

Figure 1-1: Alternative Alignment Options of A 21-2



*Goswami*  
Asth. Executive Engineer, PWD  
& Nodal Officer, Axom Mala  
Office of the Chief Engineer, PWD (EAP)  
Assam, Fatasil Ambari, Guwahati-25

**Table-1: Alternative analysis of A 21 Forest Section**

S. No	Description	Option-1	Option-2	Option-3
1	Route Alignment	Along SH-19	LHS	RHS
2	Take off Chainage	29+500	29+500	29+500
3	End Chainage	34+000	35+040	35+960
4	Road Length	4.5 Km	5.54 Km	6.46 Km
5	Right of way (ROW)	20m	24m	30m
7	Design speed Adopted	50/80 Kmph	50/80 Kmph	50/80 Kmph
8	No . Of Curves	4	5	7
13	Major Bridge	1	1	2
16	Geometry	Smooth geometry and provide higher design speed with shortest length	Smooth geometry and longest among three options	Geometry is poor and longer compare to Option 1
17	Social Impact	Alignment passes through existing road & less built up sections and provide free movement of traffic compare to Option 2 & 3. Rehabilitation required is minimum.	Alignment passes through existing and realignment section and also, more build-up sections existing along the alignment. More number of buildings will be demolished compare to Option 1.	Alignment passes through existing and realignment section and also, more build-up sections existing along the alignment. More number of buildings will be demolished compare to Option 1 & 2. Rehabilitation required is maximum.
18	Environmental Impact	Whole alignment utilize existing road, which is passing through forest section. Forest clearance required. Forest area need to be diversion 4.608 Ha.	Realignment section and crosses forest section for approx. 160m. Forest clearance required. Forest area need to be diversion 5.01 Ha.	Realignment section and crosses forest section for approx. 400m. Forest clearance required. Forest area need to be diversion 6.0 Ha.
19	Tree Felling	Tree felling proposed along the existing road	More number of Tree Felling required along the alignment.	More number of Tree Felling required along the alignment.
20	Water logging	No water logging and no water bodies are affected	Passing through water logged area and also, affects natural water path	Passing through water logged area of old river path and also, affects natural water flow
21	Effect of Built up Area	Less Affected	Affected	Affected
22	Effect of Water Bodies	Nil	Yes	Yes
23	Recommendations	Recommended	Not Recommended	Not-Recommended



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