



Chapter - 1

GEOGRAPHICAL FEATURES

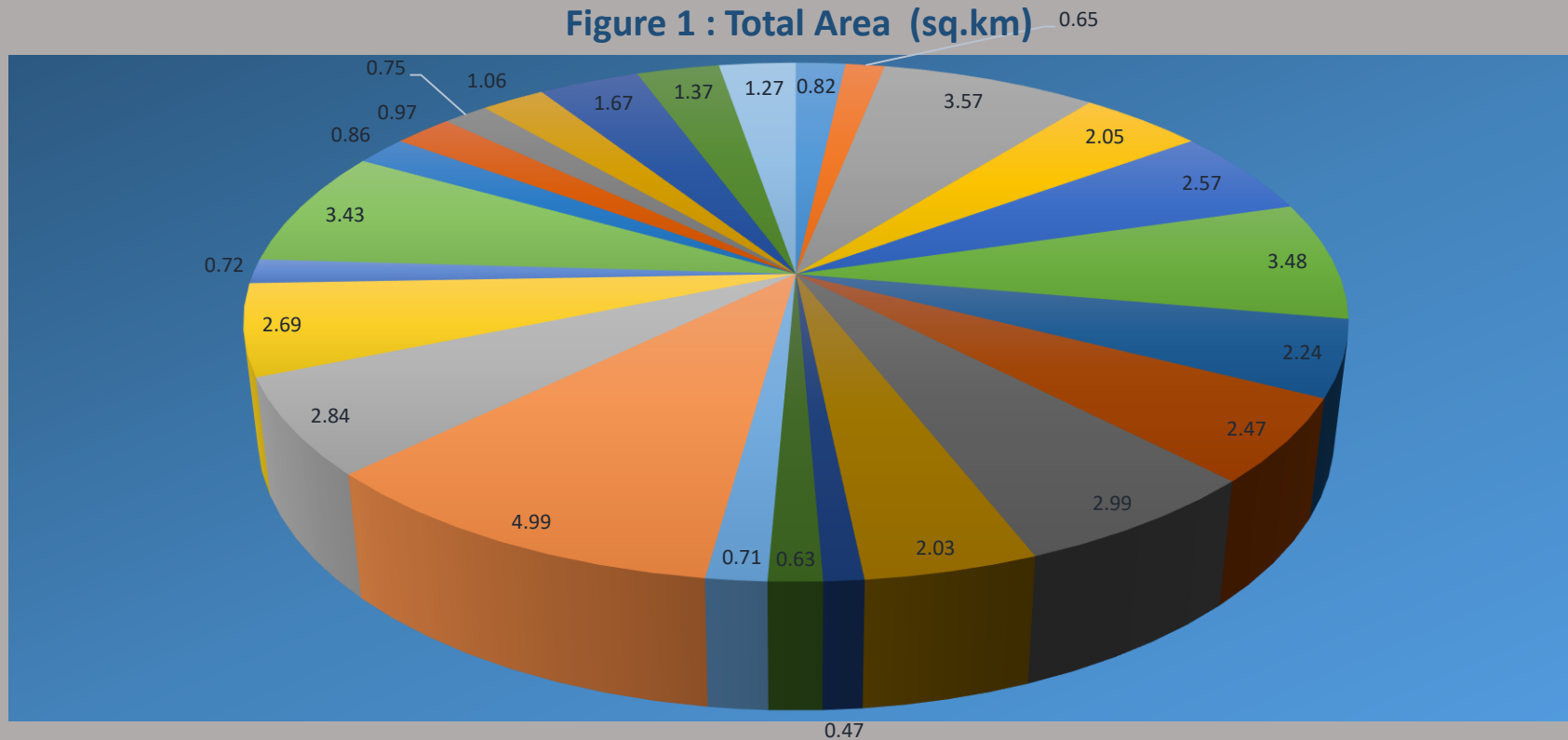


Table 1.1: Division Wise Area - 2024

S.N	G.N Division	Total Area (sq.km)	Total Area (Ha)	Total Area(Acre)
1	J/157, Vaddu East	0.82	82	202.66
2	J/158, Vaddu North	0.65	65	160.64
3	J/159, Sangarathai	3.57	357	882.32
4	J/160, Araly West	2.05	205	506.66
5	J/161, Araly Centre	2.57	257	635.18
6	J/162, Araly South	3.48	348	860.08
7	J/163, AralyEast	2.24	224	553.62
8	J/164, Araly North	2.47	247	610.46
9	J/165, Vaddu South	2.99	299	738.98
10	J/166, Vaddu South West	2.03	203	501.71
11	J/167, Vaddu West	0.47	47	116.16
12	J/168, Tholpuram East	0.63	63	155.71
13	J/169, Tholpuram West	0.71	71	175.48
14	J/170, Ponnalai	4.99	499	1,233.28
15	J/171, Moolai	2.84	284	701.91
16	J/172, Chulipuram West	2.69	269	664.83
17	J/173, Chulipuram Centre	0.72	72	177.95
18	J/174, Chulipuram East	3.43	343	847.72
19	J/175, Pannagam	0.86	86	212.55
20	J/176, Panipulam	0.97	97	239.74
21	J/177, Sithankerny	0.75	75	185.36
22	J/178, Chankanai East	1.06	106	261.98
23	J/179, Chankanai West	1.67	167	412.74
24	J/180, Chankanai South	1.37	137	338.6
25	J/181, Chankanai Centre	1.27	127	313.88
Total		47.3	4730	11690.20

Source: Land use planning officer, Chankanai

Figure 1 : Total Area (sq.km)



J/157, Vaddu East	J/158, Vaddu North	J/159, Sangarathai	J/160, Araly West	J/161, Araly Centre
J/162, Araly South	J/163, Araly East	J/164, Araly North	J/165, Vaddu South	J/166, Vaddu South West
J/167, Vaddu West	J/168, Tholpuram East	J/169, Tholpuram West	J/170, Ponnalai	J/171, Moolai
J/172, Chulipuram West	J/173, Chulipuram Centre	J/174, Chulipuram East	J/175, Pannagam	J/176, Panipulam
J/177, Sithankerny	J/178, Chankanai East	J/179, Chankanai West	J/180, Chankanai South	J/181, Chankanai Centre

Source: Land Use Planning Officer, Chankanai

Table 1.2: Annual and Monthly Rainfall: 2020 – 2024

Annual Total (MM)	Avg. 1971- 2000	2021	2022	2023	2024
	1,231.10	2043.3	1624.00	1,440.50	1,986.20

Source: Department of Meteorology, Colombo

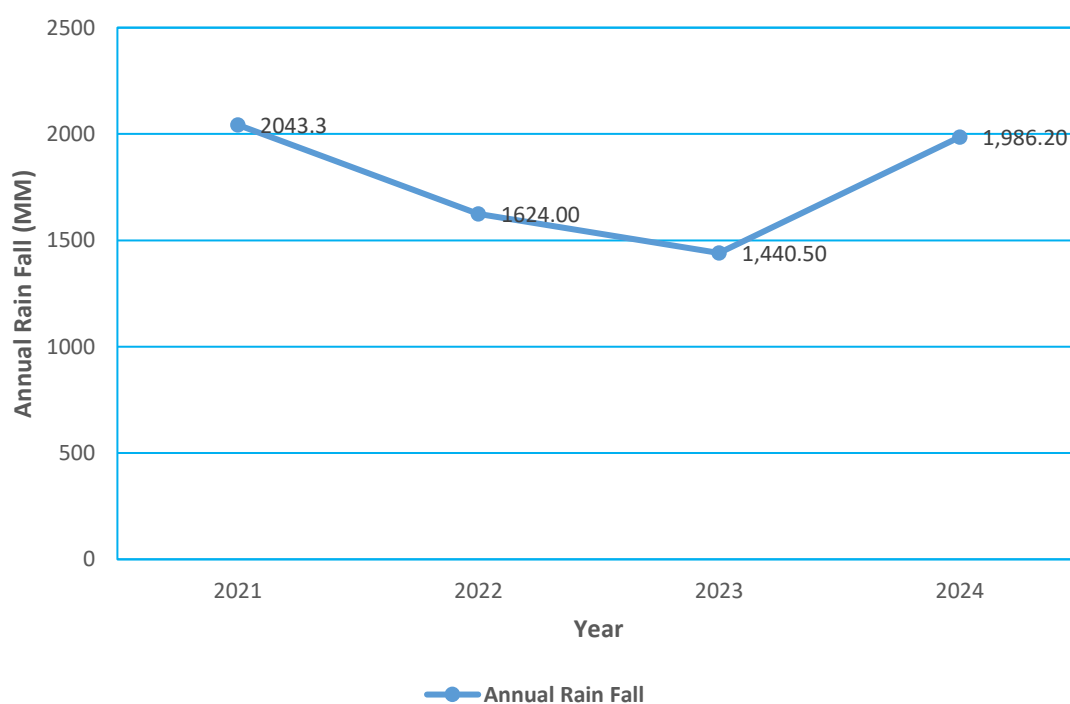
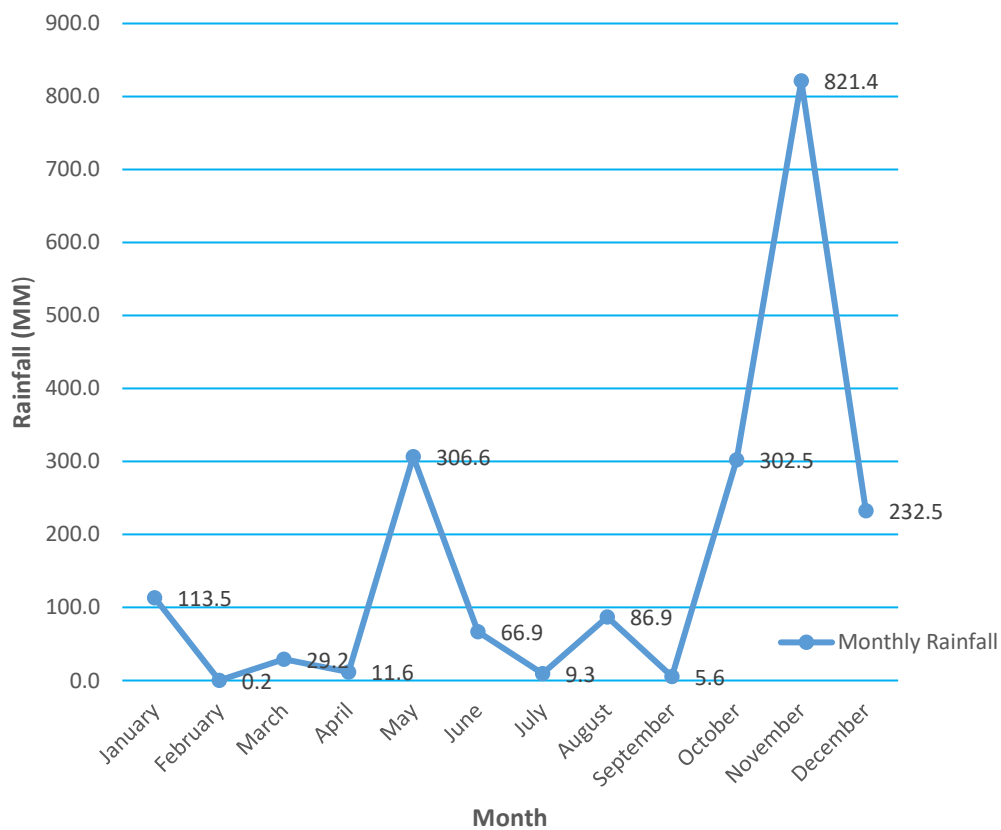
Figure 2 : Annual Rain Fall 2021-2024

Table 1.3: Monthly Rainfall (MM): 2020 – 2024

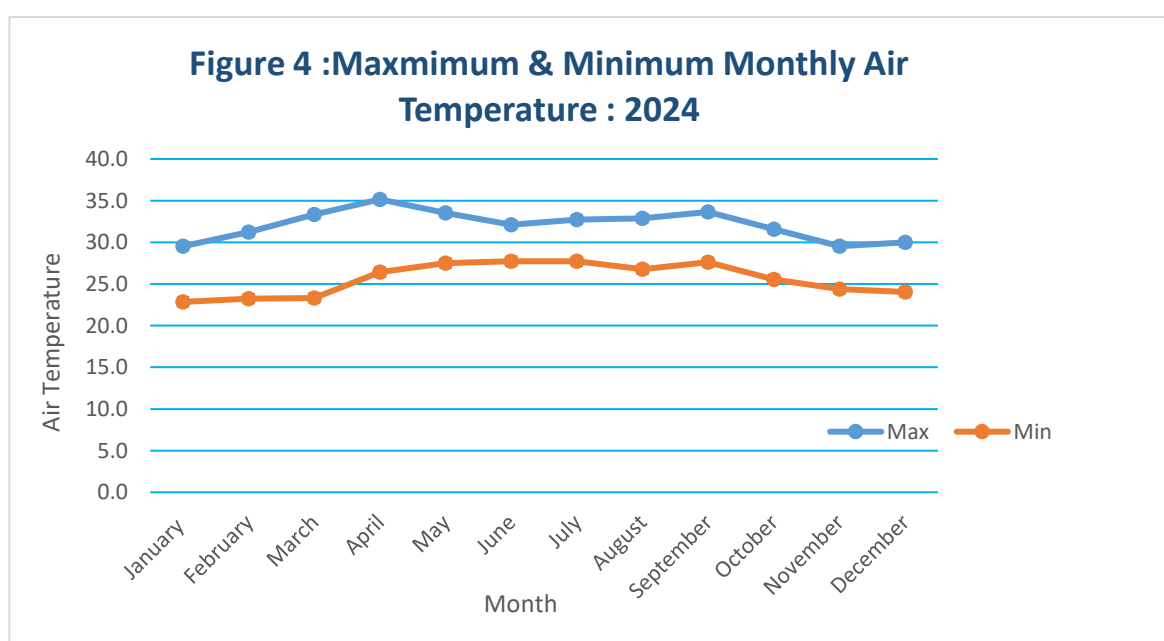
S.N	Month	2020	2021	2022	2023	2024
1	January	23.2	317.5	181.2	22.9	113.5
2	February	17.6	15.3	108.3	166.4	0.2
3	March	0.0	1.6	18.5	10.7	29.2
4	April	30.7	110.4	185.1	6.1	11.6
5	May	39.9	95.4	10.3	164.6	306.6
6	June	2.7	50.4	5.3	13.5	66.9
7	July	118.5	57.0	73.1	25.1	9.3
8	August	33.2	8.3	95.0	21.2	86.9
9	September	212.6	54.7	2.8	67.8	5.6
10	October	23.3	390.7	479.4	137.2	302.5
11	November	339.7	752.4	263.2	464.7	821.4
12	December	872.9	189.6	201.8	340.3	232.5
Total		1,714.30	2,043.30	1,624.00	1,440.50	1,986.20

Figure 3 : Monthly Rainfall (MM) 2024

**Table 1.4: Mean Annual and Monthly Air Temperature
(Degree Celsius)
2020 – 2024**

S.N	Month	2020		2021		2022		2023		2024	
		Min	Max	Max	Min	Max	Min	Max	Min	Max	Min
1	January	30	22.2	28.9	22.9	29.76	22.64	28.8	21.4	29.5	22.8
2	February	22.2	21	29.6	21.5	29.77	21.74	29.8	21.0	31.2	23.2
3	March	32.7	22.9	32.4	23.2	31.89	24.52	32.1	24.1	33.3	23.3
4	April	34.4	25.7	33.2	26.3	32.70	25.85	34.6	25.7	35.2	26.4
5	May	33.9	27.7	33.1	27.1	33.00	28.05	32.5	27.6	33.5	27.5
6	June	33.4	28.1	32.7	27.3	32.84	27.32	33.1	28.1	32.1	27.7
7	July	32.6	26.9	32.7	27.0	32.89	26.47	32.7	27.4	32.7	27.7
8	August	31.6	27	32.7	26.9	32.02	26.32	33.3	27.2	32.9	26.8
9	September	30.7	26.2	33.0	26.9	31.77	26.41	32.2	27.2	33.6	27.6
10	October	31.6	26.1	30.6	25.6	31.19	25.07	31.3	25.6	31.6	25.5
11	November	30	24.3	29.3	24.5	29.61	23.20	30.4	24.4	29.5	24.4
12	December	28	23.2	29.6	22.6	29.20	23.62	29.4	24.9	30.0	24.1

Source: Department of Meteorology, Colombo



**Table 1.5 Mean Annual and Monthly Relative Humidity
(Percentage): 2020 – 2024**

S.N	Month	2020		2021		2022		2023		2024	
		Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1	January	73	NA	80	NA	79	NA	72	NA	77	NA
2	February	67	NA	70	NA	74	NA	73	NA	73	NA
3	March	66	NA	67	NA	75	NA	71	NA	67	NA
4	April	68	NA	73	NA	78	NA	68	NA	69	NA
5	May	73	NA	74	NA	76	NA	78	NA	78	NA
6	June	72	NA	74	NA	75	NA	75	NA	80	NA
7	July	73	NA	73	NA	73	NA	74	NA	75	NA
8	August	75	NA	74	NA	76	NA	71	NA	74	NA
9	September	80	NA	72	NA	78	NA	74	NA	70	NA
10	October	76	NA	82	NA	80	NA	78	NA	80	NA
11	November	82	NA	88	NA	81	NA	86	NA	85	NA
12	December	84	NA	79	NA	82	NA	85	NA	82	NA

Source: Department of Meteorology, Colombo

Table 1.6: Mean Wind Speed (km/hour) : 2020 – 2024

S.N	Month	2020	2020	2021	2021	2022	2022	2023	2023	2024	2024
		8.30 am	5.30 pm	8.30 Am	5.30 Pm	8.30 Am	5.30 Pm	8.30 Am	5.30 Pm	8.30 Am	5.30 Pm
1	January	NA	NA	NA	NA	4.6	6.6	5.7	8.7	4	7.4
2	February	NA	NA	NA	NA	4	7.6	5.1	4.9	5	7.8
3	March	NA	NA	NA	NA	5.2	7	5.7	6.7	4.3	6.4
4	April	NA	NA	NA	NA	3.6	3.8	4.1	5.9	4.2	5.4
5	May	NA	NA	NA	NA	6.9	8.5	7.1	6.5	5.3	5.7
6	June	NA	NA	NA	NA	6.4	7.9	7.3	7.6	9	8.7
7	July	NA	NA	NA	NA	5.9	6.5	6.4	7.4	6.9	8.2
8	August	NA	NA	6.5	6.7	5.9	6.4	7	7.6	6.1	6.5
9	September	NA	NA	3.2	4.5	6.9	7.1	9.7	9.7	7.2	7.5
10	October	NA	NA	4.9	4.9	5.4	4.1	4.8	5.4	5.4	3.6
11	November	NA	NA	5.4	5.0	5.5	4.9	4.6	3.9	5.8	5.8
12	December	NA	NA	5.1	6.5	5.9	4.9	7.2	7.5	2.9	1

Source: Department of Meteorology, Colombo

Table 1.7: Land Use Pattern – 2024

S.N	Land Use Type	Area in Hactare (Ha)
1	Built up land	876.71
2	Agricultural Land	1915.38
3	Non Agricultural Land	81.46
4	Homesteads/Home Garden	1532.02
5	Forest land	113.64
6	Wet Land	50.24
7	Water bodies	124.58
8	Barren Land	4.20
9	Other Land	31.77
Total		4730.00

Source: Land Use Planning Officer, Chankanai