

HIGH WAY SCHEDULE OF RATES

ALL RATES ARE COMMON TO
COLOMBO, GAMPAHA & KALUTARA DISTRICTS
(Rates effective from 01.09.2016 until further notice)



ENGINEERING ORGANIZATION
WESTERN PROVINCE - PROVINCIAL COUNCIL

Highway Schedule of Rates - 2016
Basic Rates

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
	<u>LABOUR RATES (BASIC)</u>			
B0-001	Labour Skilled A (SK 'A')	Day		1,557.00
B0-002	Labour Skilled B (SK 'B')	Day		1,460.00
B0-003	Labour Semi Skilled (S/SK)	Day		1,410.00
B0-004	Labour Unskilled (U/SK)	Day		1,340.00
	<u>HIRE CHARGES (WET LEASE BASIS INCLUDING OPERATOR)</u>			
B0-101	Tar Boiler (Heating with firewood) (Less Operator)	Day		88.06
B0-102	Concrete / asphalt mixer (400 liters)	Day		6,661.05
B0-103	Bitumen sprayer (Less Operator)	Day		92.24
B0-104	Water tank+50mm pump (Less Operator)	Day		1,075.28
B0-105	Welding plant engine driven w/welder	Day		12,817.04
B0-106	Porker vibrator (Less Operator)	Day		1,897.64
B0-107	Plate Compactor(90 kg) (Less Operator)	Day		3,574.43
B0-108	Vibrating rammer (60kg)(Less Operator)	Day		3,363.29
B0-109	Vibrating roller (1/2-1 ton)	Day		6,317.28
B0-110	Vibrating roller (smooth-10 tons)	Day		29,528.50
B0-111	Smooth/road roller (8-10 tons) static	Day		11,824.68
B0-112	Pneumatic road roller (8-10 tons)	hour		3,614.32
B0-113	Motor grader (65 HP)	Day		24,190.93
B0-114	Motor grader (120-140 HP)	Day		49,942.75
B0-115	Backhoe loader (JCB)	Day		23,382.79
B0-116	Wheel loader (1.4 cu.m)	Day		26,227.68
B0-116A	Wheel Loader (1.7 cu.m)	Day		31,360.97
B0-117	Tractor & trailor (3 Ton)	Day		5,923.63
B0-118	Material Transport by Lorry /Tipper/ Dump truck (exceeding 10 km)	KM/Cu.m		21.37
B0-118A	Do-by hired Lorry /Tipper/ Dump truck (exceeding 10 km)	KM/Cu.m		23.13
B0-119	Do-by Lorry /Tipper/ Dump truck (for more than 3Km less than 10Km Distances)	KM/Cu.m		23.70
B0-119A	Do-by hired by Lorry /Tipper/ Dump truck (for more than 3Km less than 10Km Distances)	KM/Cu.m		24.34
B0-120	Transport of premix by dump truck	KM/MT		15.14

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-120A	Do- Emulsion per 100 liters per 1Km	km /100ltr		3.79
B0-120B	Do- premix by hired dump truck	KM/MT		15.94
B0-121	Sand/chip spreader-propelled	Day		37,627.75
B0-121A	Sand/chip spreader-towed	Day		2,467.90
B0-122	Farm tractor & broom	Day		10,587.96
B0-123	Emulsion sprayer self prop.(4000 liters)	Day		23,771.94
B0-124	Wheel loader (2.7-3.1 cu.m)	Day		44,506.59
B0-124A	Wheel loader (2.0-2.3 cu.m)	Day		38,917.33
B0-125	Lorry 3 ton (2.5cu.m)	km		48.84
B0-126	Lorry 5 ton (3.5 cu.m)	km		59.97
B0-127	Lorry 7 ton (4.5 cu.m)	km		69.05
B0-128	Water bowser (6000 liters)	Day		23,978.79
B0-1281	Water bowser (9000-10000litres)	day		
B0-129	Asphalt paver (crawler)	hour		7,056.97
B0-129A	Asphalt paver (Wheel)	hour		7,816.10
B0-130	Tanker only (20000 liters)	hour		453.35
B0-130A	Low bed trailer 30 ton	km		51.63
B0-131	Prime mover old (for 20000 L tanker)	hour		3,340.99
B0-131A	Prime mover new (for 30 T trailer)Time Basis	hour		5,287.77
B0-131B	Prime mover new (for 30 T trailer) Distance basis	Km		240.35
B0-132	Baby dumper .75 cu.m (Less Operator)	hour		1,133.49
B0-133	Water pump 4"	hour		1,064.40
B0-133A	Water pump 2" (less operator)	hour		224.82
B0-134	Sludge pump 4"	hour		1,442.14
B0-135	Vibrating Roller (6-7 tons) tandem	hour		2,291.28
B0-136	Concrete mixer with Load Cell weigh batcher 14/10 *	Day		10,759.87
B0-137	Trolley emulsion (less operator)	hour		102.44
B0-138	Sprayer emulsion hand cart	hour		764.63
B0-139	Road marker hand cart gas heater	hour		1,628.46
B0-140	Bitumen distributor 750 liters	hour		1,554.02
B0-141	Tank truck bitumen 10000 Ltr	hour		5,128.77
B0-142	Crusher stone 40t/h	hour		10,172.42
B0-143	Track drill crawler	hour		1,684.73
B0-144	Compressor air 750 CFM	hour		5,830.80
B0-145	Slurry sealing Machine	hour		11,890.49
B0-146	Mobile crane 25 tons	hour		7,537.83

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-146A	Mobile crane 30 tons	hour		9,529.12
B0-147	Asphalt plant 60T/h hot mix	hour		18,376.75
B0-147A	Cold mix plant 30T/h	hour		9,758.29
B0-148	Lorry 10 Ton	Km		114.54
B0-149	Pick up truck 2 WD	km		24.69
B0-150	Farm tractor with water bowser	hour		740.86
B0-151	Lorry 17 ton Self Loading (wet)	km		215.52
B0-152	Tractor with Emulsion Bowser	hour		750.42
B0-153	Emulsion Tank Truck (8000litres)	km		152.94
B0-154	Dozer (Crawler Tractor) D-4 D-41(80-100Hp)	hour		4,024.01
B0-155	Excavator Mobile	hour		6,106.17
B0-155A	Excavator Mobile 0.46Cu.m	hour		
B0-156	Air Compressor 250 CFM	hour		2,280.11
B0-157	Hand held Breaker (Demolisher) (less operator)	Day		462.36
B0-158	Rock Drill Hand Held (Less Drill Steel)	Hour		290.81
B0-158	Street Sweeper	hour		
	<u>SUPPLY OF SOIL FROM BORROW PITS INCLUDING LOADING.(FOR QUANTITIES MORE THAN 300CU.M.)</u>			
	*SEE GENERAL NOTES FOR FURTHER DETAILS ON USING THIS RATE			
B0-201	Approved soil type I & II for bases & shoulders	Cu.m		201.40
B0-202	Approved soil type I & II for embankments	Cu.m		177.20
	<u>AGGREGATE & RUBBLE (EX-QUARRY-BASIC) INCLUDING BLASTING,PILING & LOADING</u>			
NOTE*	(ROYALTY/RENTAL TO BE ADDED SEPARATELY IN THE BOQ WITHOUT ADDING OVERHEADS,IF REQUIRED TO BE REIMBURSED)			
B0-301	(150mm-225mm) rubble- (vehicle measurement excluding piling)	Cu.m		927.56
B0-302	(150mm -225mm) rubble piled	Cu.m		1,806.80
	<u>MANUAL PRODUCTION</u>			
B0-303	Manually Production (100mm) Aggregate	Cu.m		1,028.27
B0-304	Manually Production (75mm) Aggregate	Cu.m		1,378.09
B0-305	Manually Production (50mm) Aggregate	Cu.m		1,086.57
B0-306	Manually Production (37.5mm) Aggregate	Cu.m		

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
	<u>PLANT PRODUCTION</u>			
B0-308A	Crusher Production (19mm) Aggregate	Cu.m		1,539.60
B0-309	Crusher Production (12.5mm) Aggregate	Cu.m		1,549.26
B0-310	Crusher Production (37.5mm)-do-(S.S.C.M.T:1701.4)	Cu.m		1,367.49
B0-311	Crusher Production (50MM)-do-(S.S.C.M.T:1701.4)	Cu.m		1,086.57
B0-312	Crusher fines (6.3mm downwards)	Cu.m		1,293.29
B0-313	Crusher Produced (37.5mm)graded (table 1701.5 for ABC)	Cu.m		1,462.92
	<u>AGGREGATE FOR SEAL COAT TREATMENTS (GRADING AS PER SSCM TABLE 1701.8)</u>			
B0-314	Aggregate for seal coat 19mm (SSCM table 1701-8)	Cu.m		2,055.15
B0-315	Aggregate for seal coat 12.5mm (SSCM table 1701-8)	Cu.m		1,849.73
B0-316	Aggregate for seal coat 9.5 mm (SSCM table 1701-8)	Cu.m		1,807.23
	<u>SAND (RATE TO INCLUDE TRANSPORT UP TO 16KM) ADDITIONAL TRANSPORT TO BE PAID SEPARATELY)</u>			
B0-331	River sand for road surface (SSCM table 1701-9)	Cu.m		3,900.00
B0-332	River sand for concrete and masonry work (SSCM table 1701-2)	Cu.m		3,900.00
	<u>BRICKS (WITH TRANSPORT)</u>			
B0-340	Common burnt clay building bricks (SLS 39:1978)	1000No		10,000.00
	<u>BITUMEN & EMULSION - (TRANSPORT TO BE ADDED SEPARATELY)</u>			
B0-351	Bitumen 80/100[drums] (purchase> 25drums)	liter		56.00
B0-351A	Bitumen 60/70 (drums)(purchase> 25drums)	liter		51.00
B0-352	Emulsion -C.S.S.1 (Excluding transp.)	liter		56.70
B0-353	Emulsion -C.R.S.1 (Excluding transp.)	liter		53.05
B0-354	Emulsion -C.R.S.2 (Excluding transp.)	liter		56.85
B0-355	Bitumen80/100 [bulk] (delivery at site) for asphalt plant	kg		59.31
B0-355A	Bitumen 60/70 (Bulk) (Delivery at Site) for all asphalt plants	Kg		54.31
B0-355B	Bitumen 80/100[Bulk]	Kg		56.00

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-355C	Bitumen 60/70[Bulk]	Kg		51.00
B0-356	Liquid Asphalt-MC 30	liter		95.00
	<u>PREMIXED BITUMINOUS MATERIALS (PRICE INCLUSIVE OF ALL RAW MATERIAL TRANSPORT AND ROYALTY ON AGGREGATE)</u>			
B0-361A	Asphalt Concrete Surfacing Material binder 60/70 bitumen @ 4.7% Mix	M.ton		5,396.00
B0-362	Asphalt concrete bound base material binder 60/70 bitumen @ 3.50% MIX	M.ton		4,860.00
B0-362A	Asphalt concrete binder course material: binder 60/70 bitumen @ 4.1% mix	M.ton		5,204.00
	<u>(FOR PROJECTS & MAINTENANCE)</u>			
B0-365	Cut Back Asphalt - aggregate cold mix with 15% cut back 60/70 @ 5.5% of Mix (19mm)	M.ton		6,425.00
B0-365A	Cut Back Asphalt - aggregate cold mix with 16% cut back 60/70 @ 5.5% of Mix (12.5mm)	M.ton		6,426.00
NOTE:	1. ABOVE RATES INCLUDE TRANSPORT COST FOR: AGGREGATES - 50KM;DEISEL-25KM;KOIL-25KM;BINDER-10KM			
	2. ROYALTY ON AGGREGATE MATERIALS : NIL			
	3. FOR DIFFERENT PERCENTAGES OF BINDER, % CUTBACK SEE GENERAL NOTES: SECTION29			
	4. TRANSPORT COST FROM PLANT TO THE LAYING SITE TO BE PAID SEPARTELY.			
	<u>READY - MIX CONCRETE (EXCLUDING HANDLING COST)</u>			
B0-380	GRADE 15 /20/120mm	Cu.m		10,900.00
B0-381	GRADE 20//20/120mm	Cu.m		11,450.00
B0-382	GRADE 25 /20/120mm	Cu.m		11,900.00
B0-383	GRADE 30 /20/120mm	Cu.m		12,450.00
NOTE:	1. ABOVE RATES ARE CONSIDERED WITHIN 15KM FOR 120MM SLUMP AT SITE			
	2. NOMINAL AGGREGATE SIZE 20MM			
	<u>TIMBER & FIREWOOD (INCLUDING TRANSPORT COST)</u>			
B0-391	Sawn timber class 1 (local)-(incl transport)	Cu.dm		98.20
B0-392	Sawn timber class 2 (local)-(incl transport)	Cu.dm		48.65

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-393	Timber round jungle-100mm minimum & 150 mm average diameter (incl transport)	L.m		43.80
B0-394	Timber round jungle-150mm minimum & 200 mm average diameter (incl transport)	L.m		84.20
B0-395	Firewood (incl transport)	Cu.m.		1,457.60
B0-396	Plywood (MR) for formwork-15 mm thick (inch transport)	Sq.m		1,276.20
B0-397	Bamboo tree length greater than 8 meters	Nr.		378.80
	<u>CEMENT (INCLUDING TRANSPORT COST)</u>			
B0-401	Portland cement(50kg) (inch transport)	bag (50kg)		808.70
	<u>STEEL AND STEEL ITEM (INCLUDING TRANSPORT COST)</u>			
B0-411	Mild steel (incl. transport)	kg		106.09
B0-411A	Tor steel (incl. transport)	kg		115.65
B0-431	Binding wire (incl. transport)	kg		105.25
B0-432	Wire nails m.s.bolts & nuts (incl. transport)	kg		132.30
B0-433	Stainless steel 20 mm dia.(for dowels) (incl. transport)	L.m		2,227.24
B0-434	GI Pipes 50mm Dia.heavy duty type	L.m		893.13
B0-435	M.S. Plate 2mm thick	Sq.m		1,308.35
	<u>PRECAST CONCRETE ITEMS EX-FACTORY:BASIC PRICE REINFORCED CONCRETE PIPES & COLLARS</u>			
B0-441	Reinforce concrete Pipe dia.(153mm)length(2438 mm)	Nr.		3,366.00
B0-441B	Reinforce concrete Collar dia.(153mm)	Nr.		357.00
B0-442	Reinforce concrete Pipe dia.(229mm)length(2438 mm)	Nr.		5,508.00
B0-442B	Reinforce concrete Collar dia.(229mm)	Nr.		510.00
B0-443	Reinforce concrete Pipe dia.(305mm)length(2438 mm)	Nr.		6,183.00
B0-443B	Reinforce concrete Collar dia.(305mm)	Nr.		714.00
B0-444	Reinforce concrete Pipe dia.(450mm)length(2438 mm)	Nr.		8,589.00
B0-444B	Reinforce concrete Collar dia.(450mm)	Nr.		979.20
B0-445	Reinforce concrete Pipe dia.(610mm)length(2438 mm)	Nr.		12,800.00
B0-445B	Reinforce concrete Collar dia.(610mm)	Nr.		1,109.25
B0-446	Reinforce concrete Pipe dia.(914mm)length(1219 mm)	Nr.		9,027.00

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-446A	Reinforce concrete Pipe dia.(914mm)length(2438 mm)	Nr.		19,440.00
B0-446B	Reinforce concrete Collar dia.(914mm)	Nr.		1,463.70
B0-447	Reinforce concrete Pipe dia.(1219mm)length(1219 mm)	Nr.		13,770.00
B0-447A	Reinforce concrete Pipe dia.(1219mm)length(2438 mm)	Nr.		30,200.00
B0-447B	Reinforce concrete Collar dia.(1219mm)	Nr.		2,142.00
	<u>PRECAST CONCRETE ITEMS</u>			
B0-448	Standard road kerb 125x250x900 G25 concrete	Nr.		798.75
B0-449	Paving slab 450x450x50mm G20 concrete with R/f conc.	Nr.		425.30
B0-449A	Paving slab 450x450x50mm G20 concrete	Nr.		265.90
B0-450	Bridge kerb 915	Nr.		1,745.00
B0-451	Standard uprights for bridges (new design)	Nr.		2,168.00
B0-452	Standard Hand rails for bridges (new design)	Nr.		2,094.00
B0-453	Coupling pairs for hand rails	Pair		593.80
B0-454	Rain water channels 609 mm long	Nr.		215.00
B0-455	Cement sand Hollow block16"x8"x4"	Nr.		54.30
B0-456	Facia Slab 4'x2'	Nr.		2,601.00
B0-457	Guard stones (Standard)	Nr.		3,748.50
B0-458	Kilometer Post (Standard)	Nr.		4,284.00
B0-459	Boundary Marker(Standard)	Nr.		2,142.00
B0-460	G25 Concrete Paving Block(220mmx110mmx80mm)	Nr.		30.00
B0-461	G40 Concrete Paving Block(220mmx110mmx80mm)	Nr.		17.50
	<u>BLASTING MATERIAL (INCLUDING TRANSPORT COST)</u>			
B0-501	Blasting powder	kg		614.90
B0-502	Fuse wire	L.m		40.20
B0-503	Steel Jumper	kg		168.78
B0-504	Electric detonators	Nr.		123.00
B0-505	Dyna cord	L.m		79.50
B0-506	Gelignite	kg		577.00
B0-507	Ammonium nitrate	kg		166.50

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-508	Ordinary Detonator	Nr.		15.10
	<u>PAINTS (INCLUDING TRANSPORT COST)</u>			
B0-531	Bituminous emulsion paint (CRS-2)	liter		56.85
B0-534	Glue	kg		240.10
B0-537	Lime - Boiled	kg		20.40
B0-541	Enamel paint	liter		732.55
B0-542	Paint-anti corrosive	liter		674.55
B0-544	Paint-emulsion	liter		659.00
B0-545	Rust remover	liter		508.75
B0-546	Emulsion for exterior use (weather shield)	liter		805.18
B0-547	Road marking paints (yellow)	liter		781.53
B0-548	Road marking paints (white)	liter		781.53
	<u>FUEL,OILS & LUBRICANTS</u>			
B0-601	Industrial kerosene oil (Colombo)	liter		88.00
B0-602	Mould oil (used engine oil)	liter		25.00
B0-611	Lubricant (Oil)	liter		450.84
B0-612	Auto Diesel (Colombo)	liter		95.00
B0-613	Petrol (Colombo)	liter		117.00
B0-614	Furnace oil for burners	liter		80.00
B0-615	LP Gas	Kg		108.50
B0-616	Lubricant (Grease)	kg		607.35
	<u>MISCELLANEOUS</u>			
B0-631	Baskets (with t'port)	Nr.		230.65
B0-632	Gunny bags (large) (with t'port)	Nr.		56.00
B0-632A	Poly sacs (65 kg capacity) (with t'port)	Nr.		29.50
B0-633	Cotton waste (with t'port)	kg		84.56
B0-634	Salt (with t'port)	kg		15.65
B0-635	Empty tar barrels (140 liters) (with t'port)	Nr.		90.55
B0-636	P.V.C.Pipe 110 mm dia type 250 PE (with trans.)	L.m		310.20
B0-636B	P.V.C.Pipe 110 mm dia type 400 PE (with trans.)	L.m		487.15
B0-637	P.V.C.Pipe 50 mm dia type 400 PE (with trans.)	L.m		174.90
B0-637A	P.V.C.Pipe 25 mm dia type 1000 PE (with trans.)	L.m		107.75
B0-637B	P.V.C.Pipe 90 mm dia type 400 PE (with trans.)	L.m		458.60
B0-637C	P.V.C.Pipe 90 mm dia type 600 PE (with trans.)	L.m		736.55

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-637D	P.V.C.Pipe 160 mm dia type 250 PE (with trans.)	L.m		935.05
B0-637E	P.V.C.Pipe 160 mm dia type 400 PE (with trans.)	L.m		1,706.30
B0-637F	P.V.C.Pipe 160 mm dia type 600 PE (with trans.)	L.m		2,237.80
B0-637G	P.V.C.Pipe 160 mm dia type 1000 PE (with trans.)	L.m		3,533.20
B0-638	Hard rubber 12 mm thick x 75 mm wide (with t'port)	L.m		1,338.10
B0-639	Polythene 325 mm dia gauge 300(Approx. 14.0meters/kg) (Tubular flat width App. 505mm with trans.)	kg		283.70
B0-639A	Polythene 230 mm dia gauge 300 (Approx. 19.5meters/kg)(Tubular flat width App. 355mm, with trans.)	kg		283.70
B0-639B	Polythene 150 mm dia gauge 300 (Approx.28.0meters/kg)(Tubular flat width app.241mm, with trans.)	kg		283.70
B0-640	Aluminium sheet 24 SWG (with t'port)	Sq.m		694.55
B0-641	Angle Iron 50x50x6mm (with t'port)	L.m		452.10
B0-642	M.S. Plate 12mm thick (with t'port)	Sq.m		8,137.40
B0-643	Adhesive (water resistant)	kg		913.35
B0-644	Emulsifier-stabrium MS-03	kg		578.35
B0-645	Pazzolith (usage: 300ml per 50kg Cement bag)	Ltr		120.45
B0-646	Traffic cones	Nr.		858.70
B0-647	75mm x8 mm Dia Nuts & Bolts	Nr.		9.65
B0-648	Saw dust (loose)	Cu.m.		127.55
B0-649	Drill Steel	Lm		113.68
	<u>PIECE RATES & ALLOWANCES</u>			
	ALLOW FOR:			
B0-704	Barricading (small work items)	Item		39.80
B0-705	Barricading, Lighting, Signaling etc for 100m(Stationary operations)	Day		1,622.85
B0-711	Cement sand & water for jointing hume pipes 152 mm diameter	Joint		20.95
B0-712	Cement sand & water for jointing hume pipes 229 to 610 mm diameter	Joint		87.00
B0-713	Cement sand & water for jointing hume pipes 915 mm diameter	Joint		228.20
B0-714	Cement sand & water for jointing hume pipes 1220 mm diameter	Joint		407.80
B0-715	Coir rope (for scaffolding 93 sq.m area)	Item		56.80

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-716	Coir string for cutting side drains (per 2.83 cu.m)	Item		22.75
B0-717	Coir string for for fixing scaffolding (per 93 square meters)	Item		141.95
B0-718	Minor repairs of parapets with cement sand and water (per 9.29 sq. meters)	Item		92.75
B0-720	Fuel(for loosening road surface for manual breaking, 50mm depth x 307 sq.m)	Item		32.15
B0-723	Fuel Forge etc.(per 2.83 Cu.M. blasting)	Item		40.40
B0-732	Ladders (per 93 square meters)	Item		125.65
B0-741	Paint (for lettering and numbering items)	Item		102.10
B0-746	Pegs (for turfing in 19 sq m area)	Item		37.75
B0-751	Sand paper and Cotton waste (per 9.29 sq meters)	Item		121.55
B0-752	Sharpening Scarifier Tines (for 307 sq. meters)	Item		41.45
B0-761	Timber planks & Bamboos (for 93 sqm)	Item		849.90
B0-762	Timber posts horizontal etc (for barricading work in 4 linear meters)	Item		340.40
	<u>WATER FOR CONCRETING</u>			
B0-781	Allow for water for mixing by machine	Cu.m.		26.90
B0-782	Allow for water for mixing concrete manually	Cu.m.		21.50
	<u>WATER FOR COMPACTION & GENERAL USE</u>			
B0-784	Allow water for Gravel Compaction	Cu.m.		16.15
B0-785	Allow water for Aggregate Compaction	Cu.m.		21.50
B0-786	Allow water for moistening road surface	Item		64.65
B0-787	Allow for moistening road surface(by bucket & coir rope)	Item		26.90
B0-788	Water for general purposes	liter		1.15
	<u>WHITE WASHING FOR BARRICADING</u>			
B0-791	White washing empty barrels (pen grade)	Nr.		46.40
B0-792	White washing timber posts horizontals ETC. (in 4 l.m barricading)	Item		17.35
	FOLLOWING MATERIAL PRICES ARE FOR ESTIMATION ONLY (payments should be based on approved tender prices)			
	<u>THERMOPLASTIC ROAD MARKING MATERIALS (EXCLUDING TRANSPORT & VAT)</u>			
B0-800	Thermo plastic road marking material (white)	kg		168.00

Item No	Description	Unit	Dry Rate (Rs.)	Wet Rate (Rs.) 2016
B0-801	Thermo plastic road marking material (yellow)	kg		168.00
B0-802	Glass Beads	kg		152.00
B0-803	Cats eye (Aluminium rd stud, Double sided)	Nr.		1,118.00
B0-806	Zebra barricading tape (polythene)	Lm		6.65
	<u>P.C.C. BEAMS (Wires) EXCLUDING TRANSPORT & VAT</u>			
B0-810	P.C.C Beam 3.35m(11 ft)	Nr.		
B0-812	P.C.C Beam 5.18m(17 ft)	Nr.		
B0-813	P.C.C Beam 6.09m(20ft)	Nr.		
B0-814	P.C.C Beam 7.01m(23ft)	Nr.		
B0-815	P.C.C Beam 9.5m	Nr.		
B0-816	P.C.C Beam 11.5m(38ft)	Nr.		
B0-818	P.C.C Beam 13.5m(45ft)	Nr.		
B0-819	P.C.C Beam 16.5m(55ft)	Nr.		
	<u>GABION MESH *(Zinc Coated Gabion Boxes) EXCLUDING TRANSPORT & VAT)</u>			
B0-850	1 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		3,664.65
B0-851	2 x 1 x .5 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		4,472.85
B0-852	1.5 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		4,734.50
B0-853	2 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		6,375.75
B0-854	3 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		8,497.65
	<u>GABION MESH *(PVC COATED BOXES) EXCLUDING TRANSPORT & VAT)</u>			
B0-850A	1 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		4,278.55
B0-851A	2 x 1 x .5 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		5,415.45
B0-852A	1.5 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		5,806.90
B0-853A	2 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		7,393.85
B0-854A	3 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box		10,705.50
	<u>GEOTEXTILES * EXCLUDING TRANSPORT & VAT</u>			
B0-860	Geotextiles (Nonwoven polypropylene polymer, Tear resistant >400N and apparent pore size < 200 um)	Sq.m		160.00

Highway Schedule of Rates - 2016
Summary

Item No.	Description	Unit	Rate
	<u>SECTION - I</u>		
	<u>SECTION OF MODE OF TRANSPORT</u>		
T1-001	Transport of soil 25m to 100 m by any means(including loading and unloading)	Cu.mkm	453.00
T1-002	Transport 100m to 0.5km by any means(Excluding loading)	Cu.m	284.00
T1-003	Transport 0.5km to 1.0km by any means (Excluding loading)	Cu.m	305.00
T1-003A	Transport of each subsequent 1km to 8 km by any means (Excluding loading)	Cu.m	47.00
T1-003B	Transport of each subsequent 1km beyond 8km by any means (Excluding loading)	Cu.m	32.00
T1-006	Transport of material in bulk excluding loading (for distance less than or equal 3 kilometers)	Cu.mkm	85.00
T1-007	Transport of material in bulk excluding loading (from 3km upto 10km Distance)	Cu.mkm	28.00
T1-007A	Transport of material in bulk excluding loading (for distance more than 10 km Distance)	Cu.mkm	26.00
T1-009	Transport of premix in bulk, excluding loading other than at mixing plant	TonKm	18.00
T1-010	Transport of barrels of bitumen for first 1.0km of transport (Excluding loading and unloading)	Nr.	44.00
T1-010A	Transport of barrels of bitumen for each subsequent 1.0km, from 1.0 - 8.0km, (Excluding loading and unloading)	BrlKm	10.00
T1-010B	Transport of barrels of bitumen for each subsequent 1.0km beyond 8.0km (Excluding loading and unloading)	BrlKm	7.00
T1-013	loading barrels of bitumen inclusive of rolling upto 25m	Brls	28.00
T1-014	Unloading barrels of bitumen inclusive of Rolling and stacking	Brls	12.00
T1-015	Transport of hume pipes 152mm diameter for 1st 1.0km of transport(Excluding loading and unloading)	L.mkm	33.00
T1-015A	Transport of hume pipes 152mm diameter for each subsequent 1.0km, from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.mkm	9.00
T1-015B	Transport of hume pipes 152mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	6.00
T1-018	Transport of hume pipes 229 mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.mkm	37.00
T1-018A	Transport of hume pipes 229mm diameter for each subsequent 1.0km from 1.0 - 8.0 km of transport(Excluding loading and unloading)	L.mkm	10.00
T1-018B	Transport of hume pipes 229mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	7.00

Item No.	Description	Unit	Rate
T1-021	Transport of hume pipes 305mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.mkm	50.00
T1-021A	Transport of hume pipes 305mm diameter for each subsequent 1.0km, from 1.0 - 8.0 km of Transport(Excluding loading and unloading)	L.mkm	13.00
T1-021B	Transport of hume pipes 305mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	9.00
T1-024	Transport of hume pipes 457mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.mkm	75.00
T1-024A	Transport of hume pipes 457mm diameter for each subsequeent 1.0km from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.mkm	19.00
T1-024B	Transport of hume pipes 457mm diameter for each subsequeent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	14.00
T1-027	Transport of hume pipes 610mm for first 1.0km of transport(Excluding loading and unloading)	L.mkm	99.00
T1-027A	Transport of hume pipes 610mm diameter for each subsequeent 1.0km from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.mkm	26.00
T1-027B	Transport of hume pipes 610mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	18.00
T1-030	Transport of hume pipes 915mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.mkm	149.00
T1-030A	Transport of hume pipes 915mm diameter for each subsequent1.0km, from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.mkm	39.00
T1-030B	Transport of hume pipes 915mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	28.00
T1-033	Transport of hume pipes 1220mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.mkm	335.00
T1-033A	Transport of hume pipes 1220mm diameter for each subesquent 1.0km, from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.mkm	113.00
T1-033B	Transport of hume pipes 1220mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.mkm	82.00
T1-036	Loading and unloading 152mm diameter 2.44m long hume pipes	Nr.	87.00
T1-037	Loading and unloading 229mm diameter 2.44m long hume pipes	Nr.	101.00

Item No.	Description	Unit	Rate
T1-038	Loading and unloading 305mm diameter 2.44m long hume pipes	Nr.	201.00
T1-039	Loading and unloading 457mm diameter 2.44m long hume pipes	Nr.	334.00
T1-040	Loading and unloading 610mm diameter 2.44m long hume pipes	Nr.	436.00
T1-041	Loading and unloading 915mm diameter 1.22m long hume pipes	Nr.	804.00
T1-042	Loading and unloading 1220mm diameter 1.22m long hume pipes	Nr.	1,608.00
T1-043	Transport of precast kerb stones (All types) for road works, including loading and unloading	L.mKm	2.00
T1-044	Transport of precast kerb stones for bridge works, including loading and unloading	L.mKm	3.00
T1-045	Transport of precast concrete hand rails, up rights and joints for bridge works, including loading and unloading	L.mKm	4.00
T1-046	Transport of precast concrete slabs 450x450x50 mm for foot walks, including loading and unloading	L.mKm	5.00
T1-047	Transport of precast concrete standard boundary markers including unloading only	NrKm	3.00
T1-048	Transport of emulsion	100ltr km	5.00
T1-049	Transport of gabion mesh 4x1x1 meters	Nr km	1.30
T1-050	Transport bitumen barrels upto 200 km	Nr.	
	<u>SECTION - II</u>		
	<u>ROADWAY AND FOUNDATION / TRENCH EXCAVATION</u>		
	(INCLUDING LOADING , UNLOADING AND TRANSPORTING WITHIN 25 METRES DISTANCE UNLESS OTHERWISE SPECIFIED)		
NOTE	FOR ROADWAY CONSTRUCTIONS INVOLVING MORE THAN 300CU.M. , MACHINE RATES SHOULD BE ADOPTED.		
E1-001	Excavation in Loose soil(Dry)[SSCM 301.2(iv)]	Cu.m	615.00
E1-002	Excavation in Loose soil (Wet) in slips [SSCM 301.3(0)]	Cu.m	761.00
E1-003	Excavation in ordinary soil (Cutting measurement)[SSCM 301.2(v)]	Cu.m	906.00
E1-004	Excavation in ordinary soil[Vehicle measurement][SSCM 301.2(v)]	Cu.m	816.00
E1-005	Excavation in medium soil (Cutting measurement)[SSCM 301.2(vi)]	Cu.m	1,197.00
E1-006	Excavation in medium soil (Vehicle measurement) [SSCM 301.2(vii)]	Cu.m	1,018.00
E1-007	Excavation in hard soil (Cutting measurement)[SSCM 301.2(vii)]	Cu.m	1,780.00
E1-008	Excavation in hard soil (Vehicle measurement) [SSCM 301.2(vii)]	Cu.m	1,513.00

Item No.	Description	Unit	Rate
E1-009	Excavation in unclassified soil(Cutting measurement)[SSCM 301.2 a(1)]	Cu.m	1,294.00
NOTE	SEE CODE NOS.FROM E1-027 FOR ROADWAY EXCAVATION USING MACHINERY		
E1-010	Excavation in soft rock (Cutting measurement)[SSCM 301.2(vii)]	Cu.m	1,925.00
E1-010A	Excavation in mud\marshy material (Cutting measurement) [SSCM 301.2(vii)]	Cu.m	1,489.00
E1-011	Excavation pit\trench for foundation in ordinary soil not Exceeding 1.5m deep, including Levelling and ramming bottom, Exc.material Deposited within 25m or as Directed. (Shoring dewatering if necessary shall be paid seperaely) [SSCM 301.1-.3]	Cu.m	1,197.00
NOTE	SEE GENERAL NOTES 24(2) FOR DETAILS REGARDING ADDITIONAL EXCAVATION REQUIRED FOR WORKING SPACE.		
E1-012	Excavation pit\trench in foundation in medium soil not exceeding 1.5m deep, including levelling and ramming bottom, exc.material Deposited within 25m or as Directed. (Shoring, Dewatering if necessary shall be paid)[SSCM 301.1-.3]	Cu.m	1,489.00
E1-013	Excavation pit\trench in foundation in hard soil not exceeding 1.5m deep, including levelling and ramming bottom, exc.material Deposited within 25m or as Directed. (Shoring, Dewatering if necessary shall be paid)[SSCM	Cu.m	2,071.00
E1-014	Excavation pit\trench in foundation in unclassified soil not exceeding 1.5m deep, including Levelling and ramming bottom, exc.material Deposited within 25m or as Directed.[SSCM	Cu.m	1,586.00
E1-015	Excavation pit\trench in foundation in mud/marsh not Exceeding 1.5m deep, including Levelling and ramming bottom, Exc.material Deposited within 25m or as Directed.[SSCM	Cu.m	1,780.00
E1-019	Excavation soft rock not exceeding 1.5m depth[SSCM 301.2(ii)]	Cu.m	2,362.00
NOTE	EXCAVATION ROCK FOR FOUNDATION TO BE PAID ON S.S.R.		
E1-021	Piling available soil	Cu.m	146.00
E1-022	Loading available soil to a tractor or equivalent	Cu.m	192.00
E1-023	Excavating rock requiring blasting, for roadway for boulders, excluding Dozing away[SSCM 301.2(iii) & 306.1-306.4]	Cu.m	896.00
E1-024	Boulders, sledging piling etc	Cu.m	2,688.00
E1-025	Rock requiring blasting	Cu.m	2,136.00
E1-026	Rock requiring blasting and piling (Bank measurement)	Cu.m	2,999.00
E1-027	Roadway excavation in unclassified soil using machinery excluding loading and piling (Cutting measurement)	Cu.m	228.00

Item No.	Description	Unit	Rate
E1-028	Loading materials by machinery in roadway excavations (Cutting measurement)	Cu.m	138.00
E1-029	Trimming / cambering by motor grader (Cutting measurement)	Cu.m	56.00
E1-029A	Trimming / cambering by motor grader (Cutting measurement)	Sq.m	11.00
	<u>SECTION - III</u>		
	<u>AGGREGATE / RUBBLE PILING (INCLUDING LOADING)</u>		
A1-001	Sledging available rock 150-225mm rubble including piling and loading	Cu.m	2,121.00
	THE RATES FOR ITEMS STARTING FROM NO.A1-002 TO A1-016 INCLUDED A 16KM AVERAGE TRANSPORT DISTANCE FROM THE SOURCE AND ALSO UNLOADING AND PILING. IF THE TRANSPORT DISTANCE EXCEEDS 16KM , ADDITIONAL MIELLAGE OVER AND ABOVE TO BE COMPUTED AS PER RATE GIVEN FOR ITEM T1-007A AND ADDED.THE METAL PRICES OBTAINED FROM THE ANALYSIS WERE CROSS-CHECKED WITH THE EX-QUARRY PRICES AND DECIDED AS A AVERAGE REPRESENTATIVE SIGURE FOR ESTIMATE PURPOSES.		
A1-002	Blasting etc and piling 150-225mm rubble including loading	Cu.m	2,987.00
A1-002A	Blasting sledging etc. and piling 150-225mm rubble using compressor and hand held drills including loading	Cu.m	2,168.00
A1-003	Blasting etc. and piling 100mm aggregate including loading	Cu.m	1,234.00
A1-004	Blasting etc and piling 75mm aggregate including loading	Cu.m	1,654.00
A1-005	Blasting etc and piling 50mm aggregate including loading	Cu.m	1,304.00
A1-009	50 mm aggregate, single size crusher production including piling and loading[SSCM 404.1-406.1 : table 1701-4	Cu.m	1,304.00
A1-010	37.5 mm aggregate, single size crusher production including piling and loading[SSCM 404.1-406.1 : table 1701-4	Cu.m	1,641.00
A1-011	19 mm aggregate, single size crusher production including piling and loading[SSCM 404.1-406.1]	Cu.m	1,848.00
A1-012	12.5 mm aggregate, single size crusher production including piling and loading for 1.0 Cu.m	Cu.m	1,859.00
	PLANT PRODUCED AGGREGATE DENSE GRADED AGGREGATE BASE COURSE		
A1-013	Aggregate 37.5 mm Down graded (SSCM-table 1701.5) including piling and loading	Cu.m	1,756.00
A1-014	Crusher fines 6.3 mm down, including piling and loading for 1.0 cu.m	Cu.m	1,552.00
A1-015	Aggregate 19 mm for seal coat treatments as per SSCM table 1701-8, including piling and loading	Cu.m	2,466.00

Item No.	Description	Unit	Rate
A1-016	Aggregate 12.5 mm for seal coat treatments as per SSCM table 1701-8, including piling and loading	Cu.m	2,220.00
A1-017	Blended aggregate for rectification overlay, with 37.5 mm single size aggregate and 19mm & 12.5 mm crushed aggregated mixed in the volume ratio of 7:2:1: including mix. & loading (piling to pay separately)	Cu.m	1,822.00
A1-018	Piling available aggregate	Cu.m	153.00
A1-019	Piling available rubble	Cu.m	306.00
A1-020	Loading available aggregate / rubble	Cu.m	291.00
	<u>SECTION - IV</u>		
	<u>APPROVED EARTH FILLING & COMPACTION</u>		
NOTE	RATES FOR BORROW EARTH SUPPLY GIVEN UNDER ITEM CODES EW1-001 & EW1-011 IN THIS SCHEDULE IS BASED ON MANUAL EXCAVATION AND INTENDED FOR SMALL WORKS INVOLVING LESS THAN 300 CU.M. IN THE CASE OF BORROW EARTH SUPPLY EXCEEDS 300 CU.M. (FOR THE WHOLE PROJECT), RATES BASED ON MACHINE EXCAVATION AS PER BO-201,BO-202,EW1-013 OR EW1-014 SHALL BE ADOPTED. FOR ANY DEVIATIONS THE PROCUREMENT PROCEDURE GIVEN IN GENERAL NOTES , SHALL BE FOLLOWED.		
EW-001	Approved soil (Type i & ii materials) excavation for bases & shoulder construction including loading and piling (Loose volume)[SSCM 601.1 to 601.4]	Cu.m	1,722.00
EW-002	Spreading piled approved soil (Loose volume)	Cu.m	209.00
EW-003	Approved soil spread & rolled including roller hire charges, fuel & watering (loose volume) [SSCM 601.1 - 4] (including roller hire)	Cu.m	442.00
	*SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
NOTE	THE ITEMS EW1-003 OR EW1-004 ON MANUAL SPREADING SHOULD BE ADOPTED FOR SMALL WORKS ONLY. WHEN MACHINERY IS USED FOR SPREADING AND COMPACTION, EW1-003A SHALL BE ADOPTED.		
EW-003A	Approved soil spread & rolled using machinery including motor grader & roller hire charges, fuel & watering (Loose volume)[SSCM 601.1 - 4] (including roller hire)	Cu.m	277.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
EW-004	Approved soil spread & rolled in strips where average width is less than 1.2 metres for road widening including roller hire charges, fuel & watering (Loose volume)[SSCM 601.1 - 4] (including roller hire)	Cu.m	530.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		

Item No.	Description	Unit	Rate
EW-006	Approved soil spread & compacted in places behind abutments and structures, shoulders above sub bases level and service line trenches,using 1/2 to 1 ton vibrating roller including watering (Loose volume)[SSCM 601.1 - 4]	Cu.m	555.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
EW-007	Approved soil spread & compacted in 150 to 225 mm thick layers using machine rammer at narrow places (Loose volume)	Cu.m	570.00
EW-008	Spreading , levelling and compacting manually using standard cast iron stamper or equivalent and filling in 150-225 mm thick layers (Loose volume)	Cu.m	655.00
EW-009	Trimming , levelling and compaction of original ground/subgrade to 100 % STD Density [SSCM 304.3(c)] (including roller hire)	Sq.m	103.00
EW-010	Trimming , levelling and compaction of original ground/subgrade to 95 % STD Density [SSCM 304.3(c)] (including roller hire)	Sq.m	93.00
EW-011	Approved soil excavation for embankment filling including loading and piling (Loose volume)[SSCM 601.1 to 601.4]	Cu.m	1,227.00
EW-013	Approved soil (Type i & ii materials) excavation using machinery for bases & shoulder construction including loading and piling(Loose volume)[SSCM 601.1 - 4]	Cu.m	387.00
EW-014	Approved soil (Type i & ii) excavation using machinery for embankment filling including loading and piling(Loose volume)[SSCM 601.1 - 4]	Cu.m	358.00
EW-015	Grading and spreading by motor grader	Cu.m	107.00
	<u>SECTION - V</u>		
	<u>RUBBLE PITCHING / PAVING (RUBBLE TO BE PAID SEPERATELY)</u>		
P1-001	Pitched paving 225 mm thick	Sq.m	373.00
P1-002	Pitched paving 150 mm thick	Sq.m	280.00
P1-003	Flat paving 225 mm thick	Sq.m	248.00
P1-004	Flat paving 150 mm thick	Sq.m	187.00
	<u>SECTION - VI</u>		
	<u>AGGREGATE SPREADING AND COMPACTION</u>		
	<u>COST OF WATERING TO BE DIDUCT FROM RATE IF NOT CARRIED OUT UNDER THE RELEVENT ITEMS</u>		
M1-001	Spreading , watering & rolling 100 mm aggregate including hire charges of roller(Loose volume) [SSCM 304.3(d),(e)]	Cu.m	984.00
M1-002	Braking road surface to 50 mm Depth by hand , screen & replace old aggregate	Sq.m	107.00
M1-003	Scarifying road surface to 50 mm Depth by roller, screen, & replace old aggregate. (including roller hire)	Sq.m	87.00

Item No.	Description	Unit	Rate
M1-004	Spreading & compaction 50-19 mm new aggregate by roller including watering hire, etc. (loose volume) [SSCM 403.3(c)] (Including roller hire)	Cu.m	1,475.00
M1-005	Breaking 50 mm additional Depth by hand screening & replacing old aggregate	Sq.m	64.00
M1-006	Scarifying 50 mm additional Depth with roller, Screening & replacing old aggregate (including hire charges)	Sq.m	71.00
M1-007	Spreading watering & compacting 50-19 mm aggregate in edge correction using roller including hire, etc. (loose volume) [SSCM 1103.3] (including hire charges)	cu.m	1,898.00
M1-008	Spreading watering & compacting 50-19 mm aggregate in strip correction using roller including hire ,etc (loose volume) [SSCM 1103.3] (including hire charges)	Cu.m	1,533.00
M1-009	Spreading & compacting 50-19 mm aggregate by 8-10 ton roller after applying track coat in overlay (loose volume) (Tack coat paid separately) (including hire charges)	Cu.m	1,383.00
M1-010	Water bound macadam spreading water & comp 50-25 mm aggregate & filling the voids to refusal with crusher fines by watering & rolling to form a water bound macadam base .(loose volume (SSCM 404.1) (including hire charges)	Cu.m	4,251.00
M1-011	Dry bound macadam spread, water & comp. 50-25 mm aggregate & filling voids to refusal with crusher fines by rolling with vibrating roller to form a Dry bound macadam base (Loose volume) [404] (including hire charges)	Cu.m	4,004.00
M1-012A	Dense graded agg. base (Agg. base course) spreading water and comp. graded 37.5 mm agg to form a Dense agg. base using machinery including motor grader & roller hire charges. (Loose volume)	Cu.m	2,291.00
M1-013	Dense graded agg.base [ABC], spreading watering and Compacting graded 37.5mm aggregate to form a Dense aggregate base in strips, avg width not exceeding 1.2m for road widening (Loose volume)[SSCM 405.1-4](including hire charges)	Cu.m	3,261.00
NOTE	THIS ITEM M1-013 ON MANUAL LABOUR SHOULD BE ADOPTED FOR SMALL WORKS (upto 50 Cu.m) ONLY. WHEN MACHINERY IS USE FOR SREADING AND COMPACTION, M1-012A / M1-013A SHALL BE ADOPTED DEPENDING ON THE SITUATION.		
M1-013A	Graded 37.5 ABC material spread and rolled in strips, average width not exceeding 1.2m using machinery incl motor graders and roller hire charges fuel and watering(Loose vol)[SSCM 405.1-4] (including hire charges)	Cu.m	2,362.00
	*FOR THE RATE ON COMPACTED VOLUME , INCREASE THE LOOSE VOLUME RATE BY 42%. IF MEASUREMENT IS ON END PROJECT, PILING COST OF AGGREGATE AS PER A1-018 SHALL BE DEDUCTED.		
	<u>SECTION - VII</u>		

Item No.	Description	Unit	Rate
	<u>ROAD SURFACE TREATMENT</u>		
	(SAND TRANSPORT UP TO 16 KM INCLUDED IN THE RATES) TRANSPORT OF BITUMEN TO BE PAID SEPERATELY		
S1-001	Bitumen surface 1st coat using 2ltr/sq.m including blinding with sand @ the rate of 125 sq.m/cu.m[SSCM 503.1] (including cost of bitumen)	Sq.m	218.00
S1-002	Bitumen surfacing 1st coat using 2ltr/sq.m including blinding with gravel where sand is not available within 16km.(including cost of bitumen)	Sq.m	200.00
S1-003	Double bituminous surface treatment with hot bitumen(Manual) including internal transport(Binder and aggregate paid separately)[SSCM 505.1-.5 and table 505.1] including roller hire)	Sq.m	225.00
S1-004	Single bituminous Surface treatment with hot bitumen (Manual, including internal transport)(binder and aggregate paid separately)[SSCM 505.1-.5 and table 505.1] (including roller hire))	Sq.m	118.00
S1-005	Double bituminous surface treatment with emulsion (CRS-1) (Manual including internal transport)(Binder and aggregate paid separately) (including roller hire))	Sq.m	221.00
S1-006	Single bituminous surface treatment with emulsion (CRS-1) (manual including internal transport)(Binder and aggregate paid separately) (including roller hire)	Sq.m	115.00
S1-007	Bitumen surfacing subsequent coat using 0.75ltr/sq.m including blinding with sand @ 125 sq.m/cu.m [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	117.00
S1-008	Bitumen surfacing 2nd/subsequent coat using 1.0ltr/sq.m including blinding with sand @ rate of 125 sq.m/cu.m (New work) [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	134.00
S1-009	Bitumen surfacing subsequent coat using 0.75ltr/sq.m including blinding with gravel free of clay where sand is not available within 16 km [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	99.00
S1-010	Bitumen surfacing 2nd/subsequent coat using 1.0ltr/sq.m including blinding with gravel free of clay where sand is not available within 16km (New work) [SSCM 503.4(c)] (including cost of bitumen)	Sq.m	116.00
S1-011	Emulsion/cold bitumen(CRS-1) surface treatment 1 st coat with 3.5 ltr/sq.m including blinding with sand, @ 125 sq.m/cu.m (manual)(incld cost of emulsion)	Sq.m	286.00
S1-012	Emulsion/cold bitumen(CRS-1) surface treatment 1st coat with 3.5 ltr/sq.m(using trolley,emulsion) including blinding with sand, @ 125 sq.m/cu.m(incld cost of emulsion)	Sq.m	273.00
S1-013	Emulsion/cold bitumen(CRS-1) surface treatment subsequent Coat with .75 ltr/sq.m including blinding with sand, @ 125 sq.m/Cu.m (Manual)(incld cost of emulsion)	Sq.m	97.00

Item No.	Description	Unit	Rate
S1-014	Emulsion/Cold bitumen(CRS-1) surface treatment subsequent coat with .75 ltr/sq.m (using trolley, emulsion) including blinding with sand, @ 125 sq.m/cu.m(inclcd cost of emulsion)	Sq.m	92.00
S1-015	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/Sq.m inclusive of brushing, cleaning road surface and cost of emulsion (manual) [SSCM 502.3]	Sq.m	46.00
S1-015A	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/sq.m(inclcd cost of emulsion)	Sq.m	41.00
S1-015B	Brushing and cleaning road surface for tack coat	Sq.m	5.00
S1-016	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/sq.m inclusive of brushing, cleaning road surface and cost of emulsion (Manual) [SSCM 502.3]	Ltr	93.00
S1-017	Tack coat using emulsion (CRS-1) @ the rate of 0.75 ltr/sq.m inclusive of brushing, cleaning road surface and cost of emulsion (Manual) [SSCM 502.1-503.3] (including cost of emulsion)	Sq.m	57.00
S1-018	Tack coat with 30% cut back bitumen using 0.5 ltr/sq.m including brushing and cleaning road surface (Manual))(including cost of bitumen)	Sq.m	70.00
S1-018A	Tack coat with 30% cut back bitumen using 0.5 ltr/sq.m Excluding brushing and cleaning road surface (Manual) data for 372 sq.m tack coat (part1) (Excluding cost of bitumen)	Sq.m	41.00
S1-019	Tack coat with 30% cut back bitumen using 0.5 ltr/sq.m including brushing and cleaning road surface (Manual) (Excluding cost of bitumen)	Sq.m	139.00
S1-020	Tack coat with 30% cut back bitumen using 0.75 ltr/sq.m including brushing and cleaning road surface (Manual) [SSCM 503.4(d)](including cost of bitumen)	Sq.m	90.00
S1-021	Rolling over blinding material spread over subsequent bitumen surfacing using diesel roller (8-10 Tones) [SSCM 503.4(d)]	Sq.m	13.00
S1-022	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m/cu.m and brushing cleaning and moistening road surface : (including cost of emulsion)	Sq.m	104.00
S1-022A	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m/cu.m(including cost of emulsion)	Sq.m	99.00
S1-022B	Brushing, cleaning and moistening road surface(Manual)	Sq.m	5.00
S1-023	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m without blinding, but inclusive of brushing, cleaning and moistning road surface(including cost of emulsion)	Sq.m	83.00
S1-024	Prime coat with 30% cut back bitumen using 1 ltr/ sq.m including blinding with sand at the rate of 250 sq.m/cu.m and brushing, cleaning and mostening road surface (including cost of bitumen)	Sq.m	132.00

Item No.	Description	Unit	Rate
S1-025	Prime coat with 30% cut back bitumen using 1 ltr/ sq.m without blinding but inclusive brushing, cleaning and mostening road surface (including cost of bitumen)	Sq.m	110.00
S1-026	Sweeping over tarred surface to arrest bleeding.	Sq.m	5.00
S1-027	Application of asphalt emulsion for surface treatment using CRS-1 (using plant) "rate per litre"(including cost of emulsion)	litre	75.00
S1-028	Blinding the bitumen surfacing with sand at the rate of 125 sq.m/ cu.m using material from stock pile	Sq.m	44.00
S1-029	Single bituminous surface treatment with emulsion (CRS2) using plant.(Binder and aggregate paid separately) (Rate to include transport cost of aggregate up to 16kms) [SSCM 505(b).	Sq.m	75.00
S1-030	Double bituminous surface treatment with emulsion(CRS-2) using plant.(Binder and aggregate paid separately) (Rate of including transport cost of aggregate up to 16 kms) [SSCM 505.5(e)]	Sq.m	154.00
S1-030A	Double bituminous surface treatment with hot bitumen(80/100) using 19mm and 12.5mm single size selected aggregates on existing bituminous surface using plant. Rate to include all labour, material, plant and transport cost of aggregate up to 16Km.(Transport of Binder and Additional transport of aggregate to be paid separately)[SSCM505.5(e)]:	Sq.m	365.00
S1-030B	Double bituminous surface treatment with hot bitumen(80/100) using 19mm and 9.5mm single size selected aggregates on existing bituminous surface using plant. Rate to include all labour, material, plant and transport cost of aggregate up to 16Km.(Transport of Binder and Additional transport of aggregate to be paid separately)[SSCM505.5(e)]:	Sq.m	354.00
S1-031	Supply, lay & compact asphalt concrete (19mm, binder(60/70) 6% mix) - Dense(Plant made) in wearing surface of small works such as bridge Decking, reinstatement of trenches etc.(transport of premix to be paid separately)[SSCM 506] (including roller hire)	M.ton	8,932.00
S1-032	Supply, lay, comp. asp. bound premix(37.5mm, binder(80/100) 3.53% mix - Dense base mat(Plant made) in small works(bridge Decking, reinstatement of trenches)(Trans of agg. for premix & Tra. of pr to be paid separately)[SSCM 506](including roller hire)	M.ton	8,288.00
S1-033	Supply, lay & compt. asplt conc. cold mix(19mm 20% cutback with binder(80/100)5.5%mix) dense plant made in small wrks. suc. as brdg. decking reinst. of trenches(trnspt.of agg.for premix and trnspt.of premix to be paid septy)(SSCM 506)(including roller hire)	M.ton	10,166.00
S1-033A	Sply.lay & compt. asplt contrt. cold mixwith emul css.1(6.67% wt of agg. 19mm dense plant made) in small wrks. suc. as brdg. decking reinstatement of trenches etc(trnspt.of agg.for premix and trnspt.of premix to be paid septy).(SSCM 506)(including roller hire)	M.ton	2,456.00

Item No.	Description	Unit	Rate
NOTE	AVERAGE 0.6270 CU.M. OF AGGREGATE REQUIRED FOR 1.0 M.TON OF PREMIX (ALL TYPES)		
S1-034	Lay and compact asphalt premix using paver (Cost of premix, aggregate transport and premix transport to site paid separately)	M.ton	1,523.00
S1-035	Bitumen surfacing (Sand sealing -manl) using emulsion (CRS 1) @ 1 ltr./sq.m including preparing surface, blinding with sand @ 4 cu.m/500 sq.m & pressing with hand rollers.(patching pot holes if necsry & external transport to pay sep.(including cost of emulsion)	Sq.m	118.00
S1-035A	Patching minor pot holes using sand emulsion mix 1:8 where necessary, prior to sand sealing. Incld cost of emulsion	Sq.m	19.00
S1-036	Sand sealing with emulsion CRS-1 at the rate of 1ltr,sq.m using plant.incd.brushing,cleaning, blinding. with sand@ 125 sq.mand rolng. with pneumtc. roller & internel trnsport.[SSCM 504](including roller hire)	Sq.m	135.00
NOTE	THE ABOVE RATES IS APPLICABLE FOR PAYMENT ONLY IF CHIP SPREADER (SELF PROPELLED) AND PNEUMATIC ROLLER ARE USED FOR THE CONSTRUCTION. OTHERWISE APPROVED SSR SHOULD BE ADOPTED.		
S1-037	Reconstruct base with penetration macadam using nominal size 50mm aggregate and 19mm key aggregate from stock piles, to accomplish 75mm on existing pavements[SSCM 406] (Binder, aggregate, transport paid separately)	Sq.m	164.00
S1-038	Reconstruct base with penetration macadam using nominal size 37.5 mm aggregate and 12.5 mm key aggregate from stock piles , to a compacted thickness of 55mm on existing pavements [SSCM 406] cost of aggregate including transport to be paid separately	Sq.m	115.00
S1-039	Correction of Corrugations, Depressions and Cambering road surfaces using asphalt Concrete compacted by vibrating roller including internal transport (application of tack coat and supply of asphalt concrete to be paid separately)	M.ton	2,201.00
S1-040	Sand sealing with emul CRS-2 at the rate of .8 ltr/sq.m using plant ,& blinding with sand at rate 125sq.m/cu.m on D.B.S.T./S.B.S.T. (Triple seal) incl. internal trport (SSCM 504) binder trnport to site to pay separately (including cost of emulsion & roller hire)	Sq.m	136.00
NOTE	THIS ITEM SHOULD BE USED ONLY FOR SEALING ON ROAD SURFACE AFTER D.B.S.T./S.B.S.T. WORK AND USE OF PNEUMATIC ROLLER IS ESSENTIAL. IF EMULSION AND/OR THE RATE OF APPLICATION OR THE METHOD OF SAND SPREADING TO BE CHANGED , S.S.R. SHALL BE PREPARED AND APPROVED.		

Item No.	Description	Unit	Rate
S1-041	Slurry sealing to a thickness of 6mm using machinery with modified emulsion (using CSS -1) as the binder (Including cost of emulsion, transport of aggregate to pay seperately)	Sq.m	132.00
	<u>SECTION - VIII</u>		
	<u>ROAD SURFACE MAINTAIN</u>		
	INTERNAL TRANSPORT OF HOT BITUMEN UP TO 16 KM AND SAND TRANSPORT UP TO 16 KM INCLUDING IN THE RATES		
MN-001	Patching with hot bitumen using 14 litres per 1/2 km(SSCM 1102.1-3)	K.m	2,751.00
MN-002	Patching with hot bitumen using 21 ltrs. per 1/2 k.m.	1/2 K.m	3,994.00
MN-003	Patching with hot bitumen using 28 ltrs. per 1/2 k.m.	1/2 K.m	5,325.00
MN-004	Patching with hot bitumen using 35 ltrs. per 1/2 k.m.	1/2 K.m	6,656.00
MN-005	Patching with hot bitumen using 42 ltrs. per 1/2 k.m.	1/2 K.m	7,988.00
MN-006	Patching with hot bitumen using 49 ltrs. per 1/2 k.m.	1/2 K.m	9,319.00
MN-007	Patching with hot bitumen using 56 ltrs. per 1/2 k.m.	1/2 K.m	10,650.00
MN-008	Extensive Patching for every additional 7 ltrs. hot bitumen	1/2 K.m	1,331.00
MN-009	Patching with cold bitumen (CRS-1) using 14 ltrs per 1/2 k.m.	K.m	2,028.00
MN-010	Patching with cold bitumen (CRS-1) using 21 ltrs. per 1/2 k.m.	1/2 K.m	3,042.00
MN-011	Patching with cold bitumen (CRS-1) using 28 ltrs. per 1/2 k.m.	1/2 K.m	4,056.00
MN-012	Patching with cold bitumen (CRS-1) using 35 ltrs. per 1/2 k.m.	1/2 K.m	5,069.00
MN-013	Patching with cold bitumen (CRS-1) using 42 ltrs. per 1/2 k.m.	1/2 K.m	6,083.00
MN-014	Patching with cold bitumen (CRS-1) using 49 ltrs. per 1/2 k.m.	1/2 K.m	7,097.00
MN-015	Patching with cold bitumen (CRS-1) using 56 ltrs. per 1/2 k.m.	1/2 K.m	8,111.00
MN-016	Extensive patching for every additional 7 ltrs. cold bitumen, CRS-1:	1/2 K.m	1,014.00
MN-017	50 mm-19mm aggregate roller patching(including roller hire)	Cu.m	4,382.00
MN-018	50 mm - 19mm aggregate stamped patching	Cu.m	4,875.00
	<u>SECTION - IX</u>		
	<u>SIDES AND DRAINAGE</u>		

Item No.	Description	Unit	Rate
	(RATE TO INCLUDE SPREADING THE RESULTING MATERIALS SUITABLY IN THE VICINITY UNLESS OTHERWISE DIRECTED.)		
DR-001	Cutting new side Drains in ord. soil	Cu.m	800.00
DR-002	Cutting new side Drains in Med. soil	Cu.m	1,107.00
DR-003	Cutting new side Drains in hard soil	Cu.m	1,413.00
DR-004	Cutting new side Drains in soft soil	Cu.m	1,566.00
DR-005	Cutting new side Drains in unclassified soil	Cu.m	1,107.00
DR-005A	Cutting side drains of std. Dimensions in unclassified soil using machine (Back hoe J.C.B) including shipping trimming and levelling bottom manually	Cu.m	597.00
DR-006	Cutting new side Drains in rock	Cu.m	2,822.00
DR-007	Turfing (Excluding royalty, transport and watering maintenance) [SSCM 802.3 (a)]	Sq.m	178.00
DR-008	Watering and maintaining turf for Three months including transport of water	Sq.m	239.00
DR-009	Levelling & trimming earth	Sq.m	24.00
DR-010	Clearing silt etc. from kerbs & channels (SSCM 12053)	L.m	14.00
DR-011	Cutting scupper Drains on any soil other than rock to and average width of 0.75 m with proper gradient and ave. Depth of 100 mm (SSCM 1304.3)	L.m	99.00
DR-012	Clearing and Desilting of culverts (SSCM 1303.3)	L.m	290.00
DR-013	Clearing choked culverts (With head room > 1m.)	Cu.m	1,197.00
DR-014	Cleaning desilting existing side drains and lead up drains to proper shape and gradient and transport of excavated materials from road side up to 100m	L.m	35.00
DR-015	Clearing inlets and outlets of culverts	Culverts	261.00
	<u>SECTION -X</u>		
	<u>BRIDGES AND STRUCTURES</u>		
ST-001	Demolishing Dry coursed masonry including stacking or loading ,(SSCM 202.2)	Cu.m	3,525.00
ST-002	Demolishing coursed masonry in cement mortar including stacking or loading	Cu.m	4,107.00
ST-003	Demolishing random rubble masonry in cement mortar including stacking or loading	Cu.m	1,808.00
ST-004	Random rubble masonry, 150-225 mm rubble in approved cement & sand mortar 1:6 (Excluding transport of rubble & piling) [SSCM 1006.3]	Cu.m	11,243.00
ST-005	Random rubble masonry, 150-225 mm rubble in approved cement & sand mortar 1:5 (Excluding transport of rubble) [SSCM 1006.3]	Cu.m	11,588.00

Item No.	Description	Unit	Rate
ST-006	Random rubble masonry, in approved cement & sand mortar 1:6 with available rubble 150-225mm	Cu.m	8,845.00
ST-007	Random rubble masonry in approved cement & sand mortar 1:5 with available rubble 150-225 mm.	Cu.m	9,184.00
ST-008	Dry masonry with available heavy rubble or boulders(SSCM 1006.3)	Cu.m	4,756.00
ST-009	Dry masonry with rubble 150-225 mm (Excluding transport of rubble & piling)	Cu.m	5,666.00
ST-010	Dry masonry with available rubble 150-225mm	Cu.m	3,805.00
ST-011	Packing available rubble and aggregate filter layers behind masonry walls.	Cu.m	1,052.00
ST-012	Clay puddled & laid behind masonry walls(Excluding transport of clay) [SSCM 705.3]	Cu.m	2,128.00
ST-013	Grouting coursed stone masonry joints with approved cement & sand mortar 1:3 (SSCM 804.2(C))	Sq.m	397.00
ST-014	Grouting rubble paving with concrete class C, 1:2:4(19 mm) (Excluding transport of aggr. for concrete & piling)	Cu.m	1,928.00
ST-015	Grouting rubble paving with approved cement & sand mortar (1:3)	Sq.m	652.00
ST-016	Forming weep holes in masonry construction (Labour only)[SSCM 706.3]	Nr.	319.00
ST-017	Forming weep holes using PVC pipes of internal diameter. not less than 100mm complete with Drip ledge and surround finish smooth.	L.m	591.00
ST-018	Shoring with 37.5 mm thick class II timber planks up to 3 m Depth	Sq.m	782.00
ST-019	Supplying & fixing class II timber struts etc. for shoring up to 3m Depth	Cu.dm	69.00
ST-020	Supplying and fixing class II timber in shoring up to 3m Depth (Rate per area basis)	Sq.m	953.00
ST-021	Lifting soil for every 1.5 m beyond the initial 1.5m	Cu.m lift	582.00
ST-022	Lifting wedge stones for every 1.5 m beyond the initial 1.5m	Cu.m lift	1,747.00
ST-023	Lifting rubble or concrete every 1.5 m beyond the initial 1.5m	Cu.m lift	874.00
ST-024	Lowering wedged stones every 1.5m beyond the initial 1.5 m beyond the initial 1.5 m	Cu.m lwr	1,165.00
ST-025	Lowering rubble or concrete every 1.5m beyond the initial 1.5 m	Cu.m lwr	582.00
ST-026	Rendering 12.5 mm thick in cement sand mortar 1:2 mix (Rough)	Sq.m	647.00
ST-027	Rendering 12.5 mm thick in cement sand mortar 1:2 mix (Smooth finish)	Sq.m	739.00

Item No.	Description	Unit	Rate
ST-028	Rendering 19 mm thick in cement sand mortar 1:2 mix (Rough)	Sq.m	905.00
ST-029	Rendering 19 mm thick in cement sand mortar 1:2 mix (Smooth finish)	Sq.m	996.00
ST-030	Rendering 12.5 mm thick in cement sand mortar 1:3 mix (Rough)	Sq.m	631.00
ST-031	Rendering 12.5mm thick in cement sand mortar 1:3 mix (Smooth finish)	Sq.m	732.00
ST-032	Rendering 19 mm thick in cement sand mortar 1:3 mix (Rough)	Sq.m	883.00
ST-033	Rendering 19mm thick in cement sand mortar 1:3 mix (Smooth finish)	Sq.m	975.00
ST-034	Mixing & laying manually, cement concrete 1:4:8 (50 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling) [SSCM 1001.4]	Cu.m	11,324.00
ST-035	Mixing & laying using concrete mixer, cement concrete 1:4:8 (50 mm) (Volume batching) using crusher run aggregate (excl. transport of aggregate & piling) (SSCM 1001.8 - 9)	Cu.m	11,346.00
ST-036	Mixing & laying manually cement concrete 1:4:8 (50 mm) with 20% plums (Volume batching) using crusher run aggregate (excl. transport of aggregate & piling)	Cu.m	10,870.00
ST-037	Mixing & laying using concrete mixer, cement concrete 1:4:8 (50 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	10,276.00
ST-038	Mixing & laying manually cement concrete 1:3:6 (37.5 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	11,711.00
ST-039	Mixing & laying using concrete mixer, cement concrete 1:3:6 (37.5 mm) with 20% plums (Volume batching) using crusher run aggregate (excl. transport of aggregate & piling)	Cu.m	11,194.00
ST-040	Mixing & laying manually cement concrete 1:3:6 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)[SSCM 1001.4]	Cu.m	13,409.00
ST-041	Mixing & laying using concrete mixer, cement concrete 1:3:6 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	12,851.00
NOTE	WHEN HAND BROKEN AGGREGATE (50MM OR 37.5MM) ARE USED INPLACE OF CRUSHER RUN AGGREGATE , ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS		
ST-042	Mixing & laying manually cement concrete 1:3:6 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	13,596.00

Item No.	Description	Unit	Rate
ST-043	Mixing & laying using concrete mixer, cement concrete 1:3:6 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	12,906.00
ST-044	Mixing & laying manually cement concrete 1:2:4 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,664.00
ST-045	Mixing & laying using concrete mixer, cement concrete 1:2:4 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,348.00
	** (RATE INCLUDES VIBRATOR COST)		
NOTE	WHEN HAND BROKEN AGGREGATE (50MM OR 37.5MM) ARE USED INPLACE OF CRUSHER RUN AGGREGATE , ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS		
ST-046	Mixing & laying manually cement concrete 1:2:4 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,683.00
ST-047	Mixing & laying using concrete mixer, cement concrete 1:2:4 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,378.00
ST-048	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 25 (19 mm) using crusher run aggregate in foundation and floors.(Excl. transport of aggregate & piling)	Cu.m	15,641.00
ST-048A	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 25 (70% 37.5 + 30% 19 mm) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,850.00
ST-049	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 30 (19 mm) with crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	17,366.00
ST-050	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 40 (19 mm) with crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	19,081.00
ST-051	Mixing & laying using concrete by hand	Cu.m	4,858.00
ST-052	Mixing & laying using concrete by power Driven concrete mixer V/batching	Cu.m	4,304.00
ST-053	Curing of concrete Decks, slabs , beams, walls etc. [SSCM 1011.11]	Sq.m/day	44.00
ST-054	Fabricate & lay M.S bars as reinforcement (Including transport & wastage)	Kg	228.00
ST-055	Fabricate & lay tor steel as reinforcement (Including transport& wastage)	Kg	241.00
ST-056	Cutting & laying reinforcement fabric (Excluding cost of reinforcement fabric)	Sq.m	198.00
ST-057	Supplying & fixing 25 mm thick planks of class II timber as shuttering, including removing [1008.3(b)]	Sq.m	930.00

Item No.	Description	Unit	Rate
ST-058	Supplying & fixing class ii timber bearers, joists , Etc. including Dismantling in shuttering (SSCM 1008.3 (a))	Cu.dm	51.00
ST-059	100-150 mm Dia. round jungle timber supplied & fixed as props	L.m	85.00
ST-060	150-200 mm Dia. round jungle timber supplied & fixed as props	L.m	95.00
ST-061	Formwork smooth finish with class II timber for bridge beams, bridge deck under sides and sides including Dismantling (SSCM 1008.3(b))	Sq.m	2,310.00
ST-062	Formwork smooth finish with class II timber for bridge column shafts including dismantling (SSCM 1008.3(b))	Sq.m	2,114.00
ST-063	Formwork smooth finish, using plywood(Shutter 15 mm) and class ii timber bearers, joists and jungle timber props for bridge abutments, wing walls etc.	Sq.m	2,493.00
ST-064	Supplying & fixing 25mm thick planks and struts of class ii timber as formwork rough finish, in foundation etc. including removing (SSCM 1008.3(b))	Sq.m	1,066.00
ST-065	Formwork smooth finish for general purposes, using 25mm thick planks & struts of class ii timber and round jungle timber props 100 - 150 mm Dia. including Dismantling	Sq.m	1,458.00
ST-066	Laying & jointing 152mm Dia. concrete pipes (transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	2,412.00
ST-067	Laying & jointing 229mm Dia. concrete pipes (transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	3,557.00
ST-068	Laying & jointing 305mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	4,015.00
ST-069	Laying & jointing 457mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	5,285.00
ST-070	Laying & jointing 610mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	8,111.00
ST-071	Laying & jointing 915mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	12,602.00
ST-072	Laying & jointing 1220mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	18,907.00
ST-073	Laying & jointing 152 mm Dia. available concrete pipes and collars	L.m	639.00
ST-074	Laying & jointing 229 mm Dia. available concrete pipes and collars	L.m	681.00
ST-075	Laying & jointing 305-450 mm Dia. available concrete pipes and collars	L.m	740.00
ST-076	Laying & jointing 610 mm Dia. available concrete pipes and collars	L.m	1,452.00
ST-077	Laying & jointing 915 mm Dia. available concrete pipes and collars	L.m	2,523.00
ST-078	Laying & jointing 1220 mm Dia. available concrete pipes and collars	L.m	3,607.00

Item No.	Description	Unit	Rate
ST-079	Fixing new bridge planks runners and stacking old planks (Available) [SSCM 1402.2(a)]	Nr.	869.00
ST-080	Removing & re-setting old bridge planks	Nr.	543.00
ST-081	Supplying & fixing new bridge planks of class I timber	Cu.dm	134.00
ST-082	Supplying & fixing 31 mm thick Deck planks of class I timber	Nr.	5,237.00
ST-083	Fixing new chequered or M.S. plates on timber - decked bridge [SSCM 1402.2(d)]	L.m	1,282.00
ST-084	Removing & refixing chequered M.S. plates on timber-decked bridge	L.m	1,709.00
ST-085	Tightening bolts & nuts of chequered of M.S. plates	L.m	277.00
ST-086	Removing & refixing "U" clips. [SSCM 1402.2(b)]	Nr.	178.00
ST-087	Cleaning, wire brushing & painting steelwork, one coat enamel paint	Sq.m	251.00
ST-088	cleaning, wire brushing & applying tar on steelwork, one coat	Sq.m	188.00
ST-089	Cleaning, with cotton waste and painting steel work with enamel paint, one coat	Sq.m	146.00
ST-090	Chipping to bare metal etc. & painting with anticorrosive paint, one coat	Sq.m	832.00
ST-091	Painting with one coat of enamel paint after cleaning, de-rusting & application of one coat anticorrosive paint[SSCM 1401.3(C)]	Sq.m	578.00
ST-092	Painting with two coats of enamel paint, after cleaning, de-rusting & application of one coat anticorrosive paint	Sq.m	713.00
ST-093	Oiling steel cables on suspension bridges [SSCM 1405.3]	Sq.m	766.00
ST-094	Cleaning booms of steel bridges including scaffolding where necessary [SSCM 1401.3]	L.m	68.00
ST-095	Demolishing unreinforced cement concrete including cleaning of Debris in foundation and superstructure in dry condition excluding under water structures [SSCM 202.2]	Cu.m	3,062.00
ST-096	Demolishing reinforced concrete and debris cleared	Cu.m	4,279.00
ST-097	Demolishing reinforced concrete in very heavy structures build up of grade 30 above concrete in work such as bridge beams & deck slabs, including collecting and removing	Cu.m	11,247.00
ST-098	Supplying and fixing M.S. dowels spliced and dove tailed with wedge at one end, 16mm dia, and 1m long, boring holes to 0.3m depth in fixing	Nr.	642.00
ST-099	Supplying and fixing M.S. dowels, spliced and dove tailed with wedge at one end, 20mm dia, and 1m long, boring holes to 0.3m depth in fixing.	Nr.	809.00
ST-100	Supplying & fixing M.S.dowels, spliced and Dove tailed with wedge at one end, 25mm dia, and 1m long. boring holes to 0.3m depth in fixing.	Nr.	1,093.00

Item No.	Description	Unit	Rate
ST-101	Lay standard type road kerbs(125mmX900mm) set on19mm thick 1:3 cement mortar layer on 150mm X 275mm 1:2:4(19) concrete foundation with av. 157mm X 150mm wide backing with same concrete including excavation and shuttering (cost of kerb stones.	L.m	2,150.00
ST-102	Lay standard precast bridge kerbs [Type Drawing No T/B/106-rev 1 of RDA](Cost of precast kerbs & transport to be paid separately)	L.m	491.00
ST-103	Constructing 150 X 50 mm thick insitu lower kerb in grade 20 (14 mm) concrete for bridges: (Aggregate transport to be paid separately)	L.m	243.00
ST-104	Laying 450 X 450 X 50 mm precast concrete slabs on foot walks including av. 40mm thick 1:3 cement Mortar bedding (Cost of sabs & transport paid separately)	Sq.m	1,626.00
ST-105	Laying 450 x 450 x 50 mm precast concrete slabs on foot walks including av.40mm thick sand bedding (Cost of precast slabs and transport to be paid separately)	Sq.m	1,062.00
ST-106	Fixing precast hand railing and uprights using grade 25(19) concrete including formworks for pockets (Cost of precast items & transport and aggr.transport paid separately)[Type Dwg No T/B/102/B]	L.m	1,321.00
ST-107	Construction of RCC grade 25(19mm) end pillaster, type 1(Agg. transport to be paid separately) [Type Dwg No T/B/106-Rev 1]	Nr.	40,281.00
ST-108	Construction of RCC Grade 25(19mm) end pillaster, type ii (Agg. transport to be paid separately) [type Dwg No T/B/106-Rev 1]	Nr.	44,947.00
ST-109	Construction of RCC grade 25(19mm) end pillaster, type iii (Agg. transport to be paid separately) [Type Dwg No T/B/106-Rev 1]	Nr.	25,944.00
ST-110	Construction of RCC grade 25(19mm) end pillaster, type iv (Agg. transport to be paid separately) [Type Dwg No T/B/106-Rev 1]	Nr.	27,816.00
ST-111	Laying of grade 20 concrete precast pin kerbs in grade 20(19) concrete foundation as edging (Aggregate transport to be paid separately)	L.m	747.00
ST-112	Supplying and fixing 25mm thick tong and grooved planks with 50x50mm struts of Class 1 timber in panels as smooth shuttering for concrete Drains	Sq.m	1,159.00
ST-112A	Supplying and fixing 25mm thick tong and grooved planks with 50x50mm struts of class 1 timber in panels as smooth shuttering for concrete Drains(for 13.38 sq.m)	Use	7,260.00
ST-113	Supply and packing 50-200 mm Dry stone lining behind abutments and wind walls (Aggregate transport to pay separately)	Cu.m	2,661.00
ST-114	Laying geotextile on prepared surface supply and transport to pay separately	Sq.m	58.00

Item No.	Description	Unit	Rate
ST-115	Construction of gabion wall using 4x1x1m mesh including lacing wire on prepared ground.(supply and transport of gabion mesh to be paid separately);	Cu.m	4,968.00
ST-116	Construction of gabion wall using 4x1x0.5 m mesh including lacing wire on prepared ground (Supply and transport of gabion mesh to be paid separately)	Cu.m	5,404.00
ST-117	Construction of kerb inlet as per Drawing type - k1/t1 with cover slabs. aggregate transport to pay separately	L.m	9,660.00
	EARTH EXCAVATION TO BE CONSIDERED BY THE ENGINEER AS PER SITE CONDITION AND ADD SEPERATELY IF REQUIRED.		
	ITEM RESERVED FOR BRIDGE WORKS ONLY		
	THE RATES IN THE FOLLOWING ITEMS FROM ST1-118 TO ST1-120 SHOULD BE ADDED TO THE CONCRETE RATE SELECTED FROM ITEM CODES ST1-038 TO ST1-050 , DEPENDING ON THE STRUCTURAL LOCATION.		
ST-118	Additional labour for pouring, compacting and levelling concrete in screed under foundation slabs	Cu.m	798.00
ST-119	Additional labour for pouring, compacting concrete in abutments , wing walls, capping beams of piers and foot walks of bridges	Cu.m	220.00
ST-120	Additional labour for pouring, compacting and levelling infiller concrete between bridge beams including ccreed of bridge Decks.	Cu.m	1,147.00
ST-121	Laying ready mixed grade concrete including vibration * (suppl;y of concrete to be paid seperately)	Cu.m	1,718.00
ST-122	Supplying and laying approved hard Rubber bearing pads 75mm x 12mm over capping beams and under the approach slabs	L.m	1,697.00
ST-123	Bitumenous sealing material supplied and laid under beam ends to prevent grout leak on to capping beam. transport of emulsion not included. (including cost of emulsion)	L.m	136.00
ST-124	230mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	42.00
ST-125	230mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	73.00
ST-126	325mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	116.00
ST-127	PCC beams 16.15m long launched into position	Nr.	17,343.00
ST-128	PCC beams 13.41m and 12.19m long launched into position	Nr.	12,498.00

Item No.	Description	Unit	Rate
ST-129	PCC beams 10.67m, 9.75m and 8.23m long launched into position	Nr.	9,237.00
ST-130	PCC beams 7.01m, 6.09m, 5.18m and 4.26m long launched into position	Nr.	7,069.00
ST-131	M.S. angle iron and hard rubber expansion joints as per Drawing No T/B/107 Rev. 1	L.m	7,691.00
ST-132	Transport of 355 X 355 X 9144 mm R.C. sheet piles to the site excluding unloading and stacking	Nr/km	88.00
ST-133	Stacking of 355 X 355 X 9144 mm R.C. sheet piles	Nr.	5,347.00
ST-134	Transport of 305 X 200 X 6100 mm R.C. sheet piles to the site excluding unloading and stacking	Nr/km	31.00
ST-135	Stacking of 305 X 355 X 6100 mm R.C. sheet piles	Nr.	2,559.00
ST-136	Driving 305 X 200 X 6100 mm R.C. sheet piles using hand monkey	L.m	7,514.00
ST-137	Saturated sand filling	Cu.m	5,111.00
ST-138	Stacking of P.S.C. beam 16.15m (53 inch) long	Nr.	10,694.00
ST-139	Transport of PSC Beams 16.15m(53inch)long to the site	per beam/km	175.00
ST-140	Stacking of P.S.C. beam 13.41m (44 inch) and 12.19m (40 inch) long	Nr.	7,678.00
ST-141	Transport of PSC Beams 13.41m(44inch) or 12.19m (40inch)long to the site	per beam/km	117.00
ST-142	Stacking of P.S.C. beam 10.63m (35 inch) and 9.75m (32 inch) or 8.23m (27 inch) long	Nr.	5,759.00
ST-143	Transport of PSC Beams 10.63m(35inch) or 9.75m (32inch)or 8.23m(27inch)long to the site	per beam/km	88.00
ST-144	Stacking of P.S.C. beam 7.01m (23 inch) long	Nr.	3,839.00
ST-145	Transport of PSC Beams 7.01m(23inch) long to the site	per beam/km	58.00
ST-146	50mm thick cover slabs for service ducts in grade 25(20) concrete inclusive of light reinforcement	Sq.m	2,642.00
ST-147	100mm 0 type 400 PVC service duct supplying and fixing in Deck	L.m	763.00
ST-148	110mm 0 type 250 PVC rain water outlets supplying and fixed through deck	L.m	734.00
ST-149	50mm 0 type 400 PVC Drain pipes supplying and fixed through deck	L.m	453.00
ST-150	25mm 0 type 1000 PVC Drain pipes supplying and fixed through deck	L.m	310.00
	SECTION - XI		0.00
	<u>KM AND GUARD STONES</u>		0.00
RF1-001	White washing, Two coats to guide / guard stones	Nr.	67.00

Item No.	Description	Unit	Rate
RF1-002	Whitewashing Two coats k.m. stones inc. numbering & Tar skirting.	Nr.	701.00
RF1-003	Painting white back ground on parapets etc. & stencilling nos.	Nr.	263.00
RF1-004	Fixing guard stones in any soil	Nr.	206.00
RF1-005	Casting STD k.m. stones with R.C.C. [1:2:4(19 mm) & cement 282.5 kg/cu.m] including curing, for "A" and "B" class roads	Nr.	5,432.00
RF1-006	Casting STD k.m. stones with R.C.C. [1:2:4(19 mm) & cement 282.5 kg/cu.m] including curing, for "C" and "D" class roads	Nr.	3,613.00
RF1-007	Fixing standard type k.m. stones in any soil	Nr.	1,528.00
RF1-008	Fixing new or refixing type guard stones in cement concrete [1:3:6(37.5mm) and cement 219 kg/cu.m] with min. cover 75mmx 300 mm Deph	Nr.	751.00
RF1-009	Casting standard type guard stones in concrete [1:2:4(19mm) & cement 282.5 kg / cu.m]	Nr.	1,878.00
RF1-009A	Casting standard type guard stones in concrete grade 20(19) as per drawing no. T/B/100-REV.1 for bridges and culverts	Nr.	2,570.00
RF1-010	Route numbering with reflective paint on 2 sides	Nr.	503.00
RF1-011	Casting standard boundary markers in reinforced concrete [1:2:4(19mm)] with admixtures, including 14 days curing and loading to vehicle at yard(Agg. transport paid separately)	Nr.	1,591.00
NOTE	19MM AGGREGATE PER BOUNDARY MARKER IS 0.039 CU.M.		
	<u>SECTION - XII</u>		
	<u>NOTICE AND SIGN BOARDS</u>		
	(SSCM 810.2 AND 1501.3) (ALL PAINTS SHOULD CONFORM TO THE REQUIREMENTS OF S.L.S. AS GIVEN IN SSCM 1707)		
RS1-001	Notice and traffic signs boards etc. fixed in concrete [1:3:6] 37.5mm and cement 219 kg/cu.m (excluding transport of aggregate)	Nr.	1,361.00
RS1-001A	Warning and Regulatory traffic signs etc. fixed in place using concrete [1:3:6] 37.5mm and cement 219 kg/cu.m. Complete including all labour, materials and plant.	Nr.	3,268.00
RS1-002	Cleaning and White washing 2coat town name boards(inc Tar Skirt)	Nr.	393.00
RS1-003	Cleaning, painting one coat & relettering etc.traffic sign boards inc. paint post in B/W	Nr.	1,792.00
RS1-004	Cleaning and painting 1 coat on notice board	Sq.m	306.00
RS1-005	lettering & numbering below 50 mm	Nr.	42.00

Item No.	Description	Unit	Rate
RS1-006	Lettering and numbering 50mm-75mm	Nr.	51.00
RS1-007	lettering & numbering 75 mm - 150 mm	Nr.	64.00
RS1-008	lettering & numbering 150 mm - 225 mm	Nr.	85.00
RS1-009	Painting 2 coats continuous centre line,100 mm wide with enamel paint	L.m	123.00
RS1-010	Painting 1 coats continuous centre line,100 mm wide with road marking paint (White)	L.m	128.00
RS1-011	Painting 2 coats broken centre line,100 mm wide with enamel paint	L.m	116.00
RS1-012	Painting 1 coats continuous centre line (Without reflective studs),100 mm wide, at 3 metre intervals with road marking paint (White)	L.m	121.00
RS1-013	Barricading with empty (Hot tar) barrels including white washing, transporting and cost of barrels	Nr.	257.00
RS1-014	Revetment to banks etc. with empty barrels in horizontal tiers with vertical batter(1:8) including transport of barrels	Nr.	625.00
RS1-015	Road marking continuous centre line 100 mm width, using thermoplastic paint (White) , inclusive barricading.(Paint materials & reflective glass beads to pay separately)	Sq.m	309.00
NOTE	1 KG OF THERMO PLASTIC PAINT COVERS 0.28 SQ.M. AREA AT 1.5MM THICKNESS 25KG OF GLASS BEADS WILL COVER 100 SQ.M. AREA		
RS1-016	Road marking standard pedestrian crossing, using thermoplastic paint (White) , inclusive barricading.(Paint materials & reflective glass beads to pay separately)	L.m	682.00
NOTE	1 KG OF THERMO PLASTIC PAINT COVERS 0.28 SQ.M. AREA AT 1.5MM THICKNESS 25KG OF GLASS BEADS WILL COVER 100 SQ.M. AREA		0.00
	<u>SECTION - XIII</u>		0.00
	<u>MISCELLANEOUS</u>		0.00
MS1-001	Preparing stock piling premix using pen, Grade bitumen (Excl. transport of aggregate)(Site made) (including cost of bitumen)	Cu.m	14,030.00
MS1-002	Patching shallow pot holes. Depth less 20mm using hot bitumen 1.2ltr/sq.m & 12.5mm chips single size @ 13.75 codec m/sq.m include. hand tamping rat. including cost of bitumen & including cost of mater.)(Excl. transpt. of aggregate)	Sq.m	209.00
MS1-003	Patching shallow potholes, Depth less than 20mm using 10-20% cutback 80/100bitumen 1.2ltr/sq.m and 12.5mm chips, single size at the rate of 13.75 cuDeci m/sq.m including hand tamping(rate includes cost of bitumen and materials)(excl. transport of aggregate and bitumen	Sq.m	227.00

Item No.	Description	Unit	Rate
MS1-003B	Patching shallow potholes, Depth less than 20mm using 10-20% cutback bitumen 1.2ltr/sq.m and 12.5mm chips, single size at 13.75 cuDeci m/sq.m including hand tamping(incl. Tr. agg,bitumen)	Sq.m	0.00
MS1-003A	Patching shallow potholes, part 1 of item no MS-003 (including cost of bitumen)	litre	84.00
MS1-004	Patching shallow pot holes,depth less than 20mm using emulsion (crs1) @ 1.2ltr/sq.m & 12.5mm cu.deci m/sqm includig hand tamping transport of emulsion to site etc. rate includes cost of emulsion and incl other materials)(incl. transprt of aggregate)	Sq.m	0.00
MS1-004	Patching shallow pot holes,depth less than 20mm using emulsion (crs1) @the rate of 1.2ltr/sq.m & 12.5mm chips single size at the rate of 13.75 cu.deci m/sqm includig hand tamping transport of emulsion to site etc. rate includes cost of emulsion and incl other materials)(excl. transprt of aggregate)	Sq.m	202.00
MS1-005	Patching potholes, of medium Depth 20-75mm with premix using 10-20% cutback bitumen .rate include preparation of surface tack coat .75ltr/Sqm,laying and tamping.	Sq.m	0.00
MS1-005	Patching potholes, of medium Depth 20-75mm with premix material (site made) using cut back 80/100 bitumen 10-20% @ the rate of 83.5lit per cu.m of 19mm and down gauge stone aggregate, including preparation of surface tack coat with emulsion(CSS1) at .75ltr/Sqm,trimming sides,laying premix and tamping.(rate inclusive of premix made at site & tack coat)(excl. transport of aggregate)	Sq.m	1,595.00
MS1-005A	Patching pot holes of medium ,depth of 20-75mm - part 1 of the item MS-005	Sq.m	186.00
MS1-005B	Patching pot holes of medium ,depth of 20-75mm - part 2 of the item MS-005 (Exclude cost of emulsion)	Sq.m	415.00
MS1-005C	Patching potholes of medium Depth - part 3 of item MS-005	Cu.m	14,835.00
MS1-006	Patching potholes using plant made premix bound including sealing the patching with emulsion (CRS-1) painting @ 7.3 ltr/m.ton cover with sand (Transport of premix paid separately) (include cost of emulsion)	M.ton	10,256.00
MS1-007	Patching potholes of medium Depth 20-75mm using graded aggregate 19 12.5mm with hot bitumen 1.75 ltr/sq.m and blot. material at 1 cu.m/125 sq.m andf .75ltr/sq.m tack coat(CSS-1) (Excluding cost of emulsion & bitumen)	Sq.m	949.00
MS1-008	Patching Deep pot holes deeper than 75 mm with c/b premix material (site made) to a depth of 37.5 mm using 10-20% cut back bitumen at the rate of 83.5 ltr/cu.m of 19 mm .75 ltr/sq.m	Sq.m	905.00
MS1-009	patching pot hols more then 75mm deep with water bound gravel material using 50mm or 12.5 mm single size aggregate along with useable old aggregate obtain from picking and preparation of surface inc. laying watering spreading gravel of approved quality	Sq.m	55.00

Item No.	Description	Unit	Rate
MS1-010	Patching ruts and Depressions upto 75mm Depth using site made cold mix(Cut back) material with the surface and edge prepared as per specifications .75ltr/sq.m tack coat (include cost of emulsion)	Sq.m	1,433.00
MS1-010A	Patching ruts and Depressions part 1 of item MS-010	Sq.m	24.00
MS1-011	Patching ruts and Depressions upto 75mm Depth using plant made cold mix(cut back) material with .75ltr/sq.m tack coat(CSS-1)(premix paid separately) (including cost of emulsion)	Sq.m	1,202.00
MS1-012	Patching ruts and Depressions upto 75mm Deep with .75ltr/sq.m tack coat(CSS-1) 50mm Down aggregate, hot bitumen applied at 1.75ltr/sq.m, blotting material at 1 cu.m/125 sq.m(Agg. paid separately) (including cost of emulsion & bitumen)	Sq.m	1,211.00
MS1-012C	Patching ruts and Depressions Deeper than 75mm - part C of item MS-012	Sq.m	3,726.00
MS1-013	Patching ruts and Depressions upto 75mm Deep with .75ltr/sq.m tack coat(CSS-1) 50mm Down aggregate, hot bitumen applid at 1.75ltr/sq.m, blotting material at 1 cu.m/125 sq.m(agg. paid separately) including cost of emulsion & bitumen)	Sq.m	907.00
MS1-014	Patching ruts and Depressions Deeper than 75mm with .75ltr/sq.m tack coat(CSS-1) 50mm Down aggregate, hot bitumen applid at 1.75ltr/sq.m, blotting material at 1 cu.m/125 sq.m(Agg. paid separately)	Sq.m	1,030.00
MS1-015	Correcting and strengthening edges of the road by cold mix 40mm thick, cutback 10-20%, at the rate of 83.5ltr/cu.m on 19mm down aggregate, over 50mm down aggregate, tack coat .75 ltr/sq.m(CSS 1) (including cost of emulsion)	Sq.m	1,485.00
MS1-015B	Correcting and strengthening the edges of road by cold mix - part B of the item MS1-015	Cu.m	3,735.00
MS1-016	Correcting & strengthening edges of road by cutback(10-20%) cold mix 40mm thick with 83.5ltr/cu.m 19mm Down aggregate .75ltr/sq.m tack coat(CSS-1) over 50 mm down over Closely packed 100mm agg. with excav. width 225mm, depth 225mm (inc.emul & bitumen)	Sq.m	1,734.00
MS1-016B	Correcting and strengthening edges part B of the item MS-016	Cu.m	1,581.00
MS1-017	Patch sealing with emulsion painting the surface by spray of crs-1 @ .75ltr/sq.m squeegeing the emulsion and spreading the blotting material (Sand) at the rate of 1 cu.m/125 sq.m . (including cost of emulsion)	Sq.m	119.00
MS1-018	Patch sealing with hot bitumen painting the surface by using .75ltr/sq.m squeegeing the bitumen and spreading the blotting material (Sand) at the rate of 1 cu.m/125 sq.m (Transport of bitumen paid separately) (including cost of bitumen)	Sq.m	123.00
MS1-019	Patch sealing of pitted surface, using hot sand bitumen mix 104 ltr/cu.m of sand spread and tamped including brushing and cleaning of surface.(including cost of bitumen)	Sq.m	290.00

Item No.	Description	Unit	Rate
MS1-019A	Patch sealing of pitted surface, part A of item MS-019 (including cost of bitumen)	Sq.m	16,095.00
MS1-019B	Patch sealing of pitted surface, part B of item MS-019A	Sq.m	49.00
MS1-020	Patch sealing of pitted surface, using emulsion sand slurry.	Sq.m	290.00
MS1-020A	Patch sealing of pitted surface with sand emulsion slurry, part A of item MS-020A (Including cost of emulsion)	Sq.m	12,686.00
MS1-020B	Patch sealing of pitted surface, using emulsion sand slurry, part B of item MS-020A	Sq.m	43.00
MS1-021	General upkeep of road sides including maintaining the right of way in a neat condition by trimming, weeding & clearing of the road sides, Drains, Drainage structures, scupper Drains & cleaning minor slips	Sq.m	28.00
MS1-022	Cleaning ordinary jungle including removing high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed (SSCM 1203.2)	Sq.m	3.00
MS1-023	Cleaning medium jungle including removing high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed	Sq.m	5.00
MS1-024	Cleaning heavy jungle including removing all high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed	Sq.m	6.00
MS1-025	Repairs to Damage of shoulders verges & embkments slopes incl making good depressions,ruts,holes & erosion path with apprved gravelly soil & compact same with roller(8-10 ton)as Directed(gravel soil paid seprtly if brought outside (including roller hire)	Cu.m	558.00
MS1-026	Regrade & regravellig of shoulders with gravel of approved quality , duly compacted with roller (8-10 ton) as directed for repairing high sides caused by heavings deposits and construction debries, to required levels by using motor grader (120-140hp).	Cu.m	350.00
MS1-027	Regrade and regravel of shoulders with gravel of approved quality , duly compacted with roller (8-10 ton) as directed for repairing high side caused by heavng deposit & constructon debrie, to required level manly gravel(loose volume.	Cu.m	620.00
MS1-028	Replacing Damaged crack concrete slabs with precast/cast insitu cement concrete 1:2:4 (19 mm) using 19 mm & down guage stone minimum thickness 50 mm including fixing laying with cement mortar 1:3 joints over compacted bed etc.[SSCM 1204.3]	Sq.m	2,076.00

Item No.	Description	Unit	Rate
MS1-029	Cutting and removing fallen trees upto 600 mm girth including cutting into required number of pieces including Disposal as Directed. minimum piece shall not be less than 2m(SSCM 1203.2)	Nr.	721.00
MS1-030	Cutting and removing fallen trees 600 - 900 mm girth including cutting into required number of pieces including Disposal as Directed. minimum piece shall not be less than 2m(SSCM 1203.2)	Nr.	1,030.00
MS1-031	Weeding masonry culverts small bridges and retaining walls (SSCM 1303.3)	Nr.	178.00
MS1-032	Masonry random rubble with boulders including collect (SSCM 1006.3(b))	Cu.m	1,279.00
MS1-033	Fixing cats eyes in tar macadam including breaking road surface, barricade etc.[SSCM 810-.3(c)]	Nr.	370.00
MS1-034	Reducing high sides in ordinary soil [SSCM 301.3/1201.3(c)]	Cu.m	631.00
MS1-035	Reducing high sides in medium soil	Cu.m	923.00
MS1-036	Reducing high sides in hard soil	Cu.m	1,214.00
MS1-037	Reducing high sides in soft rock	Cu.m	1,505.00
MS1-038	Reducing high sides in rock requiring blasting	Cu.m	2,707.00
MS1-039	Reducing high sides in rock requiring blasting	Cu.m	43.00
MS1-040	White washing 2 coat to parapets of bridges and culverts	Sq.m	74.00
MS1-041	White washing 1 coat to parapets of bridges and culverts after cleaning attending to minor repairs	Sq.m	56.00
MS1-042	White washing 2 cote to parapets of bridges and culverts after cleaning attending to minor repairs	Sq.m	87.00
MS1-043	Painting with emulsion 1 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	177.00
MS1-044	Painting with enamel 1 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	186.00
MS1-045	Painting with enamel 2 coats to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	311.00
MS1-046	Painting with emulsion 2 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	305.00
MS1-047	Painting with emulsion 1 coat to parapets of bridges and culverts, guard stones and km posts including preparing surface of old work [SSCM 1501.3(b)-(v)]	Sq.m	165.00
MS1-048	Painting sub coat emulsion to parapets of bridges and culverts, guard stones and km posts including preparing surface [SCM 1501.3(b)-(v)]	Sq.m	144.00

Item No.	Description	Unit	Rate
MS1-049	Painting 1 coat emulsion paint to parapets of bridges and culverts, guard stones and km posts including preparing surface of new work [SSCM 1501.3(b)-(v)]	Sq.m	153.00
MS1-050	Cleaning & painting 100 mm wide stripe for skirting to guard stones.(SSCM 1501.3(b)(v)) :	L.m	84.00
MS1-051	Painting 2 coats standard pedestrian crossing for carriageway [SSCM 810.2(c)]	L.m	1,741.00
MS1-052	Painting 1 coat standard pedestrian crossing for carriageway using road marking paints [SSCM 810.2(c)]	Sq.m	1,858.00
MS1-053	Erecting, barricading in jungle timber 75-100 mm Dia, vertical posts at .9m centres and 1.2 above ground including white washing. [SSCM 1709]	L.m	333.00
MS1-054	Temporary scaffolding for painting or tarring bridges and for weeding on bridges or retaining wall including Dismantling after work. [SSCM 1008.3(a)]	Sq.m	125.00
MS1-055	Roughening existing Smooth tarred metalled carriageway by hand for bonding , collecting Disposal of all loose materials [SSCM 03.3(b)]	Sq.m	19.00
MS1-056	Supply of Diesel for machineries	litre	114.00
MS1-057	Patching road with premix(Loose volume) after prep, surface with emulsion (CSS-1) at .75 ltr/sq.m at tack coat including internal transport and hand stamping. (Supply of premix (Loose volume) paid separately) [SSCM 1102.3(b)] (including cost of emulsion)	Cu.m	5,980.00
MS1-058	Patching road with premix after preparing surface with emulsion (CSS-1) at .75 ltr/sq.m as tack coat, including internal transport and stamping with machine (Supply of premix paid separately) [SSCM 1102.3(b)(i)] (including cost of emulsion)	M.ton	5,957.00
MS1-059	Painting two coats enamel paint on kerbs, after cleaning and preparing surface	Sq.m	346.00
MS1-060	Preparing and stock piling premix at site using 12.5 mm aggregate and emulsion (CSS-1) (Excluding transport of aggregate) :(including cost of emulsion)	Cu.m	12,292.00
MS1-061	Breaking manually asphalt layer 2"-3" thick on the carriageway for kerb laying	L.m	454.00
MS1-062	Supplying and fixing of 1/2" thick regiform sheets as directed by Engineer	Sq.m	300.00
MS1-063	Supplying and fixing of Gauge 700 polythene sheet as directed by Engineer	kg	275.00
MS1-064	Curing of Concrete for Road Surfaces	Sq.m/day	5.00
SSR	Asphalt Concrete wearing course binder 60/70 bitumen 4.7% Mix-Dense (19mm) Ex-plant	M.ton	6,475.00
SSR	Asphalt concrete binder course binder bitumen 4.1% MIX-dense [19mm] - Ex-plant	M.ton	6,245.00
	<u>Paving Blocks</u>		

Item No.	Description	Unit	Rate
	<u>Natural Colour Blocks</u>		
MS1-065	Supply & paving 80mm thick Rectangular(Approx. size 210mm x 110mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,818.00
MS1-066	Supply & paving 80mm thick Rectangular (Approx. size 210mm x 110mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,415.00
MS1-067	Supply & paving 60mm thick Rectangular (Approx. size 210mm x 110mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,150.00
MS1-068	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	3,343.00
MS1-069	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	3,099.00
MS1-070	Supply & paving 60mm thick Non-Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,516.00
	<u>Coloured Blocks</u>		

Item No.	Description	Unit	Rate
MS1-071	Supply & paving 80mm thick Rectangular (Approx. size 210mm x 110mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	3,271.00
MS1-072	Supply & paving 80mm thick Rectangular (Approx. size 210mm x 110mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,793.00
MS1-073	Supply & paving 60mm thick Rectangular (Approx. size 210mm x 110mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,466.00
MS1-074	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	4,048.00
MS1-075	Supply & paving 80mm thick Non-Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	3,190.00
MS1-076	Supply & paving 60mm thick Non-Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying.	Sq.m	2,915.00
	<u>SECTION - XIV</u>		
	<u>SURVEYING</u>		
SV1-001	Supply of unskilled labour	Days	1,608.00
SV1-002	Supply of semiskilled labour	Days	1,692.00

Item No.	Description	Unit	Rate
SV1-003	Supply of skilled "A" Grade labour	Days	1,868.00
SV1-004	Supply of skilled "B" Grade labour	Days	1,752.00
SV1-005	Clearing jungle (Light) to a width of 1.22 metres for survey work	km	6,142.00
SV1-006	Clearing jungle (Medium) to a width of 1.22 metres for survey work	km	8,190.00
SV1-007	Clearing jungle (Heavy) to a width of 1.22 metres for survey work	km	12,285.00
SV1-008	Supply of labour for chaining and cutting Pages and Pegging	km	1,616.00
SV1-009	Levelling Chaining and Pegging and establish bench marks on Concrete rock or pegs and Checking back levels	km	3,232.00
SV1-010	Surveying includign fixing pickets & taking angles	km	3,232.00
SV1-011	Changing traverse lines and taking off-sets	km	4,309.00
SSR	Asphalt Concrete wearing course binder 60/70 bitumen 4.7% Mix-Dense (19mm) Ex-plant	M.ton	6,475.00
SSR	Asphalt concrete binder course binder 60/70 bitumen 4.1% MIX-dense [19mm] - Ex-plant	M.ton	6,245.00