



Fig. 4.18 Summary all alignment Options



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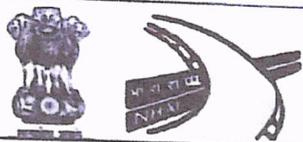


Fig. 4.18 Summary all alignment Options

Signature
 उप-प्रभागीय वनाधिकारी
 सहसपुर उप वन प्रभाग,
 कालसी।

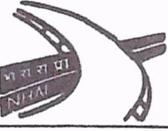
Signature
 प्रभागीय वनाधिकारी
 कालसी भू०सं० वन प्रभाग,
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Signature
 परियोजना निदेशक Project Director
 भारतीय राजमार्ग प्राधिकरण
 National Highways Authority of India
 (सड़क परिवहन राजमार्ग मंत्रालय, भारत सरकार)
 Ministry of Road Transport and Highways
 श्रीमदाराधिका-वसन्त विहार, पहाड़गढ़



ALIGNMENT OPTION DETAILS

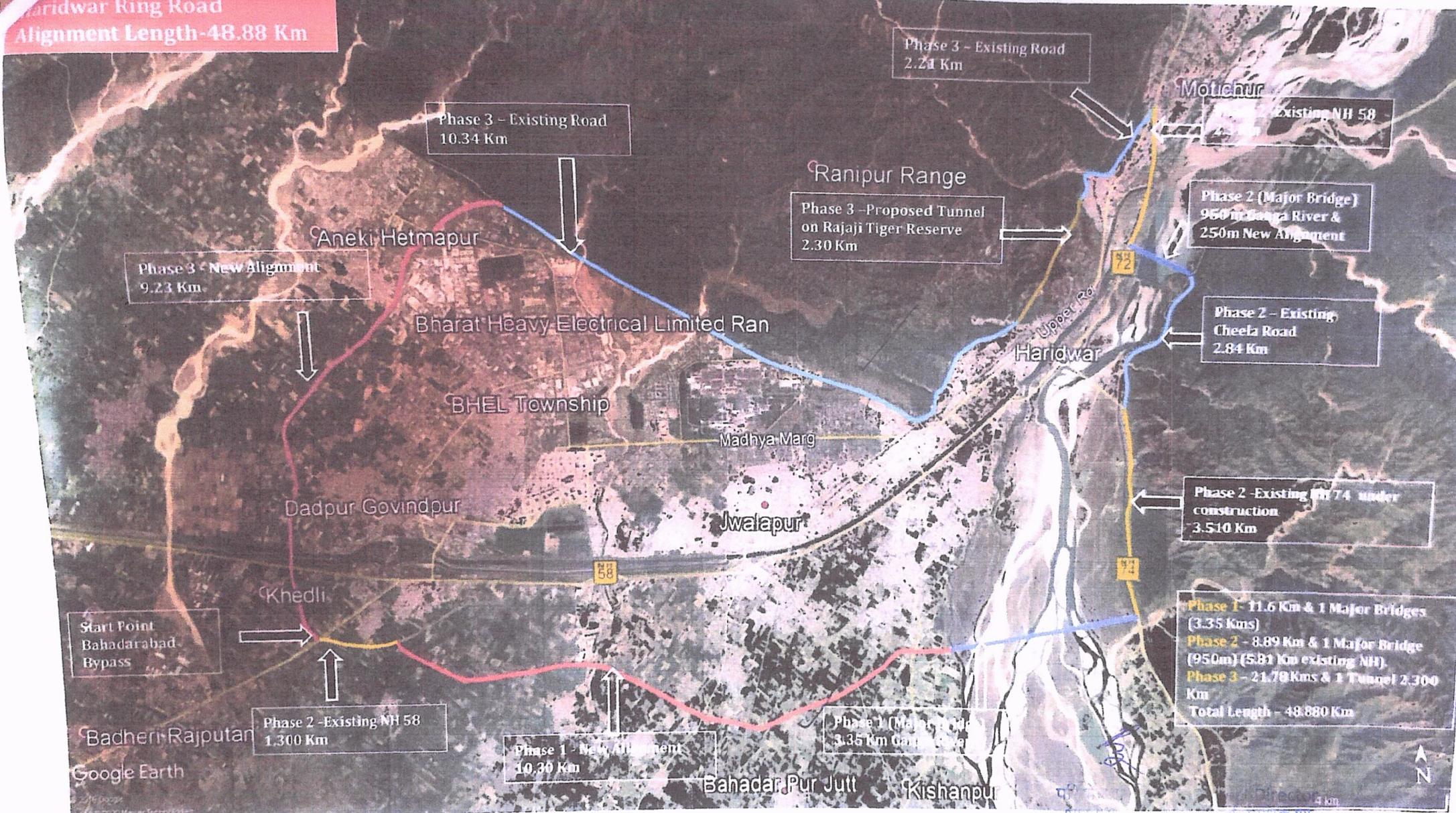
S.NO.	DESCRIPTION	EXISTING ALIGNMENT	ALIGNMENT OPTION 1	ALIGNMENT OPTION 2	ALIGNMENT OPTION 3	ALIGNMENT OPTION 4
		(NH-72)	Herbertpur & Sahaspur bypass	Herbertpur, Sahaspur and Rampur bypass	On the southern bank of Assan river till Jhajhra forest	Along the southern bank of Assan river
1	Total Length	49.189 km	44.033 km	44.103 km	44.040 km	43.745 km
2	Greenfield Length	0 km	12.033 km	15.103 km	18.504 km	24.745 km
3	Terrain	Plain & Rolling	Plain & Rolling	Plain & Rolling	Plain & Rolling	Plain & Rolling
4	Speed, Kmph	40-60	80 - 100	80 - 100	80 - 100	80 - 100
5	Geometrics	12 curves with radius less than 250m.	All curves with radius more than 400m	All curves with radius more than 400m	All curves with radius more than 400m	All curves with radius more than 400m
6	Features	Passes through Forest & Built-up area	Passes through Forest, Built-up, agriculture land	Passes through forest, Built-up, agriculture land	Passes through forest, Built-up, agriculture land	Passes through forest, Built-up, agriculture land
7	ROW	23-30 m	30m / 45m	30m / 45 m	30m / 45 m	30m / 45 m
8	Number of Structures	8 MJB	7 MJB	7 MJB	8 MJB	5 MJB
		9 MNB	11 MNB	11 MNB	16 MNB	16 MNB
			1 VUP	1 VUP	1 VUP	1 VUP
9	Houses affected	800 Nos.	700 Nos.	625 Nos.	550 Nos.	350 Nos.
10	Tree Cutting (non forest)	1250	1100	1100	900	



ALIGNMENT OPTION DETAILS

S.NO.	DESCRIPTION	EXISTING ALIGNMENT	ALIGNMENT OPTION 1	ALIGNMENT OPTION 2	ALIGNMENT OPTION 3	ALIGNMENT OPTION 4	
11	Area Required for LA (Hectares)	25 Hect.	45 Hect.	55 Hect.	68 Hectare	97 hect. ✓	
12	Civil cost (approx.)	713 crore	678 crore	685 crore	696 crore	670 crore	
	LA Cost	280 crore	292 crore	316 crore	350 crore	432 crore	
	Pre const. Cost	135 crore	130 crore	125 crore	105 crore	75 crore	
	Project Cost (with centage)	1257 crore	1222 crore	1250 crore	1276 crore	1297 crore	
Merits and Demerits	Social	Social Impact will be High	Social Impact will be Medium	social Impact will be medium	social Impact will be low.	social Impact will be least.	
	Economical	-	Least project cost	-	-	Maximum project cost	
	Technical and Road Safety	Poor Geometry, Six Black spot, avg. speed not more than 50	Good Geometry, speed of 100Km/hr. can be easily achieved.	Good Geometry, speed of 100Km/hr. can be easily achieved.	Good Geometry, speed of 100Km/hr. can be easily achieved.	Good Geometry, speed of 100Km/hr. can be easily achieved.	Good Geometry, speed of 100Km/hr. can be achieved.
		Highest vulnerable users	High vulnerable users	High vulnerable users	High vulnerable users	Low vulnerable users	Least vulnerable users
		Least LOS	Poor LOS	Poor LOS	Poor LOS	Good LOS	Highest LOS
	Environmental Impact	12 hectare forest diversion, 3 river crossing	12 hectare forest diversion, 3 river crossing	12 hectare forest diversion, 3 river crossing	12 hectare forest diversion, 3 river crossing	10 hectare forest diversion, 1 river crossing	
Recommendation	No	No	No	No	Yes		

**Haridwar Ring Road
Alignment Length-48.88 Km**



Phase 1 - 11.6 Km & 1 Major Bridges (3.35 kms)
Phase 2 - 8.89 Km & 1 Major Bridge (0.950km) (5.81 Km existing NH)
Phase 3 - 21.78 Kms & 1 Tunnel 2.300 Km
Total Length - 48.880 Km

Start Point
Bahadarabad
Bypass

Badheri Rajputan

Google Earth