## **Cost Estimate**

Sr.No.	Description	Length	Amount in Rs.
	Valley Side Protection work:		
	Chainage 123.140 to 123.180	40 M	18548815.2
1	Chainage 123.190 to 123.220	30 M	14170930
	Chainage 123.650 to 123.850	200 M	98406510
	Total Amount Valley Side Protection work	270 M	131126255.2
2	Restoration and strenthening of existing retaining walls and exposed hard rocks by jacketing with skin reinforced concrete top width 250 mm and bottom width 400 mm on front face and exposed sides and 500 mm on top of the retaining wall	482 M	11646133.99
3	Cleaning, maintenance, pointing of waterways of the culverts of existing culvert (6 nos.), catch water pit & hill side abutments and restoaration/strenthening of the exposed valley side abutment & valley side haed wall of the culvert AND Construction of Water Chute in 5 steps of 1 m each at the outlet of Existing Culverts (05 nos.)		1313389.765
4	Hill Side Work: Provision of Breast wall up 5 m. height of reinforced gabion wall of 1 m height each as per design	155 M	2379466.08
5	Provision of surface lined drain along with Proposed Breast wall as per design	155 M	1030611.12
6	Pavement costruction (Leveling of 12 m road width as per specification of sub gade, 100 mm thick of GSB layer, 2 layer WMM total thickness 150mm each layer 75mm, DBM 85 mm and BC 40 mm including prime coat and Tack coat in 10 m width and hard shoulder of 200 mm thick GSB 1 m either side)	890 M	21737952.3
7	Type - A, "W" : Metal Beam Crash Barrier and Road Safety Features/ Paintining/ Sign Marking	890 M	4361891.3
8	Muck dumping and its stabilization, Disposal of the muck trasportation at suitable locations	LS	15000000
9	Total Amount Civil Work		188595699.8
10	GST @ 12% on Sr. No. 9		22631483.97
13	Civil cost		211227183.7

Sr.No.	Description	Amount in Rs.
1	Civil Cost	211227183.7
2	Maintenance cost @ 2.5 % on 1	5280679.593
3	Cost put to the tender (1+2)	216507863.3
4	Contingency @ 2.8 % on 1	5914361.144
5	Supervision Charges @ 3% of (1)	6336815.512
6	Administrative Charges @ 3% of (1)	6336815.512
7	Pre-construction activities	0
8	Total Project Cost (3 to 7)	235095855.5

	New Proposal of La	andslide Locations	details				
Sr.No.	Description	Height (M)	Length (M)	Total No of Bar	Total Quantity	Rate	Total amount
(1)	) Valley Side Protection work : Chainage 123.140 to 123.180, complete slope	treatment includin	g mechanical	bio engineerii	ng Length=40	) m and Min heig	yht= 98 m
i	32 mm Dia Fully Grouted Anchor Bar at Base of Steeped Structure @ 4 M long, 4 M c/C spacing in both direction	98	40	275	1100	2500	2750000
ii	Supply and installation of Rhomboidal wire rope panels of rope diameter 10 mm	98	40	0	3920	2473.62	9696590.4
iii	Supply and installation of Mechanically woven, twisted, hexagonal shaped wire mesh, mesh type 10x12,	98	40	0	3920	1056.69	4142224.8
iv	Mechanical Hydro Seedding for vegetation growth over hill slopes includes mixing of seed, mulch (meeting performance parameter as per technical sepcifications) fertilizer and soil amendment products if required in hydro seeder machine with water spraying the mixer with 100psi pressure pump on hilly slopes and exposed soil (end product must for a uniform blanket of vegetation and soil erosion must be controlled) including maintenance for 2 years.	98	40	0	3920	500	1960000
	Total Amo	unt					18548815.2
	Valley Side Protection work : Chainage 123.190 to 123.220, complete sl	lope treatment includ	ling bio enginee	ering Length=3	0 m and Min h	eight= 100 m	
(v)	32 mm Dia Fully Grouted Anchor Bar at Base of Steeped Structure @ 4 M long, 4 M c/C spacing in both direction	100	30	208	832	2500	2080000
vi	Supply and installation of Rhomboidal wire rope panels of rope diameter 10 mm	100	30	0	3000	2473.62	7420860
vii	Supply and installation of Mechanically woven, twisted, hexagonal shaped wire mesh, mesh type 10x12,	100	30	0	3000	1056.69	3170070
viii	Mechanical Hydro Seedding for vegetation growth over hill slopes includes mixing of seed, mulch (meeting performance parameter as per technical sepcifications) fertilizer and soil amendment products if required in hydro seeder machine with water spraying the mixer with 100psi pressure pump on hilly slopes and exposed soil (end product must for a uniform blanket of vegetation and soil erosion must be controlled) including maintenance for 2 years.	100	30	0	3000	500	1500000
	Total Amo						14170930
	Valley Side Protection work : Chainage 123.650 to 123.850, complete sl	ope treatment includ	ing bio enginee	ring Length=2	00 m and Min I	neight= 105 m	

x Supply and instance x Supply and instance xi Supply and instance xi Supply and instance mesh, mesh typ Mechanical Hyd mixing of seed, sepcifications) fi xii seeder machine hilly slopes and	NET Total amount of landsli	ide protection wor	k				131126255
x Supply and instance xi Supply and instance xi Supply and instance mesh, mesh typ Mechanical Hyd mixing of seed, sepcifications) for seeder machine hilly slopes and vegetation and	Total Amor	unt					98406510
long, 4 M c/C sp x Supply and insta mm Supply and insta	anical Hydro Seedding for vegetation growth over hill slopes includes g of seed, mulch (meeting performance parameter as per technical fications) fertilizer and soil amendment products if required in hydro er machine with water spraying the mixer with 100psi pressure pump on slopes and exposed soil (end product must for a uniform blanket of ation and soil erosion must be controlled) including maintenance for 2	105	200	0	21000	500	10500000
long, 4 M c/C sp Supply and insta	ly and installation of Mechanically woven, twisted, hexagonal shaped wire , mesh type 10x12,	105	200	0	21000	1056.69	22190490
	ly and installation of Rhomboidal wire rope panels of rope diameter 10	105	200	0	21000	2473.62	51946020
	m Dia Fully Grouted Anchor Bar at Base of Steeped Structure @ 4 M 4 M c/C spacing in both direction	105	200	1377	5508	2500	13770000

	ESTIM	ATE	OF ADD	HIONA	L WORK AT I DETAIL OF M			SIDE AT NALU	UPANI SITE		
em No.	Name of Items	No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
2	Restoration and strenthening of existing retaining walls and and exposed sides and 500 mm on top of the retaining wall		sed hard	rocks alo	ng the road side o	only by jacke	ting wit	h skin reinforced	concrete top v	vidth 250 mm and bottom w	idth 400 mm on front fac
i	Execuation in foundation for Structure in all type of soil & rock including all lead lift and disposal of surplusmaterial as directed by Engineer in charge and MORTH specification.								222.7	SOR item 3-1	21468.28
	123+105-162, 123+430-490	LxI	117.00	0.40	0.50	23.40	cum.	6.0 m Height			
	123+305-430, 123+660-850	1x1	315.00	0.40	0.50	63.00	cum.	7.5 m Height			
	123+190-230, 123+280-305	Ixl	50.00	0,40	0.50	10.00	cum.	9.0 m Height			
•	TOTAL  Providing and laying of Concrete for PCC for levelling course before laying of foundation of structure including supply of all material labour T&P, shuttering Centering royalty etc. required for proper completion of work as directed by Engineer in charge and MORTH specification for Grade M10					96.40	Cum.		4986.1	PCC 1:3:6 (item no. 9-1)	72099.006
	123+105-162, 123+430-490	1x1	117.00	0.30	0.10	3.51	cum.	6.0 m Height			
	123+305-430, 123+660-850	1x1	315.00	0.30	0.10	9.45	cum.	7.5 m Height			
	123+190-230, 123+280-305	1x1	50.00	0.30	0.10	1.50	cum.	9.0 m Height			
_	TOTAL					14.46	Cum.				
i	Providing and laying of Concrete for reinforced concrete for structure including supply of all material labour T&P. shuttering Centering royalty etc. required for proper completion of work as directed by Engineer in charge and MOR III specification for RCC grade M25 (top width 250 mm and bottom width 400 mm)								8287.9	RCC M-25 (Item No. 12-8-E-2)	10586341.87
ı	123+105-162, 123+430-490	Lxl	117.00	0.35	6.00	245.70	cum.			nee m-25 (nem no. 12 o e 2)	10300341.07
- 8	123+305-430, 123+660-850	Ixl	315.00	0.35	7.50	826.88	cum.				
- 1	123+190-230, 123+280-305	ixi	65.00	0.35	9.00	204.75	cum.				
	TOTAL					1277.33	Cum.				
	Supplying, fitting, and placing HYSD 10 mm dia bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202										10
3	123+105-162, 123+430-490	Ixl				2.95	tonne			ACTA ACCIONATO	
	123+305-430, 123+660-850	1xI	0.5% o	f RCC as p	er item no. 2 (iii)	9.92	tonne		63037	(item no. 12-40)	966224.8323
1	123+190-230, 123+280-305	1xl				2.46	tonne				
- 1	TOTAL					15.33	tonne				
7	IOTAL	_	Т	otal amo	unt of Sr.No. 2	13.33	tomic				11646133.99
	Cleaning, maintenance, pointing of waterways of the culver AND Construction of Water Chute in 5 steps of 1 m each a		ch water	pit & hill	side abutments	AND restoa	ration/s	trenthening of th	e exposed valle	ey side abutment & valley s	ide haed wall of the culv
	Cleaning, maintenance, pointing of waterways of	f the o	ulvert an	d Repairi	ng of Existing Sla	nb Culvert (1	x1.2) 6	Nos.			
	Ch. 123+445	Ixl	11.00	1.20		13.20	Sqm.				
	Ch. 123-545	Ixl	11.00	1.20		response I	Sqm.				
)	Ch. 123+560	Ixl	11.00	1.20		13.20	Sqm.		Lum St	ım Amount = 500000	500000
	Ch. 123+570	Ixl	11.00	1.20		13.20	Sqm.				
	Ch. 123+760		11.00	1.20		13.20	-				
	Ch. 123+760 Ch. 123+860	1x1	11.00	1.20		13.20 13.20	Sqm.				
	Excavation in foundation wall for Structure in all type of soil & rock including all lead lift and disposal of surplusmaterial as directed by Engineer in charge and MORTH specification.	IXI	11.00	1.20		10.20	sum.				
	Ch. 123+440-450	1x1	6.00	0.80	1.00	4.80	cum.				
	Ch. 123+500-510	1x1	6.00	0.80	1.00	4.80	cum.		222.7	SOR item 3-1	5344.80
	Ch. 123+555-565	1x1	6.00	0.80	1.00	4.80 4.80	cum.				
- 1	Ch. 123+665-675 Ch. 123+755-765	1x1 1x1	6.00	0.80	1.00	4.80	cum.				
- 1											

				1	DETAIL OF	MEASURM	ENT				
Item No.	Name of Items	No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
iii	Providing and laying of Concrete for reinforced concrete for structure including supply of all material labour T&P, shuttering Centering royalty etc. including Backfilling with suitable material required for proper completion of work as directed by Fingineer in charge and MORTH specification for RCC grade M25										
	Ch. 123+440-450	1x1	6.00	0.50	1.00	3.00	cum.				
		1x1	4.00	0.50	2.00	4.00	cum.				
	Ch. 123+500-510	1x1	6.00	0.50	1.00	3.00	cum.		8287.9	RCC M-25 (Item No. 12-8-E-2)	174045.9
		1x1	4.00	0.50	2.00	4.00	cum.		520115	nee in 25 factories 22 or 27	
	Ch. 123+555-565	1x1	6.00	0.50	1.00	3.00	cum.				
		lxl	4.00	0.50	2.00	4.00	cum.				
	Ch. 123+665-675	1x1	6.00	0.50	1.00	3.00	cum.				
		1x1	4.00	0.50	2.00	4.00	cum.				
	Ch. 123+755-765	1x1	6.00	0.50	1.00	3.00	cum.				
		1x1	4.00	0.50	2.00	4.00	cum.				
	TOTAL					21.00	Cum.				

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	T	_	1	_	DETAIL OF	MEASURM	ENI				
Iten No.		No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
	Culvert (RCC water chute/energy disipating structure all as pecified in para 8.6 containg fig 8.5 and 8.6 of IRC:48-1998)										
	Excavation in Guide wall and appron for Culvert in all type of soil & rock including all lead lift and disposal of surplus material as directed by Engineer in charge and MoRTH specification.										
iv	Ch. 123+440-450 Ch. 123+500-510		5.00	3.50 3.50	0.500 0.500	8.75 8.75	cum				
	Ch. 123+555-565		5.00	3.50	0.500	8.75	cum		222.7	SOR item 3-1	9743.125
	Ch. 123+665-675 Ch. 123+755-765	$\vdash$	5.00	3.50 3.50	0.500	8.75 8.75	cum		1 <del>27.21</del> 7	***************************************	RPARTETTO
<u></u>			5.00	3.30	0.500	43.75	cuiii				
	Providing and laying of Concrete for PCC for levelling course before laying of water chute of structure including supply of all material labour T&P, shuttering. Centering royally etc. required for proper completion of work as directed by Engineer in charge and MORTH specification for fained M10										
v	Ch. 123+440-450 Ch. 123+500-510	-	5.00	4.00	0.100 0.100	2.00	cum		4986.1	PCC 1:3:6 (item no. 9-1)	49861
	Ch. 123+555-565		5.00	4.00	0.100	2.00	cum				
	Ch. 123+665-675 Ch. 123+755-765	-	5.00	4.00	0.100 0.100	2.00	cum				
	Total Quantity	_	3.00	4.00	0.100	10.00	cum				
	Providing and laying of Concrete for reinforced concrete for structure including supply of all material labour T&P, shuttering Centering royalty etc. including Backfilling with suitable material required for proper completion of work as directed by Engineer in charge and MoRTH specification for RCC grade M20										
	Ch. 123+440-450	1*1		1	0.6	1.5	cum				
		1*1	3.5	1	0.6	1.8	cum				
		1*1	4	1	0.6	2.4	cum				
	Guide wall	1*1		0.5	0.6	2.7 1.2885	cum				
	Ch. 123+500-510	1*1		0.5	0.5	1.2885	cum				
	Ch. 123+300-310	1*1	3	1	0.6	1.5	cum				
		1*1	3.5	1	0.6	2.1	cum				
		1*1	4.5	1	0.6	2.7	cum				
	Guide wall	1*1		0.5	0.5	1.2885	cum				
vi	Ch. 123+555-565	1*1	2.5	1	0.6	1.5	cum		7842.7	item no 12-8-C-2	512794.9395
		1*1	3.5	1	0.6	1.8	cum		200000	(22100000000000000000000000000000000000	(505)(505)
		1*1	4	1	0.6	2.4	cum				
	Guide wall	1*1	4.5 5.154	0.5	0.6	2.7 1.2885	cum				
		1*1	5.154	0.5	0.5	1.2885	cum				
	Ch. 123+665-675	1*1		1	0.6	1.5	cum				
		1*1	3.5	1	0.6	2.1	cum	Lance of the			
		1*1		1	0.6	2.4	cum				
	Guide wall	1*1	5.154	0.5	0.5	1.2885	cum				
	Ch. 123+755-765	1*1	5.154 2.5	0.5	0.5	1.2885	cum				
		[*]	3	1	0.6	1.8	cum				
		1*1	3.5 4	1 1	0.6	2.1	cum				
		1*1	4.5 5.154	0.5	0.6	2.7	cum				
						1.2885	cum				
	Guide wall	1.1		0.5	0.5	1.2885	cum				

				1	DETAIL OF N	IEASURM	ENT				
tem No.	Name of Items	No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
	Spur blocks size(200mm*200mm*200mm) provide for										
	Guid wall and Appron			Leave-							
	Ch. 123+440-450	5.00	2.50		The second second	125.00	Nos.				
	Ch. 123+500-510	5.00	3.00			200,00	Nos.				
vii	Ch. 123+555-565	5.00	3.50	1000		112.50	Nos.		8000	Lum Sum	61600
	Ch. 123+665-675	5.00	4.00			250.00	Nos.				
	Ch. 123+755-765	5.00	4.50			275.00	Nos.			1	
	Total Nos, of Block			N101-02-12-		962.50	Nos.				
	Total Quantity					7.70	CUM				
					nt of Sr.No. 3						1313389.765
4	Hill Side Work: Provision of Breast wall up 5 m. heigh	t of re	inforced	gabion wa	III of 1 m heigh	t each as pe	r desigr	·			
	Excavation in foundation for Structure in all type of soil & rock										
	including all lead lift and disposal of surplusmaterial as directed by								222.7	SOR item 3-1	56380.22
	Engineer in charge and MORTH specification.								9775-51		
	Ch. 123+480 to 123+635	1x1	155.00	1.63	1.00	253.17	cum.				
ii	Providing and laying of Concrete for plain concrete in open										
William I	foundation for structure including supply of all material labour					1				1	
	T&P royalty etc. required for proper completion of work as directed								200000		252462.8633
	by Engineer in charge and MORTH specification for PCC grade								4986.1	PCC 1:3:6 (item no. 9-1)	252462.8633
	MIO									1	
	1110									1	
	Ch. 123+480 to 123+635	lxl	155.00	1.63	0.20	50.63	cum.				
iii	Reinforced Gabian Structure for Erosion Control, River Training										
	Works and Protection works (Providing and constructing gabain									1	
	structures for erosion control, river training works and protection									1	
	works with wire crates of size 2 m x 1 m x 1 m each divided into									1	
	Im compartments by cross netting, made from 4 mm galvanised									1	
	steel wire @ 32 kg per 10 sqm having minimum tensile strength of									Item No. 15-13	1683123
	300 Mpa conforming to IS:280 and galvanizing coating	1x1	155	1		390	no.		4315.7	item No. 15-13	1003123
	conforming to IS:4826, woven into mesh with double twist, mesh			1 1							
	size not exceeding 100 mm x 100 mm, filled with boulders with			1 1							
	least dimension of 200 mm, all loose ends to be securely tied with 4									1	
	mm galvanised steel wire.) (The work includes filling boulders in									1	
	the gabions) Ch. 123+480 to 123+635.									1	
		-									
iv	Mechanical Hydro Seedding for vegetation growth over hill slopes									1	
	includes mixing of seed, mulch ( meeting performance parameter		1								
	as per technical sepcifications) fertilizer and soil amendment		1							1	
	products if required in hydro seeder machine with water spraying		1000000							1	387500
	the mixer with 100psi pressure pump on hilly slopes and exposed		155		5	775			500	1	387500
	soil ( end product must for a uniform blanket of vegetation and soil									1	
	erosion must be controlled) including maintenance for 2 years.									1	
										1	
			Т	otal amou	int of Sr.No. 4						2379466.08
_		-									
5	Provision of surface lined drain along with Prop	osed	Breast	wall as p	er design						
i	Excavation in foundation for Structure in all type of soil & rock										
	including all lead lift and disposal of surplusmaterial as directed by					1			4986.1	PCC 1:3:6 (item no. 9-1)	649190.22
	Engineer in charge and MORTH specification.								70,000 LB	1000-100 CONSCIENCE 101 TO 100 CONSCIENCE 101	
	Ch. 123+480 to 123+635	1x1	155.00	1.20	0.7	130.20	cum.				
_	Plain/reinforced cement concrete in substructure complete as per		1								
	drawings and technical specification Clauses 802, 804, 805, 806,					1					
		1	1	1 1		1			6322	(item No 12-8-B)	88191.9
ii	807, 1202 ans 1204								0522		
ii	807, 1202 ans 1204 Nominal mix 1:2:4 (Hand mixed)									V. 1000000000000000000000000000000000000	

					DETAIL OF M	IEASURM	ENT				
Item No.	Name of Items	No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
iii	Construction of R. R. Stone Masoury in Cement Mortar 1:5 including supply of all material labour 1 RP royally etc. required for proper completion of work as directed by Engineer in change and Mord specification for Rural Road 2014 and Plastering with cement mortar (1-4), 15 mm thick on brickwork in substructure as per technical specification Clause 6.13 4.8 1204.								4204	item No 17-B	293229
_	Ch. 123+480 to 123+635	lxl	155.00	1.50	0.30	69.75	cum.				1030611.12
	er ve ve tel 1967 elek 1996 (1966)			T	unt of Sr.No. 5	1941 - 1930 1930	650	7,000,000,000,000,000	A. 100 100 100 100 100 100 100 100 100 10	William Webs SETTING	A-80-0-100-00-0
6	Pavement costruction (Leveling of 12 m road width as per pri				100 mm thick of 10 m width and l						mm and BC 40 mm including
i	Leveling of 12 m road width as per specification of subgrade	lxl	890.00	12.00		169.00	Cum.		760.9	Item No. 3-18	128592.10
II	Gravel Soil-Agençate Base (Table 400.2) Grading A Construction of pravel soil-agençate base by powelling well graded material-specading in uniform layers with motor grader on prepared surface, mixing bymix in place method with rotavator at OMC, and comprecing with three where Bot-100 KN state roller to achieve the desired density, complete as per Technical Specifications Clause 402								2167	4-1-A-1	2700082
iii	Ch. 123+080 to 123+970 WBM Grading 1	1x1	890.00	14.00	0.100	1246.00	Cum.				
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheet 80-100 kN static roller in stages to proper grade and camber, applying and brooming, stone screening binding materials to fill-up- the interstices of coarse aggregate, watering and compacting to the required density Grading 1 as per Technical Specification Clause 404. By Mechanical Means								4568.1	item no 4-12	6708254.85
	Ch. 123+080 to 123+970 First Layer	1x1	890.00	10.00	0.075	667.50	Cum.				
	Ch. 123+080 to 123+970 Second Laver TOTAL	lxl	890.00	10.00	0.075	667.50 1335.00	Cum.				
	10% extra widening of Curve TOTAL					133.50	Cum.				
iv	Prime coat over WMM (Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means \( \)					1468.50	Cum.		25.5	item No. 5-1	226950
v	Ch. 123+080 to 123+970 Tack coat for laying of DBM	lxl	890.00	10.00		8900.00	Sqm.				
	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.								9.3	Item No 5-2	82770
	Ch. 123-080 to 123-970  Dense Graded Bituminous Macadam (Providing and laying dense bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder (ge 4.0 to 4.5% by weight of total mix of mix and filter, ansporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, kevel and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 507 complete in all respects.) for Grading I (40 mm nominal size)	lxl	890.00	10.00		8900.00	Sum.		10085.9	Item no 5-6-1	7629983.35
vii		lxl	890.00	10,00	0.085	756.50	Cum.				
	Tack coat for laying of DBM Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous granular surface cleaned with mechanical broom.								9.3	Item No 5-2	82770
	Ch. 123+080 to 123+970	lxl	890.00	10.00		8900.00	Sqm.				

					DETAIL OF M	IEASURM	ENT				
ltem No.	Name of Items	No.	Length	Width	Height	Quantity	Unit	Remarks	Rate	SOR Item ( Block 04 Dunda)	Total amount
viii	Bituminous Concrete (Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MOR III specification clause No. 509 complete in all respects) for Grading-I (bituminous binder @ 5.2 % of mix )								11737.5	item No. 5-8-1	4178550
	Ch. 123+080 to 123+970	lxl	890.00		0.040 ount of Sr.No. 6	356.00	cum.				21737952.30
-	Type - A, "W" ; Metal Beam Crash Barrier and Road Safety F										
	Type - A, "W": Metal Beam Crash Barrier Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above madiground beet, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2m centre to centre, 18 m high, 1.1 m below ground road level, all steel parts and fitments to be agalaxnized by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a space of channel section 15 w 7 x x 5 mm, 3.0 mm long complete as per clause 810 (if Concrete Required for Vertical post Fixing will be paid extra)					900.00	Post		2969.8	8-23-A	2643122
	Ch. 123+080 to 123+970	1x1	890.00			890.00	Rmt.				
	Road Safety Features/ Road marking with glass beads and thermoplastic paints and minimum 5 boards (two cautionary baords for slide warning information/ Sign Marking	1x1	890.00			890.00	Rmt	1 % of Civil Cost		Lum Sum	1718769.3
	1		1	otal Amo	ount at Sr.No. 7						4361891.3
				Tota	l Amount						42469444.55
				Total Lan	dslide amount						131126255.2
_				NET To	otal amount						173595699.75