

MAPPING OF FOREST AREA TO BE DIVERTED FOR HILL HIGHWAY – KOTTAYAM

REPORT

**Submitted to
PROJECT MANAGEMENT UNIT
KERALA ROAD FUND BOARD**



natpac

KSCSTE - NATIONAL TRANSPORTATION PLANNING AND RESEARCH CENTRE
An Institution of Kerala State Council for Science, Technology and Environment

DETAILS OF FOREST SECTION TO BE DIVERTED FOR HILL HIGHWAY IN KOTTAYAM DISTRICT

The Hill Highway alignment in the district of Kottayam runs through the forest section from Karingalmoozhi to Plachery, for a total length of 5.75km. This forest section falls under Plachery forest station, Erumeli Range, Kottayam division.

The forest land is present on both sides of the Hill Highway in some of the sections, while the same is present on one side only at some lengths. The available Right of Way in the concerned section is varying from a minimum of 9.7 to a maximum of 15.9m, which demands diversion of forest land at some portions to meet up with the stipulated width of 12m for the Hill Highway.

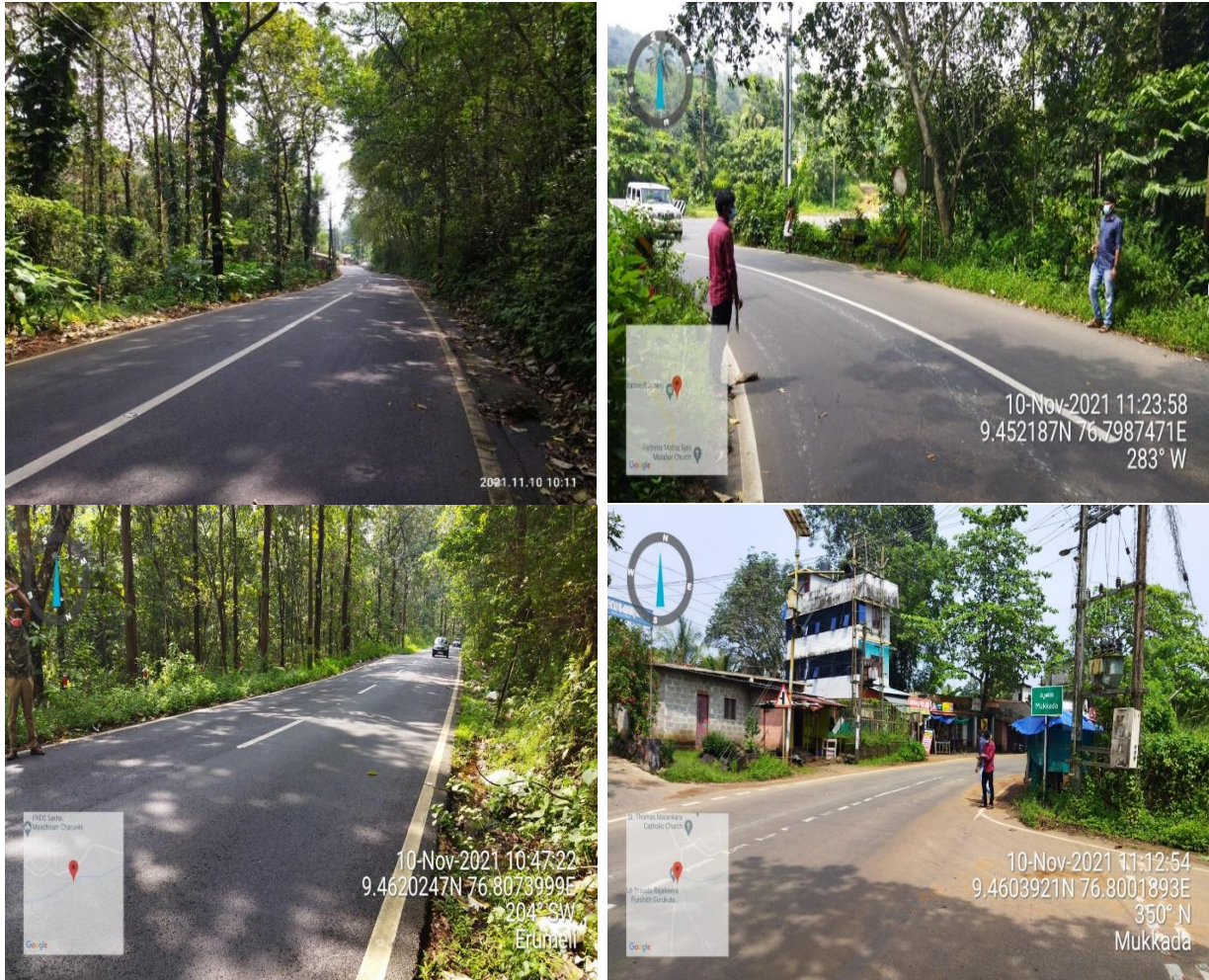
The details of the forest sections are as follows:

Sl. No.	Starting coordinates	Ending coordinates	Length (m)	Existing ROW (m)	Forest area to be diverted (sq.m)	Remarks
1	N9.46346, E76.8373	N9.4635, E76.83646	94	10.8 – 12	7.52	Forest area on LHS
2	N9.4635, E76.83646	N9.46352, E76.83616	32	10.8– 11.8	0.40	Forest area on LHS
3	N9.46352, E76.83616	N9.46349, E76.83567	53	10.7-11.8	41.075	Forest area on both sides
4	N9.46349, E76.83567	N9.46362, E76.83526	47	10.7-12.7	37.25	Forest area on both sides
5	N9.46362, E76.83526	N9.46365, E76.8348	51	11.9-12.7	30.60	Forest on both sides
6	N9.46365, E76.8348	N9.46409, E76.83292	240	11.4-11.9	146.4	Forest on both sides
7	N9.46409, E76.83292	N9.46397, E76.82854	500	11.4-11.8	237.5	Forest on both sides
8	N9.46397, E76.82854	N9.46519, E76.82299	650	11.8	34.903	Forest area on LHS
9	N9.46519, E76.82299	N9.46542, E76.8202	300	9.7-11.8	375.00	Forest on both sides
10	N9.46542, E76.8202	N9.46544, E76.81621	450	9.7-10.1	945.00	Forest on both sides
11	N9.46544, E76.81621	N9.46463, E76.81111	600	9.9-10.1	1200.00	Forest on both sides
12	N9.46463, E76.81111	N9.4645, E76.80895	260	9.9-11	253.50	Forest area on LHS
13	N9.4645, E76.80895	N9.46341, E76.80785	170	10.9-11	178.50	Forest on both sides
14	N9.46341, E76.80785	N9.4626, E76.80785	500	10.9-11.5	330.00	Forest area on

	E76.80785	E76.80389				LHS
15	N9.4626, E76.80389	N9.46337, E76.80179	250	11.5-15.9	8.75	Leased forest land (LHS) to central government (Rubber Nursery), place is Mukkada Junction
18	N9.45924, E76.79977	N9.45434, E76.79938	550	11.2-11.8	275.00	Forest on both sides
19	N9.45434, E76.79938	N9.45175, E76.79761	400	10.1-11.2	540.00	Forest on both sides
Total Forest area to be diverted in sq.m						4641.398
Total Forest area to be diverted in Ha						0.4641 ¹

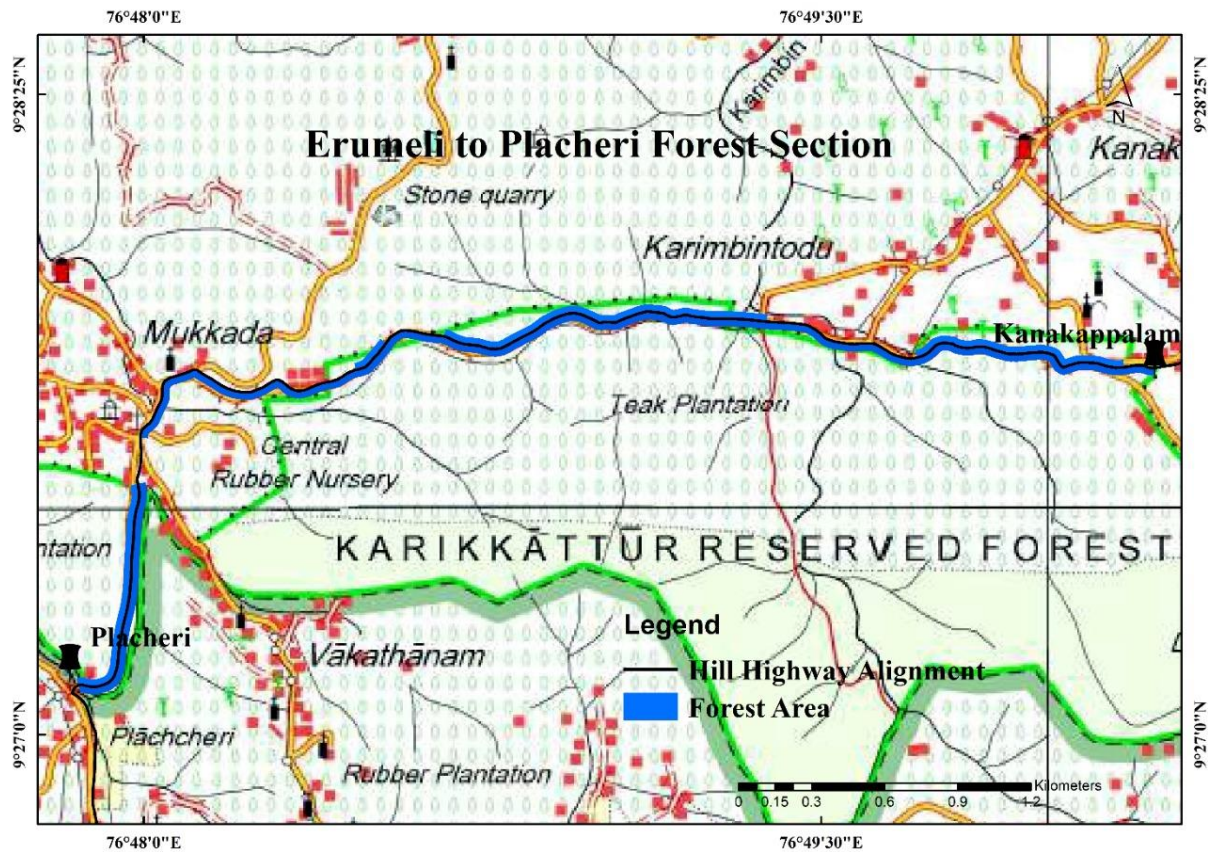
A total of **0.46 Ha** of forest land needs to be diverted for the development of Hill Highway in Karingalmoozhi to Placheri section in Kottayam district.

¹ The calculation is based on the assumption that road widening will be carried out concentrically from the centre line. The calculated area may change when the alignment is designed to meet with the geometric standards.



Karingalmoozhi to Placheri section

The alignment showing the forest sections are shown in the attached toposheet map.



Karingalmoozhi to Placheri section shown in Toposheet