

Appendix 6.6.1 (3) Cost of Bridges and Pedestrian Bridges
Construction Cost of Bagmati Bridge No.1

Unit : NRs.

Description	Amount			Total
	Local Portion	Foreign Portion	Local Portion	
Clear site and stripping	4	0	0	0
Removal of existing pave	77	0	0	0
Removal of existing bridg	1,200,600	0	0	0
Removal of existing struc	392	0	0	0
Fill in soft material	84	0	0	0
Spoil in soft material	60	0	0	0
Sodding	39	0	0	0
Plant selected trees	0	0	0	0
Gabion	345	1,858,865	328,035	2186900
Stone Masonry	1,221	322,397	80,599	402996
Excavation in soft materi	10	219,200	54,800	274000
Backfilling with selectdr	9	154,440	38,610	193050
Side block	239	0	0	0
Kerb stone (A)	580	0	0	0
Kerb stone (B)	1,143	0	0	0
Kerb stone for bridge	244	174,359	74,725	249084
Pipe culvert D300	904	0	0	0
Pipe culvert D600	1,594	0	0	0
Pipe culvert D1000	3,191	0	0	0
U shaped drain ditch (0.3	593	0	0	0
U shaped drain ditch (0.5	820	0	0	0
U shaped drain ditch (1.0	1,982	0	0	0
Side drain with stone pitcl	343	0	0	0
Catch pit	2,919	0	0	0
Manhole	4,877	0	0	0
Subbase course	162	0	0	0
Base course	293	0	0	0
Prime coat, 1.0 litre/m2	1	39,576	1,224	40800
Tack coat, 0.4litre/m2	0	0	0	0
Asphalt concrete binder c	86	0	0	0
Asphalt concrete binder c	145	0	0	0
Asphalt concrete surfase c	62	497,988	74,412	572400
Asphalt concrete surfase c	77	0	0	0
Side walk t=13cm	60	307,484	45,946	353430
Road lighting	5,498	0	0	0
Traffic signal	93,845	0	0	0
Lane marking 15cm	1	8,247	168	8415
Information sign	4,542	0	0	0
Steel pile D800	451	67,688,914	1,381,406	69070320
Steel pile D500	226	0	0	0
Concrete class-A, 240kg	94	9,426,228	192,372	9618600
Concrete class-C, 180kg	74	199,484	4,071	203555
Formwork for superstruct	271	1,441,188	617,652	2058840
Formwork for all structur	175	644,798	276,342	921140
Reinforcement	774	9,478,560	193,440	9672000
Prate girder (material,asse	25,706	142,616,888	7,506,152	150123040
Bridge railing	1,144	6,652,960	350,156	7003116
Excavation for diversion c	10	107,200	26,800	134000
Construction and removal	84	1,257,000	314,250	1571250
Temporary bridge	2,745	625,871	32,941	658812
Steel sheet pile	141	0	0	0
TOTAL		243,721,647	11,594,102	255,315,748

Construction Cost of Bagmati Bridge No.2

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3		308	77	0	0	0
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3		1,566	392	0	0	0
Fill in soft material	m3		335	84	0	0	0
Spoil in soft material	m3		241	60	0	0	0
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3	1,060	1,957	345	2,074,102	366,018	2,440,120
Stone Masonry	m2		4,885	1,221	0	0	0
Excavation in soft material for structures	m3	4,980	40	10	199,200	49,800	249,000
Backfilling with selected materials for structures	m3	3,300	36	9	118,800	29,700	148,500
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m		2,668	1,143	0	0	0
Kerb stone for bridge	m	276	570	244	157,265	67,399	224,664
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m		3,720	1,594	0	0	0
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.		6,811	2,919	0	0	0
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3		648	162	0	0	0
Base course	m3		1,173	293	0	0	0
Prime coat, 1.0 litre/m2	m2	1,380	33	1	45,512	1,408	46,920
Tack coat, 0.4litre/m2	m2		11	0	0	0	0
Asphalt concrete binder course t=6cm	m2		577	86	0	0	0
Asphalt concrete binder course t=10cm	m2		968	145	0	0	0
Asphalt concrete surfase course t=4cm	m2	1,380	415	62	572,686	85,574	658,260
Asphalt concrete surfase course t=5cm	m2		512	77	0	0	0
Side walk t=13cm	m2	414	402	60	166,403	24,865	191,268
Road lighting	no.	4	269,413	5,498	1,077,651	21,993	1,099,644
Traffic signal	portion		4,598,410	93,845	0	0	0
Lane marking 15cm	m	138	54	1	7,438	152	7,590
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m	1,680	22,121	451	37,162,541	758,419	37,920,960
Steel pile D500			11,060	226	0	0	0
Concrete class-A, 240kg	m3	1,840	4,598	94	8,460,614	172,666	8,633,280
Concrete class-C, 180kg	m3	850	3,627	74	3,082,933	62,917	3,145,850
Formwork for superstructures	m2	2,170	632	271	1,371,657	587,853	1,959,510
Formwork for all structures other than superstructure	m2	1,940	408	175	791,714	339,306	1,131,020
Reinforcement	ton	230	37,914	774	8,720,275	177,965	8,898,240
Prate girder (material, assemble, transportation, electif	ton	268	488,414	25,706	130,894,952	6,889,208	137,784,160
Bridge railing	m	276	21,742	1,144	6,000,709	315,827	6,316,536
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3		335	84	0	0	0
Temporary bridge	m	70	52,156	2,745	3,650,917	192,154	3,843,070
Steel sheet pile	m	3,960	2,673	141	10,586,268	557,172	11,143,440
TOTAL					215,141,638	10,700,394	225,842,032

Construction Cost of Bagmati Bridge No.3

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3		308	77	0	0	0
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3		1,566	392	0	0	0
Fill in soft material	m3		335	84	0	0	0
Spoil in soft material	m3		241	60	0	0	0
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3	2,010	1,957	345	3,932,967	694,053	4,627,020
Stone Masonry	m2	190	4,885	1,221	928,112	232,028	1,160,140
Excavation in soft material for structures	m3	3,110	40	10	124,400	31,100	155,500
Backfilling with selected materials for structures	m3	2,410	36	9	86,760	21,690	108,450
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m		2,668	1,143	0	0	0
Kerb stone for bridge	m	240	570	244	136,752	58,608	195,360
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m		3,720	1,594	0	0	0
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.		6,811	2,919	0	0	0
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3		648	162	0	0	0
Base course	m3		1,173	293	0	0	0
Prime coat, 1.0 litre/m2	m2	960	33	1	31,661	979	32,640
Tack coat, 0.4litre/m2	m2		11	0	0	0	0
Asphalt concrete binder course t=6cm	m2		577	86	0	0	0
Asphalt concrete binder course t=10cm	m2		968	145	0	0	0
Asphalt concrete surfase course t=4cm	m2	960	415	62	398,390	59,530	457,920
Asphalt concrete surfase course t=5cm	m2		512	77	0	0	0
Side walk t=13cm	m2	600	402	60	241,164	36,036	277,200
Road lighting	no.		269,413	5,498	0	0	0
Traffic signal	portion		4,598,410	93,845	0	0	0
Lane marking 15cm	m	120	54	1	6,468	132	6,600
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m	1,414	22,121	451	31,278,472	638,336	31,916,808
Steel pile D500			11,060	226	0	0	0
Concrete class-A, 240kg	m3	1,470	4,598	94	6,759,295	137,945	6,897,240
Concrete class-C, 180kg	m3	35	3,627	74	126,944	2,591	129,535
Formwork for superstructures	m2	1,820	632	271	1,150,422	493,038	1,643,460
Formwork for all structures other than superstructur	m2	1,300	408	175	530,530	227,370	757,900
Reinforcement	ton	195	37,914	774	7,393,277	150,883	7,544,160
Prate girder (material,assemble,transportation,electi	ton	234	488,414	25,706	114,288,876	6,015,204	120,304,080
Bridge railing	m	240	21,742	1,144	5,218,008	274,632	5,492,640
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3	4,540	335	84	1,521,808	380,452	1,902,260
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					174,154,306	9,454,607	183,608,913

Construction Cost of Bagmati Bridge No.4

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3		308	77	0	0	0
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3		1,566	392	0	0	0
Fill in soft material	m3		335	84	0	0	0
Spoil in soft material	m3		241	60	0	0	0
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3	620	1,957	345	1,213,154	214,086	1,427,240
Stone Masonry	m2	250	4,885	1,221	1,221,200	305,300	1,526,500
Excavation in soft material for structures	m3	2,630	40	10	105,200	26,300	131,500
Backfilling with selected materials for structures	m3	2,020	36	9	72,720	18,180	90,900
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m		2,668	1,143	0	0	0
Kerb stone for bridge	m	120	570	244	68,376	29,304	97,680
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m		3,720	1,594	0	0	0
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.		6,811	2,919	0	0	0
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3		648	162	0	0	0
Base course	m3		1,173	293	0	0	0
Prime coat, 1.0 litre/m2	m2	480	33	1	15,830	490	16,320
Tack coat, 0.4litre/m2	m2		11	0	0	0	0
Asphalt concrete binder course t=6cm	m2		577	86	0	0	0
Asphalt concrete binder course t=10cm	m2		968	145	0	0	0
Asphalt concrete surface course t=4cm	m2	480	415	62	199,195	29,765	228,960
Asphalt concrete surface course t=5cm	m2		512	77	0	0	0
Side walk t=13cm	m2	300	402	60	120,582	18,018	138,600
Road lighting	no.		269,413	5,498	0	0	0
Traffic signal	portion		4,598,410	93,845	0	0	0
Lane marking 15cm	m	60	54	1	3,234	66	3,300
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m	1,530	22,121	451	33,844,457	690,703	34,535,160
Steel pile D500	m		11,060	226	0	0	0
Concrete class-A, 240kg	m3	970	4,598	94	4,460,215	91,025	4,551,240
Concrete class-C, 180kg	m3	30	3,627	74	108,809	2,221	111,030
Formwork for superstructures	m2	910	632	271	575,211	246,519	821,730
Formwork for all structures other than superstructure	m2	880	408	175	359,128	153,912	513,040
Reinforcement	ton	112	37,914	774	4,246,395	86,661	4,333,056
Plate girder (material, assemble, transportation, electi	ton	117	488,414	25,706	57,144,438	3,007,602	60,152,040
Bridge railing	m	120	21,742	1,144	2,609,004	137,316	2,746,320
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3	1,670	335	84	559,784	139,946	699,730
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					106,926,933	5,197,413	112,124,346

Construction Cost of Pedestrian Bridge at Thaphatali

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3		308	77	0	0	0
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3		1,566	392	0	0	0
Fill in soft material	m3		335	84	0	0	0
Spoil in soft material	m3		241	60	0	0	0
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3		1,957	345	0	0	0
Stone Masonry	m2		4,885	1,221	0	0	0
Excavation in soft material for structures	m3	630	40	10	25,200	6,300	31,500
Backfilling with selected materials for structures	m3	160	36	9	5,760	1,440	7,200
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m		2,668	1,143	0	0	0
Kerb stone for bridge	m		570	244	0	0	0
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m		3,720	1,594	0	0	0
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.		6,811	2,919	0	0	0
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3		648	162	0	0	0
Base course	m3		1,173	293	0	0	0
Prime coat, 1.0 litre/m2	m2		33	1	0	0	0
Tack coat, 0.4litre/m2	m2		11	0	0	0	0
Asphalt concrete binder course t=6cm	m2		577	86	0	0	0
Asphalt concrete binder course t=10cm	m2		968	145	0	0	0
Asphalt concrete surface course t=4cm	m2	410	415	62	170,146	25,424	195,570
Asphalt concrete surface course t=5cm	m2		512	77	0	0	0
Side walk t=13cm	m2		402	60	0	0	0
Road lighting	no.		269,413	5,498	0	0	0
Traffic signal	portion		4,598,410	93,845	0	0	0
Lane marking 15cm	m		54	1	0	0	0
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m		22,121	451	0	0	0
Steel pile D500		1,640	11,060	226	18,138,859	370,181	18,509,040
Concrete class-A, 240kg	m3	330	4,598	94	1,517,393	30,967	1,548,360
Concrete class-C, 180kg	m3	23	3,627	74	83,421	1,702	85,123
Formwork for superstructures	m2		632	271	0	0	0
Formwork for all structures other than superstructure	m2	300	408	175	122,430	52,470	174,900
Reinforcement	ton	20	37,914	774	758,285	15,475	773,760
Prate girder (material,assemble,transportation,electri	ton	137	488,414	25,706	66,912,718	3,521,722	70,434,440
Bridge railing	m		21,742	1,144	0	0	0
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3		335	84	0	0	0
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					87,734,211	4,025,682	91,759,893

Construction Cost of Pedestrian Bridge at Patan

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3		308	77	0	0	0
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3		1,566	392	0	0	0
Fill in soft material	m3		335	84	0	0	0
Spoil in soft material	m3		241	60	0	0	0
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3		1,957	345	0	0	0
Stone Masonry	m2		4,885	1,221	0	0	0
Excavation in soft material for structures	m3	800	40	10	32,000	8,000	40,000
Backfilling with selected materials for structures	m3	200	36	9	7,200	1,800	9,000
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m		2,668	1,143	0	0	0
Kerb stone for bridge	m		570	244	0	0	0
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m		3,720	1,594	0	0	0
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.		6,811	2,919	0	0	0
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3		648	162	0	0	0
Base course	m3		1,173	293	0	0	0
Prime coat, 1.0 litre/m2	m2		33	1	0	0	0
Tack coat, 0.4litre/m2	m2		11	0	0	0	0
Asphalt concrete binder course t=6cm	m2		577	86	0	0	0
Asphalt concrete binder course t=10cm	m2		968	145	0	0	0
Asphalt concrete surface course t=4cm	m2	570	415	62	236,544	35,346	271,890
Asphalt concrete surface course t=5cm	m2		512	77	0	0	0
Side walk t=13cm	m2		402	60	0	0	0
Road lighting	no.		269,413	5,498	0	0	0
Traffic signal	portion	1	4,598,410	93,845	4,598,410	93,845	4,692,255
Lane marking 15cm	m		54	1	0	0	0
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m		22,121	451	0	0	0
Steel pile D500		1,840	11,060	226	20,350,915	415,325	20,766,240
Concrete class-A, 240kg	m3	450	4,598	94	2,069,172	42,228	2,111,400
Concrete class-C, 180kg	m3	30	3,627	74	108,809	2,221	111,030
Formwork for superstructures	m2		632	271	0	0	0
Formwork for all structures other than superstructure	m2	410	408	175	167,321	71,709	239,030
Reinforcement	ton	27	37,914	774	1,023,684	20,892	1,044,576
Plate girder (material, assemble, transportation, electi	ton	152	488,414	25,706	74,238,928	3,907,312	78,146,240
Bridge railing	m		21,742	1,144	0	0	0
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3		335	84	0	0	0
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					102,832,984	4,598,677	107,431,661

Appendix 6.6.1 (4) Cost of Intersections at Patan and Thapathali

Construction Cost of Patan Side Intersection

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3	100	308	77	30,800	7,700	38500
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3	100	1,566	392	156,640	39,160	195800
Fill in soft material	m3	862	335	84	288,942	72,236	361178
Spoil in soft material	m3	493	241	60	118,714	29,679	148393
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3	500	1,957	345	978,350	172,650	1151000
Stone Masonry	m2		4,885	1,221	0	0	0
Excavation in soft material for structures	m3		40	10	0	0	0
Backfilling with selected materials for structures	m3		36	9	0	0	0
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m	450	2,668	1,143	1,200,465	514,485	1714950
Kerb stone for bridge	m		570	244	0	0	0
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m	50	3,720	1,594	185,990	79,710	265700
Pipe culvert D1000	m		7,445	3,191	0	0	0
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.	23	6,811	2,919	156,653	67,137	223790
Manhole	no.		11,379	4,877	0	0	0
Subbase course	m3	197	648	162	127,656	31,914	159570
Base course	m3	164	1,173	293	192,339	48,085	240424
Prime coat, 1.0 litre/m2	m2	2,408	33	1	79,416	2,456	81872
Tack coat, 0.4litre/m2	m2	2,408	11	0	25,693	795	26488
Asphalt concrete binder course t=6cm	m2	1,750	577	86	1,009,418	150,833	1160250
Asphalt concrete binder course t=10cm	m2	660	968	145	639,085	95,495	734580
Asphalt concrete surfase course t=4cm	m2	1,750	415	62	726,233	108,518	834750
Asphalt concrete surfase course t=5cm	m2	660	512	77	338,204	50,536	388740
Side walk t=13cm	m2	750	402	60	301,455	45,045	346500
Road lighting	no.	10	269,413	5,498	2,694,128	54,982	2749110
Traffic signal	portion		4,598,410	93,845	0	0	0
Lane marking 15cm	m	700	54	1	37,730	770	38500
Information sign	no.		222,546	4,542	0	0	0
Steel pile D800	m		22,121	451	0	0	0
Steel pile D500			11,060	226	0	0	0
Concrete class-A, 240kg	m3		4,598	94	0	0	0
Concrete class-C, 180kg	m3		3,627	74	0	0	0
Formwork for superstructures	m2		632	271	0	0	0
Formwork for all structures other than superstructur	m2		408	175	0	0	0
Reinforcement	ton		37,914	774	0	0	0
Prate girder (material,assemble,transportation,electi	ton		488,414	25,706	0	0	0
Bridge railing	m		21,742	1,144	0	0	0
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3		335	84	0	0	0
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					9,287,910	1,572,185	10,860,095

Construction Cost of Thaphatali side Intersection

Unit : NRs.

Description	Unit	Quantity	Unit Cost		Amount		Total
			Foreign	Local	Foreign	Local	
			Portion	Portion	Portion	Portion	
Clear site and stripping	m2		16	4	0	0	0
Removal of existing pavement material	m3	100	308	77	30,800	7,700	38500
Removal of existing bridge at Thaphatali	L.S		4,802,398	1,200,600	0	0	0
Removal of existing structures	m3	100	1,566	392	156,640	39,160	195800
Fill in soft material	m3	1,300	335	84	435,760	108,940	544700
Spoil in soft material	m3	130	241	60	31,304	7,826	39130
Sodding	m2		156	39	0	0	0
Plant selected trees	no.		1,292	0	0	0	0
Gabion	m3	50	1,957	345	97,835	17,265	115100
Stone Masonry	m2	250	4,885	1,221	1,221,200	305,300	1526500
Excavation in soft material for structures	m3		40	10	0	0	0
Backfilling with selected materials for structures	m3		36	9	0	0	0
Side block	m		558	239	0	0	0
Kerb stone (A)	m		1,352	580	0	0	0
Kerb stone (B)	m	400	2,668	1,143	1,067,080	457,320	1524400
Kerb stone for bridge	m		570	244	0	0	0
Pipe culvert D300	m		2,110	904	0	0	0
Pipe culvert D600	m	100	3,720	1,594	371,980	159,420	531400
Pipe culvert D1000	m	80	7,445	3,191	595,560	255,240	850800
U shaped drain ditch (0.3 x 0.3m)	m		1,384	593	0	0	0
U shaped drain ditch (0.5 x 0.5m)	m		1,912	820	0	0	0
U shaped drain ditch (1.0 x 1.0m)	m		4,624	1,982	0	0	0
Side drain with stone pitching	m		1,373	343	0	0	0
Catch pit	no.	20	6,811	2,919	136,220	58,380	194600
Manhole	no.	4	11,379	4,877	45,517	19,507	65024
Subbase course	m3	290	648	162	187,920	46,980	234900
Base course	m3	310	1,173	293	363,568	90,892	454460
Prime coat, 1.0 litre/m2	m2	4,185	33	1	138,021	4,269	142290
Tack coat, 0.4litre/m2	m2	4,185	11	0	44,654	1,381	46035
Asphalt concrete binder course t=6cm	m2	2,910	577	86	1,678,517	250,813	1929330
Asphalt concrete binder course t=10cm	m2	1,280	968	145	1,239,437	185,203	1424640
Asphalt concrete surfase course t=4cm	m2	2,910	415	62	1,207,621	180,449	1388070
Asphalt concrete surfase course t=5cm	m2	1,280	512	77	655,910	98,010	753920
Side walk t=13cm	m2	1,076	402	60	432,487	64,625	497112
Road lighting	no.	18	269,413	5,498	4,849,430	98,968	4948398
Traffic signal	portion	1	4,598,410	93,845	4,598,410	93,845	4692255
Lane marking 15cm	m	1,120	54	1	60,368	1,232	61600
Information sign	no.	4	222,546	4,542	890,185	18,167	908352
Steel pile D800	m		22,121	451	0	0	0
Steel pile D500			11,060	226	0	0	0
Concrete class-A, 240kg	m3		4,598	94	0	0	0
Concrete class-C, 180kg	m3		3,627	74	0	0	0
Formwork for superstructures	m2		632	271	0	0	0
Formwork for all structures other than superstructur	m2		408	175	0	0	0
Reinforcement	ton		37,914	774	0	0	0
Prate girder (material,assemble,transportation,electi	ton		488,414	25,706	0	0	0
Bridge railing	m		21,742	1,144	0	0	0
Excavation for diversion of the river	m3		40	10	0	0	0
Construction and removal of temporary road	m3		335	84	0	0	0
Temporary bridge	m		52,156	2,745	0	0	0
Steel sheet pile	m		2,673	141	0	0	0
TOTAL					20,536,425	2,570,891	23,107,316

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