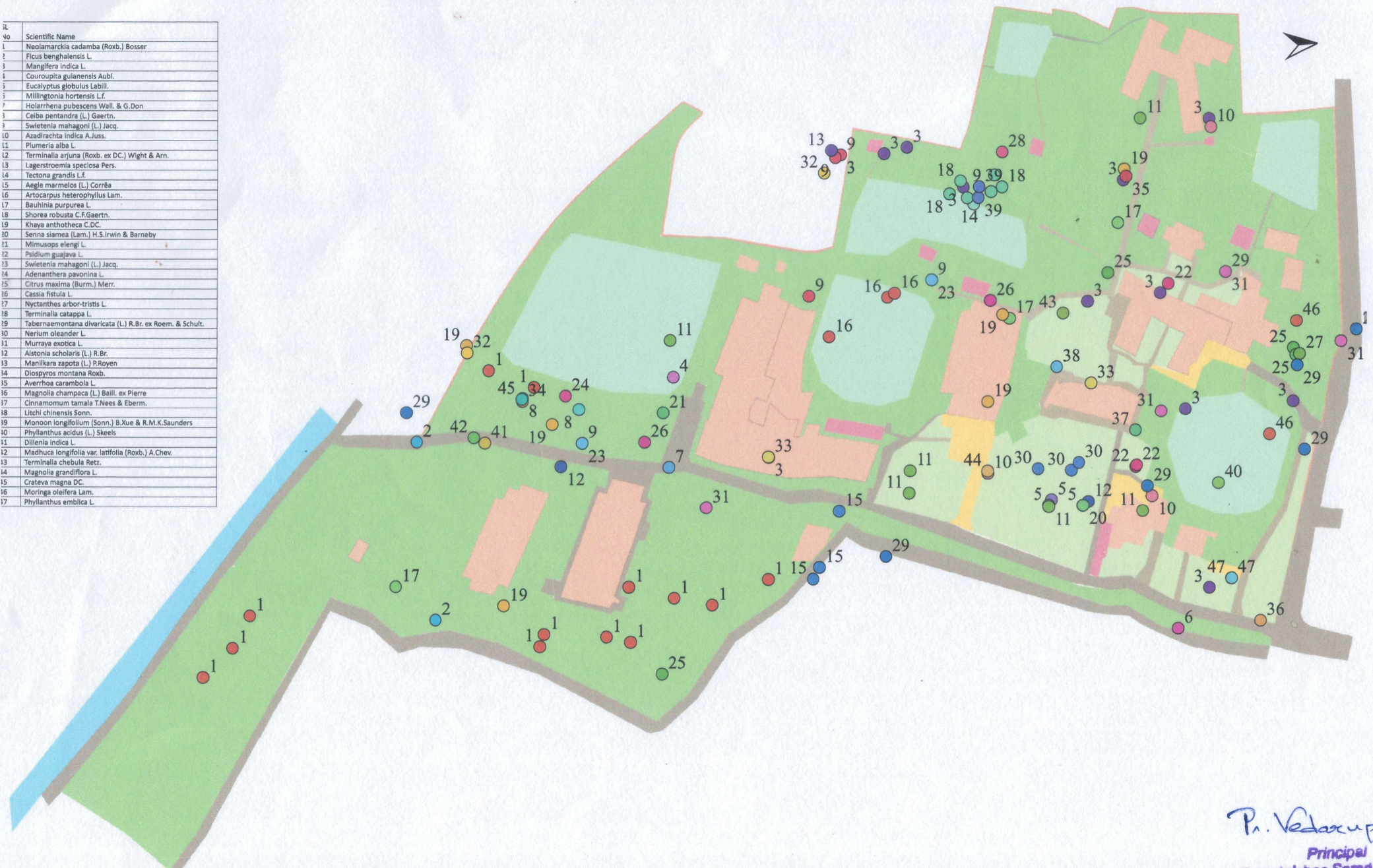


Total no. of tree species = 54
Maximum no. of individual = <i>Neolamarkia cadamba</i> (14)
Total no. of individual tree = 152
Total carbon stock = 340.89 Tonnes
Maximum carbon contribution by = <i>Neolamarkia cadamba</i>
(82.40 Tonnes i.e., 24.17% of total carbon stock)

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*20/8/2024*  
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West Bengal Biodiversity Board  
Dept. of Environment, Govt. of West Bengal  
Prani Sampad Bhawan, 5th Floor  
LB-2, Sector - III, Salt Lake City  
Kolkata - 700106

No	Scientific Name
1	Neolamarckia cadamba (Roxb.) Bosser
2	Ficus benghalensis L.
3	Mangifera indica L.
4	Couroupita gulanensis Aubl.
5	Eucalyptus globulus Labill.
6	Millingtonia hortensis L.f.
7	Holarrhena pubescens Wall. & G. Don
8	Celaiba pentandra (L.) Gaertn.
9	Swietenia mahagoni (L.) Jacq.
10	Azadirachta indica A. Juss.
11	Plumeria alba L.
12	Terminalia arjuna (Roxb. ex DC.) Wight & Arn.
13	Lagerstroemia speciosa Pers.
14	Tectona grandis L.f.
15	Aegle marmelos (L.) Correa
16	Artocarpus heterophyllus Lam.
17	Bauhinia purpurea L.
18	Shorea robusta C.F. Gaertn.
19	Khaya anthothesca C. DC.
20	Senna siamea (Lam.) H.S. Irwin & Barneby
21	Mimusops elengi L.
22	Psidium guajava L.
23	Swietenia mahagoni (L.) Jacq.
24	Adenantha pavonina L.
25	Citrus maxima (Burm.) Merr.
26	Cassia fistula L.
27	Nyctanthes arbor-tristis L.
28	Terminalia catappa L.
29	Tabernaemontana divaricata (L.) R.Br. ex Roem. & Schult.
30	Nerium oleander L.
31	Murraya exotica L.
32	Alstonia scholaris (L.) R.Br.
33	Manilkara zapota (L.) P. Royen
34	Diospyros montana Roxb.
35	Averrhoa carambola L.
36	Magnolia champaca (L.) Baill. ex Pierre
37	Cinnamomum tamala (L.) Nees & Eberm.
38	Litchi chinensis Sonn.
39	Monoon longifolium (Sonn.) B. Xue & R.M.K. Saunders
40	Phyllanthus acidus (L.) Skeels
41	Dillenia indica L.
42	Madhuca longifolia var. latifolia (Roxb.) A. Chev.
43	Terminalia chebula Retz.
44	Magnolia grandiflora L.
45	Crateva magna DC.
46	Moringa oleifera Lam.
47	Phyllanthus emblica L.



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Tree Map of Ramakrishna Sarada Mission Vivekananda Vidyabhavan Campus