| Comparison of Alignment | | | | | |
|-------------------------|--|---|---|--|--|
| S.No. | Description | Widening & 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 A Maiar G. 29 Maa | Nil | Nil | |
| 5 Safatu | afety 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 | 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 | |

Wvekanand Jha LFS Divisional Forest officer Balrampur Division, Balrampur





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Sub Divisional Officer PWD.N.N. Sub-Division Ambikan