

Bill of Quantity for									
Special Repair works of Existing road from 133+000 to Km 164+000 (PKG-III Part 2)									
SI No	Description	Unit	no.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate Rs	Cost Rs
1.00	SITE CLEARENCE (km 133.000 to km 147.800)								
1.01	Land slide clearence	Cum		LS			5000	57.00	285000.00
1.02	Hiring of JCB (30Days) Per Day 8 Hrs	Hrs					240.00	109.00	26160.00
2.00	SITE CLEARENCE (km 147.800 to km 164.000)								
2.01	Hill side drain clearances	m		16000			16000	74.00	1184000
2.02	Land slide clearence	Cum		LS			10000	57.00	570000
2.03	Road side vegetation	Km		16			16	10438.00	167008
2.04	Pot hole filling (100 No's)	Sqm					225	864.00	194400
2.05	Hiring of JCB (30Days) Per Day 8 Hrs	Hrs					240	2500.00	600000
2.06	Maintenance of Earth Shoulder (stripping excess soil) (Stripping excess soil from the shoulder surface to achieve the approved level and compacting with plate compactor) Both Sides	Sqm		8000	2		16000	33.00	528000
2.07	Maintenance of Earthen Shoulder (filling with fresh soil) (Making up loss of material/ irregularities on shoulder to the design level by adding fresh approved soil and compacting it with appropriate equipment.) Both Side of Road	Sqm		8000	2		16000	109.00	1744000
	Sub Total :								5298568.00
3	RETAINING 5m height (km 133.000 to km 147.800)								
3.01	Eartwork in Excavation	Cum		30			82.80	90.00	7452.00
3.02	PCC M15 Levelling Course	Cum		30			10.63	7,900.00	83953.20
3.03	PCC M20 Concrete in Wall	Cum		30			202.50	10,640.00	2154600.00
3.04	PCC M20 in Parapet wall	Cum		30			7.20	10,640.00	76608.00
3.05	Weep Hole	Nos.		30			90.00	1,733.00	155970.00
3.06	Filter Media Filling	Cum		30			62.10	2591.00	160901.10
	Sub Total :								2639484.30
4	Traffic Signs and other Road appurtenances (km 133.000 to km 147.800)								
4.01	Metal beam crash barrier	m		500			500	6,703.00	3351500.00
	Sub Total :								3351500.00
5	Road side drain Cover RCC drain = 0.18Km (km 133.000 to km 147.800)								
5.01	Earth work in excavation								
	in ordinary soil	Cum					193	90.00	17371.80
	in ordinary rock	Cum					10	119.00	1209.04
5.02	PCC M15	Cum					8	7,900.00	60435.00
5.03	PCC M-20 in drain	Cum					60	10,640.00	634410.00
5.04	RCC M25 in drain	Cum					0	15,236.00	0.00
5.05	HYSD/TMT reinforcement	MT					0	1,11,977.00	0.00
5.06	Weep holes	No.					360	904.00	325440.00
	Sub Total :								1038865.84

6	Pipe Culverts (3 Nos- 1 New , 2 Replacement) (km 133.000 to km 147.800)								
6.01	Earth work in excavation of foundation	Cum				142.16	90.00	12794.76	
6.02	PCC M15 in leveling course	Cum				25.69	7,900.00	202981.02	
6.03	PCC M20 in head wall	Cum				24.12	10,640.00	256636.80	
6.04	RCC NP-4 Pipe laying								
a	Laying of NP4 pipe - 1x1200mm dia	Rm				37.50	21,073.00	790237.50	
b	Laying of NP4 pipe - 2x1200mm dia	Rm				0.00	42,575.00	0.00	
c	Laying of NP4 pipe - 3x1200mm dia	Rm				0.00	0.00	0.00	
6.05	Boulder apron	MT				25.95	2,647.00	68678.85	
6.06	Boulder apron laid in wire crates	Cum				25.95	4,120.00	106897.19	
6.07	Filter media	Cum				40.11	2,550.00	102281.36	
6.08	RR Stone masonry in CM 1:3	Cum				24.12	7,409.00	178705.08	
6.09	100 mm dia Weep Holes	Rm				29.00	1,733.00	50257.00	
6.10	Gabion Structures for erosion control, river training works	Cum				0.00	3,695.00	0.00	
6.11	Geo-textile fabric behind th gabion wall all complete	Nos.				0.00	0.00	0.00	
6.10	Blockage clearances (32 Nos' of Pipe)	Cum				434.07	90.00	39066.62	
	Sub Total :							1808536.18	
7	Box Culvert (1 No. Replacement) (km 133.000 to km 147.800)								
7.01	Earth work in excavation of foundation	Cum				199.74	90.00	17976.20	
7.02	PCC M15 in leveling course	Cum				38.21	7,900.00	301841.62	
7.03	PCC M20 in retaining wall	Cum				386.76	10,640.00	4115094.48	
7.04	RCC M35 in box cell structures	Cum				29.93	15,392.00	460737.36	
7.05	HYS/D/TMT (Grade Fe 500) reinforcement	MT				2.39	1,11,977.00	268149.62	
7.06	M40 Grade RCC Crash barrier incl reinforcement	m				0.00	0.00	0.00	
7.07	Back filling behind abutments, wing walls, return wall	Cum				25.00	2,591.00	64775.00	
7.08	RR Stone masonry in CM 1:3	Cum				0.00	7,409.00	0.00	
7.09	Filter media	Cum				52.35	2,550.00	133492.50	
7.1	100 mm dia Weep Holes	No.				63.00	1,733.00	109179.00	
7.11	Boulder apron	Cum				8.85	2,753.00	24364.05	
7.12	Boulder apron laid in wire crates	Cum				28.89	4,120.00	119026.80	
7.13	Rigid Apron	Cum				0.00		0.00	
7.14	Gabion Structures for erosion control, river training works and protection works with wire	Cum				20.04	6,592.00	132103.68	
7.15	Geo-textile fabric behind the gabion wall all complete	Sqm				60.00	150.00	9000.00	
	Sub Total :							5755740.30	
8	Repairing of existing culvert (km 133.000 to km 147.800)								
	Parapet wall	Cum	50	0.4	0.6	12	10,640.00	127680.00	
	Sub Total :							127680.00	
9	Bridge Repair (km 133.000 to km 147.800)								
9.01	Approach slab - 6 Nos								
9.02	PCC M-15 grade	Cum	12	8.300	3.500	0.150	52.290	9,257.00	484048.53
9.03	RCC M-30 grade	Cum	12	8.300	3.500	0.350	122.010	20,764.00	2533415.64
	Wearing coat 8 No's								
9.04	65mm thick Wearing Course								
	Minor bridge at Km 136+500	Sqm	41	11.2			459.200	2,006.00	921155.20
	Minor bridge at Km 137+400	Sqm	15	8.3			124.500	2,006.00	249747.00
	Minor bridge at Km 138+250	Sqm	25.6	8.3			212.480	2,006.00	426234.88
	Minor bridge at Km 138+700	Sqm	25	8.6			215.000	2,006.00	431290.00
	Minor bridge at Km 138+950	Sqm	25	8.5			212.500	2,006.00	426275.00
	Minor bridge at Km 141+150	Sqm	50	11.5			575.000	2,006.00	1153450.00
	Minor bridge at Km 144+100	Sqm	19.5	10.5			204.750	2,006.00	410728.50
	Minor bridge at Km 145+200	Sqm	19	12			228.000	2,006.00	457368.00

9.05	Expansion joint (3 No's)	m	3		8.3		24.900	19,410.00	483309.00
	Slab repair (3 No's)								
9.06	Guniting concrete surface								
	Minor bridge at Km 136+500	Sqm	20%	41	11.2		91.84	2,002.00	183863.68
	Minor bridge at Km 141+150	Sqm	20%	50	11.5		115	2,002.00	230230.00
	Minor bridge at Km 144+100	Sqm	20%	19.5	10.5		40.95	2,002.00	81981.90
9.07	Patching of damaged concrete surface								
	Minor bridge at Km 136+500	Sqm	20%	41	11.2		91.84	15,252.00	1400743.68
	Minor bridge at Km 141+150	Sqm	20%	50	11.5		115	15,252.00	1753980.00
	Minor bridge at Km 144+100	Sqm	20%	19.5	10.5		40.95	15,252.00	624569.40
9.08	Railings (3 Bridges)								0.00
	Minor bridge at Km 136+500	m		96			96	3,569.00	342624.00
	Minor bridge at Km 141+150	m		114			114	3,569.00	406866.00
	Minor bridge at Km 144+100	m		53			53	3,569.00	189157.00
	Painting on Railings (3 No's of bridge)	m		263			263	321.00	84423.00
	Sub Total :								14084918.72
	(km 147.800- km 164.000)								
10	GRANULAR SUB-BASE & BASE COURSE								
10	Wet mix Macadam (WMM)	Cum		500	7.5	0.25	937.5	2875	2695312.5
	Sub Total :								2695312.50
11	Bridge Repair								
11.01	Existing bridge at Km 155+250, span 1x45m								
11.02	Both side railing	m		104			104	12029	1251016
11.03	Painting on Railings	m		104			104	3006	312624
11.04	65mm thick Wearing Course	Sqm		45	8.5		382.5	24614	9414855
11.05	Blockage clearances (9 Nos' of Pipe)	Cum					122.0832	74	9034.1568
	Sub Total :								10987529.16
	Total cost (Rs) for km 70+000 to km 95+000								₹ 2,40,28,781
	Total cost (Rs) for km 133+000 to km 164+000								₹ 4,77,88,135
	Total								₹ 7,18,16,916
	Work Value Less 6% VAT in above Rate								₹ 6,75,07,901
	GST (12 %)								₹ 81,00,948
	Bid Price (Work Value +GST)								₹ 7,56,08,850
	Agency Charges (9%)								₹ 60,75,711
	GST (18%) on Agency Charges								₹ 10,93,628
	Final Cost (Rs)								₹ 8,27,78,189
	Final cost (Cr)								₹ 8.28