

Bill Summary for Changtongya Longleng Road (Design Length km 18+779 to km 33+428)					
				Design Length (in km) =	14.65
				Length in Widening & Strengthening (in km) =	9.20
				Length in Realignment (in km) =	5.45
Bill No	Weightage in percentage to the contract price	Description of Items		Amount (in Rs.)	Percentage weightage
1	65.01%	WIDENING AND STRENGTHENING OF EXISTING ROAD			
		A1.1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock including Cleaning & grubbing with required site clearance etc.	139,639,958	10.04%
		A1.2	Sub-Base Course	79,333,776	5.71%
		A1.3	Non - Bituminous Base Course	68,200,056	4.90%
		A1.4	Bituminous Base Course	72,046,536	5.18%
		A1.5	Wearing Coat	24,597,728	1.77%
		A1.6	Widening and repair of culverts	-	0.00%
		A1.7	Hard Shoulder	14,022,000	1.01%
2		RECONSTRUCTION/NEW 2-LANE ALIGNMENT/BYPASS (FLEXIBLE PAVEMENT)			
		A2.1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock including Cleaning & grubbing with required site clearance etc.	118,417,114	8.52%
		A2.2	Sub-Base Course	57,138,624	4.11%
		A2.3	Non - Bituminous Base Course	45,918,360	3.30%
		A2.4	Bituminous Base Course	44,169,768	3.18%
		A2.5	Wearing Coat	16,083,741	1.16%
		A2.6	Hard Shoulder	8,946,720	0.64%
3		RECONSTRUCTION/NEW 2-LANE ALIGNMENT/BYPASS (RIGID PAVEMENT)			
		A3.1	Earthwork up to top of the sub-grade including excavation in	-	0.00%
		A3.2	Sub-Base Course	-	0.00%
		A3.3	Dry Lean Concrete(DLC) Course	-	0.00%
		A3.4	Pavement Quality Control(PQC) Course	-	0.00%
4		RECONSTRUCTION/NEW SERVICE ROAD (FLEXIBLE PAVEMENT)			
		A4.1	Earthwork up to top of the sub-grade including excavation in soil, soft rock and hard rock including Cleaning & grubbing with required site clearance etc.	-	0.00%
		A4.2	Sub-Base Course	-	0.00%
		A4.3	Non Bituminous Base Course	-	0.00%
		A4.4	Bituminous Base Course	-	0.00%
		A4.5	Wearing Coat	-	0.00%
5		RECONSTRUCTION/NEW SERVICE ROAD (RIGID PAVEMENT)			
		A5.1	Earthwork up to top of the sub-grade including excavation in	-	0.00%
		A5.2	Sub-Base Course	-	0.00%
		A5.3	Dry Lean Concrete(DLC) Course	-	0.00%
6		RECONSTRUCTION AND NEW CULVERTS ON EXISTING ROAD, REALIGNMENTS, BYPASSES			
		A6.1	Culverts and associated Protection Works (Length < 6m)	215,434,696	15.49%
7	0.00%	WIDENING AND REPAIR OF MINOR BRIDGES (Length > 6 m and < 60 m)			
8		A7.1	Minor Bridges	-	0.00%
		NEW MINOR BRIDGES (Length > 6 m and < 60 m)			
		A8.1	Foundation + Sub Structures: On completion of the foundation work including foundations for wing wall and return walls, abutments, piers upto the abutment/pier cap.	-	0.00%
		A8.2	Super-structure: On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc. complete in all respect.	-	0.00%
		A8.3	Approaches: On completion of approaches including retaining wall, stone pitching, protection works complete in all respect and fit for use.	-	0.00%

Bill Summary for Changtongya Longleng Road (Design Length km 18+779 to km 33+428)					
				Design Length (in km) =	14.65
				Length in Widening & Strengthening (in km) =	9.20
				Length in Realignment (in km) =	5.45
Bill No	Weightage in percentage to the contract price	Description of Items		Amount (in Rs.)	Percentage weightage
9		A8.4	Guide Bunds and River Training Works: On completion of Guide bunds and river training works complete in all respects.	-	0.00%
		WIDENING AND REPAIRS OF UNDERPASSES/ OVERPASSES			
10		A9.1	Underpasses/ Overpasses	-	0.00%
		NEW UNDERPASSES/ OVERPASSES			
		A10.1	Foundation + Sub Structures: On completion of the foundation work including foundations for wing wall and return walls, abutments, piers upto the abutment/pier cap.	-	0.00%
		A10.2	Super-structure: On completion of the super structure in all respect including wearing coat, bearings, expansion joints, hand rails, crash barriers, road signs & markings, tests on completion etc. complete in all respect. Wearing Coat (a) in case of overpass- wearing coat including expansion joint complete in all respects as specified and (b) in case of underpass- Rigid pavement including drainage facility complete in all respects as	-	0.00%
11	0.00%	A10.3	Approaches: On completion of approaches including retaining walls/ Reinforced earth walls, stone pitching, protection works complete in all respect and fit for use.	-	0.00%
		WIDENING AND REPAIRS OF MAJOR BRIDGES			
		A11.1	Foundation	-	0.00%
		A11.2	Sub-structure	-	0.00%
		A11.3	Super-structure(including bearings)	-	0.00%
		A11.4	Wearing Coat including expansion joints		0.00%
		A11.5	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
		A11.6	Wing walls/ Return walls		0.00%
		A11.7	Guide Bunds, River Training Works etc		0.00%
		A11.8	Approaches (including Retaining walls, stone pitching and protection works)	-	0.00%
		NEW MAJOR BRIDGES			
12		A12.1	Foundation	-	0.00%
		A12.2	Sub-structure	-	0.00%
		A12.3	Super-structure(including bearings)	-	0.00%
		A12.4	Wearing Coat including expansion joints		0.00%
		A12.5	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
		A12.6	Wing walls/ Return walls		0.00%
		A12.7	Guide Bunds, River Training Works etc		0.00%
		A12.8	Approaches (including Retaining walls, stone pitching and protection works)	-	0.00%
13		WIDENING AND REPAIR OF ROB/RUB			
		A13.1	(a) ROB	-	0.00%
		(i)	Foundation	-	0.00%
		(ii)	Sub-structure	-	0.00%
		(iii)	Super-structure(including bearings)	-	0.00%
		(iv)	Wearing Coat in case of ROB- wearing coat including expansion joint complete in all respects as specified.	-	0.00%
		(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
		(vi)	Wing walls/ Return walls		0.00%
		(vii)	Approaches (including Retaining walls, stone pitching and protection works)	-	0.00%
		A13.2	(b) RUB	-	

Bill Summary for Changtongya Longleng Road (Design Length km 18+779 to km 33+428)						
					Design Length (in km) =	14.65
					Length in Widening & Strengthening (in km) =	9.20
					Length in Realignment (in km) =	5.45
Bill No	Weightage in percentage to the contract price	Description of Items			Amount (in Rs.)	Percentage weightage
14			(i)	Foundation	-	0.00%
			(ii)	Sub-structure	-	0.00%
			(iii)	Super-structure(including bearings)	-	0.00%
			(iv)	Wearing Coat in case of RUB- Rigid pavement under RUB including drainage facility complete in all respects as specified.	-	0.00%
			(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
			(vi)	Wing walls/ Return walls		0.00%
			(vii)	Approaches (including Retaining walls, stone pitching and protection works)	-	0.00%
		NEW ROB/RUB				
		A14.1	(a) ROB			-
			(i)	Foundation	-	0.00%
			(ii)	Sub-structure	-	0.00%
			(iii)	Super-structure(including bearings)	-	0.00%
			(iv)	Wearing Coat in case of ROB- wearing coat including expansion joint complete in all respects as specified.	-	0.00%
			(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
			(vi)	Wing walls/ Return walls		0.00%
			(vii)	Approaches (including Retaining walls/ Reinforced earth walls, stone pitching and protection works)	-	0.00%
		A14.2	(b) RUB			-
			(i)	Foundation	-	0.00%
			(ii)	Sub-structure	-	0.00%
			(iii)	Super-structure(including bearings)	-	0.00%
			(iv)	Wearing Coat in case of RUB- Rigid pavement under RUB including drainage facility complete in all respects as specified.	-	0.00%
			(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
			(vi)	Wing walls/ Return walls		0.00%
			(vii)	Approaches (including Retaining walls/ Reinforced earth walls, stone pitching and protection works)	-	0.00%
15		WIDENING AND REPAIR OF ELEVATED SECTION/ FLYOVERS/				
		A.15.1	(i)	Foundation	-	0.00%
			(ii)	Sub-structure	-	0.00%
			(iii)	Super-structure(including bearings)	-	0.00%
			(iv)	Wearing Coat including expansion joint.	-	0.00%
			(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
			(vi)	Wing walls/ Return walls		0.00%
			(vii)	Approaches (including Retaining walls/ Reinforced earth walls, stone pitching and protection works)	-	0.00%
16		NEW ELEVATED SECTION/ FLYOVERS/ GRADE SEPARATORS				
		A.16.1	(i)	Foundation	-	0.00%
			(ii)	Sub-structure	-	0.00%
			(iii)	Super-structure(including bearings)	-	0.00%
			(iv)	Wearing Coat including expansion joint.	-	0.00%

Bill Summary for Changtongya Longleng Road (Design Length km 18+779 to km 33+428)					
				Design Length (in km) =	14.65
				Length in Widening & Strengthening (in km) =	9.20
				Length in Realignment (in km) =	5.45
Bill No	Weightage in percentage to the contract price	Description of Items		Amount (in Rs.)	Percentage weightage
		(v)	Miscellaneous items like handrails, crash barriers, road markings etc.		0.00%
		(vi)	Wing walls/ Return walls		0.00%
		(vii)	Approaches (including Retaining walls/ Reinforced earth walls, stone pitching and protection works)	-	0.00%
17	34.99%	OTHER WORKS			
		A17.1	Toll Plaza	-	0.00%
		A17.2	Road side drain	31,123,320	2.24%
		A17.3	Road signs, marking, Km stones, Safety devices etc.		0.00%
		(a)	Pavement Marking	16,282,339	1.17%
		(b)	Crash barrier/W metal crash barrier	3,385,722	0.24%
		(c)	Traffic Sign	3,507,774	0.25%
		(d)	Road Boundary stone, km Stone, 5th km stone and hectometer stone	907,802	0.07%
		(e)	Traffic blinker LED delineator, stud, reflective payment marker, tree reflector	18,951,752	1.36%
		(f)	Traffic impact Attenuators at Abutments and Piers traffic island	-	0.00%
		(g)	Road furniture (overhead signboard etc.)	1,154,765	0.08%
		(h)	Others including construction of median & median kerb with channel & paint and rumble strip	-	0.00%
		A17.4	Project facilities		0.00%
		(a)	Truck lay-byes	-	0.00%
		(b)	Bus bays and Bus Shelter	5,194,800	0.37%
		(c)	Junctions (Major & Minor)	15,303,102	1.10%
		(d)	Others including Cable duct & Lighting on Bridges, etc.	114,910	0.01%
		(e)	Rest areas (viewpoint/recreational areas)		0.00%
		A17.5	Road Side Plantation, Median plantation & Turfing of the embankment slope		0.00%
		A17.6	Repair of protection works other than approaches to the bridges, elevated sections/ fly-overs/ grade separator and ROB/ RUBs.	-	0.00%
		A17.7	Traffic diversion, Safety and traffic management during construction	-	0.00%
		A17.8	Slope Protection Works as special requirement for hill road		0.00%
		(a)	Hydro Seeding of Cut Slopes in Soil	933,520	0.07%
		(b)	Seeding and Mulching with Jute net all along the perpetual slide locations	24,804,062	1.78%
		(c)	Catchwater Drain	498,760	0.04%
		(d)	Gabion Structure on hill side/valley side of varying height between 1 to 6 metre depending upon the slope	249,520,634	17.94%
		(e)	Reinforced earth wall	32,277,976	2.32%
		(f)	Breast wall	70,000,160	5.03%
		(g)	Sub Surface drain with perforated pipe for collection of seepage water to avoid sinking of pavement	734,800	0.05%
		(h)	Gabion Parapet Wall	11,832,640	0.85%
Total Civil Cost (In Rs.)				1,390,477,915	100.00%
Escalation 7.5%				104,285,844	
Total				1,494,763,759	
GST 7% (12 - 5%)				104,633,463	
Cost of Tender				1,599,397,222	
Civil Cost Per Km (In Cr.)				10.92	