

Detailed Project Report

Detailed Project Report

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Name of the Project : Preparation of Feasibility Study and DPR for Construction of 2 lanes from Kohima to Nagaland/Manipur border section of NH-29 (OLD NH-150) in Nagaland.																																																					
Culvert Inventory & Condition Survey																																																					
Road Name: NH-150																																																					
Annexure IC 5																																																					
Road Section: Kohima to Jessami (NH-150)																																																					
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S.NO.		Structure No	Existing Chainage	Topo Chainage	Old Design Chainage	New Design Chainage	Revision NO.1 New Design Chainage	Revision NO.2 New Design Chainage	Type of Structure(Pipe/Slab/Box Arch)	Thickness of Slab(m)	Span Arrangement(Exp to Exp)(m)	Carriageway Width(m)	Total Width of Culvert(m)	Water Flow	Details of Head	Invert Level	Deck Level	Follow Direction	Skew	Existing FRL	Old Proposed FRL	New Proposed FRL (P&P)	Str EGL @ 6 LHS (P&P)	INVERT LEVEL LHS (Proposal)	Str EGL @ 6 RHS (P&P)	INVERT LEVEL LHS (Proposal) NEW	INVERT LEVEL RHS (Proposal) NEW	LHS Camber (%)	RHS Camber (%)	TCS Type	Diffrence Height (LHS)	Diffrence Height (RHS)	Slab/Pipe/Box	Head wall/Abutment	Wing Wall/Return Wall	Handrail/Parapet	Bed Protection	Approach	Scouring	Type of Pipe	Adequacy Waterway	Submergence	LHS(m)	RHS(m)	Remarks	Type of Structure	Span Arrangement	Total Width	Carriage way width	New Proposal	Reinforcement Type		
69		46/8	46+770	46+431	48+357	47+780	45+749		Pipe Arch	-	1 x 1.0	3.40	6.83	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1229.8	1230.7			1231.2	1231.3	1231.745	1231.256			1235.801	1229.794	1229.807	-2.471%	-2.471%	1C	0.489	-4.056	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
70		46/9	46+883	46+546	48+471	47+894	45+862		Pipe Arch	-	1 x 1.0	3.30	6.50	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1236.5	1237.6			1238.7	1238.7	1239.291	1238.480			1244.371	1237.331	1237.344	-2.622%	-2.622%	1C	0.811	-5.080	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
71		46/10	46+956	46+621	48+546	47+966	45+935		Pipe Arch	-	1 x 1.0	3.50	7.40	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1238.6	1240.5			1241.2	1241.4	1241.830	1239.436			1243.022	1239.682	1239.695	-5.700%	5.725%	1C	2.394	-1.192	Pipe Arch	Fair	-	Fair	Poor	Poor	No	-	Good	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
72		46/11	46+966	46+631	48+556	47+976	45+945		Pipe Arch	-	1 x 1.0	3.50	7.80	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1239.2	1241			1241.2	1241.3	1241.767	1240.433			1243.671	1239.680	1239.694	-4.697%	4.798%	1C	1.334	-1.904	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
73		47/1	47+325	46+925	48+849	48+261	46+23		Pipe Arch	-	1 x 1.0	3.30	7.50	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1249.7	1250.5	1252.1	1252.2	1252.1	1252.3	1252.981	1238.795			1253.020	1250.755	1250.768	-6.989%	7.021%	9	14.186	-0.039	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
74		47/2	47+611	47+222	49+144	48+547	46+516		Pipe Arch		1 x 1.0	3.30	7.50	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1264.1	1265			1266.6	1266.7	1267.203	1266.219			1271.963	1265.251	1265.264	-2.500%	-2.500%	1C	0.984	-4.760	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
75		47/3	47+776	47+389	49+310	48+713	46+681		Slab	0.20	1 x 1.0	3.50	7.50	Non - Adequate	Stone Masonary	Stone And Cement Mortar	-	1273	1275.3	1275.5	1275.4	1274.7	1275.425	1274.785			1279.594	1273.213	1273.226	-6.759%	6.842%	1C	0.640																				

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1			53/2	53+595	53+102	55+008	54+364	52+333		Pipe Arch	-	1 x 1.0	3.70	6.74	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1554.2	-					1555.2	1555.3	1555.853	1556.841	1553.790	1554.807	1553.889	1553.903	-2.271%	-2.484%	2C	-0.988	1.046	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	14.2	13.20	construct	TYPE-01				
2			53/3	53+856	53+364	55+270	54+625	52+594		Pipe Arch	-	1 x 1.0	3.70	6.74	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1561.1	-					1562.7	1562.8	1563.455	1561.637	1561.392	1561.268	1561.491	1561.506	-2.479%	-2.452%	2C	1.818	2.187	Pipe Arch	Poor	-	Fair	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	14.2	13.20	construct	TYPE-01				
2			53/6	54+197	53+709	55+614	54+967	52+935		Slab	0.20	1 x 1.5	3.90	6.40	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1582.1	1581.8	1583.7	1583.5			-	1583.6	1584.200	1587.536	1582.137	1582.245	1582.242	1582.256	-2.583%	-2.583%	1C	-3.336	1.955	Slab	Poor		Poor	Poor	Poor	No	-	Poor	No	0.6	0.8	Poor Condition & it should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
3			54/1	54+479	53+98	55+883	55+230	53+199		Pipe Arch	-	1 x 1.0	4.50	8.30	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1597.9	1596.8					1599.6	1599.6	1600.043	1602.170	1597.982	1598.420	1597.831	1597.844	6.820%	-6.756%	9	-2.127	1.623	Pipe Arch	Poor	-	Fair	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
3			54/2	54+534	54+033	55+937	55+285	53+254		Pipe Arch	-	1 x 1.0	3.90	6.63	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1599.7	1600.5					1601.8	1602	1602.548	1602.749	1600.485	1601.177	1600.596	1600.609	-2.500%	-2.500%	9	-0.201	1.371	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.4	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
4			54/3	54+847	54+325	56+229	55+599	53+567		Pipe Arch	-	1 x 1.0	3.70	10.14	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1614.4	1614.4					1616.1	1616.2	1617.848	1617.073	1615.779	1616.878	1615.647	1615.661	-6.567%	6.684%	1C	0.775	0.970	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
4			54/4	54+929	54+429	56+336	55+680	53+649		Pipe Arch	-	1 x 1.0	3.70	10.14	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1620.4	1620					1621.7	1621.9	1622.412	1623.336	1620.349	1620.104	1620.460	1620.473	-2.500%	-2.500%	1C	-0.924	2.308	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
5			54/5	55+154	54+658	56+562	55+905	53+874		Slab	0.20	1 x 1.0	3.90	6.40	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1632.3	1631.7	1633.6	1633.5			-	1633.8	1634.305	1635.969	1632.244	1633.109	1632.080	1632.093	7.038%	-6.971%	1C	-1.664	1.196	Slab	Poor		Poor	Poor	Poor	No	-	Poor	No	0.6	0.7	Poor Condition & it should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
5			55/1	55+318	54+797	56+702	56+044	54+013		Pipe Arch	-	1 x 0.9	3.70	6.74	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1639.8	1638.7					1641.1	1641.1	1641.797	1645.698	1639.734	1640.976	1639.845	1639.858	-2.500%	-2.500%	1C	-3.901	0.821	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.6	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
6			55/2	55+648	55+129	57+036	56+374	54+343		Slab	0.20	1 x 1.5	3.70	7.60	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1656.5	1657	1658.7	1658.6				1658.6	1659.216	1660.032	1657.453	1656.038	1657.564	1657.550	-2.500%	-2.500%	1C	-0.816	3.178	Slab	Fair		Good	Fair	Good	No	-	Poor	No	1.0	1.2	Good condition, It should be widening and retained.	Box	1x1.5x1.2	13.2	12.20	intric Work	TYPE-02				
6			55/4	56+145	55+631	57+538	56+871	54+84		Pipe Arch	-	1 x 1.0	4.50	8.30	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1688.2	1683.4					1689.5	1689.6	1690.198	1691.351	1688.137	1687.674	1687.972	1687.985	7.019%	-6.984%	1C	-1.153	2.524	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.4	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
7			55/5	56+280	55+769	57+676	57+007	54+975		Pipe Arch	-	1 x 1.0	3.90	6.63	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1692.4	1691.1					1694.6	1694.8	1695.459	1696.579	1693.397	1691.145	1693.345	1693.358	5.208%	-5.153%	1C	-1.120	4.314	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
8			56/1	56+733	56+169	58+071	57+400	55+368		Pipe Arch	-	1 x 1.0	3.70	10.14	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1706.3	1706.6					1707.5	1707.6	1708.175	1707.820	1706.114	1705.444	1705.950	1705.964	7.062%	-6.959%	1C	0.355	2.731	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
9			56/2	56+816	56+259	58+162	57+482	55+451		Pipe Arch	-	1 x 1.0	3.70	10.14	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1709	1707.9			L to R		1711.2	1711.5	1711.736	1711.979	1709.675	1710.287	1709.578	1709.565	5.944%	-5.869%	1C	-0.243	1.449	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
10			56/3	56+867	56+309	58+213	57+533	55+502		Pipe Arch	-	1 x 1.0	3.70	10.14	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1710.2	1710.5					1712.3	1712.5	1713.643	1714.263	1711.581	1711.244	1711.492	1711.479	5.786%	-5.748%	1C	-0.620	2.399	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
11			56/4	57+128	56+576	58+485	57+794	55+763		Pipe Arch	-	1 x 1.0	3.70	8.70	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1721.3	1720.9					1722.2	1722.7	1722.991	1723.481	1720.930	1721.566	1720.767	1720.754	7.113%	-6.945%	1C	-0.490	1.425	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				
12			56/5	57+317	56+771	58+680	57+984	55+952		Pipe Arch	-	1 x 1.0	3.90	9.69	Non - Adequate	Stone Masonary	Stone And Cement Mortar	1728.3	1727.5					1730.7	1730.6	1731.305	1733.338	1729.244	1730.452	1729.079	1729.066	7.048%	-6.978%	1C	-2.033	0.853	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	1.0	0.4	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	construct	TYPE-01				

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64		69/1	69+396	69+09	70+940	70+109	68+078		Pipe Arch	-	1 x 1.0	5.60	9.80	Non - Adequate	Stone Masonary	Stone And Cement Morter	1986.4	-					1986.2	1986.6	1987.051	1980.247			1989.013	1984.793	1984.807	-6.943%	7.098%	2C	6.804	-1.962	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01	
65		69/2	69+692	69+393	71+242	70+406	68+374		Slab	0.20	1 x 3.0	6.70	7.30	Adequate	Stone Masonary	Stone And Cement Morter	1974.2	1974.9	1975.4	1975.6			16	-	1975.5	1976.002	1972.087		1975.633	1973.742	1973.757	-6.962%	7.047%	2C	3.915	0.369	Slab	Poor	-	Poor	Poor	No	-	Poor	No	1.2	1.0	Very poor condition, it should be Replaced.	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01		
66		69/3	69+959	69+662	71+510	70+673	68+641		Pipe Arch	-	1 x 1.0	7.20	8.30	Adequate	Stone Masonary	Stone And Cement Morter	1960.2	1960.6					1960.8	1960.9	1961.420	1959.154		1961.527	1959.336	1959.351	-4.296%	4.409%	2C	2.266	-0.107	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	1.0	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01		
67		69/4	70+096	69+799	71+647	70+809	68+778		Slab	0.20	1 x 1.5	6.00	6.80	Non - Adequate	Stone Masonary	Stone And Cement Morter	1952.9	1953.4	1954.7	1954.9			-	1954.8	1955.320	1953.977		1955.620	1953.213	1953.227	-4.653%	4.751%	2C	1.343	-0.300	Slab	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	0.3	Poor Condiution and Maintenance needed.	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01		
68		70/1	70+364	70+087	71+933	71+095	69+064		Slab	0.20	1 x 1.0	3.70	6.20	Adequate	Stone Masonary	Stone And Cement Morter	1939.2	-	1940.5	1940.8					1940.8	1941	1941.431	1937.205		1941.244	1939.515	1939.529	1.761%	-1.761%	2C	4.226	0.187	Slab	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.9	0.7	Poor condition and it should be replaced.	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01
69		70/2	70+385	70+109	71+955	71+116	69+085		Slab	0.20	1 x 2.0	3.50	6.67	Non - Adequate	Stone Masonary	Stone And Cement Morter	1938.4	1940	1940	1940.7			23		1940.1	1940.2	1940.583	1937.462		1941.177	1938.375	1938.389	-6.183%	6.361%	2C	3.121	-0.594	Slab	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.5	0.4	Poor condition and it should be replaced.	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01
70		70/3	70+518	70+242	72+089	71+249	69+218		Pipe Arch	-	1 x 1.0	7.20	7.65	Adequate	Stone Masonary	Stone And Cement Morter	1935.1	1934.6					1935.6	1935.6	1936.138	1934.639		1937.807	1934.149	1934.163	2.404%	-2.870%	2C	1.499	-1.669	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.4	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	14.2	13.20	onstruct	TYPE-01		
71		70/4	70+760	70+486	72+333	71+491	69+46		Pipe Arch	-	1 x 1.0	3.90	7.00	Non - Adequate	Stone Masonary	Stone And Cement Morter	1917.4	1924.6					1925.6	1925.8	1926.244	1915.335		1928.651	1924.288	1924.301	-2.558%	0.258%	1C	10.909	-2.407	Pipe Arch	Poor	-	-	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
72		70/5	70+832	70+559	72+407	71+564	69+532		Slab	0.20	1 x 1.5	5.70	6.20	Non - Adequate	Stone Masonary	Stone And Cement Morter	1919.9	1921.2	1922.1	1922.3					1922	1921.8	1922.341	1920.354		1926.203	1920.029	1920.016	-3.473%	3.739%	1C	1.987	-3.862	Slab	Good		Good	Fair	Fair	No	-	Poor	No	1.6	1.2	Good condition, It should be widening and retained.	Box	1x1.5x1.6	13.2	12.20	S Wider	TYPE-02
73		70/6	71+034	70+761	72+609	71+765	69+734		Slab	0.20	1 x 1.5	5.90	7.20	Adequate	Stone Masonary	Stone And Cement Morter	1913.6	1912.8	1915.1	1915.1			-	1914.9	1915.394	1914.717		1915.884	1913.522	1913.535	-1.184%	1.202%	1C	0.677	-0.490	Slab	Poor	-	-	Poor	Poor	No	-	Poor	No	0.4	0.3	Poor Condition & it should be replaced.	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
74		70/7	71+122	70+848	72+696	71+853	69+822		Slab	0.20	1 x 3.0	5.20	8.20	Non - Adequate	Stone Masonary	Stone And Cement Morter	1905.4	1908.2	1910.3	1910.5			-	1910.9	1911.368	1904.821		1912.192	1909.279	1909.292	-4.744%	4.925%	1C	6.547	-0.824	Slab	Poor	-	Poor	Poor	Poor	No	-	Poor	No	0.4	0.5	Poor Condition & it should be replaced.	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
75		70/8	71+209	70+937	72+783	71+940	69+909		Pipe Arch	-	1 x 1.0	4.00	7.27	Non - Adequate	Stone Masonary	Stone And Cement Morter	1898.7	1904.7					1904.8	1905.3	1905.812	1904.888		1904.835	1903.740	1903.753	-4.463%	4.582%	9	0.924	0.977	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.4	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
76		71/1	71+336	71+044	72+890	72+044	70+013		Pipe Arch	-	1 x 1.0	3.70	7.36	Non - Adequate	Stone Masonary	Stone And Cement Morter	1900.2	1901					1901.5	1901.6	1902.120	1900.458		1902.770	1900.168	1900.181	-1.975%	-2.500%	1C	1.662	-0.650	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
77		71/2	71+423	71+088	72+978	72+131	70+1		Pipe Arch	-	1 x 1.0	3.90	11.00	Adequate	Stone Masonary	Stone And Cement Morter	1893.2	-					1895.1	1895.2	1895.723	1886.817		1894.996	1893.570	1893.583	-5.792%	5.823%	1C	8.906	0.727	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
78		71/3	71+518	71+229	73+077	72+226	70+195		Pipe Arch	-	1 x 1.0	3.80	7.73	Adequate	Stone Masonary	Stone And Cement Morter	-	1890.2					1891.3	1890.6	1891.324	1882.709		1890.009	1889.100	1889.113	-6.948%	7.090%	1C	8.615	1.315	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
79		71/4	71+717	71+436	73+281	72+425	70+394		Pipe Arch	-	1 x 1.0	4.20	6.50	Adequate	Stone Masonary	Stone And Cement Morter	1885.8	1885.2					1885.7	1885.7	1886.242	1883.001		1886.435	1884.114	1884.128	-5.370%	5.444%	1C	3.241	-0.193	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		
80		71/5	71+785	71+503	73+350	72+494	70+462		Pipe Arch		1.000	4.20	7.27	Non - Adequate	Stone Masonary	Stone And Cement Morter	1880.8	1880.7					1881.4	1882.1	1882.701	1879.220		1884.498	1880.480	1880.494	-6.894%	7.183%	1C	3.481	-1.797	Pipe Arch	Poor	-	Poor	Poor	Poor	No	-	Poor	No	1.0	0.5	On the valley side Pipe (Corrugated Steel Pipe) shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Condition is poor. It	Box	1x2x1.5	13.2	12.20	onstruct	TYPE-01		

Detailed Project Report

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Detailed Project Report

Detailed Project Report

Name of the Project : Preparation of Feasibility Study and DPR for Construction of 2 lanes from Kohima to Nagaland/Manipur border section of NH-29 (OLD NH-150) in Nagaland.																																																					
Culvert Inventory & Condition Survey																																																					
Road Name: NH-150																				Road Name: NH-150																																	
Road Section: Kohima to Jessami (NH-150)																				Road Section: Kohima to Jessami (NH-150)																																	
S.NO.		Structure No	Existing Chainage	Topo Chainage	Old Design Chainage	New Design Chainage	Revision NO.1 New Design Chainage	Revision NO.2 New Design Chainage	Type of Structure (Pipe/Slab/Box/Arch)	Thickness of Slab (m)	Span Arrangement (Exp to Exp) (m)	Carriageway Width (m)	Total Width of Culvert (m)	Water Flow	Details of Head		As per Topo Plan				Old Proposed FRL	New Proposed FRL (P&P)	Str EGL @ 6 LHS (P&P)	INVERT LEVEL LHS (Proposal)	Str EGL @ 6 RHS (P&P)	INVERT LEVEL LHS (Proposal) NEW	INVERT LEVEL RHS (Proposal) NEW	LHS Camber (%)	RHS Camber (%)	TCS Type	Difference Height (LHS)	Difference Height (RHS)	Condition of Various features of Culvert										Remarks	Type of Structure	Span Arrangement	Total Width	Carriageway width	New Proposal	Reinforcement Type				
															Type	Material	Invert Level	Deck Level	Follow Direction	Skew													Existing FRL	Slab/Pipe/Box	Head wall/Abutment	Wing Wall/Return Wall	Handrail/Parapet	Bed Protection	Approach	Scouring	Type of Pipe	Adequacy Waterway								Submergence	Vertical		
																																																			LHS	RHS	LHS
61		115/2	115+636	115+664	117+453	116+281	114+234		Pipe Arch		1 x 1.0	3.20	6.00	Non-adequate	Stone Masonary	Stone And Cement Mortar	797.17	799.32			800.64	800.51	801.092	806.718	799.030	798.349	798.987	798.974	5.004%	-5.000%	1C	-5.626	2.743	Pipe Arch	Poor	-	Poor	Poor	Poor	No	Corrugated Steel Pipe	Poor	No	0.8	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
62		115/4	116+117	116+148	117+935	116+763	114+715		Pipe Arch		1 x 1.0	3.10	6.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	803.34	798.44			804.01	804	804.603	808.570	802.541	800.063	802.512	802.499	4.868%	-4.765%	1C	-3.967	4.540	Pipe Arch	Poor	-	-	Poor	Poor	No		Poor	No	0.6	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
63		116/2	116+649	116+664	118+449	117+275	115+227		Pipe Arch		1.000	3.60	7.00	Non-adequate	Stone Masonary	Stone And Cement Mortar					815.37	816.025	817.484	813.962	814.014	814.073	814.059	-2.500%	-2.500%	1C	-1.459	2.011	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.5	1.0	Topo Missing	Box	1x2x1.5	13.2	12.20	construct	TYPE-01		
64		116/3	116+712	116+725	118+512	117+338	115+29		Pipe		1 x 1.2	3.20	6.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	814.35	813.75			814.33	814.21	814.768	815.557	812.707	807.748	812.576	812.563	6.424%	-6.420%	9	-0.789	7.020	Pipe	Poor	-	-	Poor	Poor	No		Poor	No	0.4	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
65		117/4	118+028	118+052	119+837	118+651	116+603		Pipe Arch		1 x 1.0	3.60	6.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	747.31	746.16			747.82	747.7	748.225	751.480	746.164	745.798	746.047	746.034	6.403%	-6.190%	1C	-3.255	2.427	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.5	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
66		117/5	118+298	118+323	120+108	118+921	116+873		Pipe Arch		1 x 1.0	3.50	7.00	Non-adequate	Stone Masonary	Stone And Cement Mortar	731.56	729.06			734.25	734.06	734.924	740.851	732.859	733.386	733.086	733.072	-0.629%	0.626%	1C	-5.927	1.538	Pipe Arch	Poor	-	-	Poor	Poor	No		Poor	No	0.7	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
67		119/1	119+719	119+505	121+289	120+097	118+05		Slab	0.20	1 x 1.0	3.50	6.20	Non-adequate	Stone Masonary	Stone And Cement Mortar	679.65	675.48	681.14	680.9		-	681.06	681.694	681.149	679.633	680.391	679.491	679.477	6.147%	-6.110%	2C	0.545	1.303	Slab	Poor	-	Poor	Poor	Poor	No		Poor	No	0.6	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	14.2	13.20	construct	TYPE-01
68		119/2	119+722	119+512	121+297	120+105	118+058		Slab	0.20	1 x 1.0	3.30	8.20	Non-adequate	Stone Masonary	Stone And Cement Mortar	678.69	675.33	681.07	681.04		-	680.8	681.432	681.313	679.371	679.824	679.200	679.186	6.559%	-6.542%	2C	0.119	1.608	Slab	Poor	-	Poor	Poor	Poor	No		Poor	No	1.6	1.8	Poor Condition And it should be Replaced	Box	1x2x1.5	14.2	13.20	construct	TYPE-01
Package - VI Design Chainage (Km 118+690 to Km 130+118)																																																					
1		119/3	120+368	120+158	121+942	120+748	118+701		Pipe Arch		1 x 1.0	3.50	7.10	Non-adequate	Stone Masonary	Stone And Cement Mortar	657.72	657.79			658.33	658.37	659.006	657.141	656.943	658.860	657.054	657.040	-1.238%	-2.500%	1C	1.865	0.146	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.5	0.9	Poor Condition And it should be Replaced	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
2		119/4	120+399	120+191	121+974	120+781	118+734		Pipe Arch		1 x 1.5	3.60	7.00	Non-adequate	Stone Masonary	Stone And Cement Mortar	658.29	658.51			658.7	658.74	659.443	657.742	657.379	658.814	657.501	657.488	-2.328%	-1.220%	1C	1.701	0.629	Pipe Arch	Poor	-	-	Poor	Poor	No		Poor	No	0.6	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
3		119/5	120+409	120+201	121+984	120+792	118+744		Pipe Arch		1 x 1.0	3.60	7.20	Adequate	Stone Masonary	Stone And Cement Mortar	-	658.29			659.04	659.03	659.712	658.267	657.646	659.186	657.763	657.750	-2.445%	2.075%	1C	1.445	0.526	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.4	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
4		120/1	120+742	120+518	122+312	121+117	119+069		Pipe Arch		1 x 1.0	3.50	6.55	Adequate	Stone Masonary	Stone And Cement Mortar	670.1	670.01			670.14	670.38	670.825	672.749	668.762	669.392	668.786	668.773	3.941%	-3.911%	1C	-1.924	1.433	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.5	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
5		120/2	120+872	120+644	122+436	121+245	119+198		Pipe Arch		1 x 1.0	3.40	7.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	676.58	675.97			676.31	676.31	676.913	679.059	674.852	676.759	674.692	674.679	7.162%	-6.906%	1C	-2.146	0.154	Pipe Arch	Poor	-	-	Poor	Poor	No		Poor	No	0.6	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
6		120/3	120+948	120+716	122+512	121+322	119+275		Pipe Arch		1 x 1.0	3.30	6.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	680.46	680.37			680.69	680.91	681.373	683.028	679.310	676.272	679.419	679.406	1.605%	-2.523%	1C	-1.655	5.101	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.5	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
7		120/4	121+149	120+913	122+708	121+521	119+476		Pipe Arch		1 x 1.0	3.70	6.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	691.37	691.22		R to L	691.23	691.23	691.798	691.769		698.297	689.663	689.677	5.506%	-5.486%	1C	0.029	-6.499	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.7	1.5	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	
8		120/5	121+350	121+117	122+909	121+725	119+677		Slab	0.20	1 x 3.0	3.70	7.50	Non-adequate	Stone Masonary	Stone And Cement Mortar	705.87	704.22	706.34	706.32		-	705.91	706.565	707.036		706.938	704.339	704.353	-6.976%	7.049%	1C	-0.471	-0.373	Slab	Poor	-	Poor	Poor	Poor	No		Poor	No	0.6	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01
9		120/6	121+402	121+164	122+959	121+777	119+729		Pipe Arch		1 x 1.0	3.60	7.20	Adequate	Stone Masonary	Stone And Cement Mortar	-	707.79			708.5	708.64	709.243	709.911		708.761	707.291	707.304	-2.500%	-1.573%	1C	-0.668	0.482	Pipe Arch	Poor	-	Poor	Poor	Poor	No		Poor	No	0.7	1.0	On the valley side Pipe shape Culvert is noticed and Tilla side Arch shape Culvert is noticed. Poor condition. It should be replaced.	Box	1x2x1.5	13.2	12.20	construct	TYPE-01	

Detailed Project Report

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