



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
National Highways Authority of India

परियोजना कार्यान्वयन इकाई, पटना
Project Implementation Unit, Patna
क्लासिकॉन शिवमित्रा (Classicon's Shivmitra)
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Date: 28.05.2022
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TO WHOM IT MAY CONCERN

This is to certify that M/s MSV International Inc. in association with MSV International Tech. Pvt. Ltd was assigned the project "Consultancy Services for preparation of DPR for development of Economic Corridors, Inter Corridors, Feeder Routes and Border roads to improve the efficiency of freight movement in India under Bharatmala Pariyojana from Ara to Mohania in the State of Bihar, India, (Lot-7/ Package 2) having 4 lane configuration, Total Length of 115.33 Km vide Consultancy Agreement dated 10th December 2018. M/s MSV International Inc. in association with MSV International Tech. Pvt. Ltd has successfully submitted the Final Detailed project Report to our satisfaction with following project salient features.

Project Details

1.	Total Length	115.33 KM Service Road – 55.79 km (7 m wide)
2.	Category of Road / Highway	National Highway (NH 319)
3.	Lane Configuration	4 Lane configuration
4.	Total Consultancy Fees	Rs. 3.32 Cr.
5.	Total Project Cost	Rs. 1390 Cr. (Contract Price Pkg-I, 700 Cr. + Contract Price Pkg-II, 690 Cr.)
6.	Date of completion	Final DPR has been submitted in February 2020
7.	Pavement Type	Flexible Pavement is proposed for project highway

M/s MSV International Inc. in association with MSV International Tech. Pvt. Ltd has successfully completed the following scope of services:

- Inception report including QAP
- Detailed Engineering Services
- Pavement Investigation
- Topographic Survey with help of advance equipments like LIDAR/Equivalent Technology, DGPS, Total Station, GPR Locator etc.
- Engineering surveys and investigation including Traffic Studies, OD Surveys, CVC & Axle load survey.
- Geotechnical Investigation in soil and rock strata.
- Material Investigation
- Utility Shifting

- Land Acquisition – 3a, 3A, 3D, 3G Village wise proposals etc.
- Land Survey
- Detailed plan and profile (P&P) and detailed cost estimate of final alignment along with structures.
- Final Feasibility report.
- Study Environment Impact Assessment
- Social Impact Assessment
- Clearance of ROB
- Detailed project report

M/s MSV International Inc. in association with MSV International Tech. Pvt. Ltd has completed the survey and investigation with following equipment and technology

- Automatic Traffic Counter cum Classifier (ATCC)
- Ground Penetrating Radar (GPR) and Induction Locator for detection of sub surface utility
- Mobile LIDAR Survey
- Drone survey with video recording
- Preparation Cadastral Maps

The Ara – Mohania section has 2 packages i.e. Works contract Pkg-I having 54.530 km length & Works contract Pkg-II having 60.8 km length

Details of Works contract package-I are as under:

VUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	4.450	1x30	5.5	2x11m	800
2	22.500	1x30	5.5	2x11m	1780
3	50.611	1x30	5.5	2x11m	850
Total Aggregate Length (m)					3430

LVUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	1.770	1x12	4	2x11m	1100
2	24.930	1x12	4	2x11m	600
3	38.730	1x12	4	2x11m	1300
Total Aggregate Length (m)					3000



SVUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	0.550	1X7	4	2x11m	600
2	11.040	1X7	4	2x11m	1130
3	13.900	1X7	4	2x11m	600
4	15.230	1X7	4	2x11m	600
5	16.758	1X7	4	2x11m	600
6	19.295	1X7	4	2x11m	600
7	35.215	1X7	4	2x11m	800
8	36.635	1X7	4	2x11m	600
9	41.350	1X7	4	2x11m	800
10	42.762	1X7	4	2x11m	600
11	46.400	1X7	4	2x11m	1100
Total Aggregate Length (m)					8030

Cross Flyover

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	0.000	15+30+15	5.5	2x14.5m	1000
Total Aggregate Length (m)					1000

Major Bridge

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Structure Type	Total Width (m)	Total length of structure (m)
1	5.450	4X21.50	RCC Girder	1X12.5	86
2	50.280	5X21.00	RCC Girder	1X12.5	105
Total Aggregate Length (m)					191

ROB

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Structure Type	Total Width (m)	Total length of structure with approaches (m)
1	1.950	2x35	PSC + Steel Girder	2X12.5	1100
Total Aggregate Length (m)					1100



Minor Bridge

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Total length of structure (m)
1	5.265	2X12.7+1X13.2.00	38.6
2	20.787	3X16.50	49.5
3	22.804	1X6.00	6
4	28.260	1X6.50	6.5
5	33.587	2X8.50	17
6	39.401	1X6.00	6
7	39.795	1X6.00	6
8	40.868	2X13.0	26
9	48.355	1X22.00	22
10	50.467	1X6.00	6
11	51.398	1X6.00	6
12	53.241	1X6.00	6
13	54.230	1X40.00	40
Total Aggregate Length (m)			235.6

Details of Works contract package-II are as under:

VUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	67.880	1x20	5.5	2x11m	900
2	69.530	1x30	5.5	2x11m	2100
3	95.890	1x20	5.5	2x11m	600
Total Aggregate Length (m)					3600

LVUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	88.265	1x12	4	2x11m	600
Total Aggregate Length (m)					600

SVUP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	56.090	1X7	4	2x11m	600
2	58.415	1X7	4	2x11m	600
3	63.500	1X7	4	2x11m	600

3600

4	73.780	1X7	4	2x11m	600
5	90.661	1X7	4	2x11m	600
6	100.060	1X7	4	2x11m	600
7	103.025	1X7	4	2x11m	600
8	105.957	1X7	4	2x11m	625
9	108.450	1X7	4	2x11m	600
10	110.300	1X7	4	2x11m	800
Total Aggregate Length (m)					6225

VOP

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Vertical Clearance (m)	Total Width (m)	Total length of structure with approaches (m)
1	84.480	15+30+15	5.5	1x9m	860
Total Aggregate Length (m)					860

Major Bridge

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Structure Type	Total Width (m)	Total length of structure (m)
1	85.430	3X22.0	RCC Girder	2X12.5	66
2	96.311	3X22.0	RCC Girder	1X12.5	66
3	103.430	5X26.0	RCC Girder	1X12.5	130
Total Aggregate Length (m)					262

ROB

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Structure Type	Total Width (m)	Total length of structure with approaches (m)
1	114.951	1X60	Bowstring	1X12.5	700
Total Aggregate Length (m)					700

Minor Bridge

Sl. No.	Design Chainage (km)	Span Arrangement (m)	Total length of structure (m)
1	55.559	1X6.00	6
2	57.375	1X26+1X8	34
3	60.020	2X6.50	13
4	60.930	1X17.00	17
5	68.850	3X6.50	19.5
6	68.886	3X6.50	19.5
7	70.841	1X6.50	6.5

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8	71.742	1X6.00	6
9	76.477	1X6.00	6
10	80.977	1X6.00	6
11	82.607	1X6.00	6
12	82.654	1X6.00	6
13	93.091	1X6.50	6.5
14	99.015	4X8.50	34
15	103.030	2X6.00	12
16	108.441	2X6.00	12
17	113.230	1X6.00	6
18	114.125	1X6.00	6
19	114.330	2X6.20	12.4
Total Aggregate Length (m)			234.4

This is to certify that MSV International Inc. in association with MSV International Tech. Pvt. Ltd has successfully Completed the Final Detailed project Report stage as per provision of their agreement. Both the packages have been awarded and Construction work is under progress. The performance of the consultant is appreciated. This certificate is issued on the request of the Consultant for tendering purpose.


(Prabhanshu Shekhar)
 Project Director