

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER – 04

DETAIL NOTE ON THE PROJECT

The Ministry of Road Transport and Highways (MoRTH), Government of India has proposed “Bharatmala Pariyojana” an Umbrella scheme of road development project through National Highways Authority of India (NHAI), National Highway, Industrial Development Corporation Ltd (NHIDCL) and State Public Works Departments (PWD). This project aims to improve connectivity particularly on economic corridors, border areas and to remote areas with an aim of rapid and safe movement of cargo to boost exports.

The National Highways Authority of India (NHAI) has been entrusted with the work of Preparation of Detailed Project Report for Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

M/s MSV International Inc. in association with MSV International Tech Pvt. Ltd., Unit No-514,515 & 516, 5th Floor, Suncity Success Tower, Golf Course, Extension Road, Sec-65, Gurgaon-122005 (Haryana) has been appointed as consultant to carry out Consultancy Services for Preparation of DPR for development of Economic Corridors, Inter Corridors, Feeder Routes and Border to improve the efficiency of freight movement in India under Bharatmala Pariyojana Lot-7/Package-2 (Ara-Sasaram-Patna-Section) in the state of Bihar.

Project stretch falls in the state of Bihar. Bihar is in eastern India. It is contiguous with Uttar Pradesh to its west, Nepal to the north, the northern part of West Bengal to the east, and with Jharkhand to the south. Bihar covers a total area of 94,163 Km², with an average elevation above sea level of 53 m. It is dominated by a vast stretch of fertile plain which is divided unevenly by the Ganges River. Central parts of Bihar have some small hills, such as the Rajgir hills. Bihar has reserved Forest area of 6,845 Km², which is 7.27% of its geographical area. The State has 26 nos. of National Highways with aggregate length 5301 Kms.




Project Director
National Highways Authority of India
Project Implementation Unit
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Arrah-Sasaram-Patna Road section of NH-119A (Package-I) starting Ch. 00+000 is Saura and terminates at Ch. 40+450 near Sakla. The length of project road is 40.450 Km. This is a completely new Green Field Alignment, mainly passes through Plain terrain and shall be constructed as 4/6-Lane with Paved shoulder configuration. The Proposed ROW of this section is taken as 45 m in which all the configurations shall be fitted with. The proposed project falls in notified protected forest land and diversion of protected forest land is unavoidable and barest minimum i. e. 4.22 Ha.

Following are the expected benefits due to the proposed national highway:

- Better level of service in terms of improved riding quality and smooth traffic flow.
- Faster transportation will ultimately lead to massive savings in the form of reduced wear and tear of vehicles, reduced vehicle operating costs (VOCs) and total reduction in transportation costs etc.
- With the improvement of road surface, the traffic congestion due to obstructed movement of vehicles will be minimized and thus wastage of fuel emissions from the vehicles will be reduced.
- Increased road landscaping and safety features.
- Enhanced connectivity between rural & urban population which will benefit the all sections of the society like general population, small-medium-large scale industries, farmers, businessmen etc.
- Improved access to higher education facilities & modern health facilities.
- Strengthening of both rural & urban economies which in turn will improve economic scenario of the state and country.
- Improved road connectivity helps in better implementation and management of government schemes.
- With improvement in economy, more generation of employment opportunities.
- Overall improvement of the region.




Project Director
National Highways Authority of India
Project Implementation Unit
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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER - 05

Map of the project Site/forest area required clearly showing forest Boundaries and adjoining areas with their land use in distinct colors in 1:50000 or any suitable scale on original Survey of India toposheet

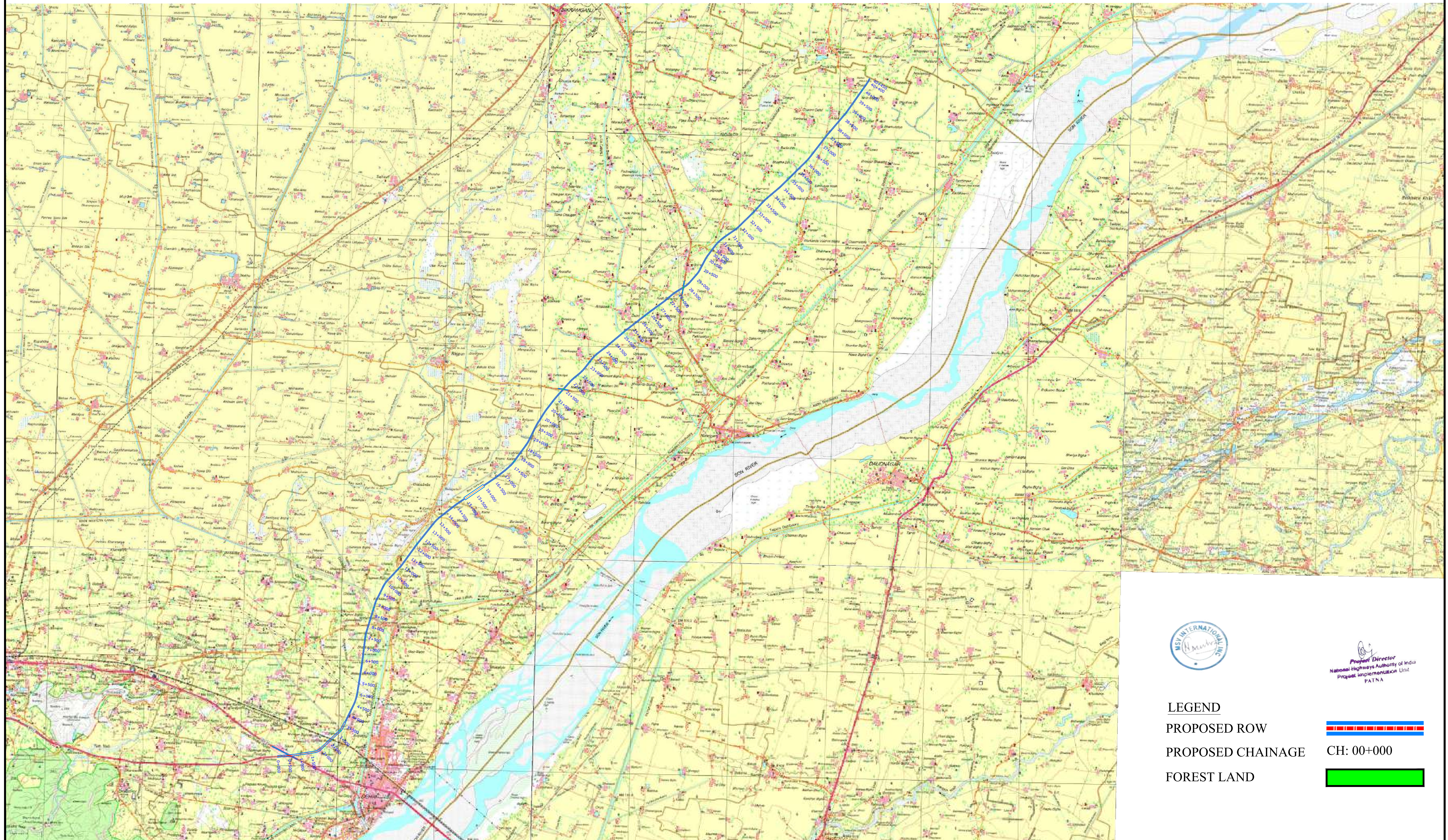
Map of the project Site/forest area required clearly showing forest Boundaries and adjoining areas with their land use in distinct colors in 1:50000 or any suitable scale on original Survey of India toposheet for Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I) has been attached.




Project Director
National Highways Authority of India
Project Implementation Unit
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Signature of User Agency

Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)



Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

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DGPS map for the forest area demanded for diversion (In case of linear diversion of forest land, linear map or a diagrammatic map of the project site)

DGPS and Layout maps for the forest area demanded for diversion (linear map or a diagrammatic map of the project site) for Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I) has been attached.

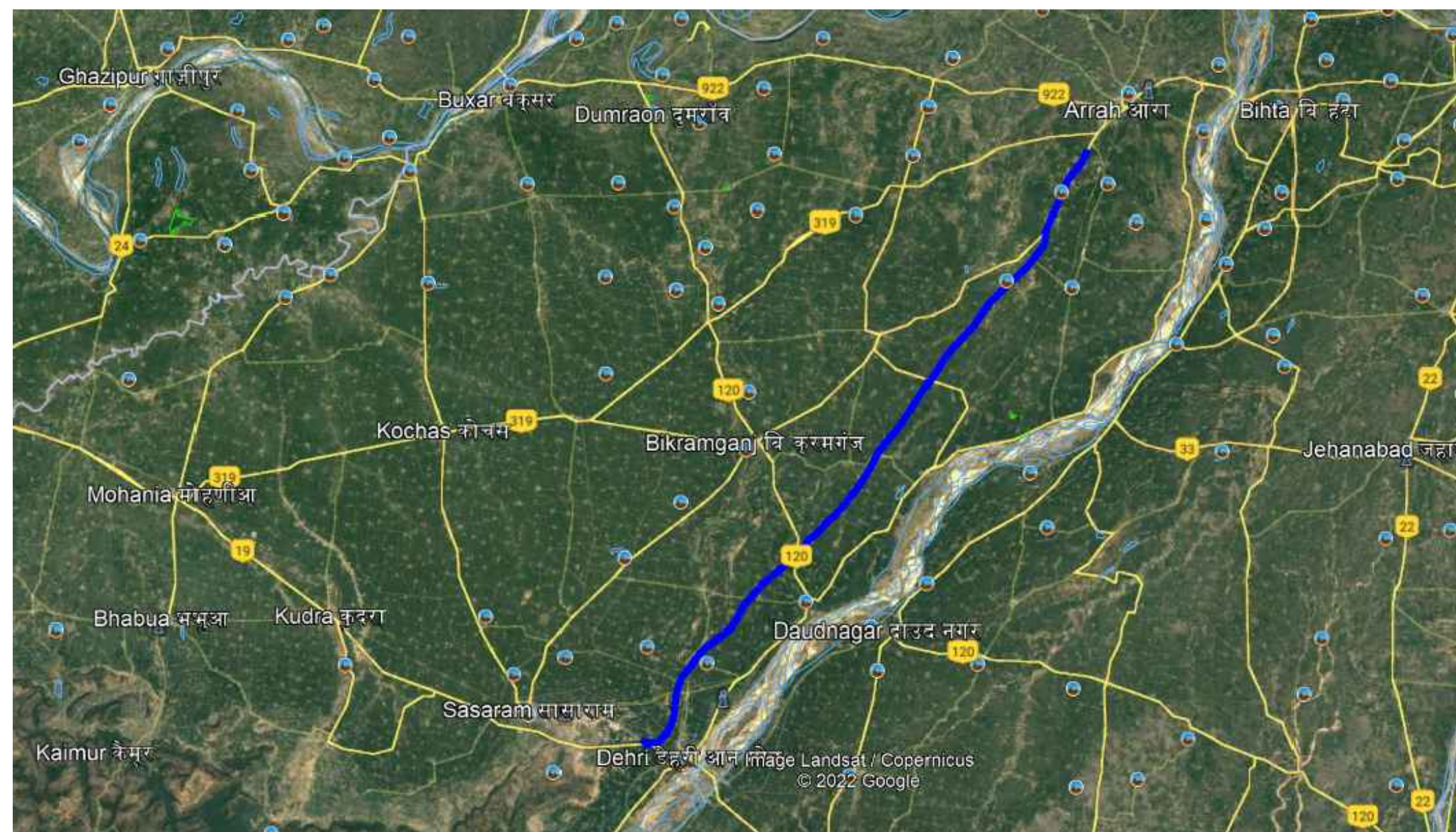



Project Director
National Highways Authority of India
Project Implementation Unit
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Signature of User Agency

DGPS MAP

Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from
Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana
(Lot-7/Package-2) in the State of Bihar (Package-I)

DISTRICT - ROHTAS (00+000 to 40+450)



MAY - 2022



National Highways Authority of India
(Ministry of Road Transport & Highways) Government of India

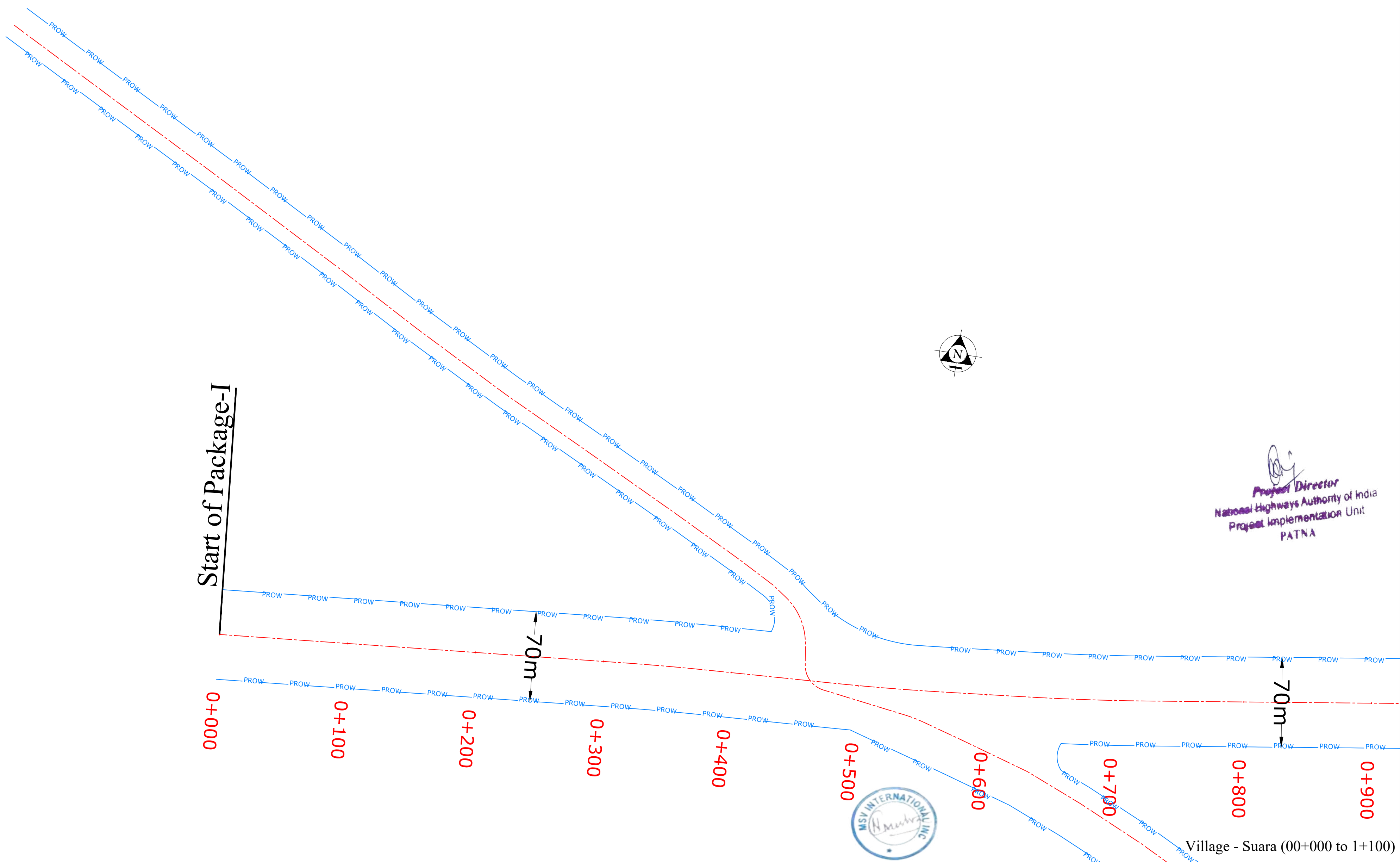


MSV INTERNATIONAL TECH PVT. LTD.

Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf
Course, Extension Road, Sec-65, Gurgaon-122005

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PROPOSED CENTER LINE	
PROW	
FOREST LAND PROPOSED FOR DIVERSION	

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

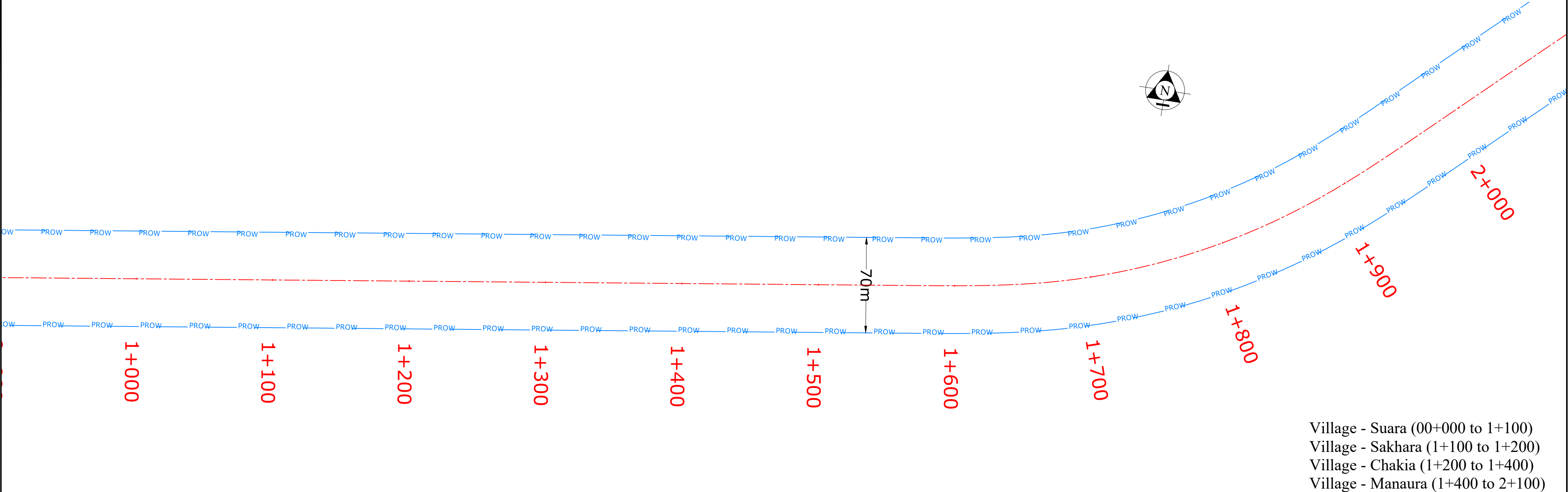
Drawing Title :	DGPS MAP
	Km 00+000 to Km 1+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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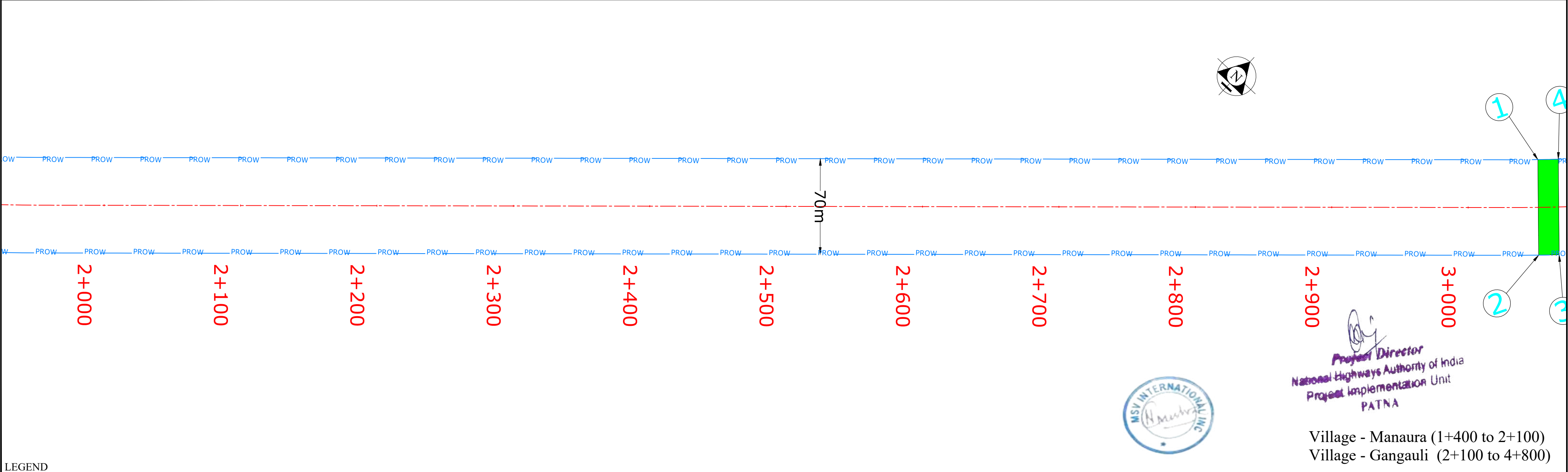
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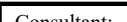
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Village - Suara (00+000 to 1+100)
Village - Sakhara (1+100 to 1+200)
Village - Chakia (1+200 to 1+400)
Village - Manaura (1+400 to 2+100)



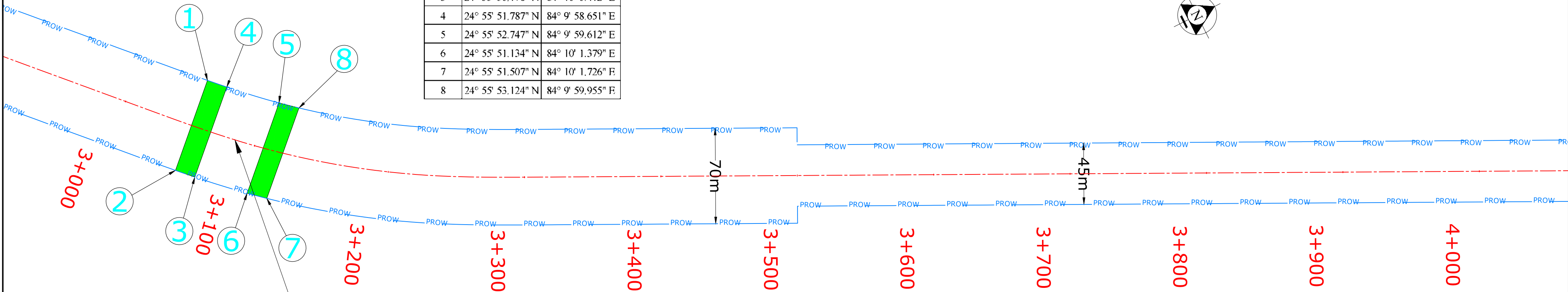
Village - Manaura (1+400 to 2+100)
Village - Gangauli (2+100 to 4+800)

LEGEND		 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)		Drawing Title : DGPS MAP Km 1+000 to Km 3+000 DISTRICT - ROHTAS	Consultant:  M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005	SCALE : 1:2000	
PROPOSED CENTER LINE						Client : Project : Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)	Sheet : 02 OF 23
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FOREST LAND PROPOSED FOR DIVERSION							

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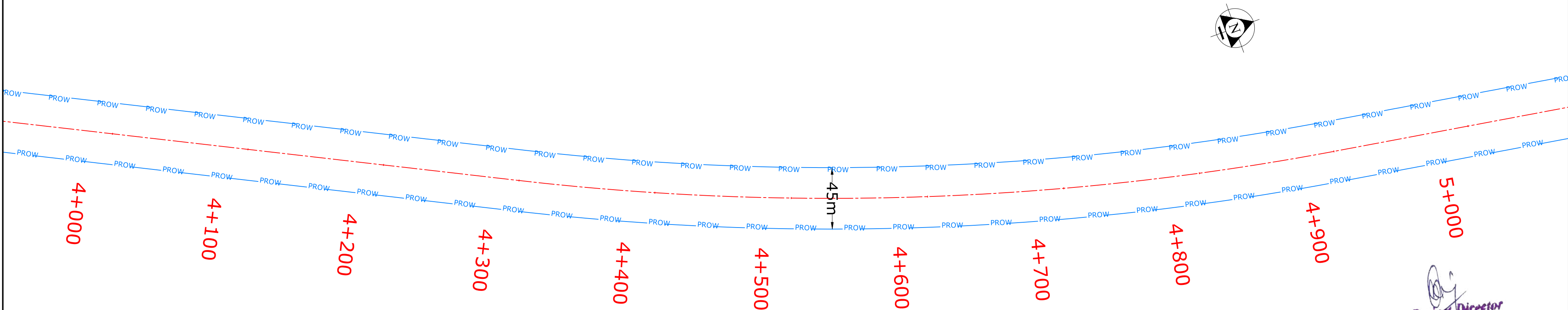
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1. Western Son High Level Canal			
GPS Points	Geo Co-ordinates		
	Longitude	Latitude	
1	24° 55' 51.439" N	84° 9' 58.276" E	
2	24° 55' 49.830" N	84° 10' 0.038" E	
3	24° 55' 50.178" N	84° 10' 0.412" E	
4	24° 55' 51.787" N	84° 9' 58.651" E	
5	24° 55' 52.747" N	84° 9' 59.612" E	
6	24° 55' 51.134" N	84° 10' 1.379" E	
7	24° 55' 51.507" N	84° 10' 1.726" E	
8	24° 55' 53.124" N	84° 9' 59.955" E	



1. Western Son High Level Canal

Village - Gangauli (2+100 to 4+800)



Project Director
National Highways Authority of India
Project Implementation Unit
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Village - Gangauli (2+100 to 4+800)
Village - Ugra (4+800 to 5+500)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

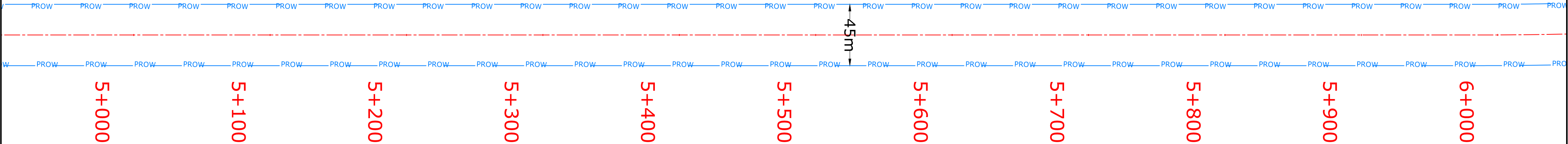
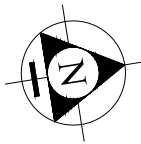
Drawing Title :	DGPS MAP Km 3+000 to Km 5+000 DISTRICT - ROHTAS
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Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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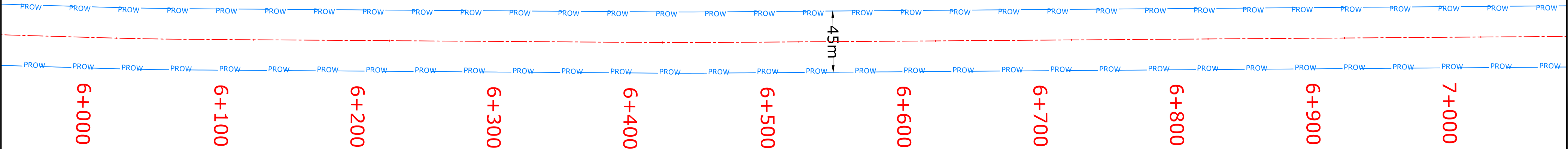
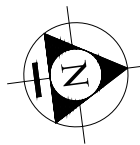
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Village - Ugra (4+800 to 5+500)
Village - Bank (5+500 to 7+600)



Village - Bank (5+500 to 7+600)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— PROW — PROW —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Drawing Title :	DGPS MAP
	Km 5+000 to Km 7+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

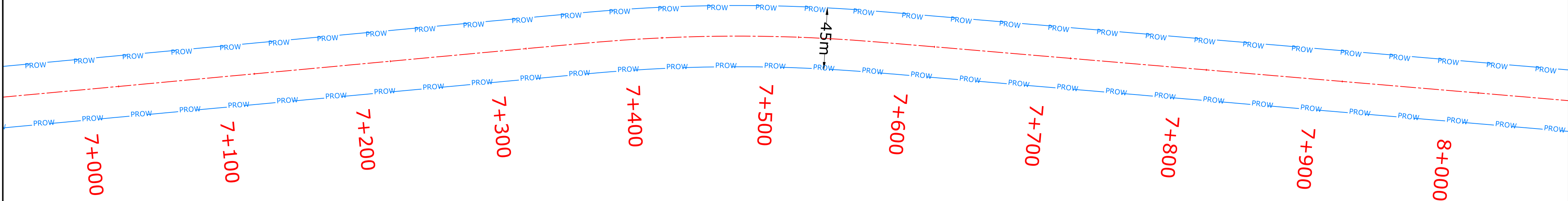
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National Highways Authority of India
Project Implementation Unit
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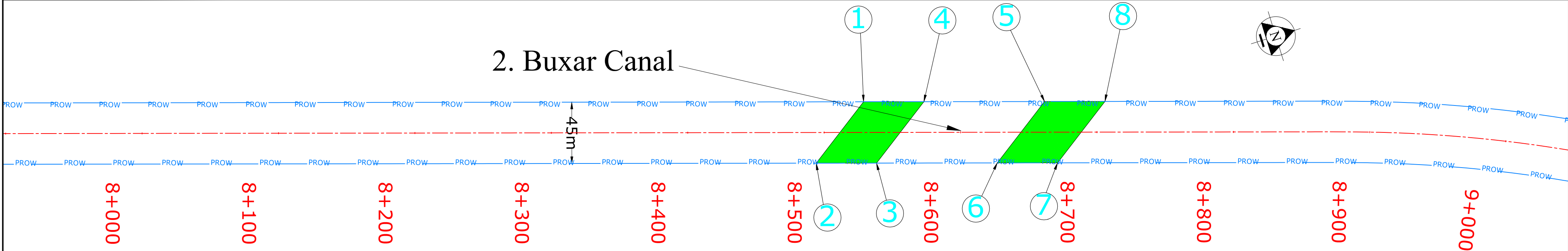
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Village - Bank (5+500 to 7+600)
Village - Baradih (7+600 to 9+000)

2. Buxar Canal



4. Buxar Canal			
GPS Points	Geo Co-ordinates		
	Longitude	Latitude	
1	24° 58' 41.399" N	84° 10' 45.997" E	
2	24° 58' 39.910" N	84° 10' 47.197" E	
3	24° 58' 41.291" N	84° 10' 47.631" E	
4	24° 58' 42.780" N	84° 10' 46.431" E	
5	24° 58' 45.542" N	84° 10' 47.299" E	
6	24° 58' 44.054" N	84° 10' 48.499" E	
7	24° 58' 45.435" N	84° 10' 48.934" E	
8	24° 58' 46.924" N	84° 10' 47.733" E	

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	
Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)	

Drawing Title :
DGPS MAP
Km 7+000 to Km 9+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

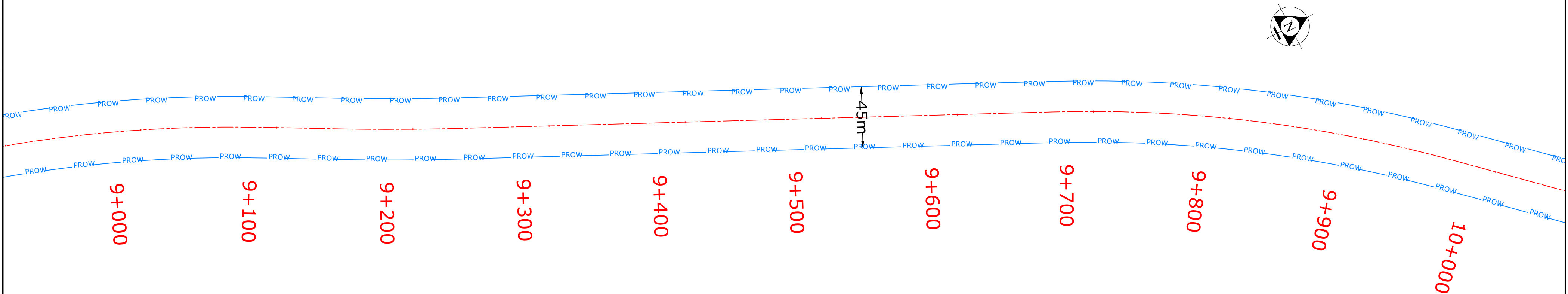
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Project Director
National Highways Authority of India
Project Implementation Unit
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Village - Baradih (7+600 to 9+000)

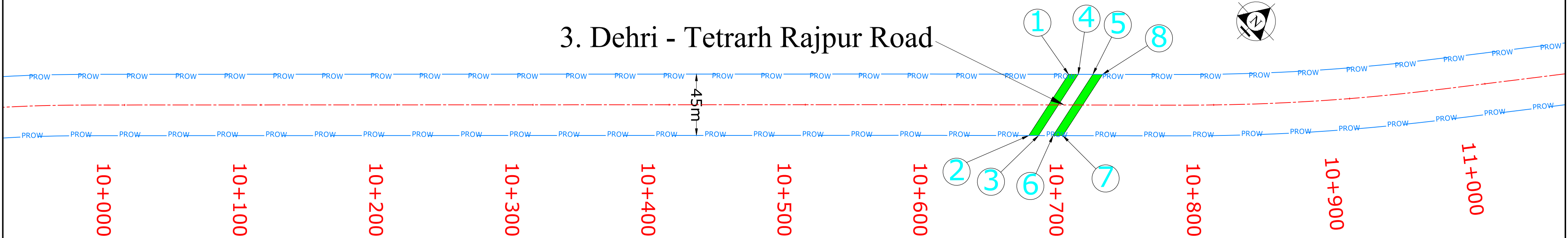
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Village - Karkatpur (9+000 to 10+100)

3. Dehri - Tetrarh Rajpur Road



3. Dehri - Tetrarh Rajpur Road		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	24° 59' 41.582" N	84° 11' 24.337" E
2	24° 59' 39.901" N	84° 11' 24.836" E
3	24° 59' 40.074" N	84° 11' 25.006" E
4	24° 59' 41.754" N	84° 11' 24.507" E
5	24° 59' 42.013" N	84° 11' 24.763" E
6	24° 59' 40.333" N	84° 11' 25.262" E
7	24° 59' 40.505" N	84° 11' 25.432" E
8	24° 59' 42.186" N	84° 11' 24.933" E



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Karkatpur (9+000 to 10+100)
Village - Chanda (10+100 to 10+600)
Village - Gamhariya (10+600 to 11+700)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

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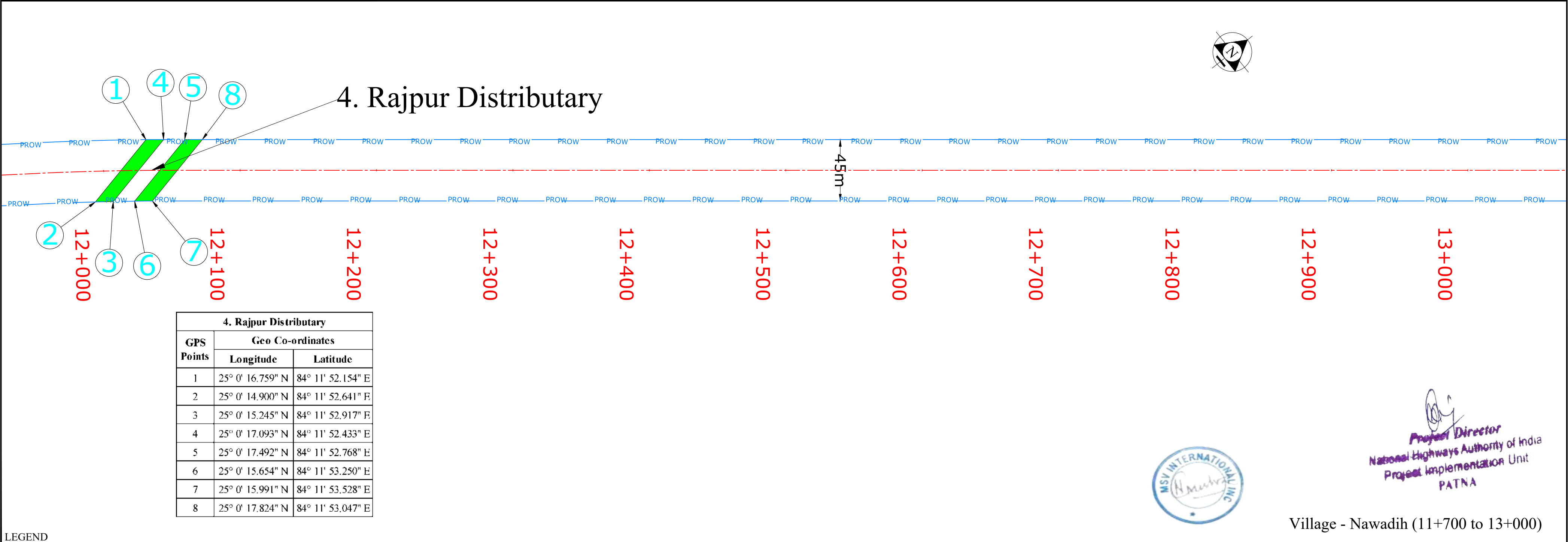
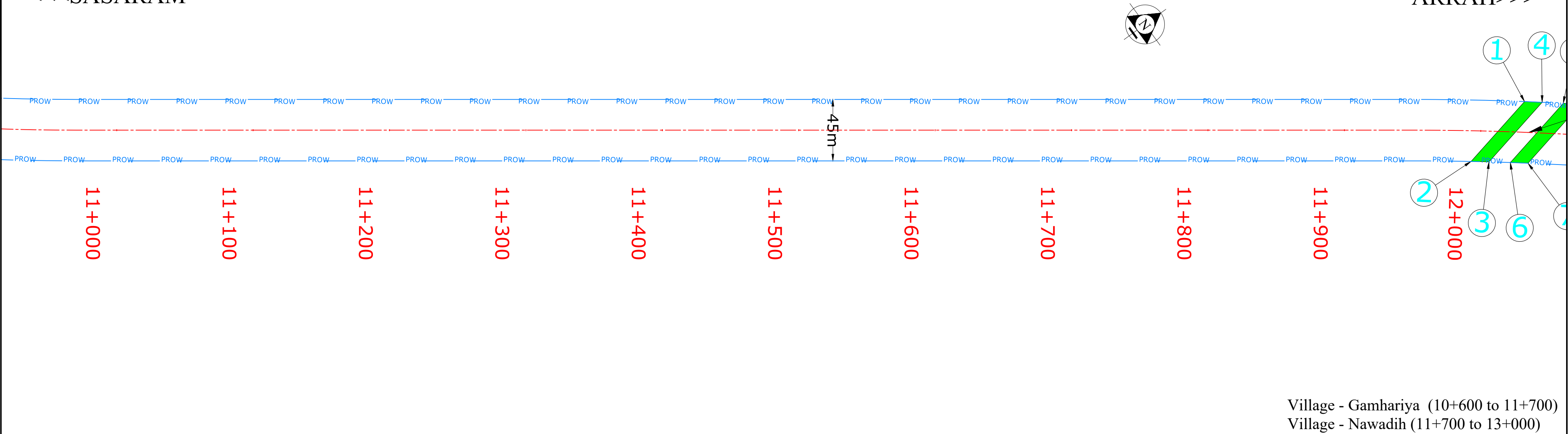
Drawing Title :	DGPS MAP Km 9+000 to Km 11+000 DISTRICT - ROHTAS
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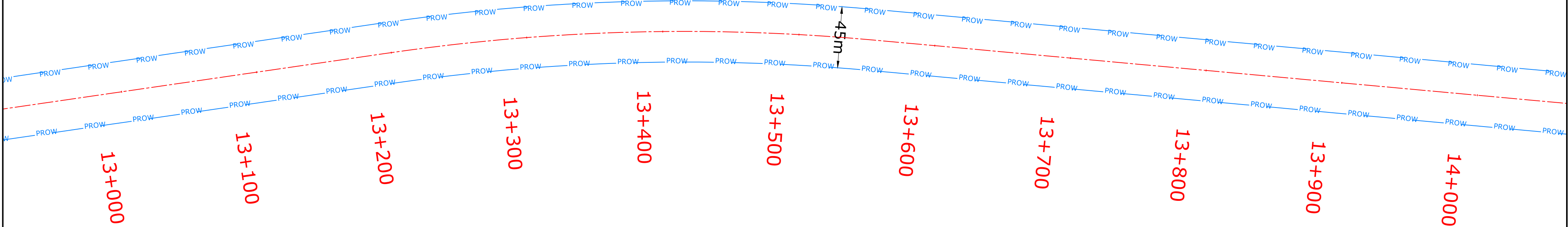


4. Rajpur Distributary

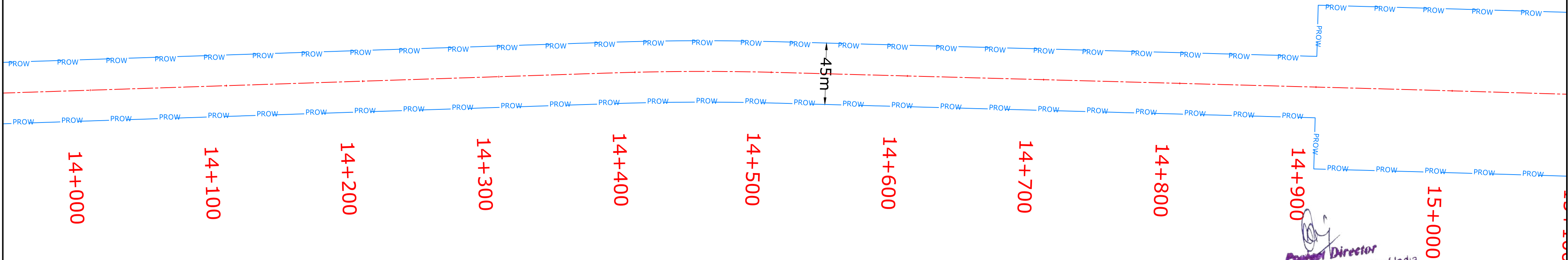
4. Rajpur Distributary		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 0' 16.759" N	84° 11' 52.154" E
2	25° 0' 14.900" N	84° 11' 52.641" E
3	25° 0' 15.245" N	84° 11' 52.917" E
4	25° 0' 17.093" N	84° 11' 52.433" E
5	25° 0' 17.492" N	84° 11' 52.768" E
6	25° 0' 15.654" N	84° 11' 53.250" E
7	25° 0' 15.991" N	84° 11' 53.528" E
8	25° 0' 17.824" N	84° 11' 53.047" E

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Village - Tetrah (13+000 to 14+600)



Village - Tetrah (13+000 to 14+600)
Village - Kaithi (14+600 to 15+500)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— PROW — PROW —
FOREST LAND PROPOSED FOR DIVERSION	

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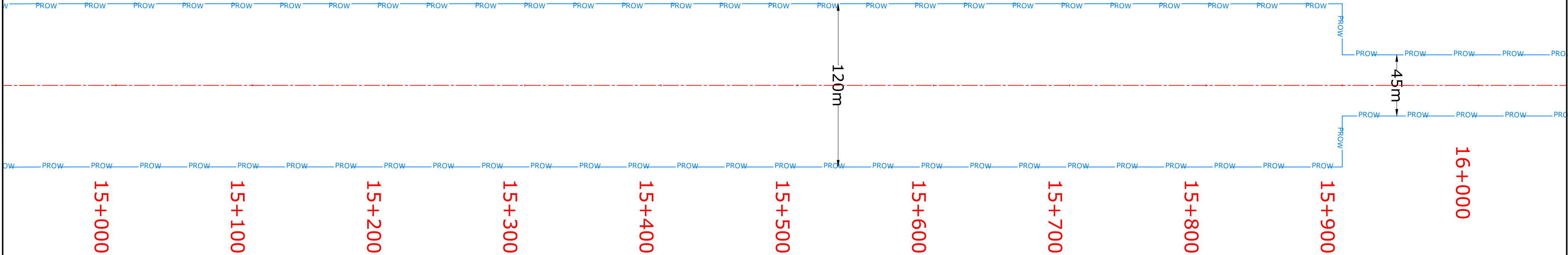
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	Km 13+000 to Km 15+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

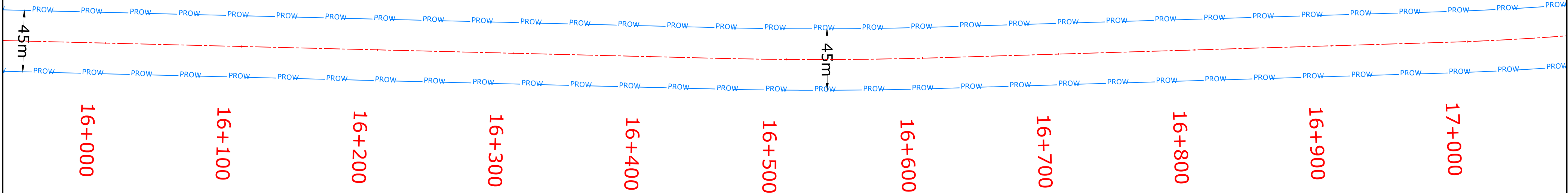
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Village - Kaithi (14+600 to 15+500)
Village - Biseni Kala (15+500 to 17+000)



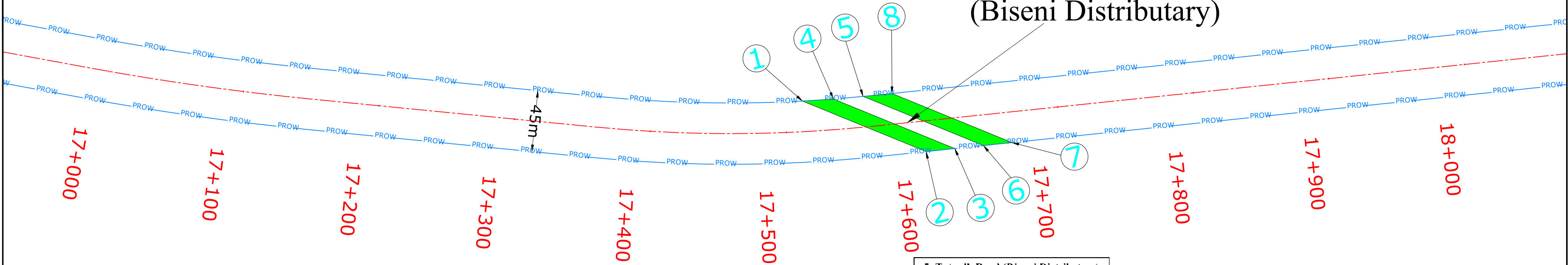
Village - Biseni Kala (15+500 to 17+000)

LEGEND		Client :  NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)	Drawing Title : DGPS MAP Km 15+000 to Km 17+000 DISTRICT - ROHTAS	Consultant:  M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005	SCALE : 1:2000	
PROPOSED CENTER LINE					Sheet : 09 OF23	Paper Size A3
PROW		Project : Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)			DATE : MAY 2022	
FOREST LAND PROPOSED FOR DIVERSION						

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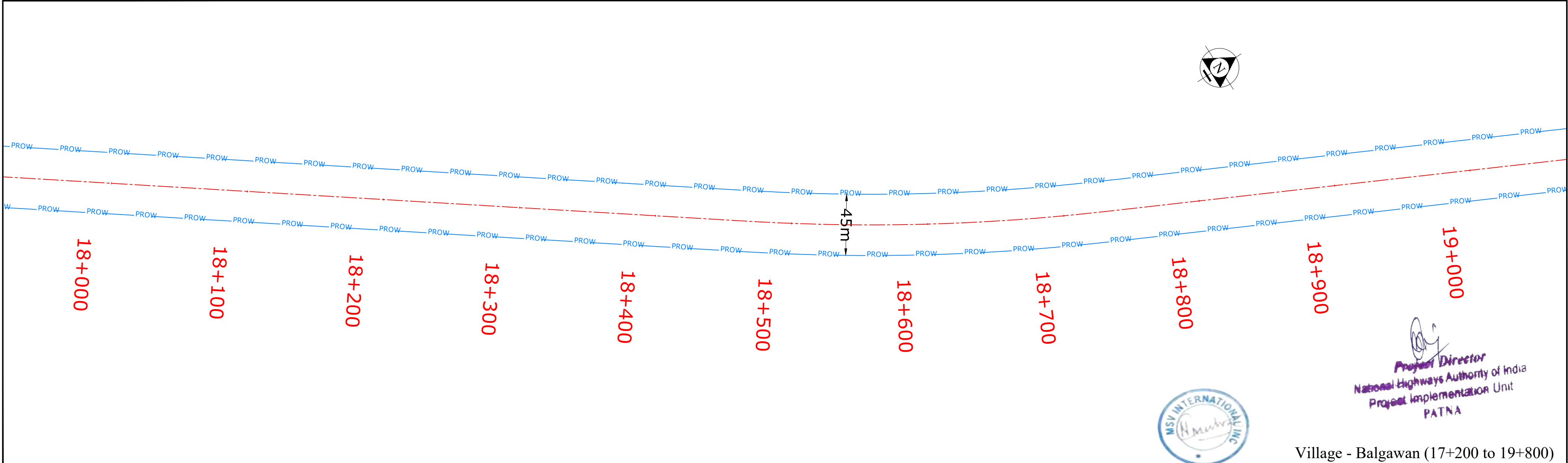
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5. Tetradh Road
(Biseni Distributary)



5. Tetradh Road (Biseni Distributary)		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 2' 13.738" N	84° 14' 17.706" E
2	25° 2' 15.175" N	84° 14' 20.826" E
3	25° 2' 15.738" N	84° 14' 21.258" E
4	25° 2' 14.328" N	84° 14' 18.198" E
5	25° 2' 14.903" N	84° 14' 18.656" E
6	25° 2' 16.301" N	84° 14' 21.690" E
7	25° 2' 16.864" N	84° 14' 22.123" E
8	25° 2' 15.469" N	84° 14' 19.094" E

Village - Karmahi (17+000 to 17+200)
Village - Balgawan (17+200 to 19+800)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA



Village - Balgawan (17+200 to 19+800)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

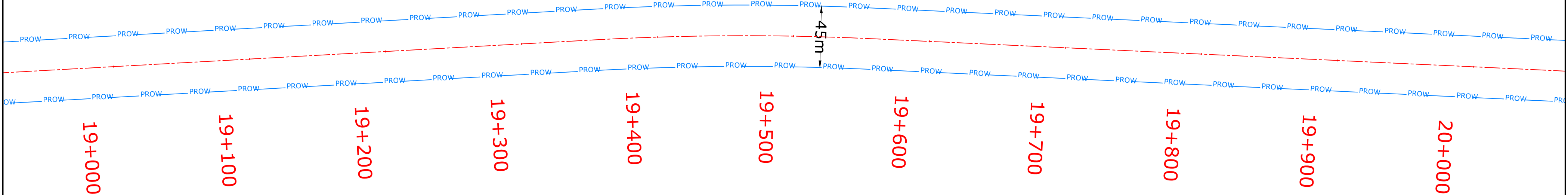
Drawing Title :	DGPS MAP
	Km 17+000 to Km 19+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

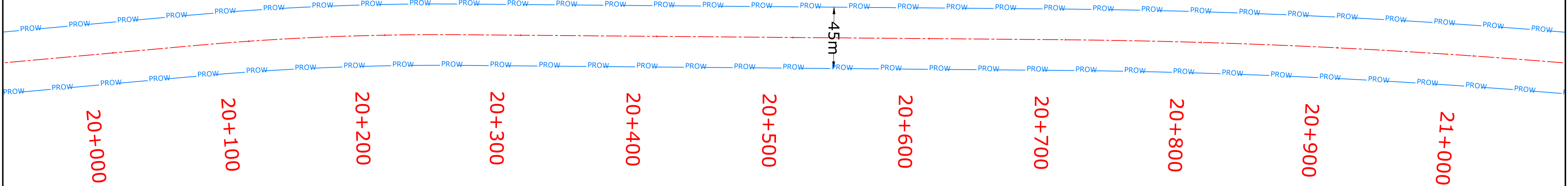
SCALE : 1:2000	Sheet : 10 OF 23 DATE : MAY 2022 Paper Size A3

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Village - Balgawan (17+200 to 19+800)
Village - Dhobdiha (19+800 to 20+400)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Dhobdiha (19+800 to 20+400)
Village - Tarawan (20+400 to 20+900)
Village - Mauna (20+900 to 22+600)

LEGEND

PROPOSED CENTER LINE	
PROW	
FOREST LAND PROPOSED FOR DIVERSION	

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Drawing Title :
DGPS MAP
Km 19+000 to Km 21+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005

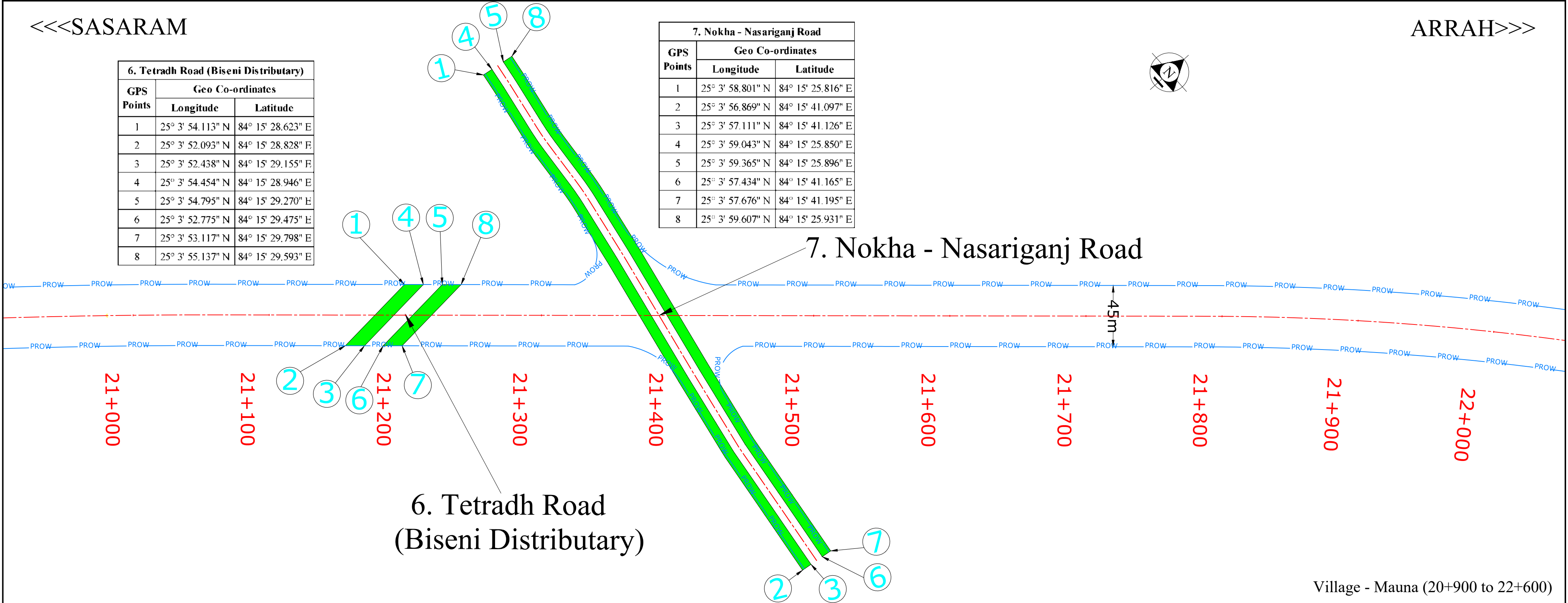
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Sheet : 11 OF23	
DATE : MAY 2022	

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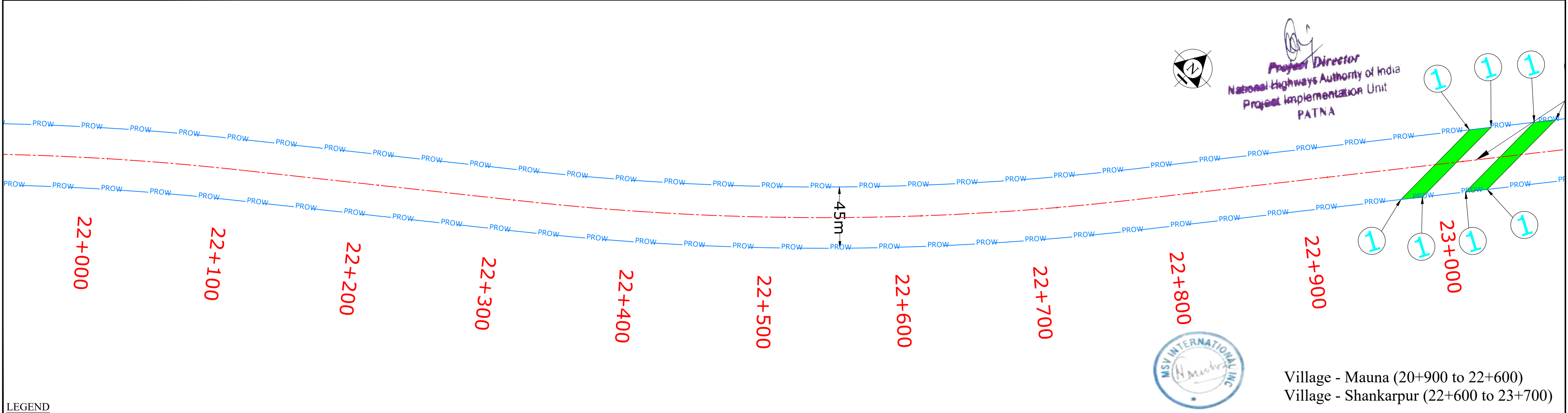
ARRAH>>>

6. Tetradh Road (Biseni Distributary)			
GPS Points	Geo Co-ordinates		
	Longitude	Latitude	
1	25° 3' 54.113" N	84° 15' 28.623" E	
2	25° 3' 52.093" N	84° 15' 28.828" E	
3	25° 3' 52.438" N	84° 15' 29.155" E	
4	25° 3' 54.454" N	84° 15' 28.946" E	
5	25° 3' 54.795" N	84° 15' 29.270" E	
6	25° 3' 52.775" N	84° 15' 29.475" E	
7	25° 3' 53.117" N	84° 15' 29.798" E	
8	25° 3' 55.137" N	84° 15' 29.593" E	

7. Nokha - Nasariganj Road			
GPS Points	Geo Co-ordinates		
	Longitude	Latitude	
1	25° 3' 58.801" N	84° 15' 25.816" E	
2	25° 3' 56.869" N	84° 15' 41.097" E	
3	25° 3' 57.111" N	84° 15' 41.126" E	
4	25° 3' 59.043" N	84° 15' 25.850" E	
5	25° 3' 59.365" N	84° 15' 25.896" E	
6	25° 3' 57.434" N	84° 15' 41.165" E	
7	25° 3' 57.676" N	84° 15' 41.195" E	
8	25° 3' 59.607" N	84° 15' 25.931" E	



Village - Mauna (20+900 to 22+600)



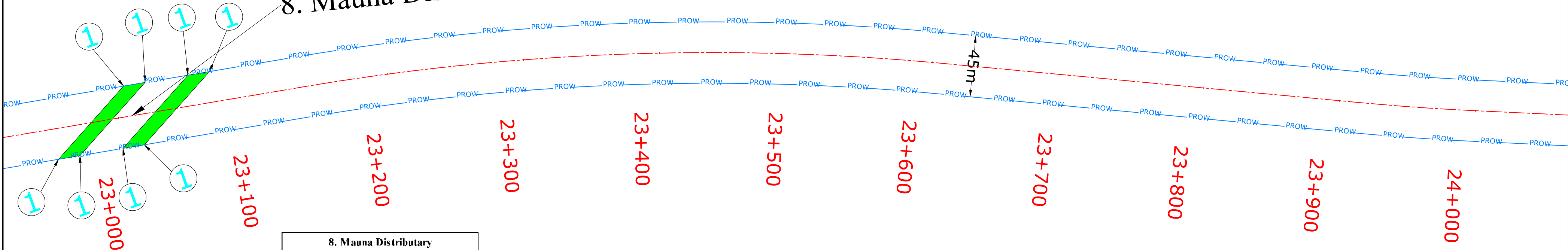
Village - Mauna (20+900 to 22+600)
Village - Shankarpur (22+600 to 23+700)

LEGEND													
PROPOSED CENTER LINE		Client :				Drawing Title :		Consultant:		M/s MSV INTERNATIONAL INC.		SCALE : 1:2000	
PROW		Project : Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)				DGPS MAP Km 21+000 to Km 23+000 DISTRICT - ROHTAS		 M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005		Sheet : 12 OF23		Paper Size A3	
FOREST LAND PROPOSED FOR DIVERSION										DATE : MAY 2022			

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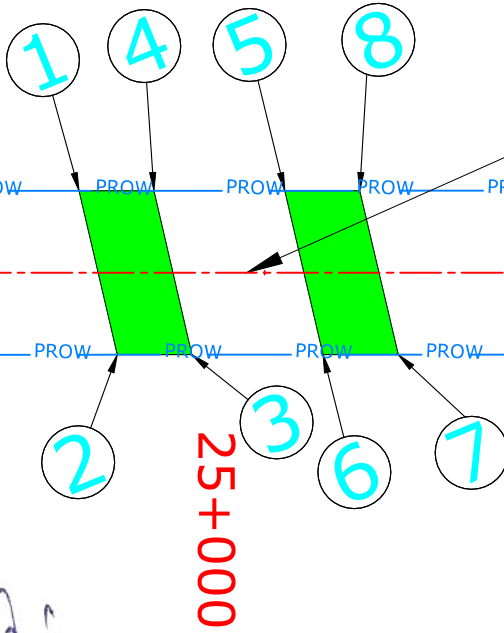
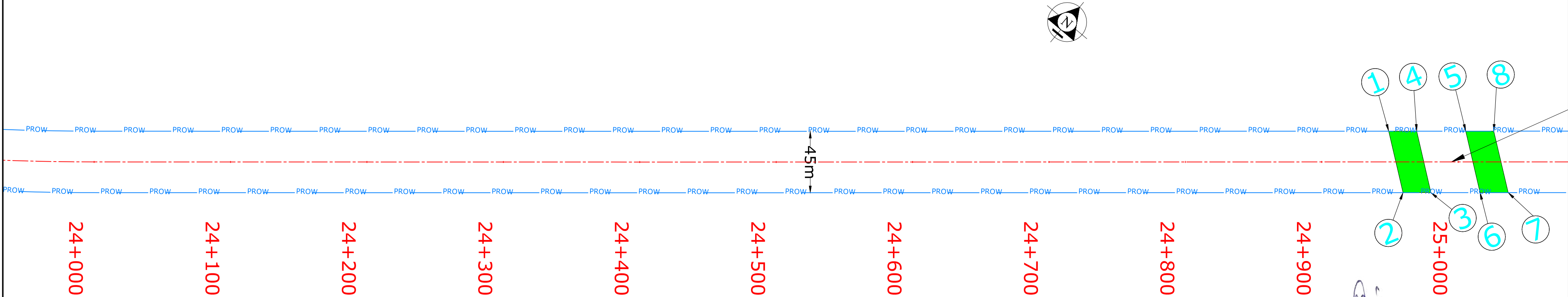
ARRAH>>>

8. Mauna Distributary



8. Mauna Distributary		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 4' 37.170" N	84° 16' 12.148" E
2	25° 4' 34.838" N	84° 16' 12.240" E
3	25° 4' 35.254" N	84° 16' 12.580" E
4	25° 4' 37.585" N	84° 16' 12.489" E
5	25° 4' 38.416" N	84° 16' 13.170" E
6	25° 4' 36.085" N	84° 16' 13.261" E
7	25° 4' 36.500" N	84° 16' 13.602" E
8	25° 4' 38.832" N	84° 16' 13.510" E

Village - Shankarpur (22+600 to 23+700)
Village - Baradih (23+700 to 23+900)
Village - Panapur (23+900 to 25+000)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Panapur (23+900 to 25+000)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— PROW — PROW —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

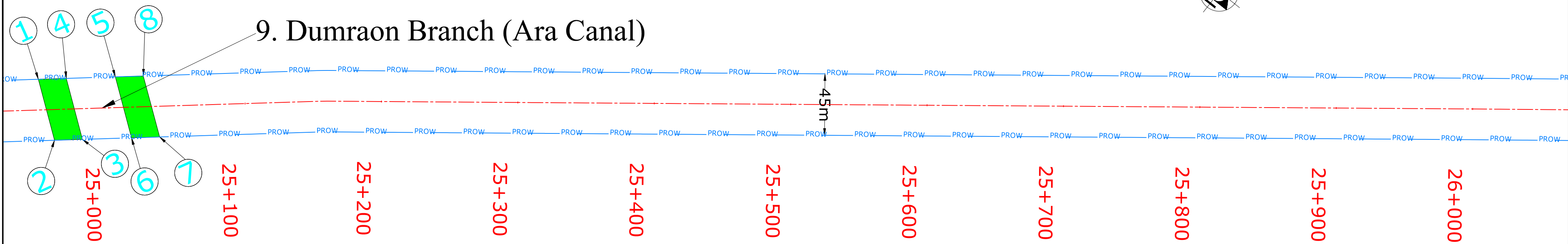
Drawing Title :	DGPS MAP Km 23+000 to Km 25+000 DISTRICT - ROHTAS
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Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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Sheet : 13 OF23	
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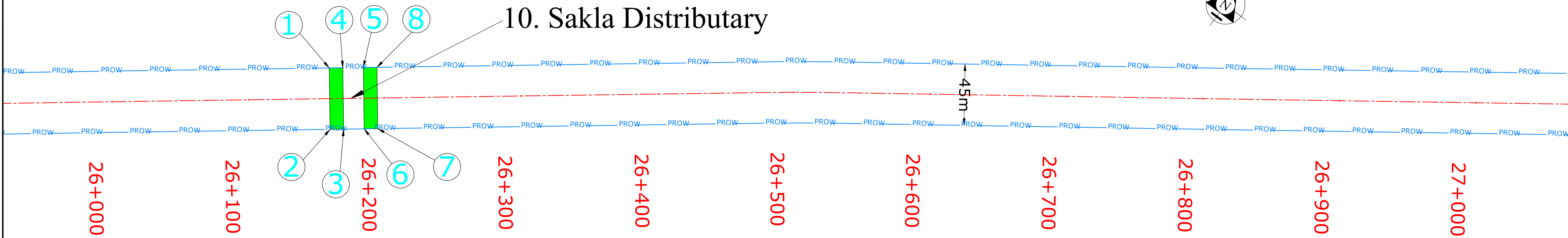
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9. Dumraon Branch (Ara Canal)		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 5' 19.747" N	84° 17' 3.187" E
2	25° 5' 18.867" N	84° 17' 4.522" E
3	25° 5' 19.303" N	84° 17' 5.073" E
4	25° 5' 20.184" N	84° 17' 3.740" E
5	25° 5' 20.950" N	84° 17' 4.707" E
6	25° 5' 20.070" N	84° 17' 6.042" E
7	25° 5' 20.510" N	84° 17' 6.598" E
8	25° 5' 21.388" N	84° 17' 5.260" E

Village - Dehri (25+000 to 25+800)
Village - Sukhara (25+800 to 26+400)



10. Sakla Distributary		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 5' 44.604" N	84° 17' 36.674" E
2	25° 5' 43.464" N	84° 17' 37.678" E
3	25° 5' 43.667" N	84° 17' 37.957" E
4	25° 5' 44.808" N	84° 17' 36.952" E
5	25° 5' 45.112" N	84° 17' 37.370" E
6	25° 5' 43.972" N	84° 17' 38.374" E
7	25° 5' 44.175" N	84° 17' 38.652" E
8	25° 5' 45.316" N	84° 17' 37.648" E

Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Sukhara (25+800 to 26+400)
Village - Bara Dih (26+400 to 26+800)
Village - Kaeth Bahuara (26+800 to 28+300)

LEGEND

PROPOSED CENTER LINE

PROW

FOREST LAND PROPOSED FOR DIVERSION

Client : NATIONAL HIGHWAYS AUTHORITY OF INDIA
(Ministry of Road, Transport & Highways, Govt. of India)

Project : Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Drawing Title :
DGPS MAP
Km 25+000 to Km 27+000
DISTRICT - ROHTAS

Consultant:
 M/s MSV INTERNATIONAL INC.
in association with
MSV INTERNATIONAL TECH PVT. LTD.
Unit no-514,515 and 516, 5th floor, Suncity Success Tower,
Golf Course, Extension Road, Sec.-65, Gurgaon-122005

SCALE : 1:2000

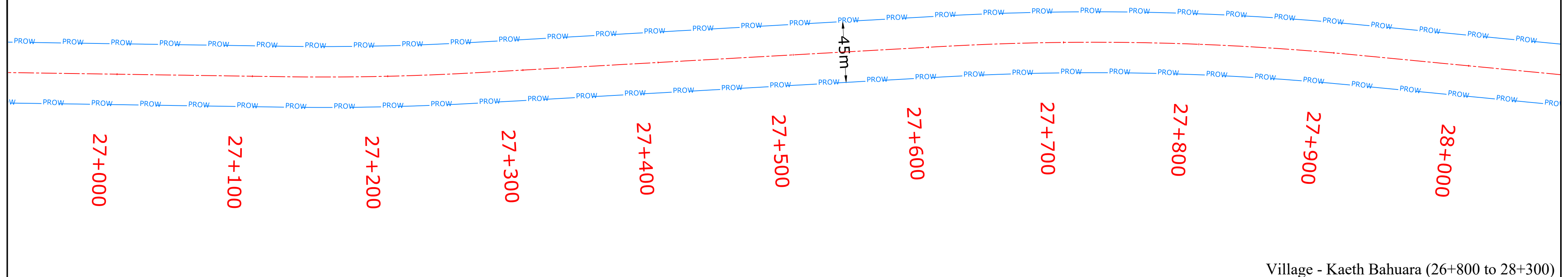
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DATE : MAY 2022

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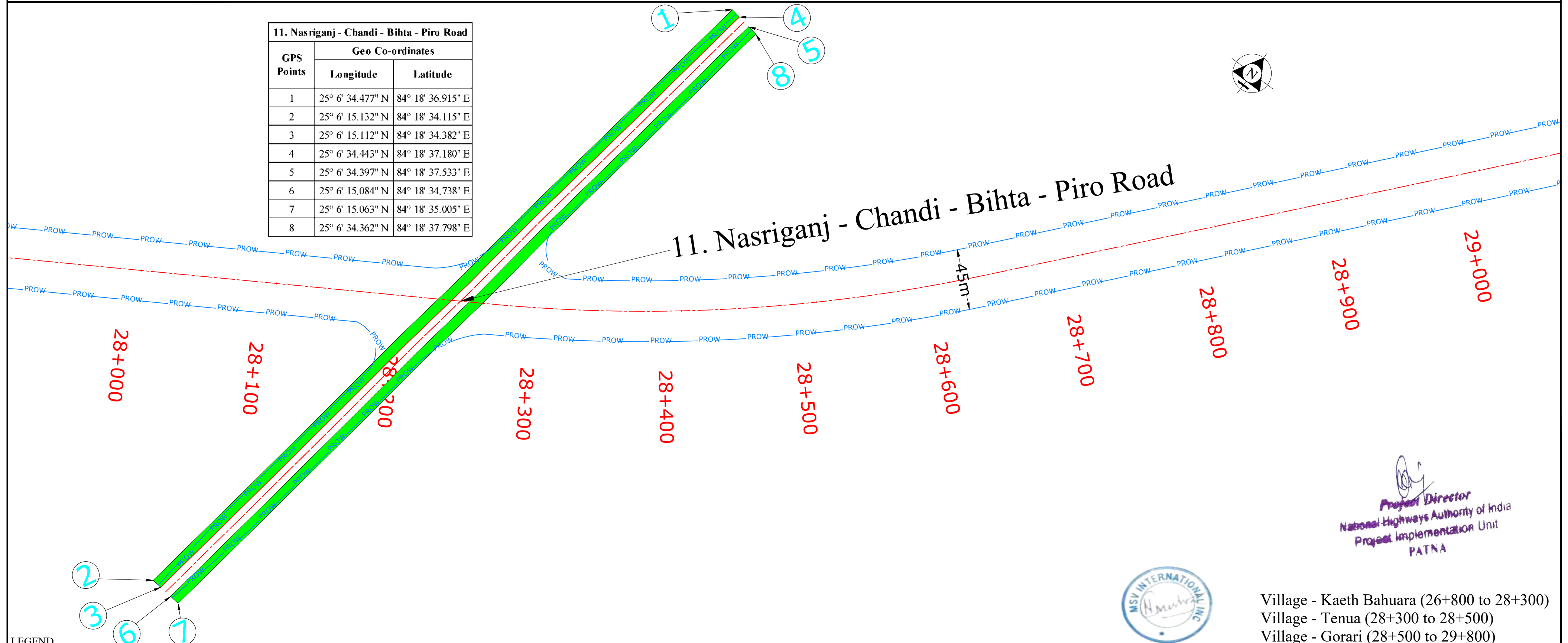
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Village - Kaeth Bahuara (26+800 to 28+300)

11. Nasriganj - Chandi - Bihta - Piro Road		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 6' 34.477" N	84° 18' 36.915" E
2	25° 6' 15.132" N	84° 18' 34.115" E
3	25° 6' 15.112" N	84° 18' 34.382" E
4	25° 6' 34.443" N	84° 18' 37.180" E
5	25° 6' 34.397" N	84° 18' 37.533" E
6	25° 6' 15.084" N	84° 18' 34.738" E
7	25° 6' 15.063" N	84° 18' 35.005" E
8	25° 6' 34.362" N	84° 18' 37.798" E



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA



Village - Kaeth Bahuara (26+800 to 28+300)
Village - Tenua (28+300 to 28+500)
Village - Gorari (28+500 to 29+800)

LEGEND
PROPOSED CENTER LINE
PROW
FOREST LAND PROPOSED FOR DIVERSION

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

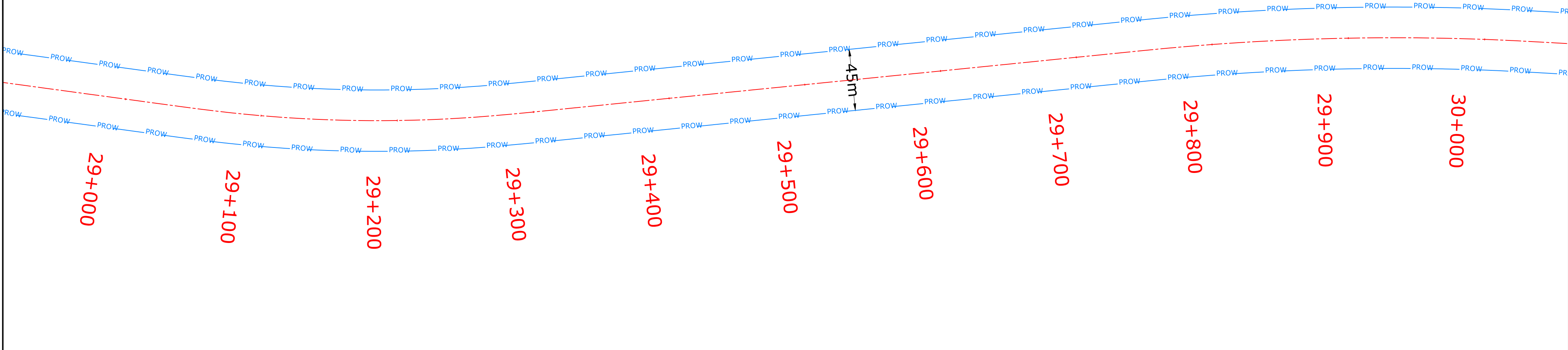
Drawing Title :
DGPS MAP
Km 27+000 to Km 29+000
DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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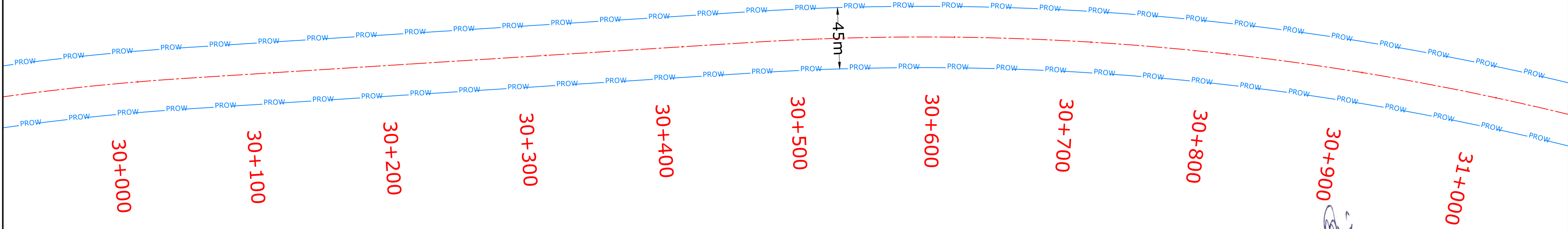
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Sheet : 15 OF23	
DATE : MAY 2022	

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Village - Gorari (28+500 to 29+800)
Village - Denri (29+800 to 30+000)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Burhawal (30+000 to 31+000)

LEGEND

PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

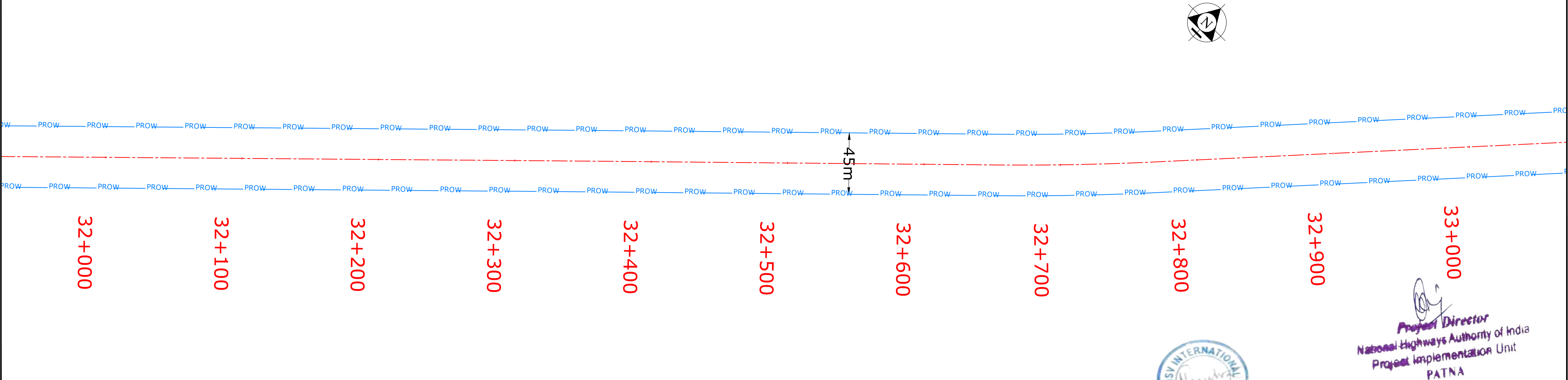
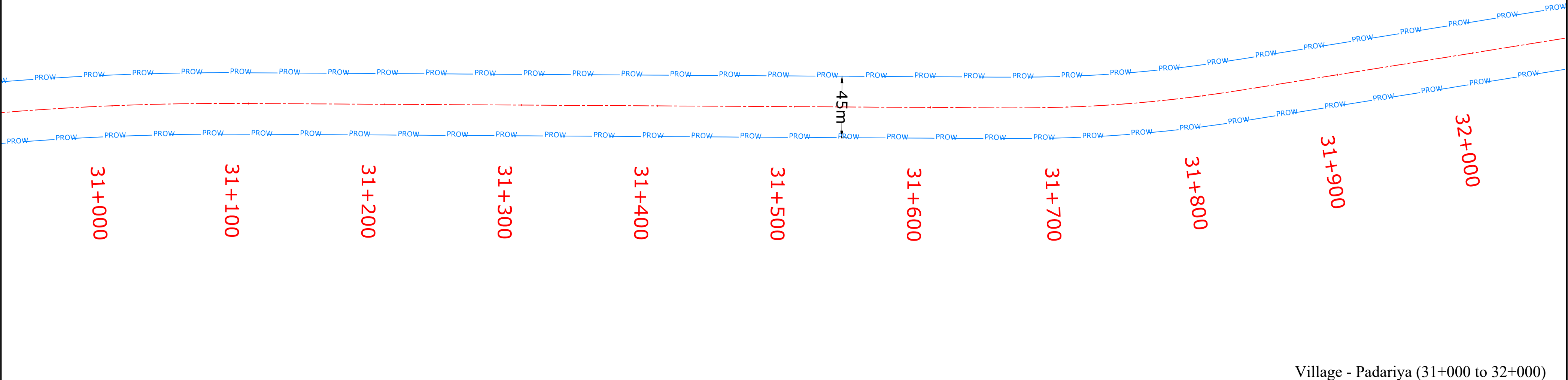
Drawing Title :	DGPS MAP Km 29+000 to Km 31+000 DISTRICT - ROHTAS
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Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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Sheet : 16 OF23	
DATE : MAY 2022	

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PROPOSED CENTER LINE	— — — — —
PROW	— — — — —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

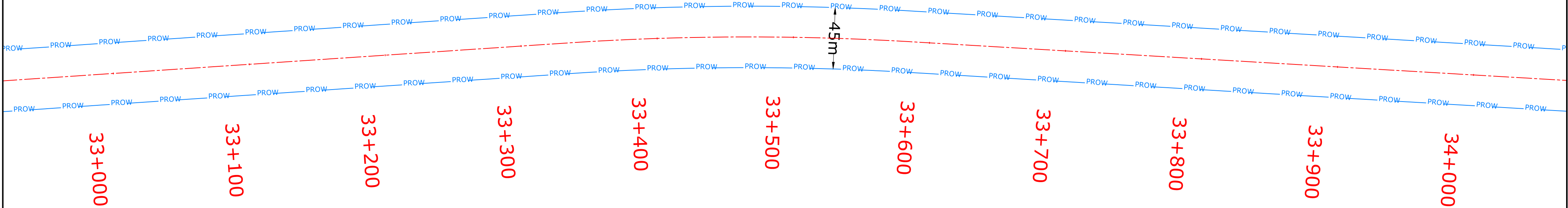
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	Km 31+000 to Km 33+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

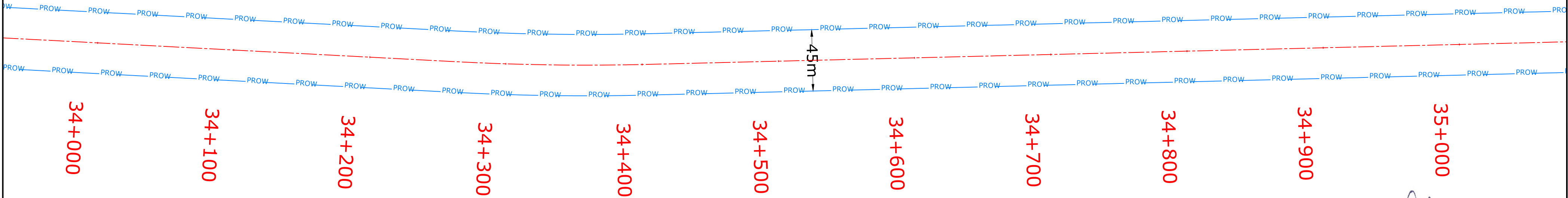
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Sheet : 17 OF23	
DATE : MAY 2022	

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Village - Hatia (32+300 to 33+700)
Village - Parsar (33+700 to 34+200)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Parsar (33+700 to 34+200)
Village - Kirhi (34+200 to 34+600)
Village - Bhartha Dih (34+600 to 35+200)

LEGEND

PROPOSED CENTER LINE	
PROW	
FOREST LAND PROPOSED FOR DIVERSION	

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

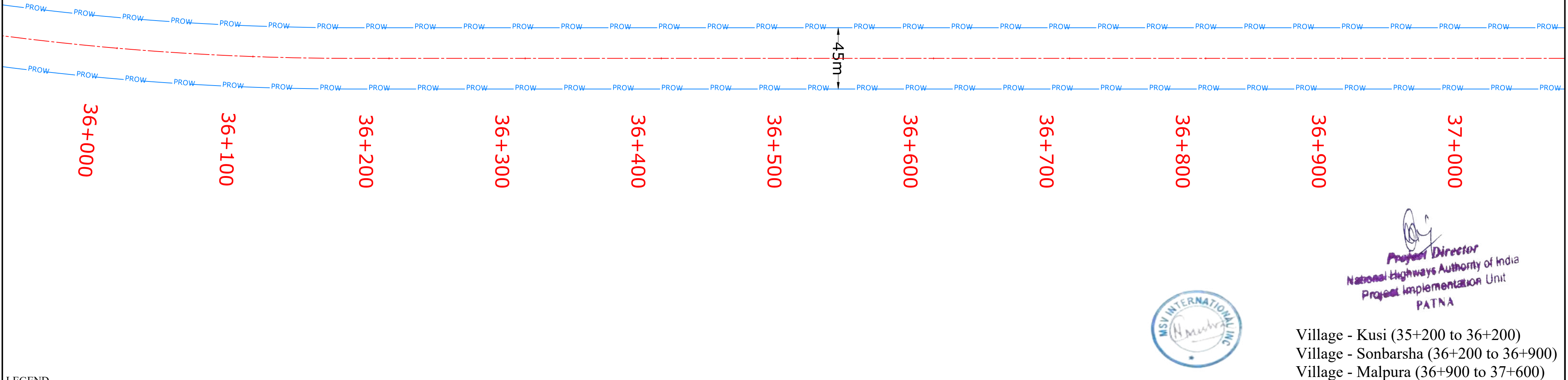
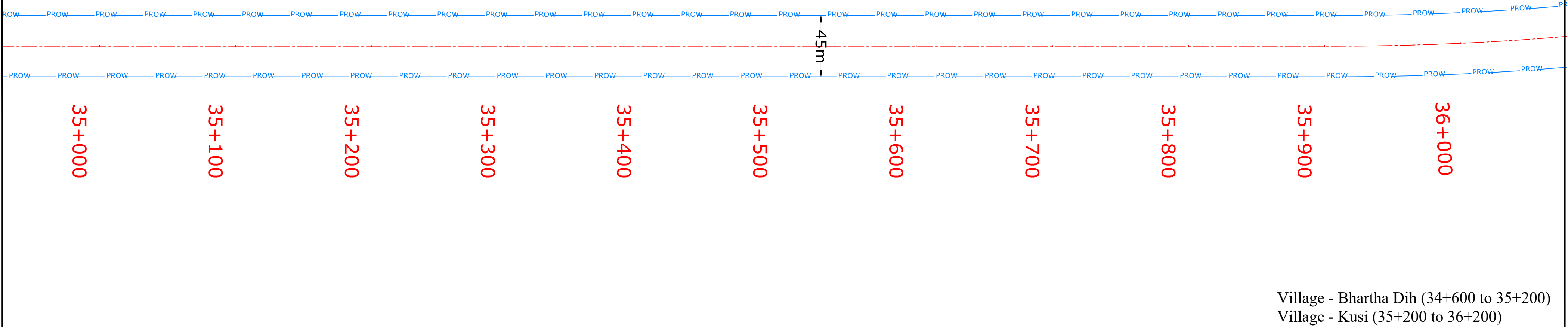
Drawing Title :	DGPS MAP Km 33+000 to Km 35+000 DISTRICT - ROHTAS
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Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
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DATE : MAY 2022	

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PROPOSED CENTER LINE	
PROW	
FOREST LAND PROPOSED FOR DIVERSION	

Client :	NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Drawing Title :
DGPS MAP
Km 35+000 to Km 37+000 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005

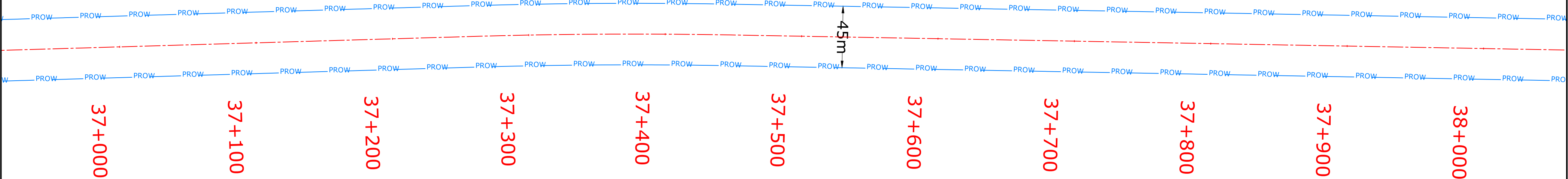
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DATE : MAY 2022	

Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

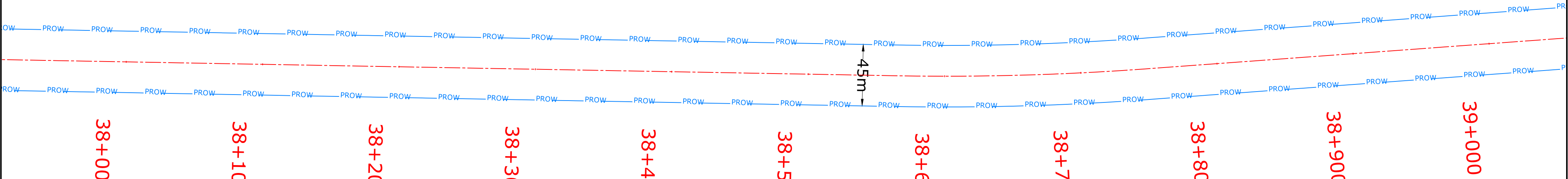


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Village - Malpura (36+900 to 37+600)
Village - Kopa (37+600 to 38+800)



Project Director
National Highways Authority of India
Project Implementation Unit
PATNA



Village - Kopa (37+600 to 38+800)
Village - Kechua (38+800 to 38+900)
Village - Kumbia (38+900 to 39+400)

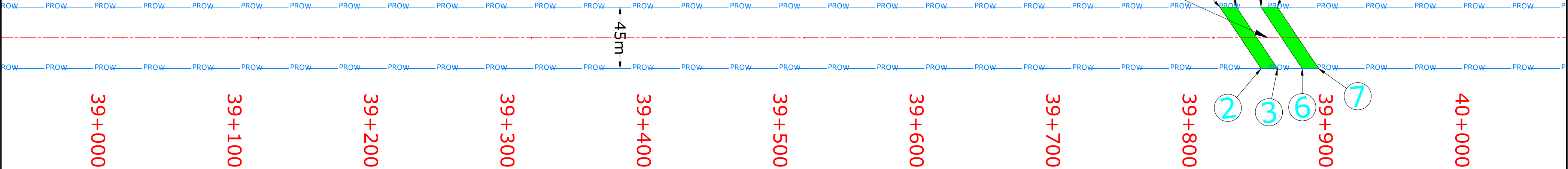
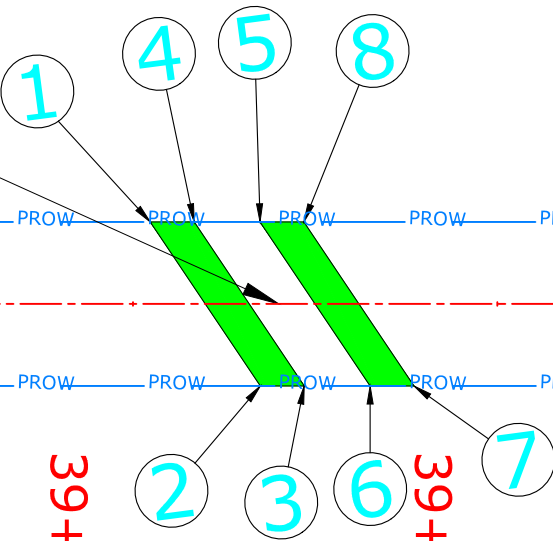
LEGEND		 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)	Drawing Title : DGPS MAP Km 37+000 to Km 39+000 DISTRICT - ROHTAS	Consultant:  M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005	SCALE : 1:2000			
PROPOSED CENTER LINE					Client : Project :	Sheet : 20 OF23	DATE : MAY 2022	Paper Size A3
PROW					Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)			
FOREST LAND PROPOSED FOR DIVERSION								

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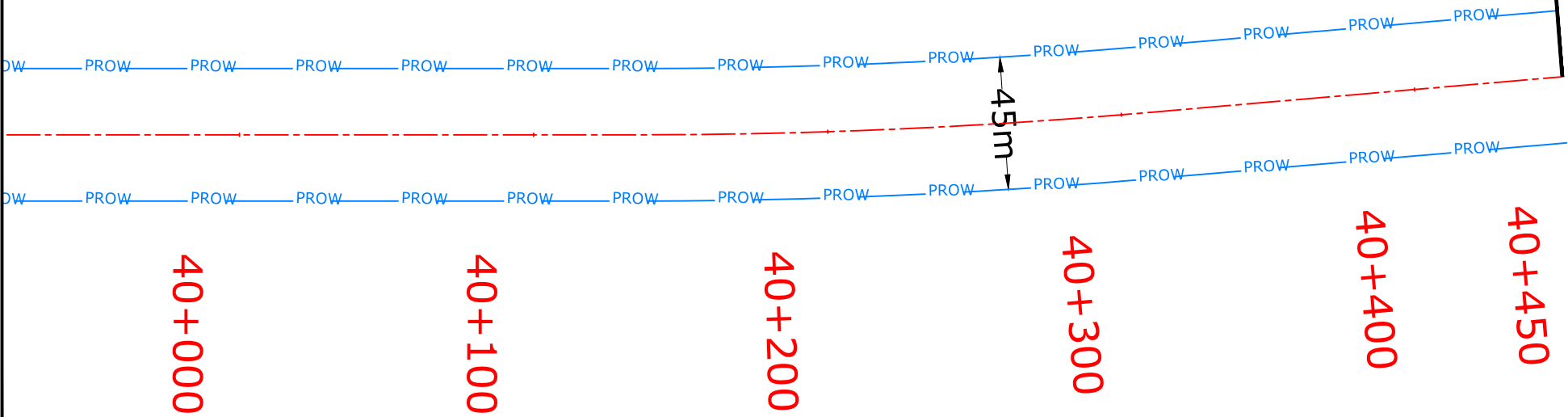
12. Sakla Distributary



12. Sakla Distributary		
GPS Points	Geo Co-ordinates	
	Longitude	Latitude
1	25° 11' 6.729" N	84° 23' 4.942" E
2	25° 11' 6.718" N	84° 23' 6.877" E
3	25° 11' 7.042" N	84° 23' 7.119" E
4	25° 11' 7.053" N	84° 23' 5.184" E
5	25° 11' 7.538" N	84° 23' 5.547" E
6	25° 11' 7.527" N	84° 23' 7.481" E
7	25° 11' 7.850" N	84° 23' 7.723" E
8	25° 11' 7.861" N	84° 23' 5.789" E

Village - Kumbia (38+900 to 39+400)
Village - Sakla (39+400 to 40+453)

End of Package-I



LEGEND

PROPOSED CENTER LINE	---
PROW	— PROW — PROW —
FOREST LAND PROPOSED FOR DIVERSION	

Client :	 NATIONAL HIGHWAYS AUTHORITY OF INDIA (Ministry of Road, Transport & Highways, Govt. of India)
Project :	
Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)	

Drawing Title :
DGPS MAP
Km 39+000 to Km 40+450 DISTRICT - ROHTAS

Consultant:	M/s MSV INTERNATIONAL INC. in association with MSV INTERNATIONAL TECH PVT. LTD. Unit no-514,515 and 516, 5th floor, Suncity Success Tower, Golf Course, Extension Road, Sec.-65, Gurgaon-122005
	

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Project Director
National Highways Authority of India
Project Implementation Unit
PATNA

Village - Sakla (39+400 to 40+453)

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER-07

**STATEMENT SHOWING DETAILS OF FOREST AREA PROPOSED FOR
DIVERSION**

S. No.	District	Division	Range/ Tehsil/ Village	Khasra/ Survey or Compartment Number or KM. Stone	Forest Area proposed for Diversion (Ha.)	Legal status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Rohtas	Rohtas	Suara	0+000 to 1+100	-	-	
2			Sakhara	1+100 to 1+200	-	-	
3			Chakia	1+200 to 1+400	-	-	
4			Manaura	1+400 to 2+100	-	-	
5			Gangauli	2+100 to 4+800	0.21	Protected Forest	
6			Ugra	4+800 to 5+500	-	-	
7			Bank	5+500 to 7+600	-	-	
8			Bararhi	7+600 to 9+000	0.51	Protected Forest	
9			Karkatpur	9+000 to 10+100	-	-	
10			Chanda	10+100 to 10+600	-	-	
11			Gamhariya	10+600 to 11+700	0.09	Protected Forest	
12			Nawadih	11+700 to 13+000	0.12	Protected Forest	
13			Tetrah	13+000 to 14+600	-	-	
14			Kaithi	14+600 to 15+500	-	-	
15			Biseni Kala	15+500 to 17+000	-	-	
16			Karmahi	17+000 to 17+200	-	-	
17			Balgawan	17+200 to 19+800	0.19	Protected Forest	
18			Dhobdiha	19+800 to 20+400	-	-	
19			Tarawan	20+400 to 20+900	-	-	
20			Mauna	20+900 to 22+600	1.43	Protected Forest	
21			Shankarpur	22+600 to 23+700	0.14	Protected Forest	
22			Baradih	23+700 to 23+900	-	-	
23			Panapur	23+900 to 25+100	0.25	Protected Forest	
24			Dehri	25+100 to 25+800	-	-	
25			Sukhara	25+800 to 26+400	-	-	
26			Bara Dih	26+400 to 26+800	-	-	
27			Kaeth Bahuara	26+800 to 28+300	0.09	Protected Forest	
28			Tenua	28+300 to 28+500	1.02	Protected Forest	
29			Gorari	28+500 to 29+800	-	-	



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Project Implementation Unit
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S. No.	District	Division	Range/ Tehsil/ Village	Khasra/ Survey or Compartment Number or KM. Stone	Forest Area proposed for Diversion (Ha.)	Legal status of Forest Area	Remarks
1	2	3	4	5	6	7	8
30			Denri	29+800 to 30+000	-	-	
31			Burhawal	30+000 to 31+000	-	-	
32			Padariya	31+300 to 32+000	-	-	
33			Gajpatipur	32+000 to 32+300	-	-	
34			Hatia	32+300 to 33+700	-	-	
35			Parsar	33+700 to 34+200	-	-	
36			Kirhi	34+200 to 34+600	-	-	
37			Bhartha Dih	34+600 to 35+200	-	-	
38			Kusi	35+200 to 36+300	-	-	
39			Sonbarsha	36+300 to 36+900	-	-	
40			Malpura	36+900 to 37+600	-	-	
41			Kopa	37+600 to 38+800	-	-	
42			Kechua	38+800 to 38+900	-	-	
43			Kumbia	38+900 to 39+400	-	-	
44			Sakla	39+400 to 40+453	0.16	Protected Forest	
45				Total	4.22		



Project Director
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Project Implementation Unit
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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER - 08

**STATEMENT SHOWING DETAILS OF NON – FOREST AREA INVOLVED IN
THE PROPOSAL**

S. No.	District	Division	Range/ Tehsil/ Village	Khasra/ Survey or Compartment Number or KM. Stone	Non-forest area involved in the proposal (Ha.)	Present Land Use	Remarks
1	2	3	4	5	6	7	8
1	Rohtas	Rohtas	Suara	0+000 to 1+100	5.90	Agricultural Land	
2			Sakhara	1+100 to 1+200	0.44	Agricultural Land	
3			Chakia	1+200 to 1+400	2.23	Agricultural Land	
4			Manaura	1+400 to 2+100	4.60	Agricultural Land	
5			Gangauli	2+100 to 4+800	15.39	Agricultural Land	
6			Ugra	4+800 to 5+500	2.82	Agricultural Land	
7			Bank	5+500 to 7+600	9.83	Agricultural Land	
8			Bararhi	7+600 to 9+000	5.79	Agricultural Land	
9			Karkatpur	9+000 to 10+100	4.86	Agricultural Land	
10			Chanda	10+100 to 10+600	3.23	Agricultural Land	
11			Gamhariya	10+600 to 11+700	4.86	Agricultural Land	
12			Nawadih	11+700 to 13+000	5.84	Agricultural Land	
13			Tetrah	13+000 to 14+600	7.16	Agricultural Land	
14			Kaithi	14+600 to 15+500	9.06	Agricultural Land	
15			Biseni Kala	15+500 to 17+000	9.31	Agricultural Land	
16			Karmahi	17+000 to 17+200	0.90	Agricultural Land	
17			Balgawan	17+200 to 19+800	12.31	Agricultural Land	
18			Dhobdiha	19+800 to 20+400	2.21	Agricultural Land	
19			Tarawan	20+400 to 20+900	2.53	Agricultural Land	
20			Mauna	20+900 to 22+600	7.58	Agricultural Land	
21			Shankarpur	22+600 to 23+700	4.92	Agricultural Land	
22			Baradih	23+700 to 23+900	1.93	Agricultural Land	
23			Panapur	23+900 to 25+100	5.49	Agricultural Land	
24			Dehri	25+100 to 25+800	2.80	Agricultural Land	
25			Sukhara	25+800 to 26+400	2.74	Agricultural Land	
26			Bara Dih	26+400 to 26+800	1.80	Agricultural Land	



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S. No.	District	Division	Range/ Tehsil/ Village	Khasra/ Survey or Compartment Number or KM. Stone	Non-forest area involved in the proposal (Ha.)	Present Land Use	Remarks
1	2	3	4	5	6	7	8
27			Kaeth Bahuara	26+800 to 28+300	9.42	Agricultural Land	
28			Tenua	28+300 to 28+500	0.78	Agricultural Land	
29			Gorari	28+500 to 29+800	6.37	Agricultural Land	
30			Denri	29+800 to 30+000	1.80	Agricultural Land	
31			Burhawal	30+000 to 31+000	4.31	Agricultural Land	
32			Padariya	31+300 to 32+000	3.15	Agricultural Land	
33			Gajpatipur	32+000 to 32+300	1.06	Agricultural Land	
34			Hatia	32+300 to 33+700	6.45	Agricultural Land	
35			Parsar	33+700 to 34+200	1.85	Agricultural Land	
36			Kirhi	34+200 to 34+600	2.10	Agricultural Land	
37			Bhartha Dih	34+600 to 35+200	2.70	Agricultural Land	
38			Kusi	35+200 to 36+300	4.50	Agricultural Land	
39			Sonbarsha	36+300 to 36+900	3.10	Agricultural Land	
40			Malpura	36+900 to 37+600	2.35	Agricultural Land	
41			Kopa	37+600 to 38+800	6.60	Agricultural Land	
42			Kechua	38+800 to 38+900	0.43	Agricultural Land	
43			Kumbia	38+900 to 39+400	2.70	Agricultural Land	
44			Sakla	39+400 to 40+453	4.59	Agricultural Land	
45				Total	200.78		




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Signature of User Agency

AREA CALCULATION FOR FOREST LAND

Diversion of **4.22 Ha** Forest land under jurisdiction of Forest Division Rohtas is proposed for the Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

Forest Division Rohtas (Design Km 00+000 to Design Km 40+450)										
S. No.	Arrah-Sasaram-Patna Road section of NH-119A - Proposed Design Chainage (Km)	Name of Reach	Left Hand Side*			Right Hand Side*			Total Area (m ²)	Total Area (Hectare)
			Length (m)	Width (m)	Area (m ²)	Length (m)	Width (m)	Area (m ²)	(LHS+RHS)	(LHS+RHS)
1	03+000 - 03+200	Western Son High Level Canal	70	15	1050	70	15	1050	2100	0.21
2	08+500 - 08+700	Buxar Canal	60	35	2100	60	50	3000	5100	0.51
3	10+600 - 10+700	Dehri - Tetrahar Rajpur Road	55	11	605	55	6	330	935	0.09
4	12+000 - 12+100	Rajpur Distributary	58	10	580	58	10	580	1160	0.12
5	17+500 - 17+700	Tetradh Road (Biseni Distributary)	95	10	950	95	10	950	1900	0.19
6	21+100 - 21+300	Tetradh Road (Biseni Distributary)	62	10	620	62	10	620	1240	0.12
7	21+300 - 21+500	Nokha - Nasariganj Road	435	11	4785	435	19	8265	13050	1.31
8	22+900 - 23+100	Mauna Distributary	72	10	720	72	10	720	1440	0.14
9	24+900 - 25+100	Dumraon Branch (Ara Canal)	46	20	920	46	35	1610	2530	0.25
10	26+100 - 26+200	Sakla Distributary	45	10	450	45	10	450	900	0.09
11	28+200 - 28+300	Nasriganj - Chandi - Bihta - Piro Road	600	7.5	4500	600	9.5	5700	10200	1.02
12	39+800 - 39+900	Sakla Distributary	55	12.5	687.5	55	17	935	1622.5	0.16
Total Forest Area Under Forest Division Rohtas									42177.5	4.22

*Left Hand Side and Right-Hand Side is according to existing reach (road/canal/drain/river bund etc.)




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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER – 10

JUSTIFICATION **FOR LOCATING THE PROJECT IN PROTECTED FOREST AREA**

The Ministry of Road Transport and Highways (MoRTH), Government of India has proposed “Bharatmala Pariyojana” an Umbrella scheme of road development project through National Highways Authority of India (NHAI), National Highway, Industrial Development Corporation Ltd (NHIDCL) and State Public Works Departments (PWD). This project aims to improve connectivity particularly on economic corridors, border areas and to remote areas with an aim of rapid and safe movement of cargo to boost exports.

The National Highways Authority of India (NHAI) has been entrusted with the work of Preparation of Detailed Project Report for Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

Project stretch falls in the state of Bihar. Bihar is in eastern India. It is contiguous with Uttar Pradesh to its west, Nepal to the north, the northern part of West Bengal to the east, and with Jharkhand to the south. Bihar covers a total area of 94,163 Km², with an average elevation above sea level of 53 m. It is dominated by a vast stretch of fertile plain which is divided unevenly by the Ganges River. Central parts of Bihar have some small hills, such as the Rajgir hills. Bihar has reserved Forest area of 6,845 Km², which is 7.27% of its geographical area. The State has 26 nos. of National Highways with aggregate length 5301 Kms.

Arrah-Sasaram-Patna Road section of NH-119A (Package-I) starting Ch. 00+000 is Saura and terminates at Ch. 40+450 near Sakla. The length of project road is 40.450 Km. This is a completely new Green Field Alignment, mainly passes through Plain terrain and shall be constructed as 4/6-Lane with Paved shoulder configuration. The Proposed ROW of this section is taken as 45 m in which all the configurations shall be fitted with.

The proposed road would act as the prime artery for the economic flow to this region. It will enhance economic development, provide employment opportunities to locals,




Project Director
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strengthen tourist development, ensure road safety, provide better transportation facilities and other facilities such as way side amenities etc. Vehicles operating cost will also be reduced due to improved road quality.

Sufficient care has been taken during the design stage to avoid acquisition of forest land located along the project road. No Forest land identified along the proposed alignment, however at some locations (crossings point of roads/canal/drain/river bund etc.), the proposed project falls in notified protected forest land declared for management purposes and diversion of protected forest land is unavoidable and barest minimum i. e. 4.22 Ha.




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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER - 11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest land involved in the proposal is unavoidable and barest minimum i.e., **4.22 Ha** under Forest Division Rohtas is proposed for diversion for the Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).




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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER – 12

UNDERTAKING

(FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION)

I/We, Dheeraj Kumar Bharti, Project Director, PIU Patna, NHAI, hereby, on behalf of National Highways Authority of India undertake to pay the entire amount for Compensatory Afforestation in lieu of the **4.22 Ha** forest land under jurisdiction of Forest Division Rohtas is proposed for diversion for the Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I) as per prevailing wage rates at the time of plantation.




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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER - 13

UNDERTAKING
(FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA)

I/We, Dheeraj Kumar Bharti, Project Director, PIU Patna, NHAI, hereby, on behalf of National Highways Authority of India undertake to pay the entire amount for Net Present Value in lieu of the **4.22 Ha** forest land under jurisdiction of Forest Division Rohtas is proposed for diversion for the Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

I/We, hereby, on behalf of National Highways Authority of India undertake to pay the Net Present Value (NPV) of the above forest land and other cost if any as decided by the State Government. In case of revision of rates, the difference amount will also be paid by the user agency.




Project Director
National Highways Authority of India
Project Implementation Unit
PATNA
Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

CHECK LIST SERIAL NUMBER - 13-A

UNDERTAKING

(FOR PAYMENT OF ADDITIONAL NET PRESENT VALUE OF FOREST AREA)

I/We, Dheeraj Kumar Bharti, Project Director, PIU Patna, NHAI, hereby, on behalf of National Highways Authority of India undertake to pay the entire amount for Net Present Value in lieu of the **4.22 Ha** Forest land under jurisdiction of Forest Division Rohtas is proposed for diversion for the Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

I/We, hereby, on behalf of National Highways Authority of India undertake to pay the additional Net Present Value (NPV) of the above forest land and other cost if any as decided by the State Government or as per decision of the Hon'ble Supreme Court. In case of revision of rates, the difference amount will also be paid by the user agency.




Project Director
National Highways Authority of India
Project Implementation Unit
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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

UNDERTAKING

(For No Other Feasible Alternative of Alignment and Diversion of Barest Minimum Forest Land)

I/We, Dheeraj Kumar Bharti, Project Director, PIU Patna, NHAI, hereby, undertake that, there are no other feasible alternative of alignment for have applied for Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I).

It is further state that **4.22 Ha** Forest land under jurisdiction of Forest Division Rohtas involved for the project is Protected Forest Land and it is barest minimum.




Project Director
National Highways Authority of India
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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

Undertaking/ Certificate for No Muck Generation and Disposal

This is to certify that as the project road alignment of the project namely “Construction of 4/6 Laning of Arrah-Sasaram-Patna road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)” is entirely located in plane area having no scope of tunnelling or hill cutting/ deep excavation and accordingly NO muck will be generated due to providing additional facilities, like drain, and minor geometrical improvement of project road. However, some construction debris is likely to be generated which will be utilized (like levelling, making approach road, haul road worker camp/ construction yard etc.) in project work and no specific disposal is required.




Project Director
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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

Undertaking for No Wildlife Area

This is to certified that forest land which is required to be diverted for project namely “Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)” is not a part of Wildlife Area. Also proposed project road alignment does NOT traverse through Wildlife Area, Eco-sensitive Zone (ESZ) of notified Ecologically Sensitive Area (ESA) of similar nature.




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Signature of User Agency

Project Name: Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 to Km 40+450 under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)

Forest Proposal No.: FP/BR/ROAD/157376/2022

Undertaking for Non-starting of any activity without sanction from Competent Authority

This is to certify that the construction work of project road namely “Construction of 4/6 Laning of Arrah-Sasaram-Patna Road section of NH-119A from Km 0+000 (Saura) to Km 40+450 (Sakla) under Bharatmala Pariyojana (Lot-7/Package-2) in the State of Bihar (Package-I)” has yet not started in forest area/ land.

Any civil/construction work in the forest land in not started and No Violation of Forest Conservation Act, 1980 and or its guidelines have been committed. The work in forest land will be started only after Forest Department accords permission.




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Signature of User Agency