

ALTERNATIVE ROUTES ASSESSED & SELECTED ALIGNMENT

1. Alternative Routes assessed:

Three alternative routes were assessed, which are discussed below:

Alignments	Latitude	Longitude	Elevation Difference
ALIGNMENT 1	L.T.P- 22°24'55.06" N U.T.P- 22°24'55.53" N	L.T.P- 78°25'33.88" E U.T.P- 78°26'23.88" E	60 m
ALIGNMENT 2	L.T.P- 22°24'55.06" N U.T.P- 22°24'55.43" N	L.T.P- 78°25'33.80" E U.T.P- 78°26'28.09" E	59 m

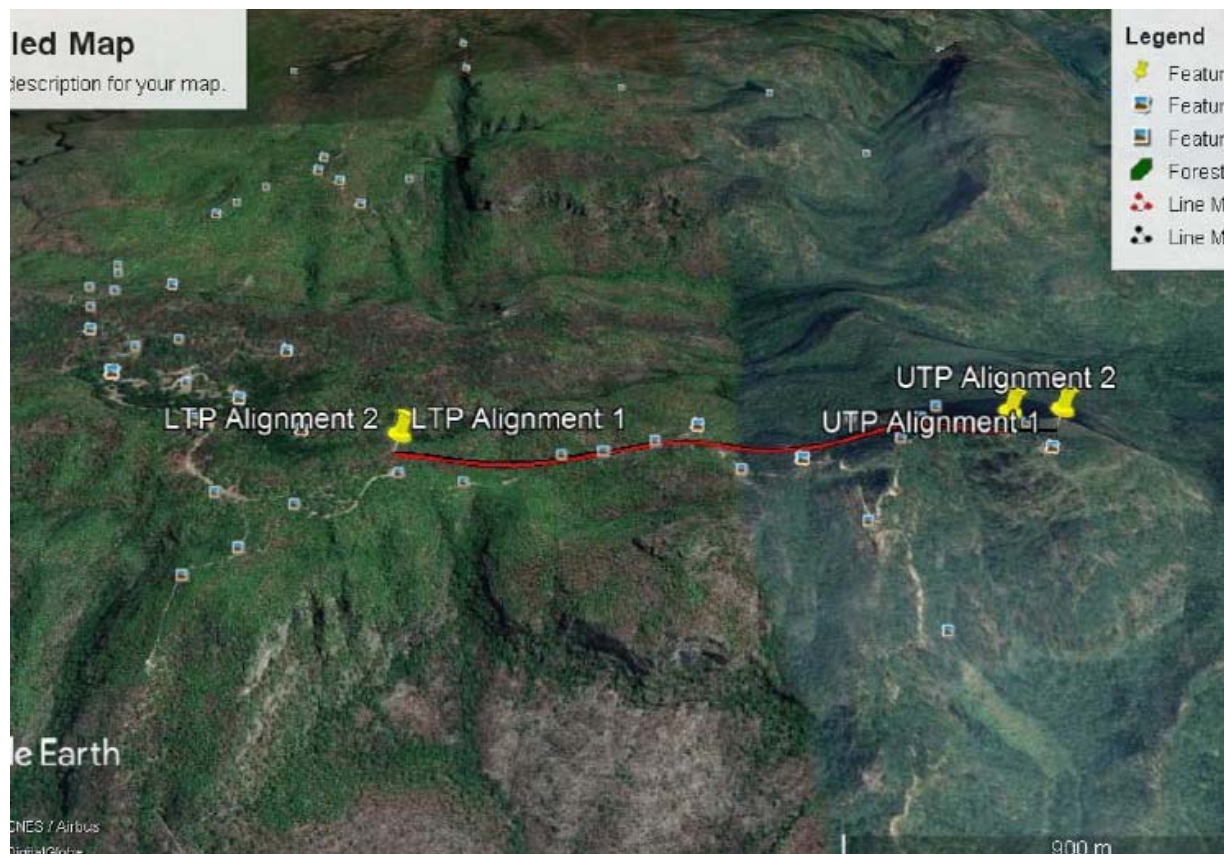
2. Merits & Demerits

The relative merits & demerits of all the two alternatives are as below:

ALIGNMENT 1	ALIGNMENT 2
<u>Merits:</u> <ol style="list-style-type: none">1. Availability of adequate space for proposed terminal stations.2. Passengers can easily access to ropeway station.3. Low density of forest cover thereby reducing & number of trees to be felled.4. Minimum possible infringement with the environment.5. No rehabilitation or relocation involved.6. Length is less hence project cost is also less.7. Economically Viable because of project cost is less.	<u>Demerits:</u> <ol style="list-style-type: none">1. High density of forest covers there after increasing number of trees to be cut.2. Length is more hence project cost will be more.3. More forest land will be required causing infringement with the environment.4. Project cost is more so economically is not viable.

3. Selected Alignment:

Out of the two alternative routes the **Alignment-1** demarcated by red line on the Google map below was found appropriate as it was the most stable stretch, the requirements of space was minimum and minimal no. of trees will be disturbed. The two alternative alignments are shown in the figure below:



The total length of proposed ropeway alignment is working out to be 1423 meter (approx.).

The U.T.P is proposed at Chauragarh Mahadev Mandir, as the location for the upper station is fixed.

4. Justification for choosing the Alignment-1

Chauragarh Mahadev Mandir is situated at the top of the hill at Village – Pachmarhi, Tehsil - Pipariya, Dist. Hoshangabad, Madhya Pradesh.

The reason for choosing the Alignment 1 is:

- i. Low density of forest cover thereby reducing Number of trees to be felled.
- ii. Minimum possible infringement with the environment.
- iii. Length is less as compare to other alternatives hence project cost will be less.
- iv. Easily accessible by senior citizen, handicapped as the project are in public interest.