

## Attachment- 2, Project Cost

Cost estimate is an important component of the feasibility study as it provides vital input to economic and financial evaluation. The cost estimation has been prepared for the project road, for improvement of the existing road to 2-lane with paved shoulder configuration including reconstruction/new construction/widening/raising of the existing pavement & cross drainage structures, underpasses, Grade Separators, ROB, RUB, Major bridges, Minor bridges, unlined longitudinal drains, road furniture, bus bays, improvement of junctions, project facilities etc. Over and above these construction costs, provision has been made for environmental costs, relocation of utilities, cost of land acquisition, R & R, contingencies, quality control, supervision charges, escalation charges and maintenance charges as lumpsum provisions to assess the total preliminary project cost of the project road.

The construction cost is worked out according to the development proposal. Cost of civil works is calculated bill wise and other non-civil items like R&R cost, land acquisition cost, Utilities relocation cost, Environmental cost, contingencies etc. are added to arrive the project cost. The Abstract of Project Cost is presented under below Table;

**PACKAGE - I : FROM WADI - HINGANA - TAKALGHAT - SECTION OF NH 353 I**  
( Km. 0.00 to Km. 39.200)

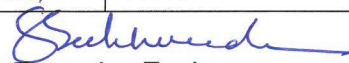
GENERAL ABSTRACT

Section	Sr. No.	Civil Works	Amount	Amount
			Rs.	Crore
A	1	Site Clearance and Dismantling	7103170.00	0.71
	2	Excavation and Earthwork	288281604.00	28.83
	3	Sub-Bases, Bases (Non Bituminous)	281668237.00	28.17
	4	Cement Concrete Pavement	938629770.00	93.86
	5	Service/Slip Road	41458260.00	4.15
	6	Construction of VUP	68519821.00	6.85
	7	Construction of Major Bridges	115648406.00	11.56
	8	CD Structures ( Minor Bridges, Culverts)	141990631.00	14.20
	9	Drainage and Protection Works	215442264.00	21.54
	10	Traffic Signs, Markings & Road Appurtenances	30123052.00	3.01
	11	Miscellaneous ( Junction Improvement ,Bus Bay with Bus Shelter, Utility Service Pipe & Utility Duct etc.)	205765481.00	20.58

Sec tion	Sr. No.	Civil Works	Amount	Amount
			Rs.	Creore
	12	Toll Plaza	50743432.00	5.07
	13	Street Lighting & High Mast	23303250.00	2.33
	14	Strengthening to Existing Gumgaon - Salaidhaba Road, Length = 6.80 km	27762471.00	2.78
	TOTAL CIVIL COST (A) =		2436439849.00	243.64
	CIVIL COST PER KM ( In Cr.)=		7.52	
	B	i)	Contingencies @ 2.8 % of (A) above	68220315.77
SUB TOTAL (B) =		2504660164.77	250.47	
C	(i)	Agency charges @ 3% of (B) above	75139804.94	7.51
	(ii)	Quality Control @ 0.25% of (B) above	6261650.41	0.63
	(iii)	Road Safety @ 0.25% of (B) above	6261650.41	0.63
	(iv)	Supervision charges @ 3% of (B) above	75139804.94	7.51
	(v)	5% per year of A as per phasing Price Escalation	194915187.92	19.49
	(vi)	Maintenance charges @ 2.5% of (A) for four years [0.25% for 1st year, 0.5% for 2nd year, 0.75% for 3rd year & 1% for 4th year; total 2.5%]	60910996.23	6.09
	CENTAGES ( C )		418629094.86	41.86
	TOTAL PROJECT COST ( B + C )		2923289259.63	292.33
PER KM PROJECT COST		9.02		
D	(vii)	Land acquisition	514964398.49	51.50
	(viii)	utility shifting, Forest Clearance and other preconstruction activities	200000000.00	20.00
	LA, Utility shifting ( D )		714964398.49	71.50
	TOTAL CAPITAL COST OF THE PROJECT ( C+D ) =		3638253658.12	363.83
	TOTAL PER KM CAPITAL COST OF THE PROJECT ( In Cr.) =		11.23	

Date

Place: -

  
Executive Engineer

National Highway Division

Nagpur, Maharashtra

**Executive Engineer**  
**National Highway Division**  
Signature & Seal