



## ALTERNATIVE STUDIES

Widening and Strengthening of Dhillon Nagar (Moga) –Bajakhana (Lambwali) Section of NH 105B to four Lane with Paved Shoulder from Ch. 0+000 to Ch.38+441 under BHARATMALA Pariyojna, (Package-IV) in districts of Moga and Faridkot in the State of Punjab on Hybrid Annuity Mode

### 4.1 FEEDER ROUTE (BAJAKHANA-BHAGTA BHAI KA-BAGHAPURANA-DHILLON NAGAR)

After the delineation of homogeneous section, each section has been critically evaluated to identify the probable locations of alternate route. If alternate route is require in any homogeneous section then further extensive study has been carried out to evaluate the best alternative on the basis of Social, Environmental, Engineering and Economic analysis. The details of each homogeneous section presented in Table below.

**Table Error! No text of specified style in document.-1: Homogeneous Section**

Existing Chainage (km)		Existing Road Length (km)	Road Section	Remarks	Proposed Length (km)	
From	To				Bypass/Realignment	New
5.800	8.900	3.100		H-1		
8.900	11.600	2.700	Singhawala Settlement	H-2	Option-1 (3.500)	(km)
					Option-2 (4.000)	(km)
11.600	14.500	2.900		H-3		
14.500	19.700	11.600	Bagha Settlement Purana	H-4	Option-1 (11.500)	(km)
0.000	6.400				Option-2 (13.000)	(km)
6.400	8.900	2.500		H-5		
8.900	11.600	2.700	Sangat Settlement Pura	H-6	Km 3.200	
11.600	13.600	2.000		H-7		
13.600	18.400	4.800	Tharaj Settlement	H-8	Km 5.900	
18.400	19.700	1.300		H-9		
19.700	23.700	6.400	Bhagta Settlement Purana	H-10	Km 5.400	
47.600	50.00					
50.000	58.400	8.400		H-11		

The description of homogenous section described by the consultant based on various criterions as described above is given next for the project corridor including the alternate route selection. The description is given by showing the road alignment on topography map (GIS Environment) of the project road.



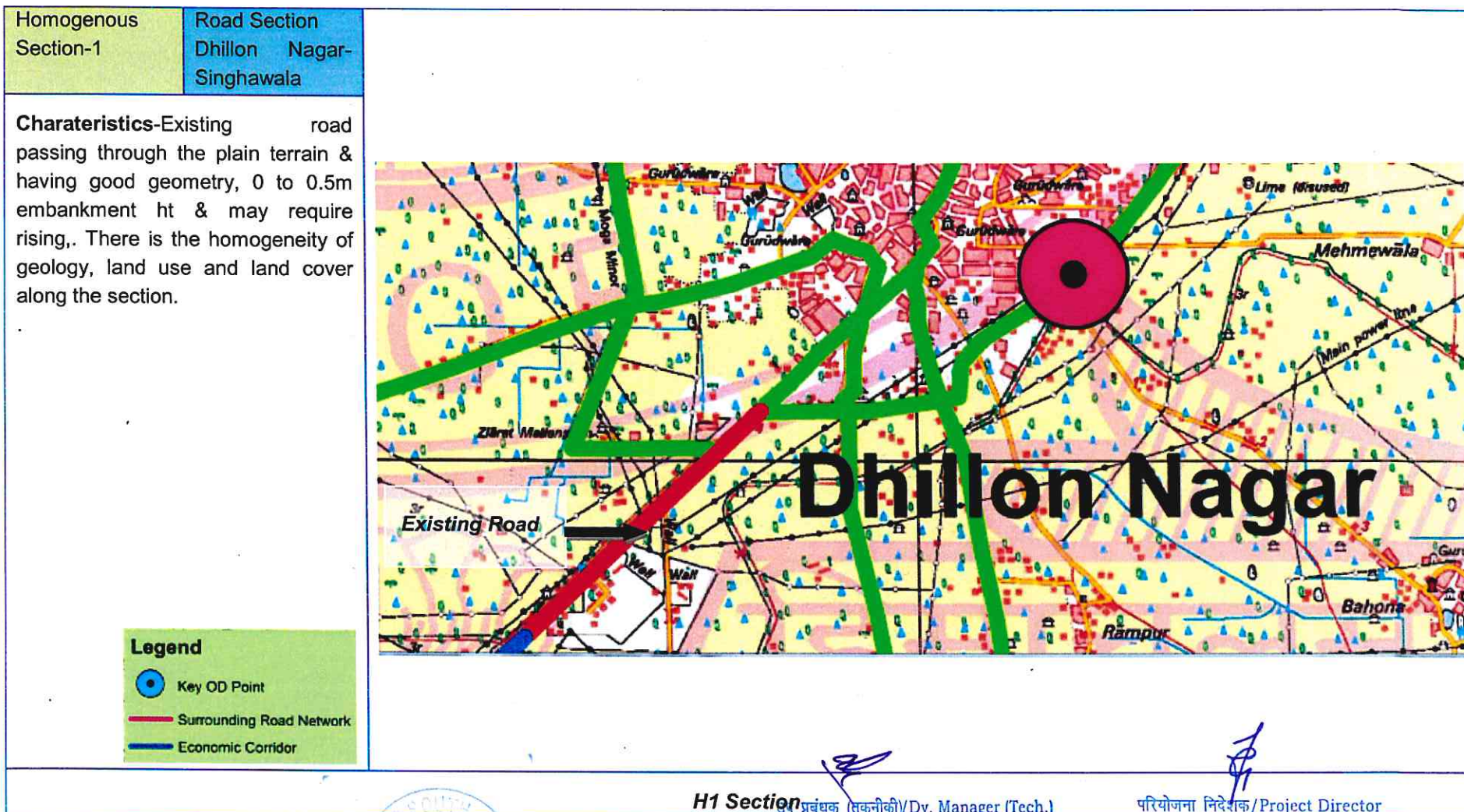
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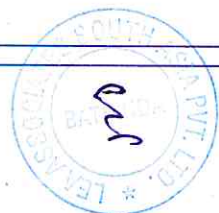
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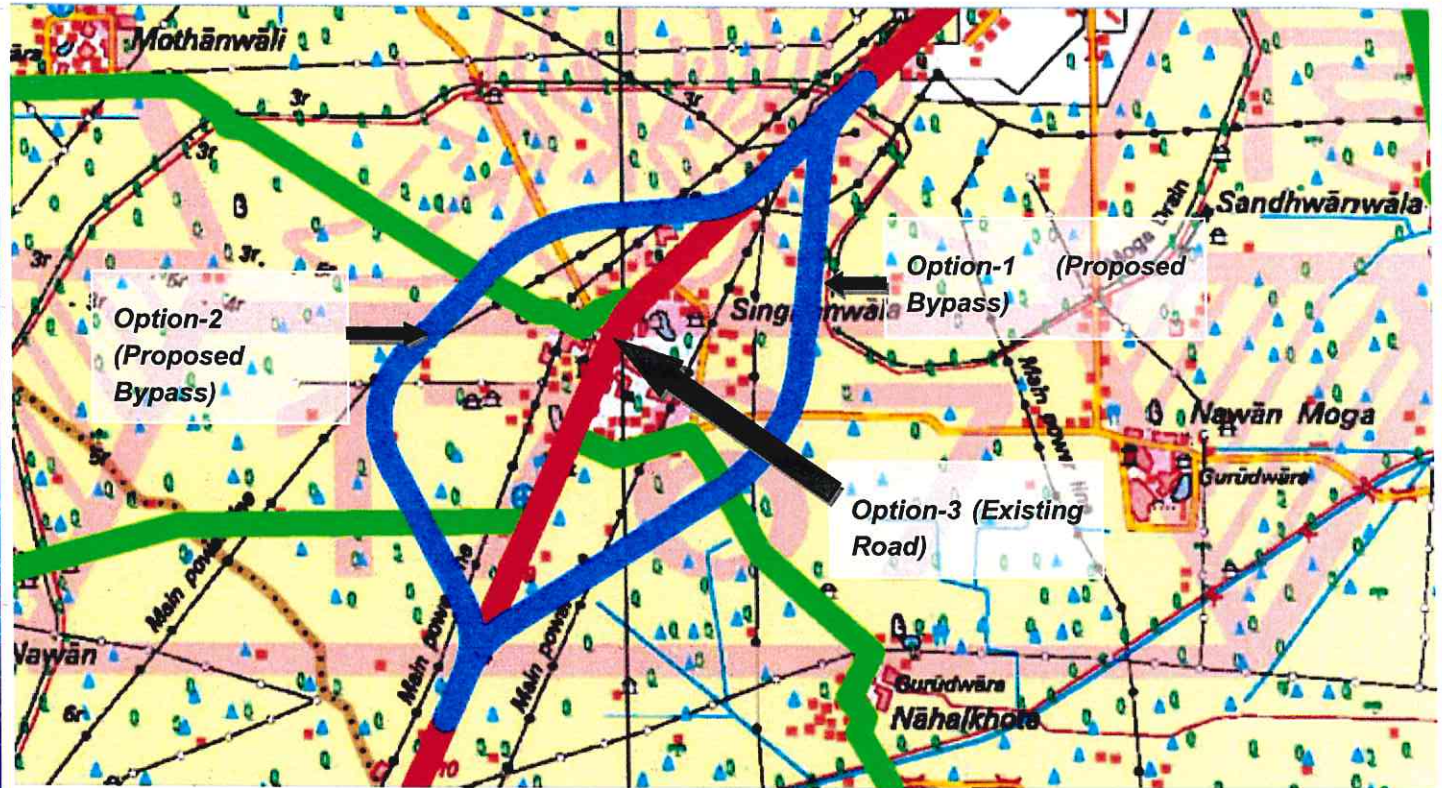

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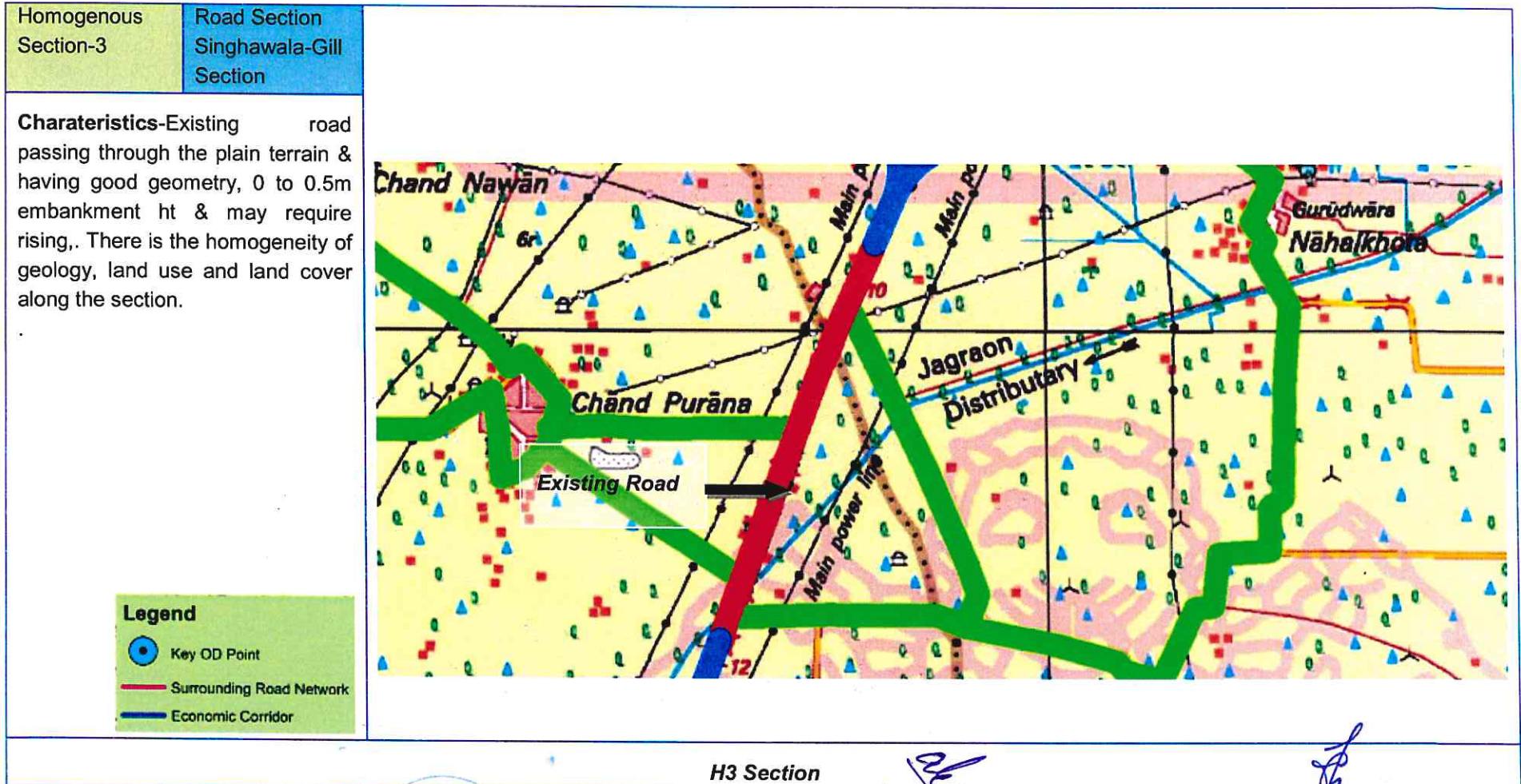
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Homogenous Section-2	Road Section Singhawala Built Up Section	
<p><b>Characteristics-</b> Existing road passing through densely populated and built up section of Singhawala village on both side of existing road, therefore widening of existing road to 4 lane standard is difficult and a proposal of New Bypass/Realignment.</p> <p><b>Key Points for New Proposed Bypass:</b></p> <ul style="list-style-type: none"> <li>• Lack of Row</li> <li>• Built up section</li> <li>• New Alignment to cater Local Traffic and OD Points</li> </ul> <p>The proposed bypass is bypassing the Singhawal village which is conjusted village. The preffered option is 1 due to lesser length and structures.</p>		<p><b>H2 Section</b></p>
		<p>उप प्रबंधक (तकनीकी)/Dy. Manager (Tech.) भा.रा.रा.प्रा./N.H.A.I. प.का.ई.-बठिंडा/PIU-Bathinda</p> <p>परियोजना निदेशक/Project Director भा.रा.रा.प्रा./N.H.A.I. प.का.ई.-बठिंडा/PIU-Bathinda</p>

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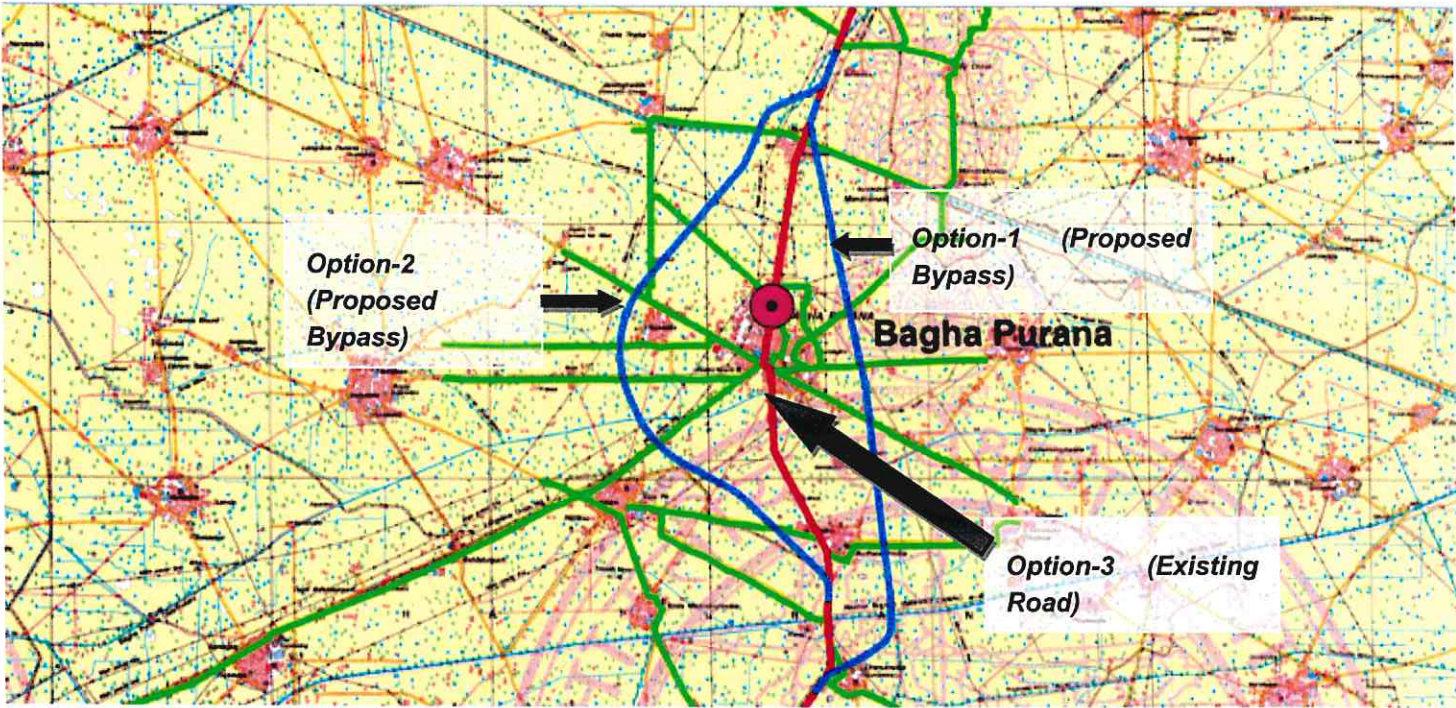


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Homogenous Section-4	Road Section Baghapurana Bypass
<p><b>Characteristics-</b> Existing road passing through densely populated and built up section of Singhawala village on both side of existing road, therefore widening of existing road to 4 lane standard is difficult and a proposal of New Bypass/Realignment.</p>	
<p><b>Key Points for New Proposed Bypass:</b></p>	<p><b>Option-1 (Proposed Bypass)</b></p> <p><b>Option-2 (Proposed Bypass)</b></p> <p><b>Option-3 (Existing Road)</b></p>
<ul style="list-style-type: none"> <li>• Lack of Row</li> <li>• Built up section</li> <li>• New Alignment to cater Local Traffic and OD Points</li> </ul>	<p><b>Bagha Purana</b></p>
<p>The proposed bypass is bypassing the Baghapurana town which is conjoined town. The preferred option is 1 due to lesser length and lesser no. of structures.</p>	<p><b>H4 Section</b></p>

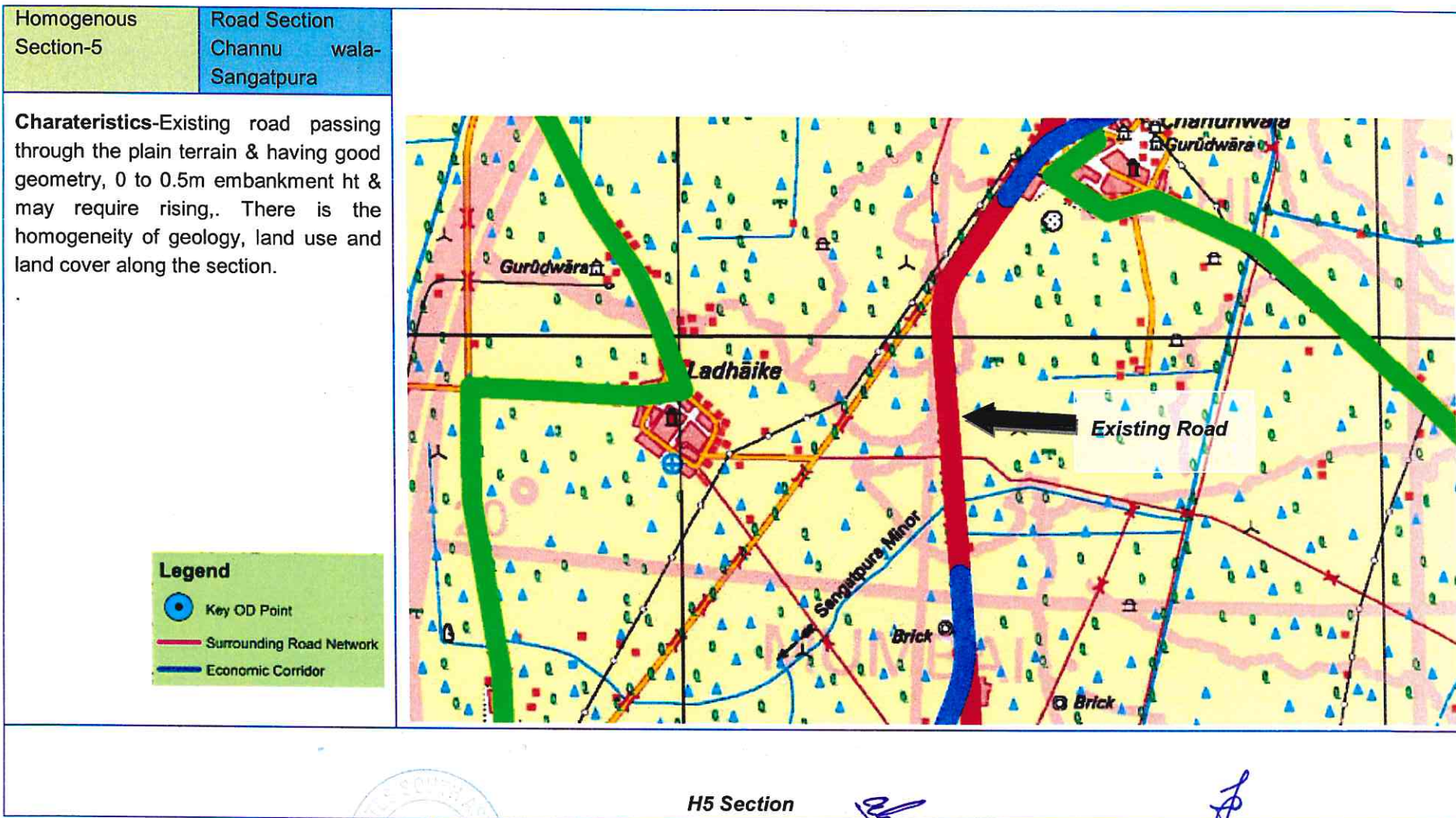


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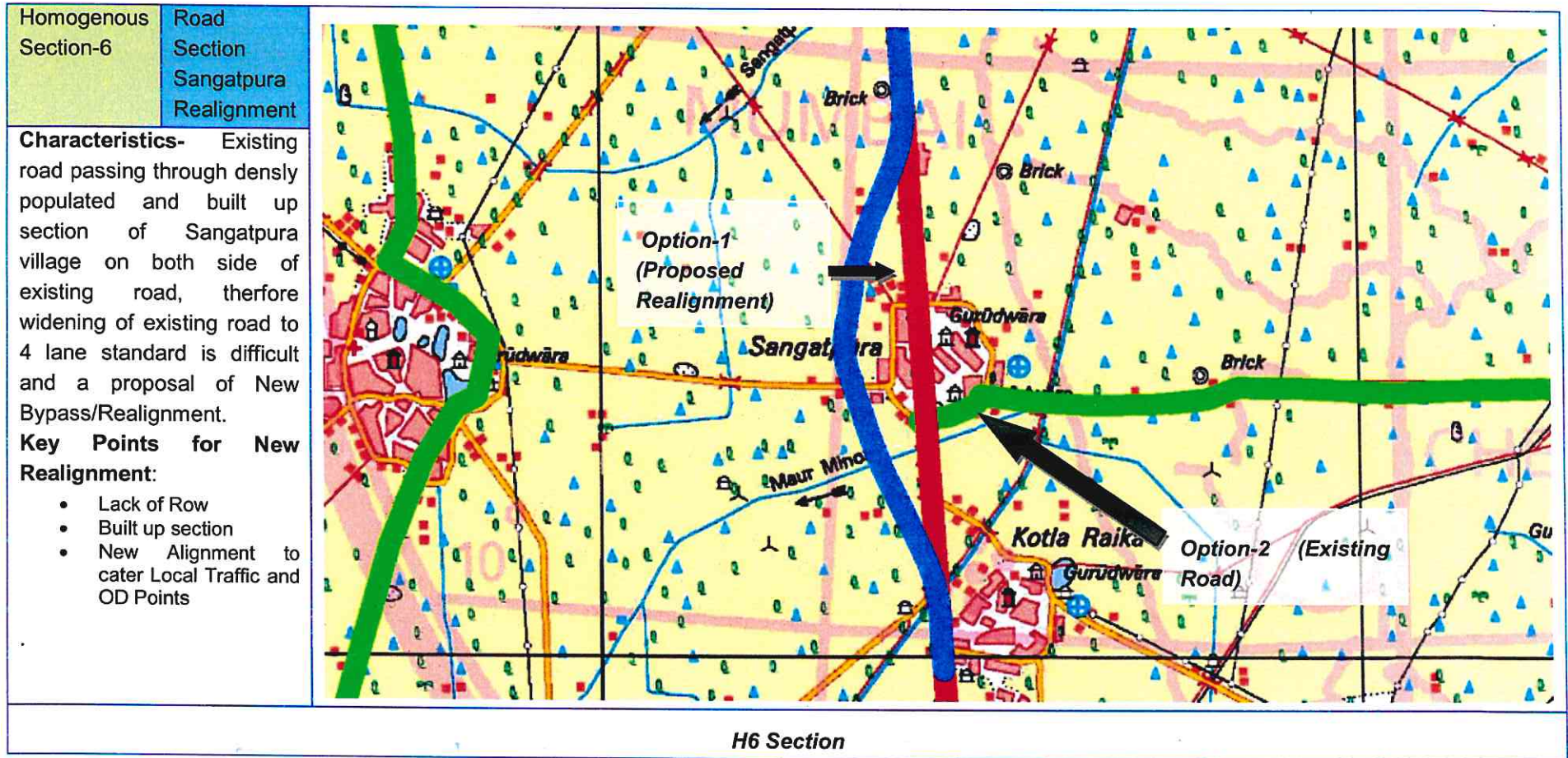


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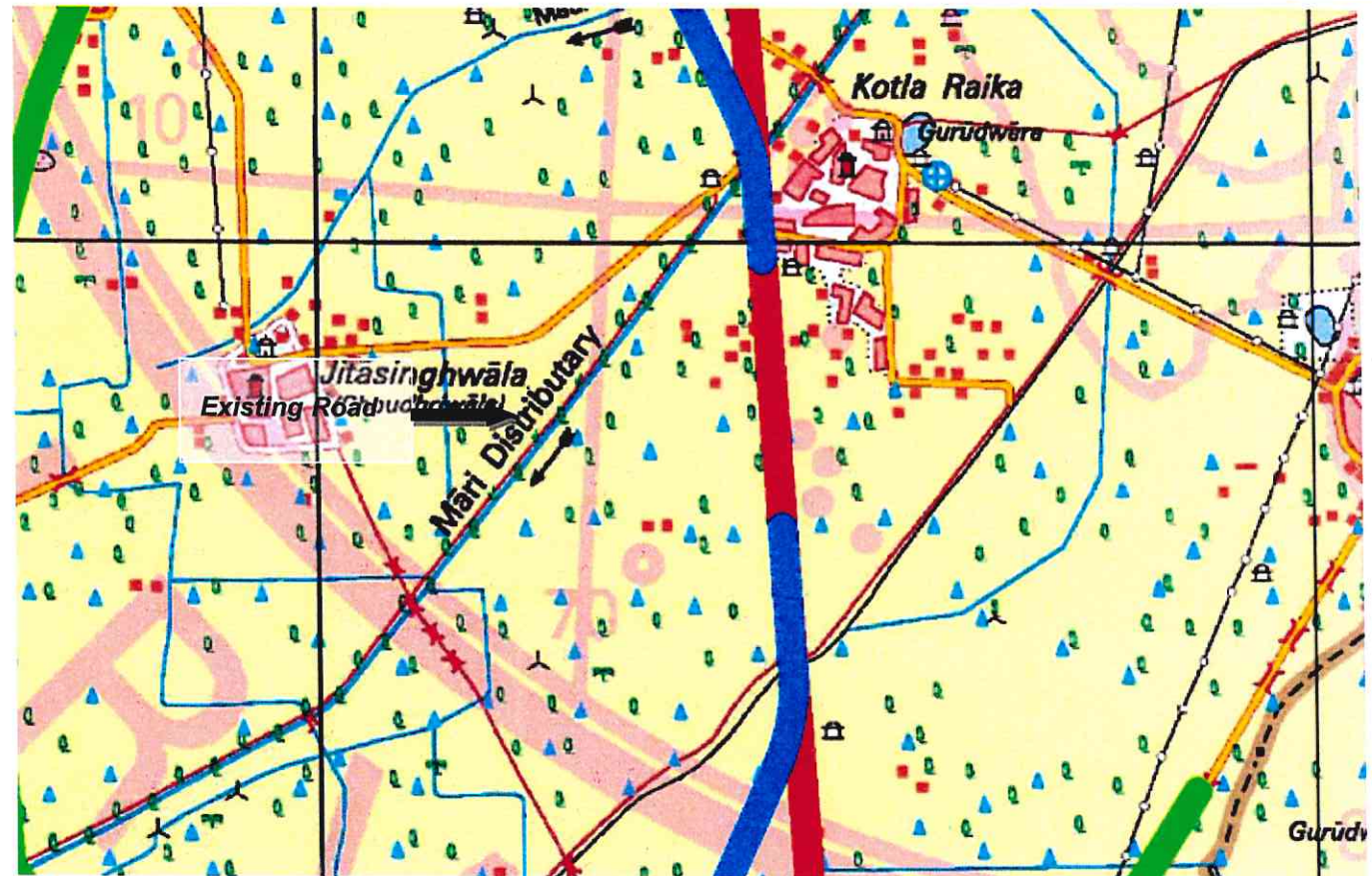
Homogenous  
Section-7

Road Section  
Sangatpura-Thiraj

**Charateristics**-Existing road passing through the plain terrain & having good geometry, 0 to 0.5m embankment ht & may require rising,. There is the homogeneity of geology, land use and land cover along the section.

### Legend

-  Key OD Point
-  Surrounding Road Network
-  Economic Corridor



H7 Section

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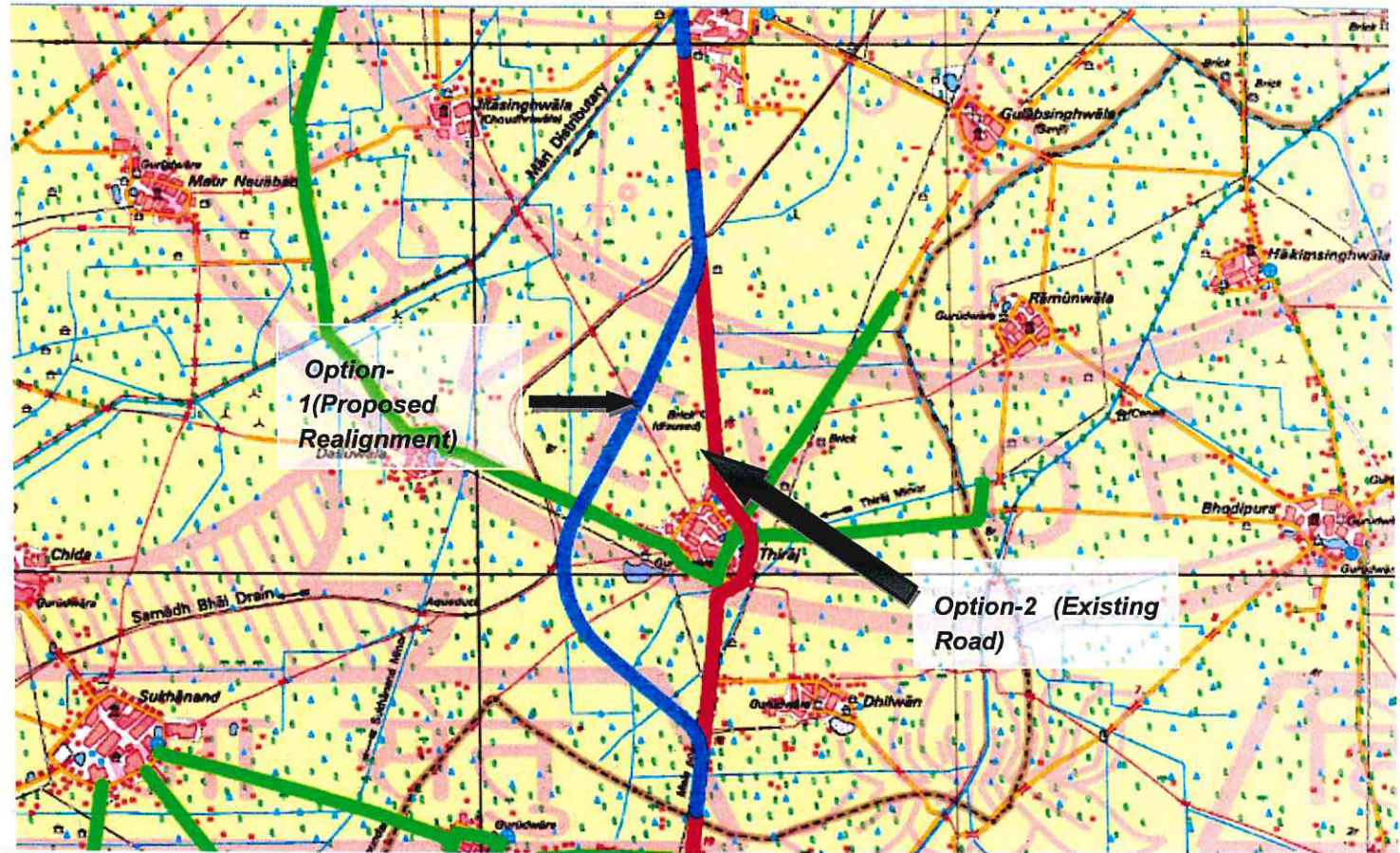
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Homogeneous Section-8  
Road Section-8  
Thiraj Realignment

**Characteristics-** Existing road passing through densely populated and built up section of Thiraj village on both side of existing road, therefore widening of existing road to 4 lane standard is difficult and a proposal of New Bypass/Realignment.

**Key Points for New Realignment:**

- Lack of Row
- Built up section
- New Alignment to cater Local Traffic and OD Points



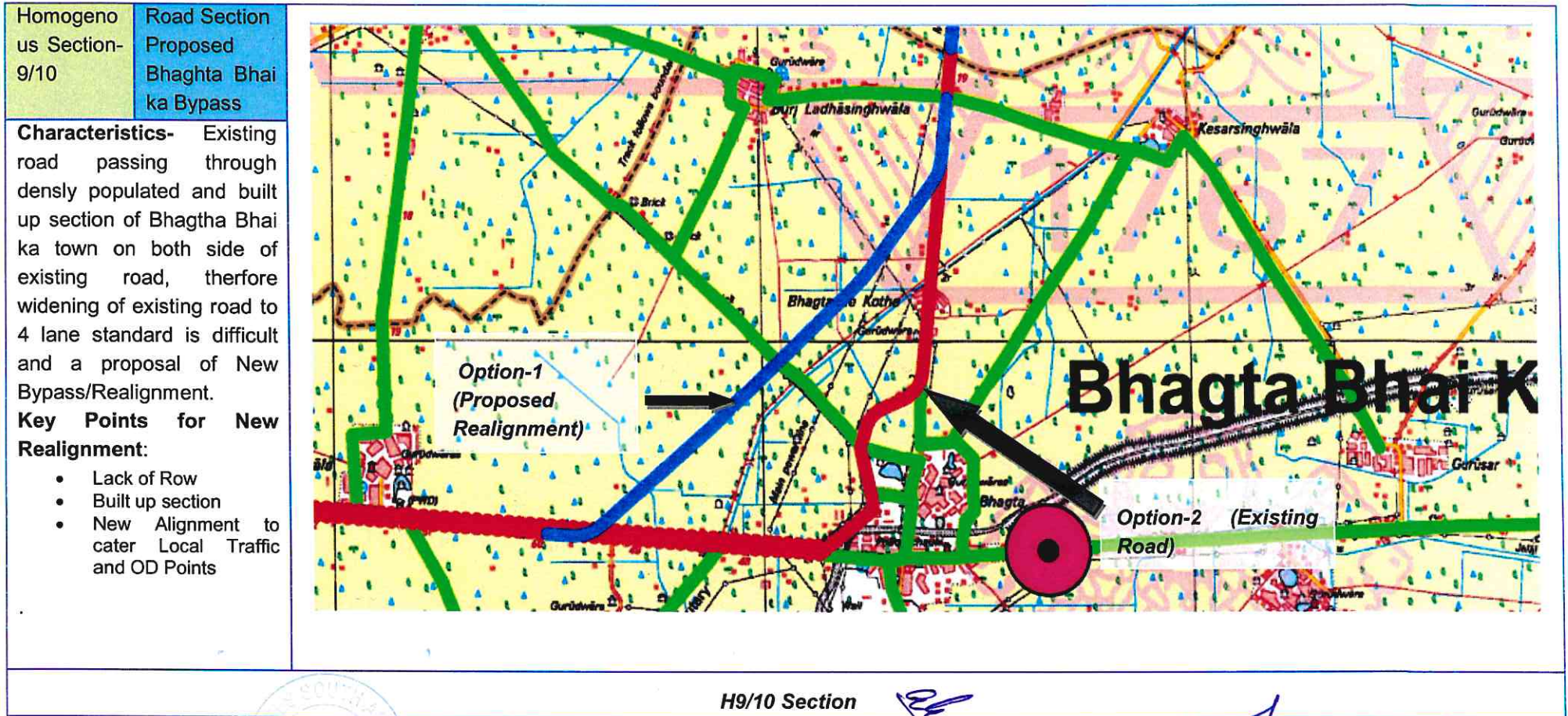
H8 Section

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H9/10 Section

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H11 Section



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