



PRESENTATION

Consultancy Services for preparation of Detailed Project Report of newly declared National Highways as NH No. 45 Ext. in the states of Madhya Pradesh for up gradation to Two / Four lane with paved shoulder configuration under Package – IV

JABALPUR-KUNDAM-SHAHPURA-DINDORI ROAD

(Length – Km 137.000)

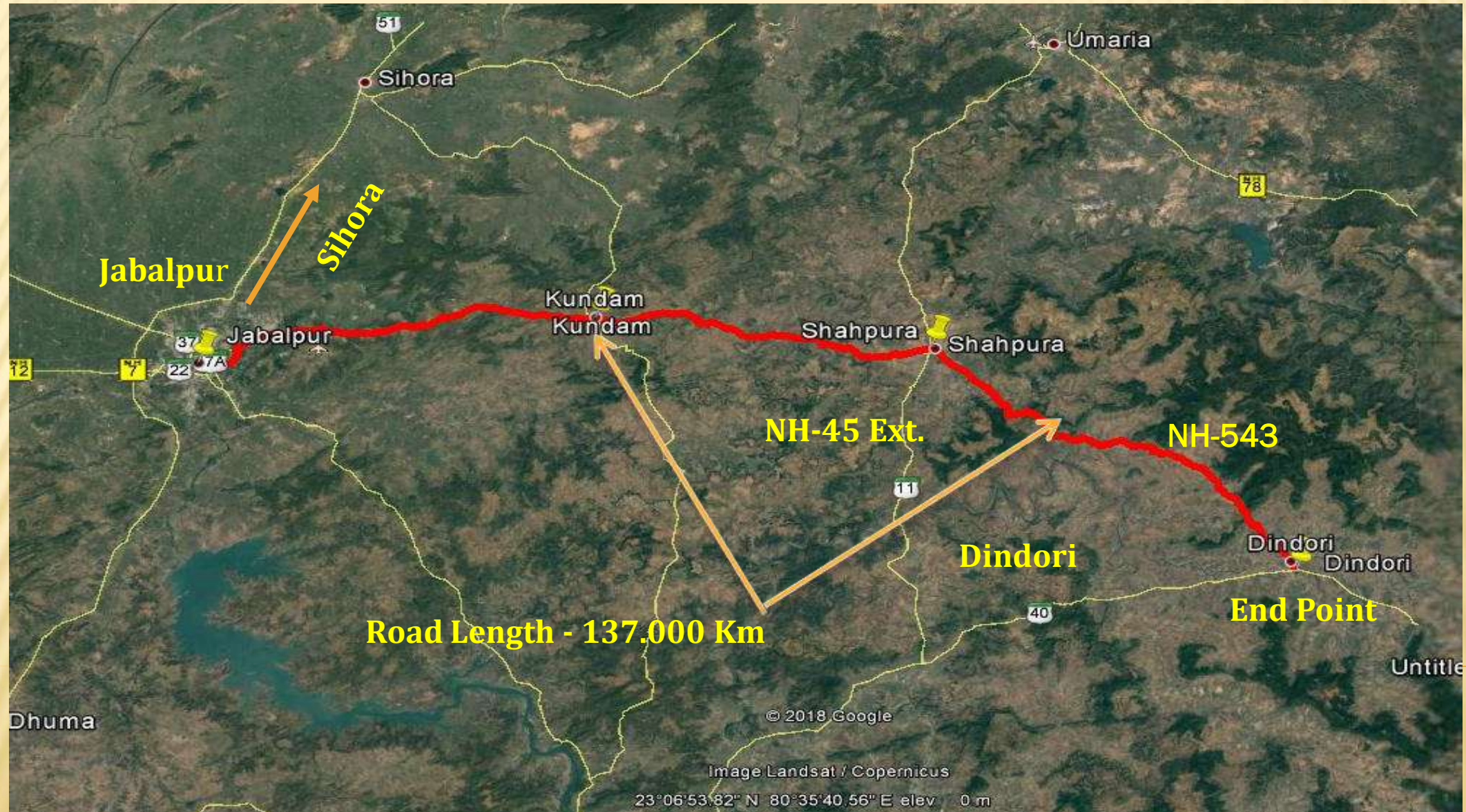


JABALPUR-KUNDAM-SHAHPURA-DINDORI-SHAHDOL ROAD

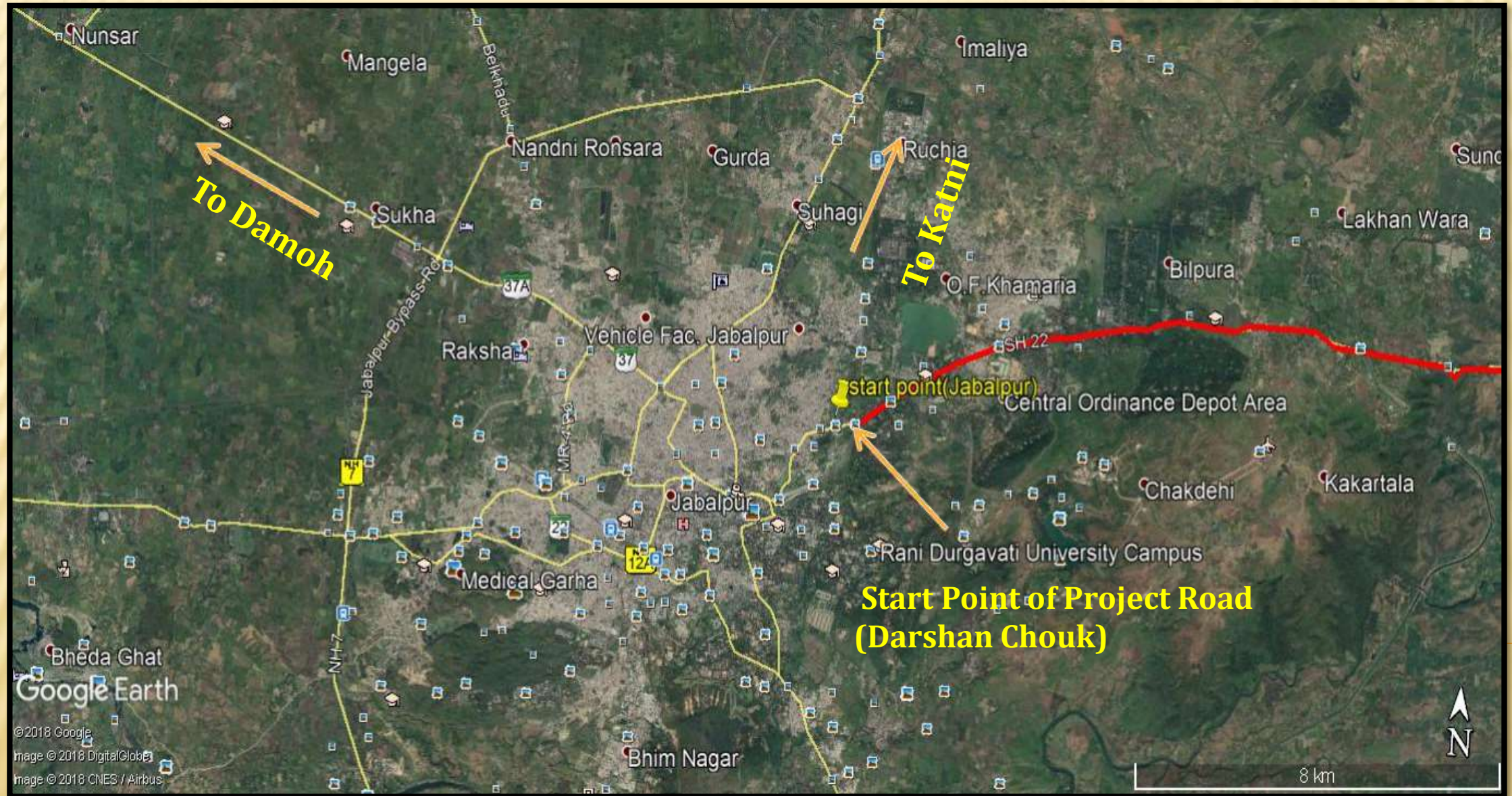
ABOUT THE PROJECT ROAD

- The Project Corridor **Jabalpur-Kundam-Shahpura-Dindori Road** is Newly Declared as **NH-45 Ext.** Which is a connecting link between Jabalpur city to Dindori city through Kundam-Shahpura in the State of Madhya Pradesh.
- The Project Corridor starts in Jabalpur City at 3 legged Junction from Darshan Chauk (of SH-22)of & Terminates at Major Junction of Dindori in the State of Madhya Pradesh.
- The Length of the Project road is **137+000 Km.** (Approx.).

Project Location on Global Map



START POINT OF PROJECT CORRIDOR



END POINT OF PROJECT CORRIDOR



EXISTING FEATURES OF PROJECT CORRIDOR

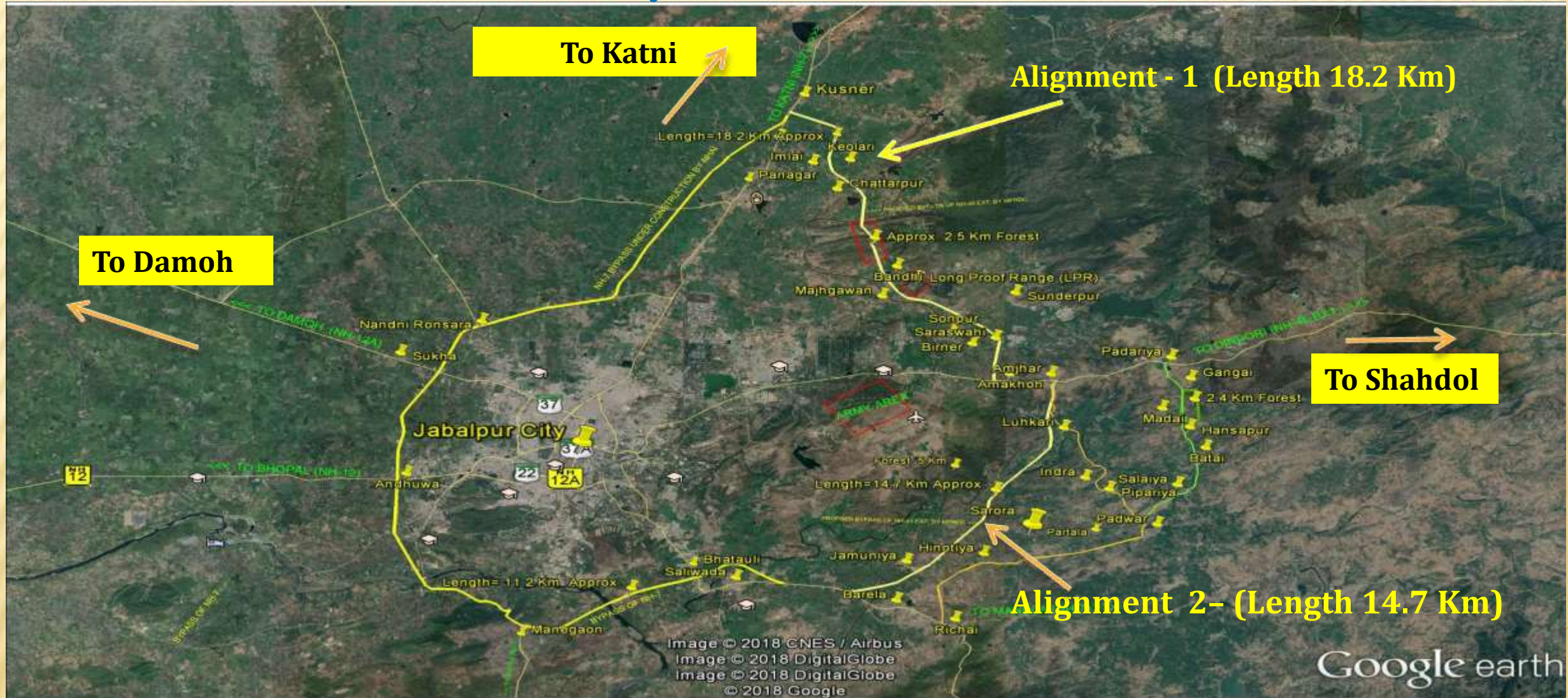
Total Length	- 137.000Km
Start Point	- Jabalpur City (Darshan Chauk)
End Point	- Dindori City
Carriageway Width	- 5.0m-7.0m
Terrain	- Plain & Hilly
Land Use Pattern	- Agricultural, Built up, Forest
Existing Condition of Pavement	- Poor to Fair
Road Junctions	- 03 Major and 84 Minor Junctions
Geometrics	- The horizontal alignment is passing through Plain & Hilly terrain.
Existing Culverts	-Slab Culvert – 25 , HPC – 201 , Arch –01, box -05
Existing Bridges	- 06 Major and 30 Minor Bridges
Existing Bypass	- 0 No's
Existing Level Crossing	- 2 No's

TRAFFIC PROJECTION

Location	Two Wheeler	Three Wheeler	Car/Jeep	Mini Bus	Bus	Tempo / LCV	2 Axle	3 Axle	M Axle	Tractor with Trailer	Tractor	Cycle	Cycle Rickshaw	Animal Drawn	Horse Drawn	Hand Cart	Vehicle (No.)	PCU
15+200	3620	174	1047	1	156	167	98	43	33	3	1	90	0	0	0	0	5433	4295
45+000	1258	25	916	8	102	184	101	43	26	42	13	103	1	0	0	0	2823	2965

YEAR	LOCATION AT 15+200		LOCATION AT 45+000	
	AADT	PCU	ADT	PCU
Present Year 2018	5433	4295	2823	2965
Traffic Growth Rate = 5%				
2020	7188	5683	3734	3923
Considering 30% Induced Traffic				
2036	15691	12406	8151	8561
2051	31067	24562	16137	16949

PROPOSED JABALPUR BYPASS

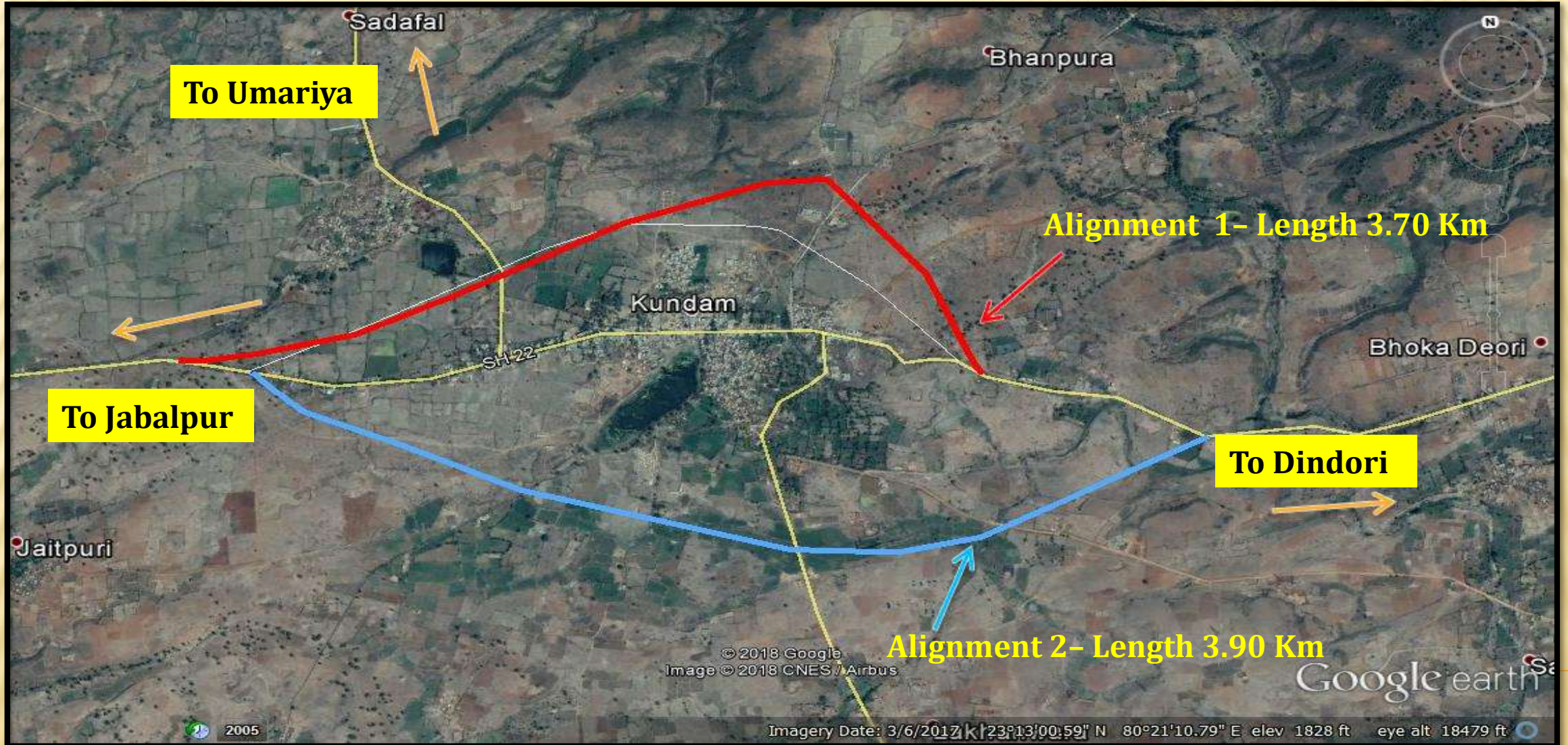


Project Road Passes through Jabalpur Town which is densely Populated & there is no Right of way Available. So, Jabalpur Bypass is proposed.

Comparative Studies for Jabalpur Bypass

Option	Alignment -I(Yellow) (Recommended)	Alignment -II(Orange) (Recommended)
Start/End Existing Chainage	Start at 8+700 & Ends at NH-7 (Katni Road)	Start at 11+300 & Ends at NH-12A (Mandla Road)
Length Along Alignment	18.2 Km	14.7 Km
CD Structures	54	44
ROB	-	-
Type of Land Acquisition	Agriculture & Forest	Agriculture
Land Required	81.9 Hectare	66.1 Hectare
Cost	144 Crore	115 Crore

PROPOSED KUNDAM BYPASS

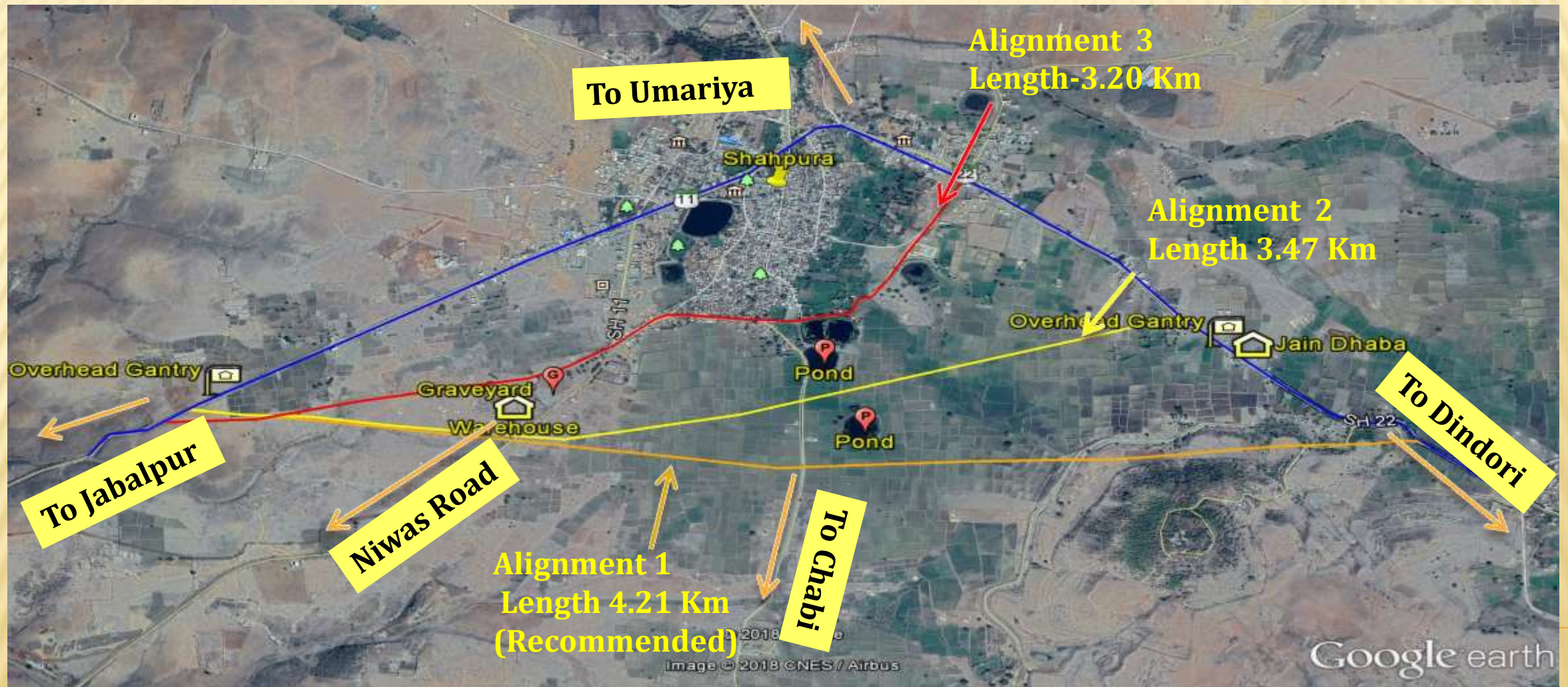


Project Road Passes through Kundam Town which is densely Populated & there is no Right of way Available. So, Kundam Bypass is proposed.

Comparative Studies for Kundam Bypass

Option	Alignment -I (Recommended) (Red)	Alignment -II (Blue)
Start/End Existing Chainage	Start at Km 35+000 & Ends at Km 38+700	Start at Km 35+400 & Ends at Km 39+3x00
Length Along Alignment	3.70 Km	3.90 Km
CD Structures	10	11
ROB	-	-
Type of Land Acquisition	Agriculture	Agriculture
Land Required	16.7 Hectare	17.5 Hectare
Cost	28 Crore	30 Crore

PROPOSED SHAHPURA BYPASS



Project Road Passes through Shahpura Town which is densely Populated & there is no Right of way Available. So, Shahpura Bypass is proposed.

Comparative Studies for Shahpura Bypass

Option	Alignment -I (Recommended) (Yellow)	Alignment -II (Orange)	Alignment -III (Red)
Length Along Alignment	4.21 Km	3.47 Km	3.20 Km
CD Structures	13	11	10
ROB	-	-	-
Type of Land Acquisition	Agriculture	Agriculture	Agriculture
Land Required	18.95 Hectare	15.6 Hectare	14.4 Hectare

PROPOSED DINDORI BYPASS



Project Road Passes through Dindori Town which is densely Populated & there is no Right of way Available. So, Dindori Bypass is proposed.



Comparative Study for Dindori Bypass

Option	Alignment -I (Recommended) (Yellow)	Alignment -II (Orange)	Alignment -III (Red)
Length Along Alignment	8.50 Km	7.23 Km	9.80 Km
CD Structures	26	22	29
ROB	-	-	-
Type of Land Acquistion	Agriculture	Agriculture	Agriculture
Land Required	38.2 Hectare	32.54 Hectare	44.1 Hectare



DETAILS OF RECOMMENDED PROPOSED BYPASSES

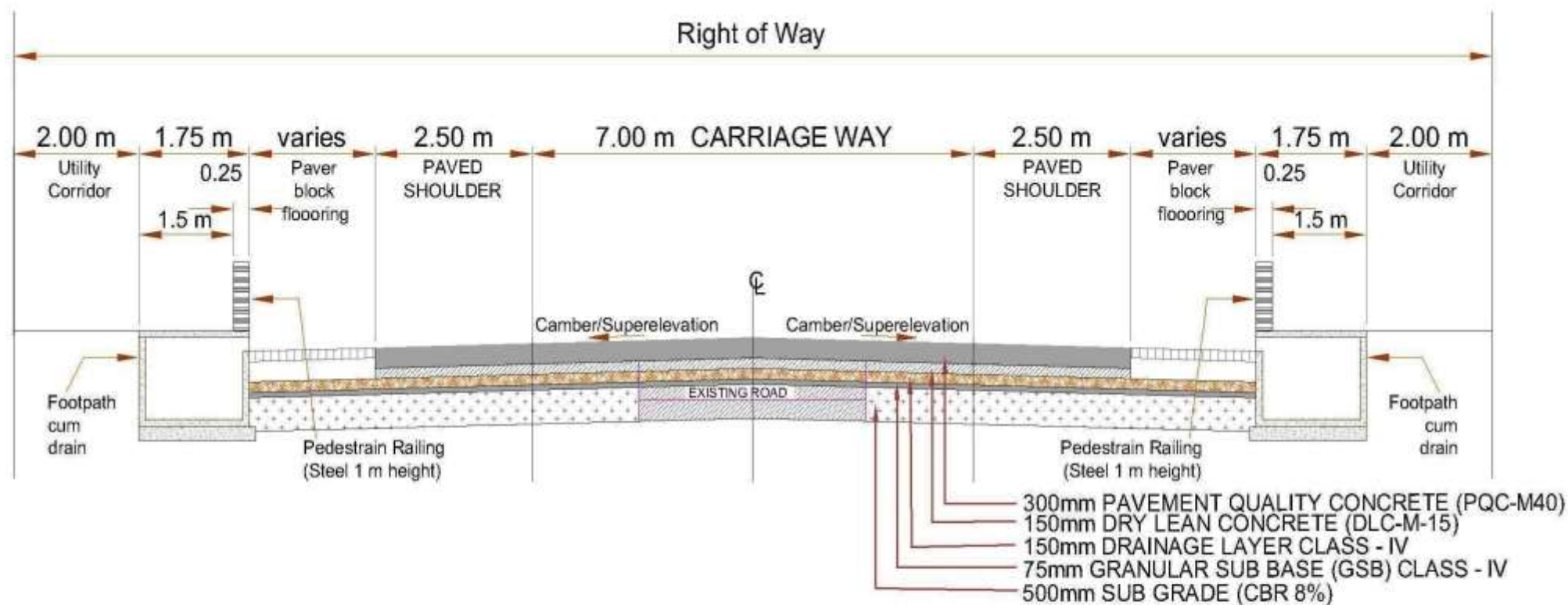
S. No	Bypass	Alignment Recommended	Length (in Km)	No. Of Cross Drainage Structure	LA Required (in Hectare)
1.	Jabalpur	1 & 2	18.2 & 14.7	54 & 44	144 & 155
2.	Kundam	1	3.73	10	28.0
3.	Shahpura	1	4.21	11	18.95
4.	Dindori	1	8.50	26	38.25

➤ BUILT UP PORTIONS:

Sr. No.	Existing Chainage(Km)		Existing Length (m)	Type of Terrain	Land Use	Name of village/ town
	From	To				
1	0+000	1+000	1+000	Plain	Built up	Jabalpur
2	2+000	3+500	1+500	Plain	Built up	Army Area
3	5+300	7+000	1+700	Plain	Built up	Pipariya
4	7+000	7+900	0+900	Plain	Built up	Umariya
5	9+000	10+000	1+000	Plain	Built up	Aamokhoa
6	11+000	11+900	0+900	Plain	Built up	Amjhor
7	16+000	16+500	0+500	Plain	Built up	Padariya
8	23+500	24+500	1+000	Plain	Built up	Tilsani
9	26+500	27+000	0+500	Plain	Built up	Khandiya
10	31+200	32+000	0+800	Plain	Built up	Bairagi
11	35+500	38+000	2+500	Plain	Built up	Kundam
12	46+500	47+000	0+500	Plain	Built up	Supwara
13	52+500	54+000	1+500	Plain	Built up	Charai
14	61+500	62+800	1+300	Plain	Built up	Deori
15	69+000	69+500	0+500	Plain	Built up	Gureya
16	75+600	76+600	1+000	Plain	Built up	Sahpura
17	79+000	81+000	2+000	Plain	Built up	Mudki Baki
18	83+300	83+800	0+500	Plain	Built up	Karandi
19	84+800	85+600	0+800	Plain	Built up	Bargaon
20	89+000	89+250	0+250	Plain	Built up	Amkhera

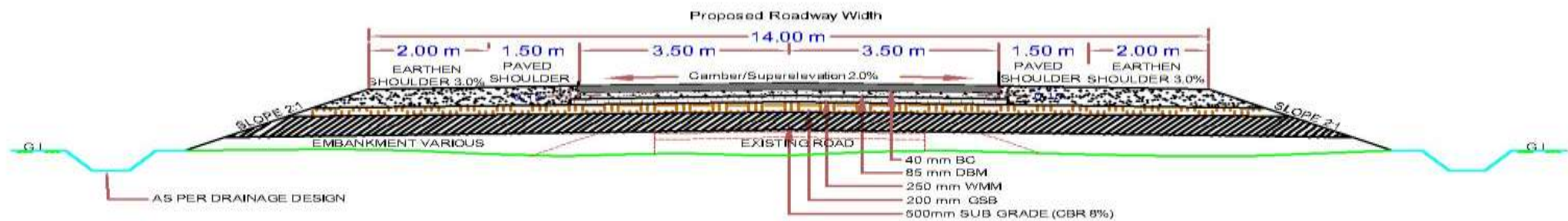
BUILT UP PORTIONS -

Sr. No.	Existing Chainage (Km)		Existing Length (m)	Type of Terrain	Land Use	Name of village/ town
	From	To				
21	97+000	97+500	0+500	Plain	Built up	Amora
22	103+600	105+300	1+700	Plain	Built up	Amakhor
23	109+100	110+000	0+900	Plain	Built up	Vikrampur
24	118+000	119+300	1+300	Plain	Built up	Ganeshpura
25	120+700	121+800	1+100	Plain	Built up	Nadiya
26	124+300	126+100	1+800	Plain	Built up	Sahpura
27	133+300	134+000	0+700	Plain	Built up	Jogi-tikariya
28	136+300	137+500	1+200	Plain	Built up	Dindori

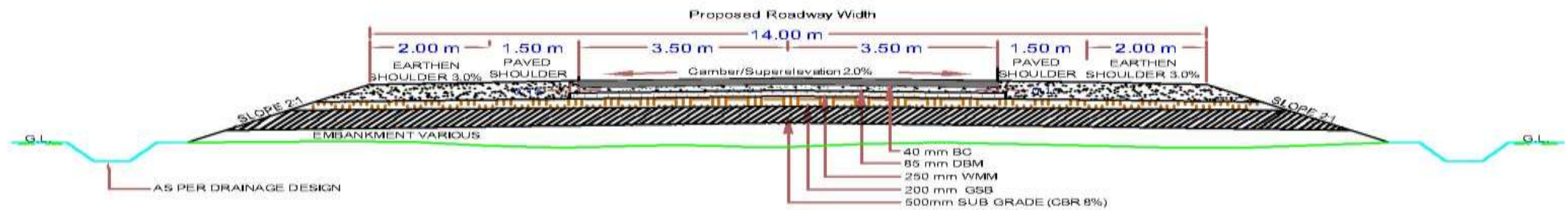


2 - LANE CARRIAGEWAY WITH PAVED
SHOULDER
(BUILT- UP AREA)

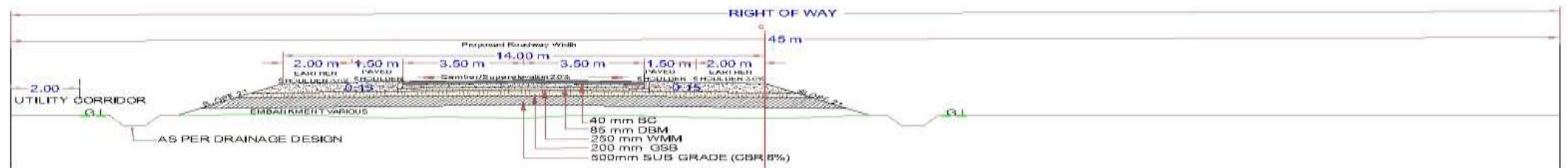
AS PER IRC SP 73-2015 Fig.2.3 MODIFIED



FOR OPEN AREA
AS PER IRC SP 73-2015 Fig.2.2



FOR REALIGNMENT
AS PER IRC SP 73-2015 Fig.2.2 MODIFIED



FOR BYPASS
AS PER IRC SP. 73-2015 Fig.2.2 MODIFIED

RAILWAY LEVEL CROSSING AT THE PROJECT ROAD

There are 2 railway crossing along the existing road at km 1+600 and km 3+400.



Railway Crossing at km 1+600



**Railway Crossing at km 3+400
(For Factory Use in Material Supply)**

JABALPUR-KUNDAM-SHAHPURA-DINDORI ROAD

PHOTOS DURING INVENTORIES





एक कदम स्वच्छता की ओर

