

### **Project Justification**

The new Greenfield alignment is proposed to be constructed with divided 6 lanes carriageways configuration. The project starts from Ch.km 152.00 of Bangalore Chennai proposed expressway in Chittoor and ends in Thatchur on Tirupati Road near Panapakkam Village. The proposed alignment traverses for a length of 75 km in Chittoor district of Andhra Pradesh and 41.500 km of Thiruvallur district in Tamil Nadu. Total length of the proposed greenfield alignment is 126.550 km (116.100 km as a part of Bharatmala project and remaining 10.45 km overlapping portion with Tamil Nadu State Chennai Peripheral Road project (CPRR)).

The project road passes through two districts namely Chittoor in Andhra Pradesh and Thiruvallur in Tamil Nadu. The proposed road intersect at km. 3.465 (Existing NH-4 (Vellore Road)), km. 12.450 (SH 54), km 44.558 (SH-108), km 60.383 (NH-205/716), km 66.886 (Nalathur Road), km 95.507 (SH-50), km 112.672 (SH-50A), km 116.518 (Ngalapuram Road / Tirupati Road) and km 124.676 (NH-5).

The Land use pattern within 10 km on either side of project area is predominantly agriculture followed by barren and settlement area. The project road crosses River Ponnai at km 14.500, Nagari River at km. 65.700 and Arani river at 2 location at in km 100.200 and km 109.000

The project road passes through 74 villages (Chittoor District (AP) - 46 and Thiruvallur District (TN)-28). The Major built-up areas along the alignment, are Mapakshi, Chittoor, Lakshmambapuram, Gollapalle, Arathala, GD Nellore, Vepanjeri, Kalepalle, Vinjam, Suparvarajapuram, Sindhurajapuram, Venkatarajapuram, Perumanullur, Karimbedu, Melapattu, Nagari, Padiri, Nindra, Pulipadu, Puducheri, Uttukkotai, Palavakkam, Periyapalayam, Kannigaipair, and Thatchur.

The project Road mainly passes through barren and agricultural land in the state of Tamil Nadu. However, at few locations the proposed Project road passess through the forest. A total of 14.0290 Ha area of Forest is affected by the proposed alignment. The details of the same is provided in the Table below.



**Project Director**  
**National Highways Authority of India**  
**Project Implementation Unit**  
**Kancheepuram**

S . N o	District Name	Main Village Name as per revenue village map	Group Village Name as per A- Register Records	Effecte d Survey Number	Chainage (km)		Total Length (m)	Affected Area (Ha)
					From	To		
1	Tiruvallur	Perumanall ur	Thirumalraj upettai	78/2	42+245. 05	42+759. 10	514.050	3.4186
2	Tiruvallur	Nediyam	Kellpudi	200	50+133. 20	50+303. 95	170.750	0.3348
3	Tiruvallur		Kellpudi	200	50+404. 94	50+798. 09	393.150	2.8414
4	Tiruvallur		Samanthaw ada	280	50+798. 09	51+276. 55	478.460	4.0639
5	Tiruvallur		Samanthaw ada	301	53+102. 60	53+383. 76	281.160	1.4046
6	Tiruvallur	Karimbedu	Puniyam	276	53+863. 64	54+161. 02	297.380	1.9656

<b>Total</b>	<b>2134.950</b>	<b>14.029</b>
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Figure 01 to 03 shows the locations where project road passes through the Forest locations (shown in Green shade) and Non Forest Locations (shown in Orange shade) in the state of Tamil Nadu. The northern side of the project road lies the Ponnai river and the settlements. The forest locations stretch on the southern side of the proposed road. Any shifting of the alignment to the north will affect the existing settlements and will make it flood prone due to river in proximity. Also, shifting of the alignment to the south will result in the increase of the affected area of the forest. Therefore, the alignment is at the most optimized location affecting minimum nearby settlements, forest are and is away from the flood plain of Ponnai River.



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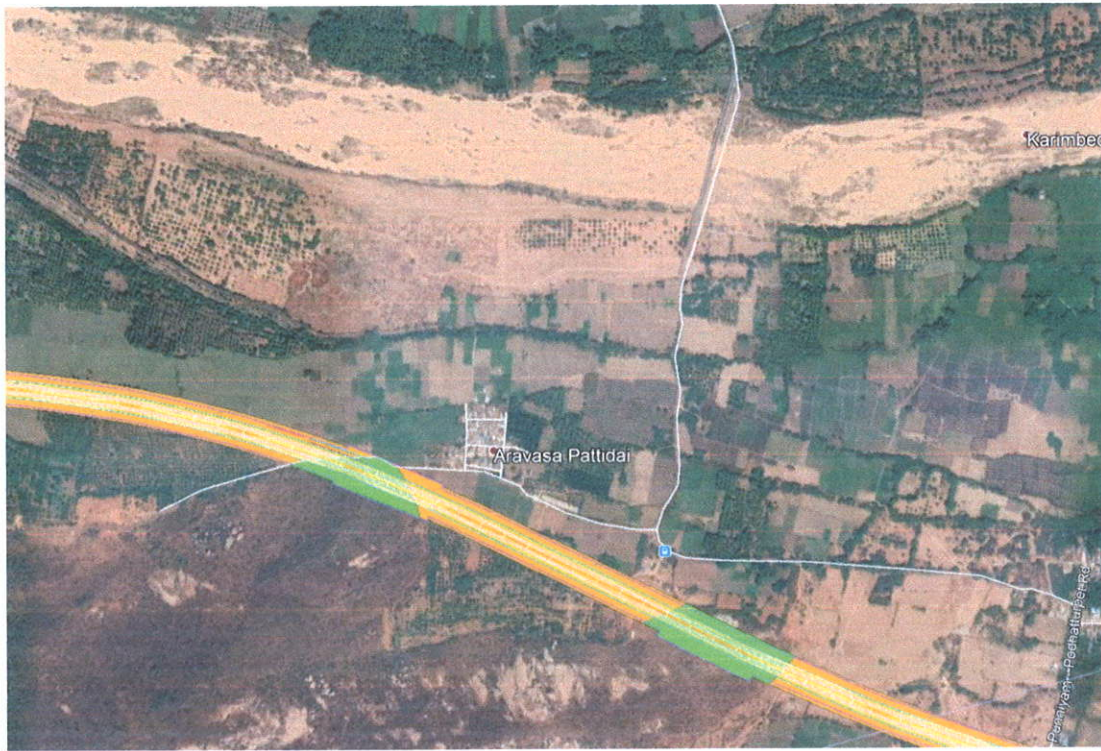


**Figure 01: Forest Location in Thirumalrajupettai/ Perumanallur Village (Ch. 42245.05 to 42759.10)**



**Figure 02: Forest Location in Kellpudi / Samanthawada/ Nediya Village (Ch. 50+133.20 to 50+303.95, Ch. 50+404.94 to 50+798.09, Ch. 50+798.09 to 51+276.55 & Ch. 53+102.64 to 53+383.76)**





**Figure 03: Forest Location in Puniyam / Karimbedu Village (Ch. 53+863.64 to 54+161.02)**



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