



Delivering Intelligence

Huviair Technologies

Area analysis report of Faith Estate



Type of estate – Coffee Plantation

Total Area – 848.38 acres

About Huviair

HUVIAiR Technologies Pvt. Ltd. is an Unmanned Arial Vehicles services company based in Bangalore, India.

We have expertise in producing quality drone based images, videos, orthomosaics, digital elevation models, 3D models and end to end Aerial surveys that are up to 50 times faster than ground based surveys.

We have worked with clients from various sectors such as real estate developers, corporates, renewable energy developers, NGOs, farmers, planters, public sector units etc.

HUVIAiR believes in delivering solutions to customer tailored to their needs, with a clear focus on quick turnaround time and providing unmatched value for money. Its founders have a mix of experience in Manufacturing, Computer Technology, Renewable energy, Photogrammetry and Surveying.

Contents

Contents of this printed report-

- Ultra high resolution digital elevation model of entire estate up to a resolution of 10cm/pixel
- Sample images of 3D model of estate
- Total area of the estate
- Total road and path lengths in the estate
- Total area covered by water bodies
- Total area covered by building and drying area
- Total area covered by dense trees and plantation
- Total area covered by sparse coffee plants

Contents of report in electronic format-

- In addition to the contents of this report the following are provided
- A zoom-able 3d fly through model of the estate
- A zoom-able Orthomosaic Map
- A zoom-able Elevation Map

Along with the above 2 reports the client is provided with following-

- Ultra high resolution Poster size image map of the entire estate.

Ultra high resolution map of entire estate captured by drone

These are sample images of relatively high resolution, that could be printed in this report. Full High resolution map in electronic format is provided separately.

Zoom level 1



Zoom level 2



Zoom level 3



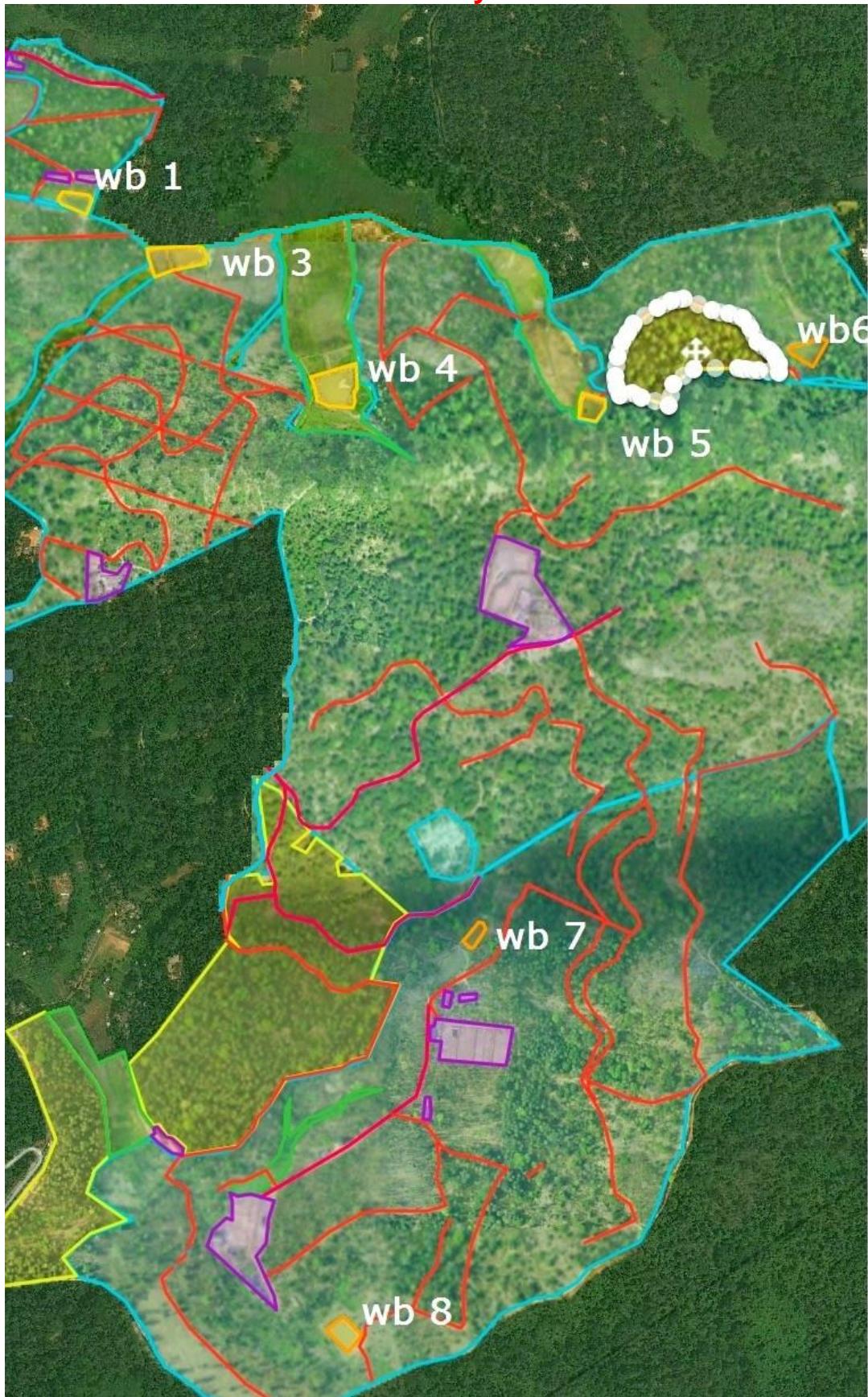
Zoom level 4



Area Measurements



Total area covered by Water Bodies



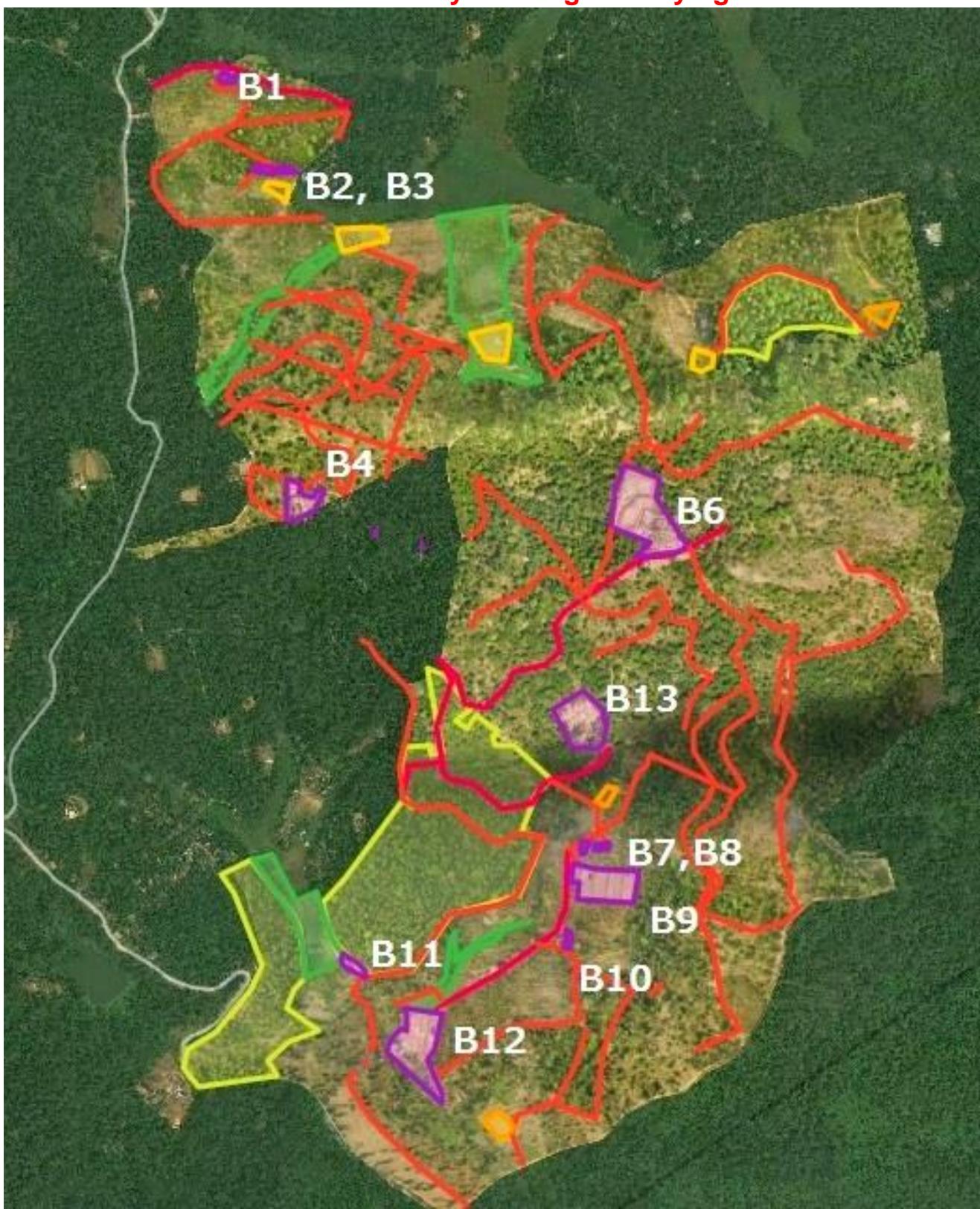


Wb 8 = 0.75 acres

Water bodies	Area
Water body 1	0.5
Water body 3	0.5
Water body 4	1.49
Water body 5	0.5
Water body 6	0.75
Water body 7	0.25
Water body 8	0.75
Total Area	4.74

Total area of water bodies- 4.74 acres

Total area covered by building and drying area.





Buildings	Area
Building 1	0.17
Building 2	0.19
Building 3	0.2
Building 4	1.23
Building 6	5.94
Building 7	0.12
Building 8	0.13
Building 9	2.97
Building 10	0.143
Building 11	0.49
Building 12	3.95
Building 13	3.2
Total Area	18.73

Total area covered by building and drying area = 18.73 acres

Total road and path lengths in the estate



Area covered by roads = (cumulative of Width X respective road length)

Asphalted roads



Road	Width (m)	Length (m)	Area (Sq m)
Road 1	4.5	522	2349
Road 2	4.5	996	4482
Road 3	4.4	693	3050
Total Area	2211		9871

Total area covered by tarred roads = 2.43 Acres (9871 square meters)

Untarred roads



Different un-tarred roads have different respective widths.

Area covered by un-tarred roads = cumulative of (Width X respective road length)

Total length of un-tarred roads and paths = 19.54 km

Total area covered by un-tarred roads and paths = 14.28 acres (57802 sq.m)

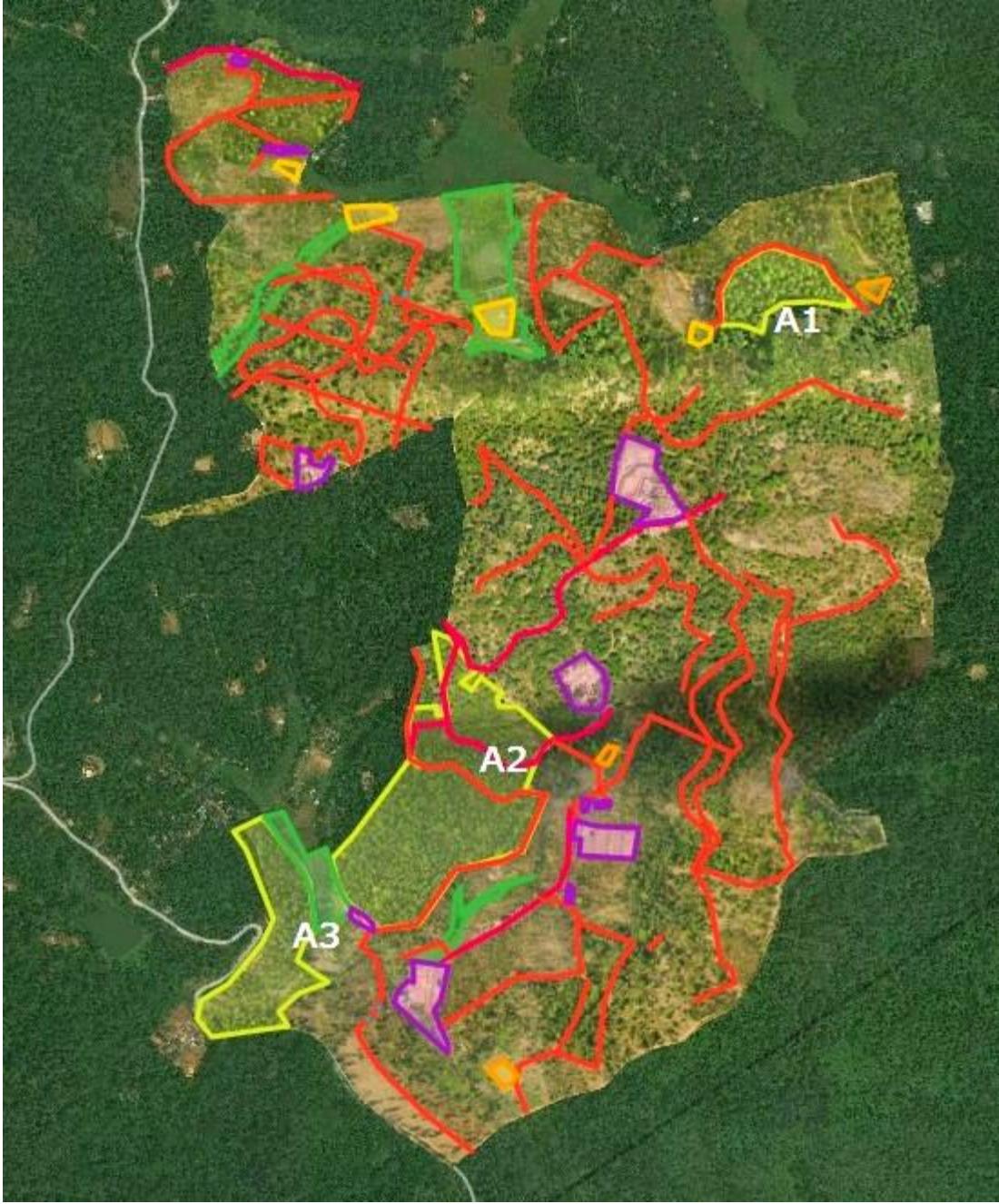
Total area covered by un-tarred roads in the estate

Path	Width	Length (m)	Area (m ²)
Path 1	2.9	1400	4060
Path 2	2.75	145	399
Path 3	2.9	548	1590

Path 4	2.8	436	1220
Path 5	2.7	730	1971
Path 6	2.82	237	669
Path 7	2.2	40	88
Path 8	2.65	440	1166
Path 9	3	1500	4500
Path 10	2.95	764	2255
Path 11	3.12	1200	3744
Path 12	3	360	1080
Path 13	2.75	390	1072
Path 14	2.8	515	1442
Path 15	3	365	1095
Path 16	3.1	280	868
Path 17	3.2	396	1267
Path 18	3.1	896	2778
Path 19	3	678	2034
Path 20	2.9	614	1780
Path 21	2.8	270	756
Path 22	2.9	614	1780.6
Path 23	3	940	2820
Path 24	2.8	180	504
Path 25	2.6	55	143
Path 26	2.9	355	1030
Path 27	3	725	2175
Path 28	3	410	1230
Path 29	3.1	832	2580
Path 30	2.9	392	1137
Path 31	3.1	470	1457
Path 32	3	750	2250
Path 33	3	570	1710
Path 34	2.6	175	455
Path 35	3.1	870	2697
Total Area		19542	57802

Total area covered by Dense Trees

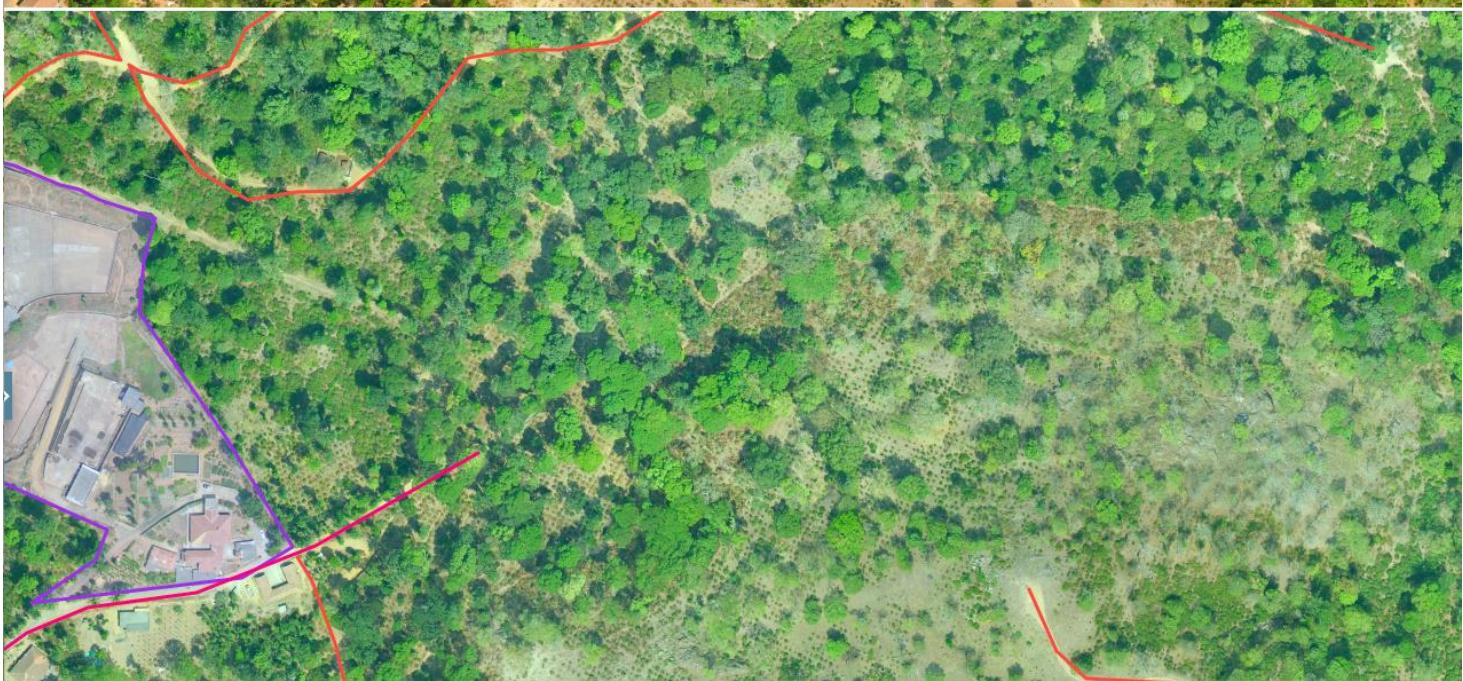


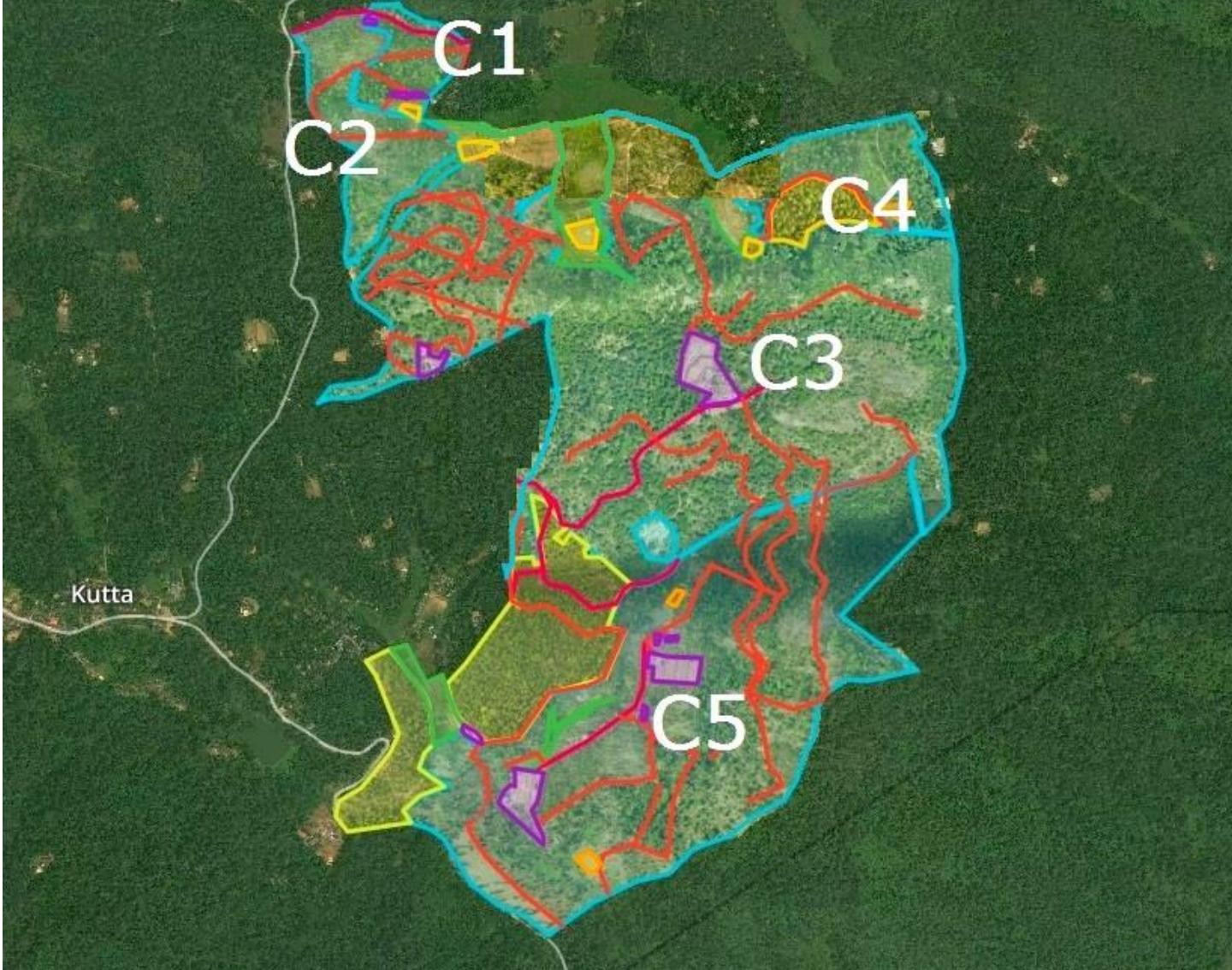


Dense Tree Region	Area
A1	10.35
A2	51.9
A3	19.5
Total Area	81.75

Total area under Dense trees = 81.75 acres

Area under plantation.

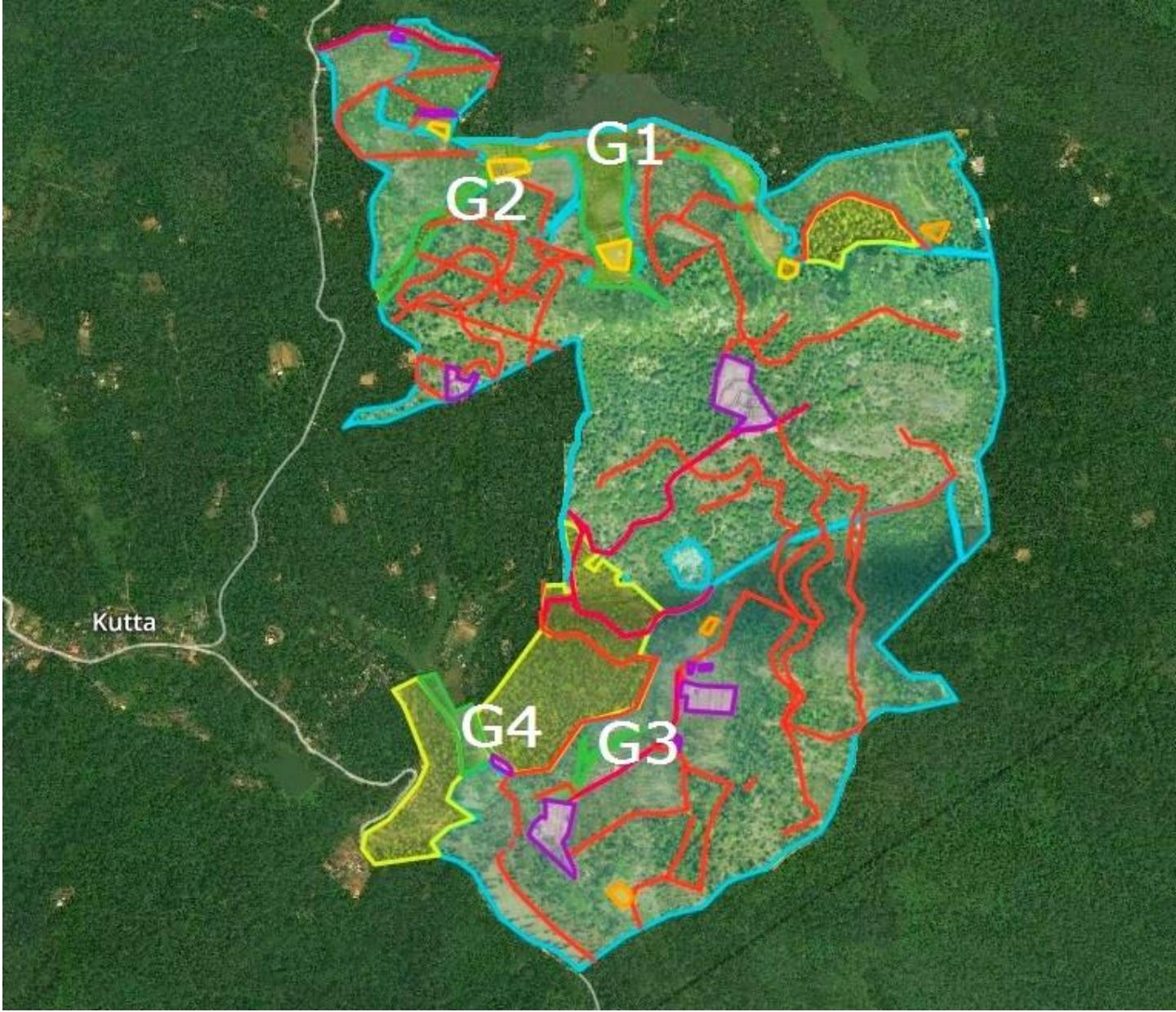




Plantation Region	Area
C1	18.53
C2	37.3
C3	377
C4	28.5
C5	257
Total Area	718.33

Total area under Plantation = 718.33 acres

Green area with paddy fields etc.



Green Area Region	Area
G1	13.33
G2	4.5
G3	2
G4	5
Total Area	24.83

Total Green Area = 24.83 acres

A 3D bird eye's view of the estate

(The client is provided with a 3d model of the estate wherein he can navigate and zoom in.)
Sample pictures --





Summary

Total area of the estate	848.38 acres
Total tarred road length inside estate	2.475 km
Total area covered by tarred road	2.43 acres
Total un-tarred road and path length inside estate	19.54 km
Total area covered by un-tarred roads and paths	14.28 acres
Total area covered by water bodies	4.74 acres
Total area covered by building and drying area	18.73 acres
Total area covered by dense trees and plantation	81.75 acres
Total area covered by sparse coffee plants	718.75 acres
Green area with paddy fields etc.	24.83 acres

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