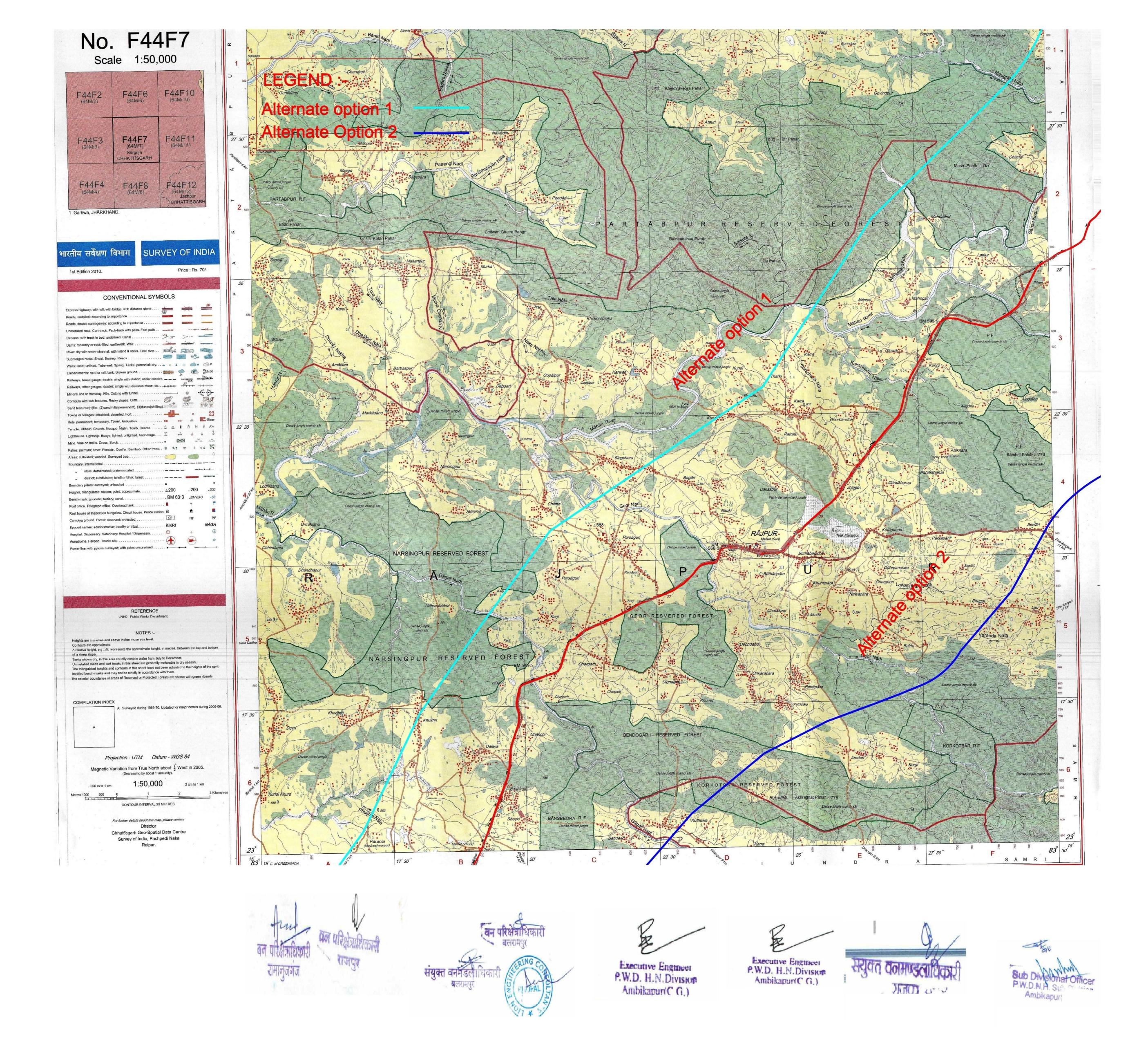
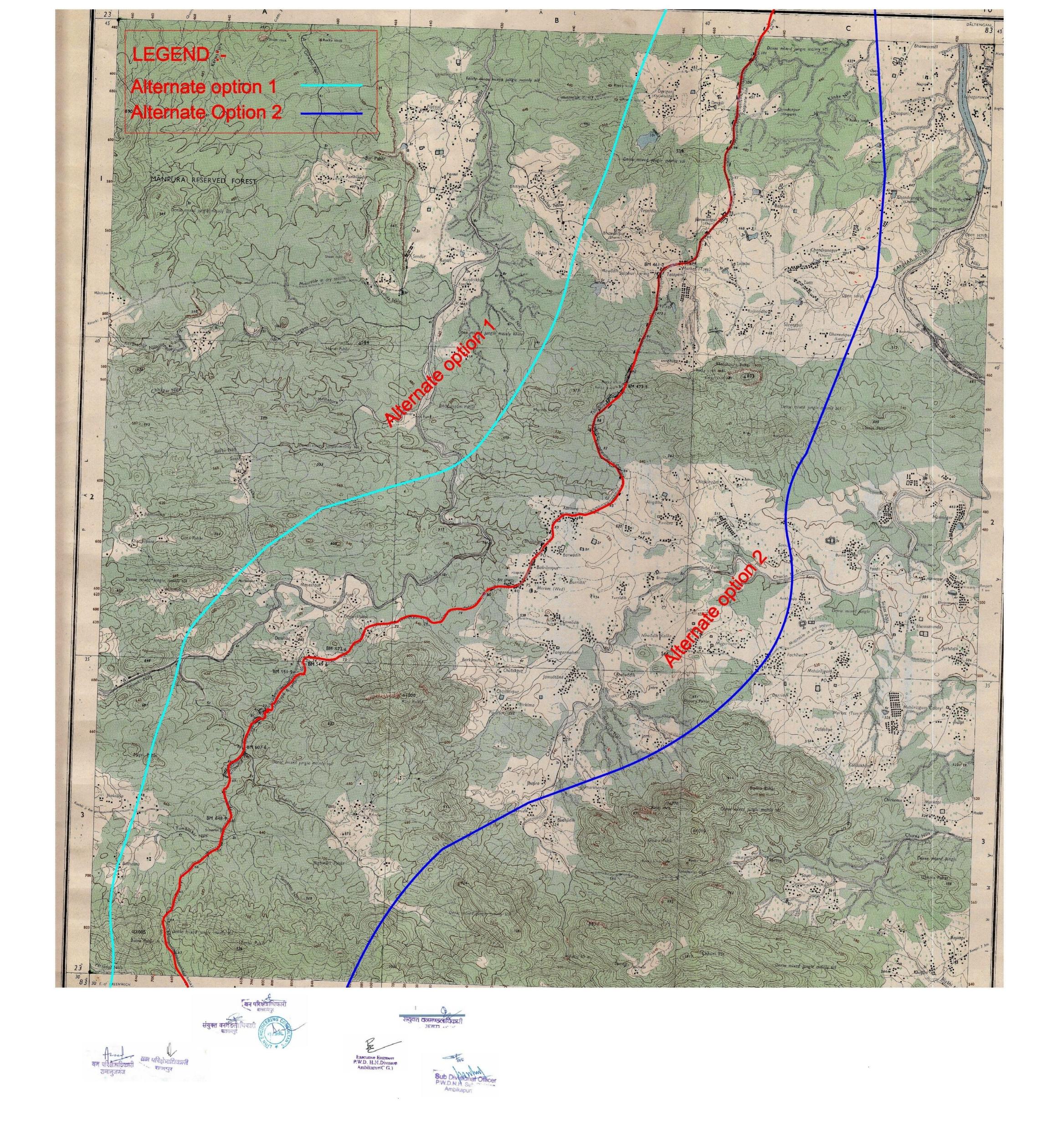
Comparison of Alignment					
Widening & O					
S.No.	Description	Improvement of Existing Alignment	Option on LHS of Existing Highway	Option on RHS of Exiting Highway	
Technical Aspects					
1	Length in Kms	114,800	120.500	126,300	
2	Terrain	Plain/Rolling/Hilly			
3	Design Speed in KMPH	80-100	80	100	
4	Railway Crossing	Nil	Nil	Nil	
5	Major & Minor Bridge	4 Major & 38 Nos	5 Major & 40 Minor	5 Major & 44 Minor	
Safety	y Aspects				
6	Horizontal alignment as per IRC SP:73:2018 "Two Laning Manual)	For improvement of Horizontal alignment			
7	Vertical Geometric as per IRC SP:73:2018 "Two Laning Manual)	For improvement of Vertical alignment			
Environmental Aspects					
8	8 Forest Area (Sarguja & Balrampur)				
Α	Reserve Forest	6.376	9.10	11.30	
В	Protected Forest	88.261	93.30	98.50	
С	Revenue Forest	7.687	8.94	7.85	
9	Forest diversion to be Required	102.234	111.34	117.65	
10	Tree felling	29636 Nos	33465 Nos	35543 Nos	
11	Protected Areas involved (WLS, NP, BR etc.)	Nil	Nil	Nil	
12	Merits / Demerits of Alignment	1. Horizontal geometric will be as per IRC SP:73 i.e. 80-100KMPH	1. Horizontal geometric will be as per IRC SP:73 i.e. 80- 100KMPH	1. Horizontal geometric will be as per IRC SP:73 i.e. 80-100KMPH	
		2. Vertical geometric will be achieved as per IRC SP:73 i.e. 3.3%	2. Vertical geometric may not be achieved as per IRC SP:73 i.e. 3.3%	2. Vertical geometric may not be achieved as per IRC SP:73 i.e. 3.3%	
		3. Less cutting & filling will be required	3. Huge cutting & filling will be required	3. Huge cutting & filling will be required	
		4. Forest diversion required as per 30m ROW	4. Forest diversion required more than to other option	4. Forest diversion required more than to other option	
		5. Traffic Diversion not possible during construction.	5. Traffic Diversion possible during construction.	5. Traffic Diversion possible during construction.	
13	Tentative cost in Crores	1. Civil Construction - 617.23	1. Civil Construction - 638.13	1. Civil Construction - 642.123	
		2. Forest Diversion cost - 30.87	2. Forest Diversion cost - 31.90	2. Forest Diversion cost - 32.11	
		Total - 648.10	Total - 670.03	Total - 674.23	
14	Conclusion	Most Feasible alignment as per Technical, Safety & Environmental aspects	The alignment on LHS side is not feasible due to Maximum Hill cutting & Forest Area	The alignment on RHS side is not feasible due to Maximum Hill cutting & Forest Area	

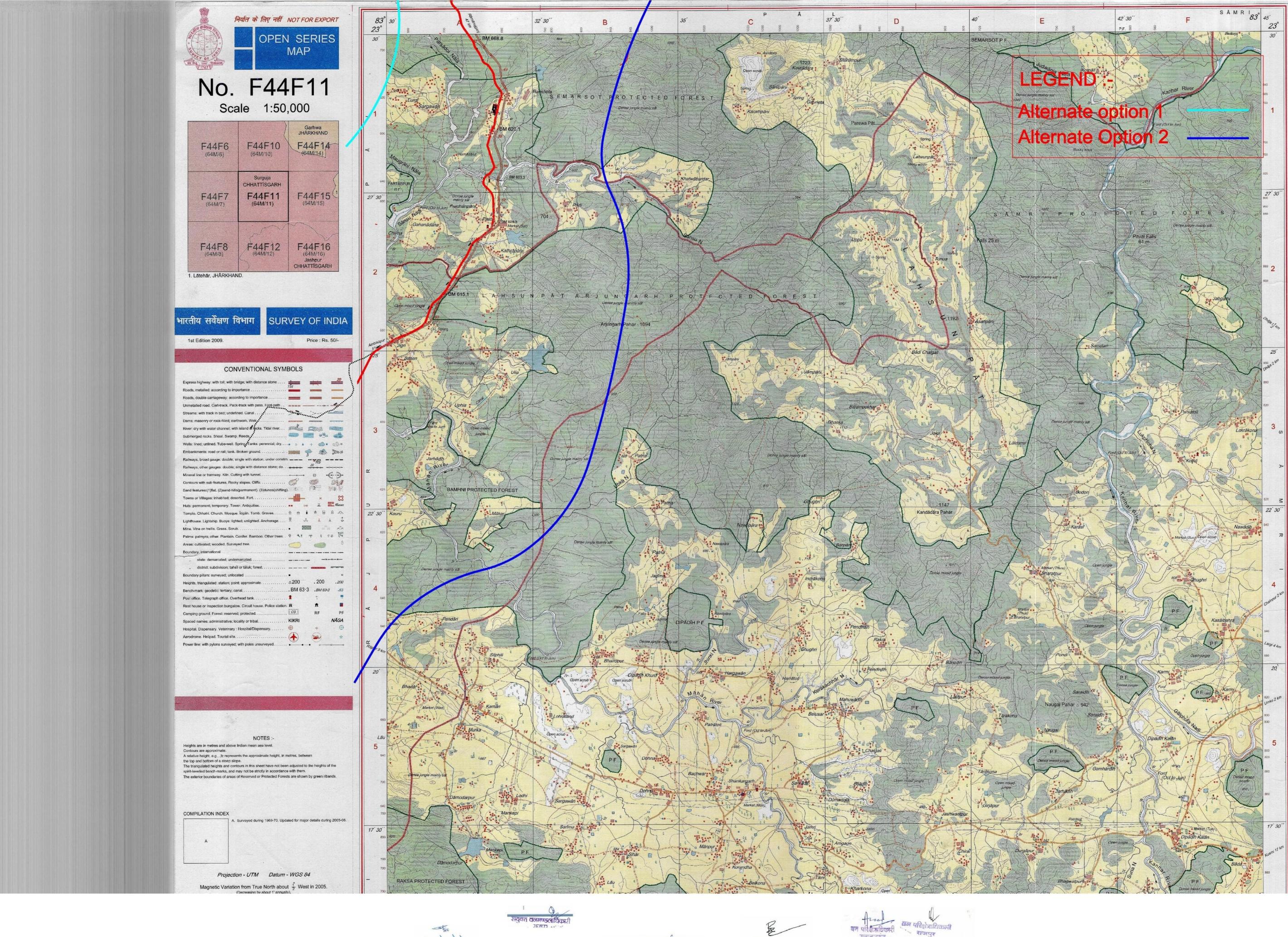










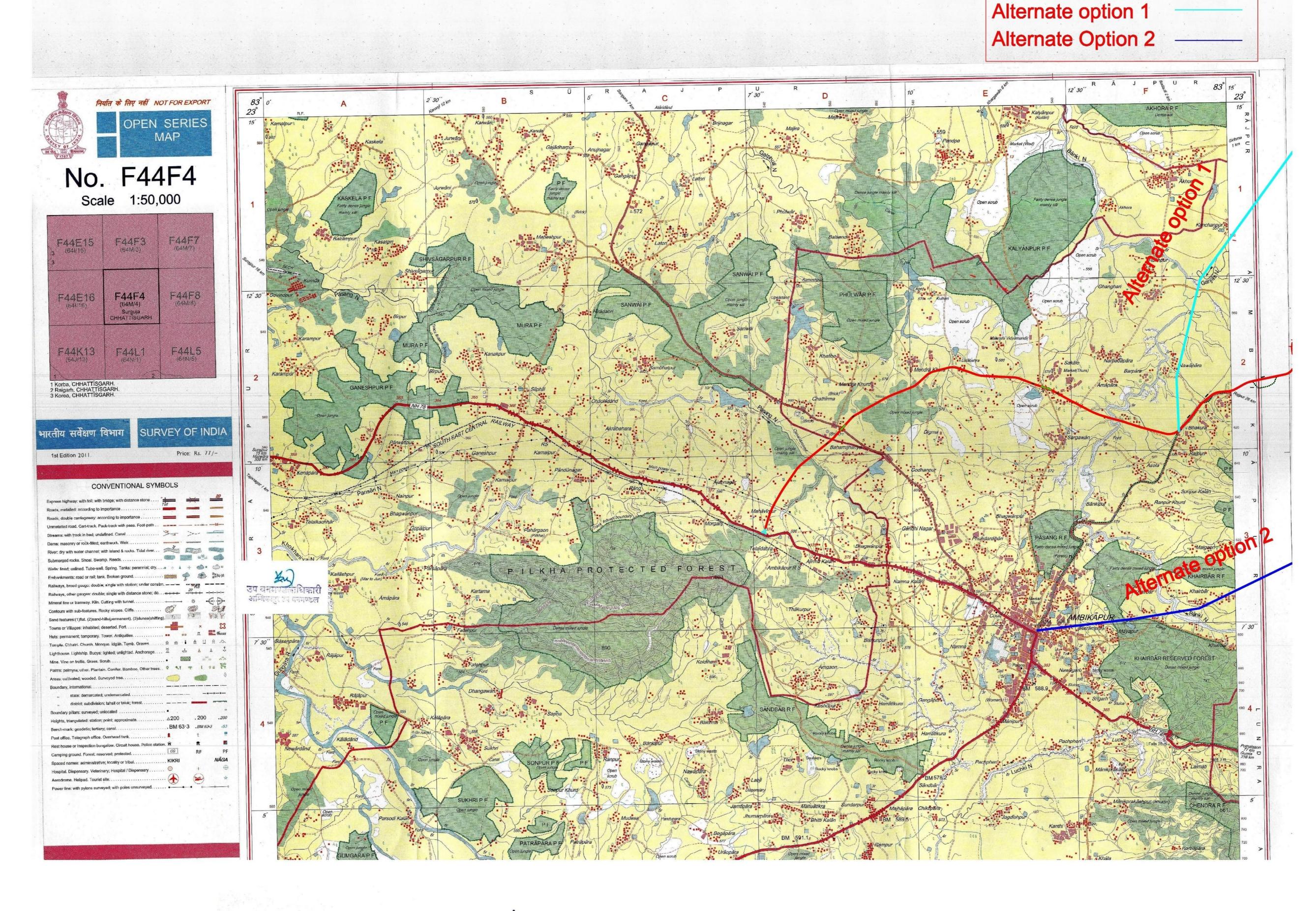












Surguja Division Ambikapur (C.G.)











LEGEND :-



