SCHEDULE OF RATES - 2026

BUILDING, IRRIGATION, ROAD WORKS AND MATERIAL TESTING

NORTHERN PROVINCE

Office of the Deputy Chief Secretary

Engineering Services

Northern Province

Jaffna

RATES FOR
ROAD WORKS

7. RATES FOR ROAD WORKS
7.1 GENERAL SPECIFICATIONS FOR ROAD WORKS

- Standard Specification for Construction and Maintenance of Roads and Bridges (SSCM). ICTAD publication No. SCA/5 second edition June 2009

7.2 Section I – H.S.R. – Schedule of Prices

New Code	Description of Item	Unit	Basic Rate (Rs)				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
7.2.1. Hire Charges (Wet lease basic - including operator)							
B0-101	Tar Boiler (Heating with Firewood) (Less Operator) *	Day (6hrs)	100.00	100.00	100.00	100.00	100.00
B0-102	Concrete / Asphalt Mixer (400 Ltrs)	Day (6hrs)	7,450.00	7,450.00	7,450.00	7,450.00	7,450.00
B0-103	Bitumen Sprayer (Less Operator) *	Day (6hrs)	110.00	110.00	110.00	110.00	110.00
B0-104	Water Tank + 50 mm. Pumb (Less Operator) *	Day (6hrs)	3,659.00	3,659.00	3,659.00	3,659.00	3,659.00
B0-105	Welding Plant Engine Driven: With Welder	Day (6hrs)	18,123.00	18,123.00	18,123.00	18,123.00	18,123.00
B0-106	Porker Vibrater (Less Operator) *	Day (6hrs)	2,129.00	2,129.00	2,129.00	2,129.00	2,129.00
B0-107	Plate Compactor (90 Kg) (Less Operator) *	Day (6hrs)	4,191.00	4,191.00	4,191.00	4,191.00	4,191.00
B0-108	Vibrating Rammer (60 Kg) (Less Operator) *	Day (6hrs)	4,090.00	4,090.00	4,090.00	4,090.00	4,090.00
B0-109	Vibrating Roller (1/2 - 1 Ton)	Day (6hrs)	9,608.00	9,608.00	9,608.00	9,608.00	9,608.00
B0-110	Vibrating Roller (Smooth - 10 Tons)	Day (6hrs)	43,750.00	43,750.00	43,750.00	43,750.00	43,750.00
B0-111	Smooth / Road Roller (8 - 10 Tons : Static)	Day (6hrs)	23,000.00	23,000.00	23,000.00	23,000.00	23,000.00
B0-112	Pneumatic Road Roller (8 - 10 Tons)	Hour	7,599.00	7,599.00	7,599.00	7,599.00	7,599.00
B0-112-A	Vibrating Roller (0.75 - 1.25 Ton)	Day	15,790.00	15,790.00	15,790.00	15,790.00	15,790.00
B0-113	Motor Grader (65 Hp)	Day (6hrs)	31,367.00	31,367.00	31,367.00	31,367.00	31,367.00
B0-114	Motor Grader (120 - 140 Hp)	Day (6hrs)	53,190.00	53,190.00	53,190.00	53,190.00	53,190.00
B0-115	Backhoe Loader (Jcb)	Day (6hrs)	30,200.00	30,200.00	30,200.00	30,200.00	30,200.00
B0-116	Whell Loader (1.4 Cu.M)	Day (6hrs)	37,489.00	37,489.00	37,489.00	37,489.00	37,489.00

New Code	Description of Item	Unit	Basic Rate (Rs)				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
B0-116a	Wheel loader (1.7 Cu.m)	Day (6hrs)	38,551.00	38,551.00	38,551.00	38,551.00	38,551.00
B0-117	Tractor & Trailer (3 ton:)	Day (6hrs)	10,500.00	10,500.00	10,500.00	10,500.00	10,500.00
B0-118	Lorry / Tipper / Dt (Exceeding 10 km)	km/ Cu.m	43.00	43.00	43.00	43.00	43.00
B0-119	-Do - (For less than 10 km. distances)	km/ Cu.m	45.00	45.00	45.00	45.00	45.00
B0-120	Transport of premix by dump truck **	km/M. Tonne	35.00	35.00	35.00	35.00	35.00
B0-121	Sand / Chip spreader - propelled	Day (6hrs)	50,217.03	50,217.03	50,217.03	50,217.03	50,217.03
B0-121a	Sand / Chip spreader - towed	Day (6hrs)	4,028.00	4,028.00	4,028.00	4,028.00	4,028.00
B0-122	Farm tractor & broom	Day (6hrs)	12,000.00	12,000.00	12,000.00	12,000.00	12,000.00
B0-123	Emulsion sprayer self-prop. (4000 litres)	Day (6hrs)	34,241.00	34,241.00	34,241.00	34,241.00	34,241.00
B0-124	Wheel loader (2.7 - 3.1 Cu.m)	Day (6hrs)	51,200.00	51,200.00	51,200.00	51,200.00	51,200.00
B0-124a	Wheel loader (2.0 - 2.3 Cu.m)	Day (6hrs)	41,738.00	41,738.00	41,738.00	41,738.00	41,738.00
B0-125	Lorry 3 Ton (2.5 Cu.m)	km	120.00	120.00	120.00	120.00	120.00
B0-126	Lorry 5 Ton (3.5 Cu.m)	km	150.00	150.00	150.00	150.00	150.00
B0-127	Lorry 7 Ton (4.5 Cu.m)	km	170.00	170.00	170.00	170.00	170.00
B0-128	Water bowser (6000 litres)	Day (6hrs)	22,500.00	22,500.00	22,500.00	22,500.00	22,500.00
B0-129	Asphalt paver (Crawler)	Hour	12,115.00	12,115.00	12,115.00	12,115.00	12,115.00
B0-129a	Asphalt paver (Wheel)	Hour	11,830.00	11,830.00	11,830.00	11,830.00	11,830.00
B0-130	Tanker only (20,000 litres)	Hour	233.00	233.00	233.00	233.00	233.00
B0-131	Prime mover old (For 20,000 L Tanker)	Hour	10,689.00	10,689.00	10,689.00	10,689.00	10,689.00
B0-131a	Prime mover new (For 30 T Trailer)	Hour	10,689.00	10,689.00	10,689.00	10,689.00	10,689.00

New Code	Description of Item	Unit	Basic Rate (Rs)				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
B0-132	Baby dumper .75 Cu.m (Less operator)	Hour	2,213.00	2,213.00	2,213.00	2,213.00	2,213.00
B0-133	Water pump 4" (With operator)	Hour	2,130.00	2,130.00	2,130.00	2,130.00	2,130.00
B0-133a	Water pump 2" (Less operator)	Hour	871.00	871.00	871.00	871.00	871.00
B0-134	Sludge pump 4" (With operator)	Hour	3,054.00	3,054.00	3,054.00	3,054.00	3,054.00
B0-135	Vibrating roller (6 - 7 Tons) tandem	Hour	4,100.00	4,100.00	4,100.00	4,100.00	4,100.00
B0-136	Concrete mixer with load cell weigh batcher 14/10	Day (6hrs)	13,415.00	13,415.00	13,415.00	13,415.00	13,415.00
B0-137	Trolley emulsion (Less operator)	Hour	102.00	102.00	102.00	102.00	102.00
B0-138	Sprayer emulsion hand cart	Hour	1,379.00	1,379.00	1,379.00	1,379.00	1,379.00
B0-139	Road marker hand cart gas heater	Hour	3,200.00	3,200.00	3,200.00	3,200.00	3,200.00
B0-140	Bitumen distributor 750 litres	Hour	2,657.00	2,657.00	2,657.00	2,657.00	2,657.00
B0-141	Tank truck bitumen 10,000 ltr	Hour	6,043.00	6,043.00	6,043.00	6,043.00	6,043.00
B0-142	Stone crusher 40 t/h	Hour	20,086.00	20,086.00	20,086.00	20,086.00	20,086.00
B0-143	Track drill crawler	Hour	2,712.00	2,712.00	2,712.00	2,712.00	2,712.00
B0-144	Compressor air 750 cfm	Hour	11,736.00	11,736.00	11,736.00	11,736.00	11,736.00
B0-145	Slurry sealing machine	Hour	19,098.00	19,098.00	19,098.00	19,098.00	19,098.00
B0-146	Mobile crane 25 ton	Day (8hrs)	11,587.00	11,587.00	11,587.00	11,587.00	11,587.00
B0-146 a	Mobile crane 30 ton - wet	Day (8hrs)	15,044.00	15,044.00	15,044.00	15,044.00	15,044.00
B0-147	Asphalt plant 60t/h hot mix	Hour	21,889.00	21,889.00	21,889.00	21,889.00	21,889.00
B0-147 A	Cold mix plant 30t/h	Hour	18,596.00	18,596.00	18,596.00	18,596.00	18,596.00
B0-148	Cold mix plant 15t/h **ITEM DELETED**	Hour	240.00	240.00	240.00	240.00	2,657.00

New Code	Description of Item	Unit	Basic Rate (Rs)				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
B0-149	Pickup truck 2wd **ITEM DELETED**	km	-	-	-	-	-
B0-150	Farm tractor with water bowser	Hour	1,865.00	1,865.00	1,865.00	1,865.00	1,865.00
B0-151	Lorry 17 ton self-loading (Wet)	km	340.00	340.00	340.00	340.00	340.00
B0-151 A	Lorry 17 ton self-loading, with 10 ton crane-boom truck (wet)	Hour	5,200.00	5,200.00	5,200.00	5,200.00	5,200.00
B0-152	Tractor with emulsion bowser	Hour	1,865.00	1,865.00	1,865.00	1,865.00	1,865.00
B0-153	Emulsion tank truck (8000 litres)	km	254.00	254.00	254.00	254.00	254.00
B0-154	Dozer (Crawler tractor) D-4, D-41(80 - 100 HP)	Hour	9,500.00	9,500.00	9,500.00	9,500.00	9,500.00
B0-155	Excavator mobile	Hour	10,750.00	10,750.00	10,750.00	10,750.00	10,750.00
B0-156	Air compressor 250 cfm	Hour	7,474.00	7,474.00	7,474.00	7,474.00	7,474.00
B0-157	Hand held breaker (Demolisher) less operator	Day	701.00	701.00	701.00	701.00	701.00
B0-158	Rock drill hand held (less drill steel)	Hour	702.00	702.00	702.00	702.00	702.00
B0-159	Truck snooper 750 kg (sky lift)	Hour	5,862.00	5,862.00	5,862.00	5,862.00	5,862.00
B0-160	Chainsaw (Less Operator dry release)	Day	3,500.00	3,500.00	3,500.00	3,500.00	3,500.00
B0-161	Chainsaw (Less Operator)	Day	7,000.00	7,000.00	7,000.00	7,000.00	7,000.00
B0-162	Asphalt cutter (With Cutting Blade)	Hour	3750.00	3750.00	3750.00	3750.00	3750.00
Supply of soil from borrow pits including loading and transport. (For quantities more than 300 Cu.m.)							
B0-201	Approved soil type I & II for bases & shoulders	Cu.m	5,300.00	3,357.00	3,004.00	2,297.00	3,537.00
B0-202	Approved soil type I & II for embankments	Cu.m	4,947.00	3,004.00	2,651.00	1,944.00	3,004.00

New Code	Description of Item	Unit	Basic Rate (Rs)				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
7.2.2. Construction Material Prices							
Aggregate & Rubble							
Note * Unit rates are scheduled to the main town of each district (No transport will be added to 10km from that town)							
B0-301	(150mm - 225mm) Rubble - (Vehicle measurement, Excluding piling)	Cu.m	6,537.00	5,300.00	4,594.00	3,534.00	4,594.00
B0-302	(150mm - 225mm) Rubble piled	Cu.m	7,135.00	5,814.00	5,210.00	4,150.00	5,210.00
Manual Production							
B0-303	(100mm) Aggregate	Cu.m	7,067.00	5,654.00	5,124.00	4,240.00	5,124.00
Plant Production							
B0-308a	(19mm) Aggregate	Cu.m	7,951.00	6,360.00	6,007.00	4,770.00	5,830.00
B0-309	(12.5mm) Aggregate	Cu.m	7,420.00	5,830.00	5,477.00	4,240.00	4,770.00
B0-310	(37.5mm) - Do -, (S.S.C.M. Tb : 1701-1 / 1701-4)	Cu.m	7,244.00	6,007.00	5,477.00	4,417.00	5,300.00
B0-311	(50mm) - Do -, (S.S.C.M. Tb : 1701-4)	Cu.m	7,244.00	5,830.00	5,300.00	4,417.00	5,300.00
B0-312	Crusher Fines (6.3mm. Down wards)	Cu.m	6,007.00	4,594.00	4,417.00	3,004.00	4,240.00
B0-313	(37.5mm) Graded (Table 1701.5 for ABC)	Cu.m	7,597.00	6,007.00	5,654.00	4,240.00	5,654.00
Aggregate for seal coat treatments							
(Grading as per SSCM table 1701-8)							
B0-314	Aggregate 19mm	Cu.m	8,251.00	6,660.00	6,307.00	5,070.00	6,130.00
B0-315	Aggregate 12.5mm	Cu.m	7,720.00	6,130.00	5,777.00	4,540.00	5,070.00
B0-316	Aggregate 9.5mm	Cu.m	7,720.00	6,130.00	5,777.00	4,540.00	5,070.00
Sand (Unit rates are scheduled to the main town of each district) (No transport will be added to 10km from that town)							
B0-331	River sand for road surface applications (SSCM table 1701-9)	Cu.m	13,074.00	6,360.00	8,357.00	8,481.00	6,714.00
B0-332	River sand for concrete and masonry work (SSCM table 1701-2)	Cu.m	13,074.00	6,360.00	8,357.00	8,481.00	6,714.00
Bitumen & Emulsion							
B0-351	Bitumen 80/100 [Drums]	l	560.00	560.00	560.00	560.00	560.00
B0-351a	Bitumen 60/70 [Drums]	l	560.00	560.00	560.00	560.00	560.00
B0-352	Emulsion - C.S.S. 1	l	441.00	441.00	441.00	441.00	441.00
B0-353	Emulsion - C.R.S. 1	l	424.00	424.00	424.00	424.00	424.00
B0-354	Emulsion - C.R.S. 2	l	424.00	424.00	424.00	424.00	424.00

B0-355	BITUMEN 80/100[BULK] (with De-cant cost)	kg	560.00	560.00	560.00	560.00	560.00
B0-355A	BITUMEN 60/70 [BULK] (with De- cant cost)	kg	560.00	560.00	560.00	560.00	560.00
Bo- 356	Cutback Bitumen MC- 30	l	600.00	600.00	600.00	600.00	600.00
Premixed Bituminous Materials (Transport Cost from Plant to the Laying Site to be Paid Separately)							
B0-361	Asphalt concrete: surfacing material - BINDER 60/70 BITUMEN @ 4.7% OF MIX	M.Ton	44,000.00	44,000.00	44,000.00	44,000.00	44,000.00
Timber & Firewood (Including transport cost)							
B0-391	Sawn timber class 1 (Local)	Cu.Deci.m	220.00	220.00	220.00	220.00	220.00
B0-392	Sawn timber class 2 (Local)	Cu.Deci.m	130.00	130.00	130.00	130.00	130.00
B0-393	Timber round jungle - 100mm minimum and 150mm average diameter	m	130.00	130.00	130.00	130.00	130.00
B0-394	Timber round jungle - 150mm minimum and 200mm average diameter	m	125.00	125.00	125.00	125.00	125.00
B0-395	Firewood	Cu.m	3,477.00	3,477.00	3,477.00	3,477.00	3,477.00
B0-396	Plywood (MR) for formwork - 15mm thick	Sq.m	1,647.00	1,647.00	1,647.00	1,647.00	1,647.00
B0-397	Bamboo tree length greater than 8 meters	No.	560.00	560.00	560.00	560.00	560.00
Cement (Including transport cost)							
B0-401	Portland cement (for all work)	Bag (50 kg)	1,950.00	1,950.00	1,950.00	1,950.00	1,950.00
Steel and steel items (Including transport cost)							
B0-411	Mild steel	kg	260.00	260.00	260.00	260.00	260.00
B0-411a	Tor steel	kg	260.00	260.00	260.00	260.00	260.00
B0-431	Binding wire	kg	360.00	360.00	360.00	360.00	360.00
B0-432	Wire nails, M.S.bolts & nuts	kg	300.00	300.00	300.00	300.00	300.00
B0-433	Stainless steel 20mm dia.(for dowels)	m	1,420.00	1,420.00	1,420.00	1,420.00	1,420.00
B0-434	GI Pipes,50mm diameter: heavy duty type	m	3,980.00	3,980.00	3,980.00	3,980.00	3,980.00
B0-435	M.S sheet,2mm thick	Sq.m	4,950.00	4,950.00	4,950.00	4,950.00	4,950.00
7.2.3. Precast Concrete Items							
Minimum Price –Transport to be added from the Casting Place							

Reinforced Concrete Pipes & Collars- Jaffna					
	Diameter - mm	**Length** - mm	**Unit**	**Pipe**	**Collar**
				A	**B**
B0-441	153 (6")	2438 (8')	01 No.	7,500.00	1,500.00
B0-442	229 (9")	2438 (8')	01 No.	10,000.00	1,750.00
B0-443	305 (12")	2438 (8')	01 No.	12,000.00	2,000.00
B0-444	450 (1' 6")	2438 (8')	01 No.	15,000.00	2,250.00
B0-445	610 (2' 0")	2438 (8')	01 No.	23,500.00	2,750.00
B0-446	914 (3' 0")	1219 (4')	01 No.	20,000.00	3,500.00
B0-447	1219 (4' 0")	1219 (4')	01 No.	37,500.00	4,500.00
Reinforced Concrete Pipes & Collars- Kilinochchi					
	Diameter - mm	Length - **mm**	**Unit**	**Pipe**	**Collar**
				A	**B**
B0-441	153 (6")	2438 (8')	01 No.	7,500.00	1,500.00
B0-442	229 (9")	2438 (8')	01 No.	10,000.00	1,750.00
B0-443	305 (12")	2438 (8')	01 No.	12,000.00	2,000.00
B0-444	450 (1' 6")	2438 (8')	01 No.	15,000.00	2,250.00
B0-445	610 (2' 0")	2438 (8')	01 No.	23,500.00	2,750.00
B0-446	914 (3' 0")	1219 (4')	01 No.	20,000.00	3,500.00
B0-447	1219 (4' 0")	1219 (4')	01 No.	37,500.00	4,500.00
Reinforced Concrete Pipes & Collars- Mullaitivu					
	Diameter - mm	Length - **mm**	**Unit**	**Pipe**	**Collar**
				A	**B**
B0-441	153 (6")	2438 (8')	01 No.	7,500.00	1,500.00
B0-442	229 (9")	2438 (8')	01 No.	10,000.00	1,750.00
B0-443	305 (12")	2438 (8')	01 No.	12,000.00	2,000.00
B0-444	450 (1' 6")	2438 (8')	01 No.	15,000.00	2,250.00
B0-445	610 (2' 0")	2438 (8')	01 No.	23,500.00	2,750.00
B0-446	914 (3' 0")	1219 (4')	01 No.	20,000.00	3,500.00
B0-447	1219 (4' 0")	1219 (4')	01 No.	37,500.00	4,500.00
Reinforced Concrete Pipes & Collars- Vavuniya					
	Diameter - mm	**Length** - mm	**Unit**	**Pipe**	**Collar**
				A	**B**
B0-441	153 (6")	2438 (8')	01 No.	7,500.00	1,500.00
B0-442	229 (9")	2438 (8')	01 No.	10,000.00	1,750.00
B0-443	305 (12")	2438 (8')	01 No.	12,000.00	2,000.00
B0-444	450 (1' 6")	2438 (8')	01 No.	15,000.00	2,250.00
B0-445	610 (2' 0")	2438 (8')	01 No.	23,500.00	2,750.00
B0-446	914 (3' 0")	1219 (4')	01 No.	20,000.00	3,500.00
B0-447	1219 (4' 0")	1219 (4')	01 No.	37,500.00	4,500.00
Reinforced Concrete Pipes & Collars- Mannar					
	Diameter - mm	**Length** - mm	**Unit**	**Pipe**	**Collar**
				A	**B**
B0-441	153 (6")	2438 (8')	01 No.	7,500.00	1,500.00
B0-442	229 (9")	2438 (8')	01 No.	10,000.00	1,750.00
B0-443	305 (12")	2438 (8')	01 No.	12,000.00	2,000.00
B0-444	450 (1' 6")	2438 (8')	01 No.	15,000.00	2,250.00
B0-445	610 (2' 0")	2438 (8')	01 No.	23,500.00	2,750.00
B0-446	914 (3' 0")	1219 (4')	01 No.	20,000.00	3,500.00
B0-447	1219 (4' 0")	1219 (4')	01 No.	37,500.00	4,500.00

Precast concrete items Transport to be added from the Casting Place							
B0-448	Std road kerb 125 X 250 X 900 G25 concrete	1 No.	1,550.00	1,550.00	1,550.00	1,550.00	1,550.00

B0-449	Paving slab 450 X 450 X 50 mm G20 concrete	1 No.	850.00	850.00	850.00	850.00	850.00
B0-450	Bridge kerb 915	1 No.	2,900.00	2,900.00	2,900.00	2,900.00	2,900.00
B0-451	Std. uprights for bridges (New design)	1 No.	3,700.00	3,700.00	3,700.00	3,700.00	3,700.00
B0-452	Std. hand rails for bridges (New design)	1 No.	3,500.00	3,500.00	3,500.00	3,500.00	3,500.00
B0-453	Couping pairs for hand rails	1 Pair	250.00	250.00	250.00	250.00	250.00
B0-454	Rain water channels 609mm long	1 No.	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
B0-455	Cement sand hollow block 16" X 8" X 4"	1 No.	65.00	65.00	65.00	65.00	65.00
B0-456	Facia slab 4' x 2'	1 No.	3,600.00	3,600.00	3,600.00	3,600.00	3,600.00
B0-457	Guard stone (standard)	1 No.	3,750.00	3,750.00	3,750.00	3,750.00	3,750.00
B0-458	Kilometre post (standard)	1 No.	9,250.00	9,250.00	9,250.00	9,250.00	9,250.00
B0-459	Boundary marker (standard)	1 No.	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00
B0-460	G25 Concrete Paving Block (220x110x80mm)	1 No.	70.00	70.00	70.00	70.00	70.00
B0-461	G40 Concrete Paving Block (220x110x80mm)	1 No.	80.00	80.00	80.00	80.00	80.00
7.2.4. Blasting Materials (Including transport cost)							
B0-501	Blasting powder	kg	2,050.00	2,050.00	2,050.00	2,050.00	2,050.00
B0-502	Fuse wire	m	70.00	70.00	70.00	70.00	70.00
B0-503	Steel, Jumper	kg	1,050.00	1,050.00	1,050.00	1,050.00	1,050.00
B0-504	Electric detonators	No	584.00	584.00	584.00	584.00	584.00
B0-505	Dyna cord	m	315.00	315.00	315.00	315.00	315.00
B0-506	Gelignite	kg	3,720.00	3,720.00	3,720.00	3,720.00	3,720.00
B0-507	Ammonium nitrate	kg	600.00	600.00	600.00	600.00	600.00
B0-508	Ordinary detonator	No	38.00	38.00	38.00	38.00	38.00
B0-509	Crackng powder	kg	135.00	135.00	135.00	135.00	135.00
7.2.5. Paints (Including transport cost)							
B0-531	Bituminous emulsion pain (Crs-2)	l	135.00	135.00	135.00	135.00	135.00
B0-534	Glue	kg	1,230.00	1,230.00	1,230.00	1,230.00	1,230.00
B0-537	Lime - Boiled	kg	35.00	35.00	35.00	35.00	35.00
B0-541	Enamel paint	l	1,350.00	1,350.00	1,350.00	1,350.00	1,350.00
B0-542	Paint - Anti corrosive	l	1,156.00	1,156.00	1,156.00	1,156.00	1,156.00
B0-544	Paint - Emulsion	l	1,050.00	1,050.00	1,050.00	1,050.00	1,050.00

B0-545	Rust remover	l	2,668.00	2,668.00	2,668.00	2,668.00	2,668.00
B0-546	Emulsion for exterior use (Weather shield)	l	1,200.00	1,200.00	1,200.00	1,200.00	1,200.00
B0-547	Road marking paint (Yellow)	l	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00
B0-548	Road marking paint (White)	l	1,900.00	1,900.00	1,900.00	1,900.00	1,900.00
7.2.6. Fuel, Oils & Lubricants							
B0-601	Industrial kerosene oil (Colombo)	l	285.00	285.00	285.00	285.00	285.00
B0-602	Mould Oil (Including transport)	l	120.00	120.00	120.00	120.00	120.00
B0-611	Lubricant (Oil)	l	1,540.00	1,540.00	1,540.00	1,540.00	1,540.00
B0-612	Auto diesel	l	382.00	382.00	382.00	382.00	382.00
B0-613	Petrol	l	414.00	414.00	414.00	414.00	414.00
B0-614	Furnace oil for burners	l	132.00	132.00	132.00	132.00	132.00
B0-615	Gas	kg	267.00	267.00	267.00	267.00	267.00
B0-616	Lubricant (Grease)	kg	2,600.00	2,600.00	2,600.00	2,600.00	2,600.00
7.2.7. Miscellaneous (Including transport cost)							
B0-631	Baskets	1 No.	300.00	300.00	300.00	300.00	300.00
B0-632	Gunny bags new (Large)	1 No.	85.00	85.00	85.00	85.00	85.00
B0-632a	Poly sacs (65kg capacity)	1 No.	63.00	63.00	63.00	63.00	60.00
B0-633	Cotton waste	kg	190.00	190.00	190.00	190.00	190.00
B0-634	Salt	kg	75.00	75.00	75.00	75.00	75.00
B0-635	Empty tar barrels (140 Ltrs)	No	91.00	91.00	91.00	91.00	90.00
B0-636	P.V.C. pipe 110 mm dia type 250 Pe (With trans.)	m	1,060.00	1,060.00	1,060.00	1,060.00	1,060.00
B0-636b	P.V.C. pipe 110 mm dia type 400 Pe (With trans.)	m	1,610.00	1,610.00	1,610.00	1,610.00	1,610.00
B0-637	P.V.C. pipe 50 mm dia type 400 (With trans.)	m	332.00	332.00	332.00	332.00	332.00
B0-638	Hard rubber 12mm thick X 75mm wide (With trans.)	m	2,700.00	2,700.00	2,700.00	2,700.00	2,700.00
B0-639	Polythene 325mm dia gauge 300 (approx. 13.5 meters/ kg) (tubular flat width app.505 mm, with trans.)	kg	620.00	620.00	620.00	620.00	620.00
B0-640	Aluminum sheet 24 Swg	Sq.m	2,370.00	2,370.00	2,370.00	2,370.00	2,370.00
B0-641	Angle iron 50x50x6 mm	m	1,124.00	1,124.00	1,124.00	1,124.00	1,124.00

B0-642	M.S. Plate 12mm thick	Sq.m	28,000.00	28,000.00	28,000.00	28,000.00	28,000.00
B0-643	Adhesive 250gm tin	No	1,494.00	1,494.00	1,494.00	1,494.00	1,494.00
B0-644	Emulsifier -css/ crs	Kg	2,560.00	2,560.00	2,560.00	2,560.00	2,560.00
B0-645	Early strength admixer (usage:300 ml per 50kg cement bag)	Ltr	380.00	380.00	380.00	380.00	380.00
B0-646	Traffic cones	No	2,536.00	2,536.00	2,536.00	2,536.00	2,536.00
B0-647	75mm x 8mm dia nuts and bolts	No	29.00	29.00	29.00	29.00	29.00
B0-648	Saw dust (loose)	Cu.m	130.00	130.00	130.00	130.00	130.00
B0-649	Drill steel	m	150.00	150.00	150.00	150.00	150.00
Piece rates & allowances allow for:							
B0-704	Barricading (small work items)	Item	1,100.00	1,100.00	1,100.00	1,100.00	1,100.00
B0-705	Barricading, Lighting, Signaling etc for 100 m (stationary operations)	Day	2,750.00	2,750.00	2,750.00	2,750.00	2,750.00
B0-711	Cement, Sand & Water for jointing - Hume pipe 152mm diameter	Joint	110.00	110.00	110.00	110.00	110.00
B0-712	- Do - 229 to 610mm diameter	Joint	220.00	220.00	220.00	220.00	220.00
B0-713	- Do - 915mm diameter	Joint	440.00	440.00	440.00	440.00	440.00
B0-714	- Do - 1220mm diameter	Joint	770.00	770.00	770.00	770.00	770.00
B0-715	Coir rope (for scaffolding 93 Sq.m area)	Item	550.00	550.00	550.00	550.00	550.00
B0-716	Coir string for cutting side drains (per 2.83 Cu.m)	Item	83.00	83.00	83.00	83.00	83.00
B0-717	- Do - Fixing scaffolding (per 93 Sq.m)	Item	440.00	440.00	440.00	440.00	440.00
B0-718	Minor repairs of parapets with cement, sand & water (per 9.29 Sq.m)	Item	550.00	550.00	550.00	550.00	550.00
B0-720	Fuel *(for loosening road surface in manual breaking 50 mm depth X 307 Sq.m)*	Item	110.00	110.00	110.00	110.00	110.00
B0-723	Fuel, forge etc. (per 2.83 Cu.m blasting)	Item	220.00	220.00	220.00	220.00	220.00
B0-732	Ladders (per 93 Sq.m)	Item	550.00	550.00	550.00	550.00	550.00
B0-741	Paint (for lettering & numbering items)	Item	220.00	220.00	220.00	220.00	220.00

B0-746	Pegs (for turfing in 19 Sq.m area)	Item	550.00	550.00	550.00	550.00	550.00
B0-751	Sand paper & cott.waste (per 9.29 Sq.m)	Item	330.00	330.00	330.00	330.00	330.00
B0-752	Sharp. scarifier tynes (for 307 Sq.m)	Item	110.00	110.00	110.00	110.00	110.00
B0-761	Timber planks & bamboos (for 93 Sq.m)	Item	1,430.00	1,430.00	1,430.00	1,430.00	1,430.00
B0-762	Timber post, horizontal etc.(for barricading work in 4l.m)	Item	2,200.00	2,200.00	2,200.00	2,200.00	2,200.00
Water for concreting							
B0-781	Allow for water for mixing by machine per	Cu.m	55.00	55.00	55.00	55.00	55.00
B0-782	Allow for water for mixing manually per	Cu.m	55.00	55.00	55.00	55.00	55.00
Water for compaction & general use							
B0-784	Allow for gravel compaction per	Cu.m	28.00	28.00	28.00	28.00	28.00
B0-785	Allow for aggregate compaction per	Cu.m	40.00	40.00	40.00	40.00	40.00
B0-786	Allow for moistening road surface	Item	110.00	110.00	110.00	110.00	110.00
B0-787	Allow for water bucket & coir rope	Item	110.00	110.00	110.00	110.00	110.00
B0-788	Water for general purpose	l	30.00	30.00	30.00	30.00	30.00
White washing for barricading							
B0-791	White washing empty barrels (Pen.Grade)	01 No.	250.00	250.00	250.00	250.00	250.00
B0-792	White washing timber posts, horizontals, etc. (In 4 l.m barricading)	01 Item	95.00	95.00	95.00	95.00	95.00
7.2.8. Thermoplastic road marking materials excluding transport & VAT							
Following material prices are for estimation only * (Payments should be based on approved tender prices)							
B0-800	Thermo plastic road marking materials (White)*	kg	320.00	320.00	320.00	320.00	320.00
B0-801	Thermo plastic road - Do- (Yellow)*	kg	260.00	260.00	260.00	260.00	260.00
B0-802	Glass beads*	kg	300.00	300.00	300.00	300.00	300.00
B0-803	Cats eye (aluminium road stud, double side)	No	4,850.00	4,850.00	4,850.00	4,850.00	4,850.00

B0-806	Zebra barricading tape (polythene)	m	34.00	34.00	34.00	34.00	34.00
Gabion Mesh* (Galvanized) Excluding Transport & VAT Gabion Size M							
B0-850	1x1x1 in clu. coated tie (Binding) wire @ 5% of gabion weight	Per Box	7,276.00	7,276.00	7,276.00	7,276.00	7,276.00
B0-851	2x1x.5 inclu. coated tie (Binding) wire @ 5% of gabion weight	Per Box	8,774.00	8,774.00	8,774.00	8,774.00	8,774.00
B0-852	1.5x1x1 inclu. coated tie (Binding) wire @ 5% of gabion weight	Per Box	9,202.00	9,202.00	9,202.00	9,202.00	9,202.00
B0-853	2x1x1 inclu. coated tie (Binding) wire @ 5% of gabion weight	Per Box	12,412.00	12,412.00	12,412.00	12,412.00	12,412.00
PVC coated gabion boxes							
B0-850a	1x1x1 inclu. Coated tie (binding) wire @ 5% of gabion weight	Per Box	8,830.00	8,830.00	8,830.00	8,830.00	8,830.00
B0-851a	2x1x0.5 inclu. Coated tie (binding) wire @ 5% of gabion weight	Per Box	10,800.00	10,800.00	10,800.00	10,800.00	10,800.00
B0-852a	1.5x1x1 inclu. Coated tie (binding) wire @ 5% of gabion weight	Per Box	11,300.00	11,300.00	11,300.00	11,300.00	11,300.00
B0-853a	2x1x1 inclu. Coated tie (binding) wire @ 5% of gabion weight	Per Box	15,200.00	15,200.00	15,200.00	15,200.00	15,200.00
Geotextiles * Excluding transport & VAT							
B0-860	Geotextiles (Nonwoven polypropylene polymer tear resistant > 400n and apparent pore size < 200 nm)	Per Sq.m	310.00	310.00	310.00	310.00	310.00

Code	Description of Items	Unit	Basic Rate				
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
7.3 Section II-Schedule of Rates							
7.3.1. Transport Rates							
*See Section I of general notes of HSR published by RDA for selection of mode of transport							
T1-001	Transport of soil 25m to 100m by any means (including loading and unloading):	Cu.m	874.00	789.00	902.00	902.00	902.00
T1-002	Transport 100m to 0.5km by any means (excluding loading):	Cu.m	420.00	420.00	420.00	420.00	420.00
T1-003	Transport 0.5km to 1.0km by any means (excluding loading):	Cu.m	450.00	450.00	450.00	450.00	450.00
T1-003A	Transport of each subsequent 1km from 1.0 - 8.0 km by any means (excluding loading):	Cu.m	70.00	70.00	70.00	70.00	70.00
T1-003B	Transport of each subsequent 1km beyond 8.0 km by any means (excluding loading):	Cu.m	47.00	47.00	47.00	47.00	47.00
* T1--004, T1-005 - codes changed as T1-003a and T1-003b							
T1-006	Transport of material in bulk excluding loading (for distance less than or equal 3 kilo meters)	Cu.m	135.00	135.00	135.00	135.00	135.00
T1-007	Transport of material in bulk excluding loading (from 3 km up to 10 kilo meters distance)	Cu.m	45.00	45.00	45.00	45.00	45.00
T1-007A	Transport of material in bulk excluding loading (for distance more than 10km)	Cu.m	43.00	43.00	43.00	43.00	43.00
* T1-008 : Code amended as T1-007A							
T1-009	Transport of premix in bulk excluding loading other than at mixing plant	mt/km	35.00	35.00	35.00	35.00	35.00
T1-010	Transport of barrels of bitumen for first 1.0 km of transport (excluding loading and unload) :	No	67.00	66.00	67.00	67.00	67.00
T1-010A	Transport of barrels of bitumen for each subsequent 1.0 km, from	No	17.00	16.00	17.00	17.00	17.00

	1.0 - 8.0 km (excluding loading and unload):						
T1-010B	Transport of barrels of bitumen for each subsequent 1.0 km beyond 8.0 km (excluding loading and unload):	No	12.00	11.00	12.00	12.00	12.00
T1-011 & T1-012 code changed							
T1-013	Loading barrels of bitumen inclusive of rolling up to 25m:	No	54.00	49.00	56.00	56.00	56.00
T1-014	Unloading barrels of bitumen inclusive of rolling and stacking:	No	23.00	21.00	24.00	24.00	24.00
T1-015	Transport of Hume pipes 152mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	51.00	50.00	51.00	51.00	51.00
T1-015A	Transport of Hume pipes 152mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	14.00	14.00	15.00	15.00	15.00
T1-015B	Transport of Hume pipes 152mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	10.00	10.00	11.00	11.00	11.00
* T1-016 & T1-017 code changed							
T1-018	Transport of Hume pipes 229mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	57.00	56.00	57.00	57.00	57.00
T1-018A	Transport of Hume pipes 152mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	16.00	15.00	17.00	17.00	17.00
T1-018B	Transport of Hume pipes 152mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	12.00	11.00	12.00	12.00	12.00
* T1-019 & T1-020: code change							

T1-021	Transport of Hume pipes 305mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	76.00	75.00	77.00	77.00	77.00
T1-021A	Transport of Hume pipes 305mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	22.00	21.00	22.00	22.00	22.00
T1-021B	Transport of Hume pipes 305mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	16.00	15.00	16.00	16.00	16.00
* T1-022 & T1-023: code changed							
T1-024	Transport of Hume pipes 457mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	114.00	113.00	115.00	115.00	115.00
T1-024A	Transport of Hume pipes 457mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	33.00	31.00	33.00	33.00	33.00
T1-024B	Transport of Hume pipes 457mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	23.00	22.00	24.00	24.00	24.00
* T1-025 & T1-026: code changed							
T1-027	Transport of Hume pipes 610mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	152.00	150.00	153.00	153.00	153.00
T1-027A	Transport of Hume pipes 610mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	43.00	41.00	44.00	44.00	44.00
T1-027B	Transport of Hume pipes 610mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	31.00	30.00	32.00	32.00	32.00
* T1-028 & T1-029: code changed							

T1-030	Transport of Hume pipes 915mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	229.00	225.00	230.00	230.00	230.00
T1-030A	Transport of Hume pipes 915mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	65.00	62.00	66.00	66.00	66.00
T1-030B	Transport of Hume pipes 915mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	47.00	44.00	48.00	48.00	48.00
* T1-031 & T1-032: code changed							
T1-033	Transport of Hume pipes 1220mm dia. For 1st 1.0 km of transport (excluding loading and unload):	lm	527.00	514.00	532.00	532.00	532.00
T1-033A	Transport of Hume pipes 1220mm dia. For each subsequent 1.0 km, from 1.0 - 8.0 km of transport (excluding loading and unload):	lm	200.00	186.00	205.00	205.00	205.00
T1-033B	Transport of Hume pipes 915mm dia. For each subsequent 1.0 km beyond 8.0 km of transport (excluding loading and unload):	lm	146.00	136.00	149.00	149.00	149.00
* T1-034 & T1-035: code changed							
T1-036	Loading and unloading 152mm dia. 2.44m long Hume pipes:	No	167.00	151.00	173.00	173.00	173.00
T1-037	Loading and unloading 229mm dia. 2.44m long Hume pipes:	No	195.00	176.00	202.00	202.00	202.00
T1-038	Loading and unloading 305mm dia. 2.44m long Hume pipes:	No	388.00	350.00	400.00	400.00	400.00
T1-039	Loading and unloading 457mm dia. 2.44m long Hume pipes:	No	645.00	582.00	666.00	666.00	666.00
T1-040	Loading and unloading 610mm dia. 2.44m long Hume pipes:	No	840.00	759.00	867.00	867.00	867.00

T1-041	Loading and unloading 915mm dia. 1.22.44m long Hume pipes:	No	1,550.00	1400.00	1600.00	1600.00	1600.00
T1-042	Loading and unloading 1220mm dia. 1.22m long Hume pipes:	No	3,100.00	2800.00	3200.00	3200.00	3200.00
T1-043	Transport of precast kerb stones (all types) for road works, including loading and unloading:	lm/ km	4.00	4.00	4.00	4.00	4.00
T1-044	Transport of precast kerb stones for bridge works, including loading and unloading:	lm/ km	6.00	6.00	6.00	6.00	6.00
T1-045	Transport of precast concrete hand rails up-rights and joints for bridge works, including loading and unloading:	lm/ km	9.00	9.00	9.00	9.00	9.00
T1-046	Transport of precast concrete slabs 450 x 450 x 50 mm for foot walks, including loading and unloading:	Sq.m/ km	11.00	10.00	11.00	11.00	1.00
T1-047	Transport of precast standard boundary markers including unloading only*:	No/ km	5.00	5.00	5.00	5.00	5.00
* Supply rate include loading at yard.							
T1-048	Transport of emulsion:	100 l / km	3.00	3.00	3.00	3.00	3.00
T1-049 **(**new**)**	Transport of Gabion mesh 4x1x1 m size:	No/ km	3.00	3.00	3.00	3.00	3.00
7.3.2. Roadway and foundation / trench excavation							
(Including loading, unloading and transporting within 25 meters distance unless otherwise specified)							
Note: For roadway excavations involving more than 300 cu.m, machine rates should be adopted							
Note: Transportation to be included for sand related works							
E1-001	Excavation in loose soil(dry)[SSCM 301.2(iv)]:	Cu.m	1,158.00	1,049.00	1,194.00	1,194.00	1,194.00
E1-002	Excavation in loose soil (wed) in slips [SSCM 301.3(0)] :	Cu.m	1,439.00	1,303.00	1,484.00	1,484.00	1,484.00
E1-003	Excavation in ordinary soil (cutting measurement) [SSCM 301.2(v)]:	Cu.m	1,720.00	1,557.00	1,774.00	1,774.00	1774.00
E1-004	Excavation in ordinary soil (vehicle measurement) [SSCM 301.2(v)]:	Cu.m	1,548.00	1401.00	1596.00	1,596.00	1,596.00

E1-005	Excavation in medium soil (cutting measurement) [SSCM 301.2(iv)]:	Cu.m	2,281.00	2,064.00	2,353.00	2,353.00	2,353.00
E1-006	Excavation in medium soil (vehicle measurement) [SSCM 301.2(v)]:	Cu.m	1,939.00	1,754.00	2000.00	2000.00	2000.00
E1-007	Excavation in hard soil (cutting measurement) [SSCM 301.2(vII)]:	Cu.m	3,404.00	3,078.00	3,512.00	3,512.00	3,512.00
E1-008	Excavation in hard soil (vehicle measurement) [SSCM 301.2(vII)]:	Cu.m	3,914.00	3,539.00	4,039.00	4,039.00	4,039.00
E1-009	Excavation in unclassified soil (cutting measurement) [SSCM 301.2a(I)]:	Cu.m	2,468.00	2,233.00	2,547.00	2,547.00	2,547.00
Note	See item nos. From E1-027 on page 27 of HSR published by RDA for roadway excavation using machinery.						
E1-010	Excavation in soft rock (cutting measurement) [SSCM 301.2(vII)]:	Cu.m	3,684.00	3,331.00	3,802.00	3,802.00	3,802.00
E1-010A	Excavation in mud/marshy material (cutting measurement) [SSCM 301.2(vII)]:	Cu.m	2,842.00	2,571.00	2,933.00	2,933.00	2,933.00
E1-011	Excavation pit/trench for foundation in ordinary soil not exceeding 1.5 m. Deep including levelling and ramming bottom, excavation material deposited at site within 25 m or as directed. * (shoring, dewatering, if necessary, shall be paid separately) [SSCM 302.1-302.3]:	Cu.m	2,281.00	2,064.00	2,353.00	2,353.00	2,353.00
* See general notes 24(2) of HSR published by RDA for details regarding additional excavation required for working space.							
E1-012	Ditto - medium soil, -do - do -:	Cu.m	2,842.00	2,571.00	2,933.00	2,933.00	2,933.00
E1-013	Ditto - hard soil, -do - do -:	Cu.m	3,965.00	3,585.00	4,092.00	4,092.00	4,092.00
E1-014	Ditto - in unclassified soil, -do - do -:	Cu.m	3,029.00	2,740.00	3,126.00	3,126.00	3,126.00
E1-015	Ditto - mud/marshy material, -do - do -:	Cu.m	3,404.00	3,078.00	3,512.00	3,512.00	3,512.00
* Item nos. E1-016 to E1-018 deleted							
E1-019	Excavating soft rock, not exceeding 1.5m depth [SSCM 301.2 (II)]:	Cu.m	4,527.00	4,092.00	4,671.00	4,671.00	4,671.00
* Note: excavating rock for foundation to be paid on S.S.R.							
* Item no. E1-020 deleted							

E1-021	Piling available soil:	Cu.m	281.00	254.00	290.00	290.00	290.00
E1-022	Loading available soil to a tractor or equivalent:	Cu.m	371.00	335.00	382.00	382.00	382.00
E1-023 **(**AMEND**.)**	Excavating rock, requiring blasting, for roadway for boulders (excluding dozing away [SSCM 301.2 (IIi) & 306.1 - 306.4] :	Cu.m	3,097.00	3,092.00	3,099.00	3,099.00	3,099.00
E1-024	Boulders sledging, piling, etc..	Cu.m	5,270.00	4,799.00	5,433.00	5,433.00	5,433.00
E1-025	Rock requiring blasting:	Cu.m	4,623.00	4,406.00	4,695.00	4,695.00	4,695.00
E1-026 **(amend.)**	Rock requiring blasting and piling:	Cu.m	6,253.00	5,836.00	6,380.00	6,380.00	6,380.00
E1-027	Roadway excavation in unclassified soil using machinery excluding loading and piling. (Cutting measurement)	Cu.m	383.00	381.00	383.00	383.00	383.00
E1-028	Loading material by machinery in roadway excavation (cutting measurement) :	Cu.m	228.00	226.00	228.00	228.00	228.00
E1-029	Trimming / cambering by motor grader (cutting measurement) :	Cu.m	52.00	51.00	52.00	52.00	52.00
E1-029A	Trimming / cambering by motor grader (cutting measurement) :	Sq.m	10.00	10.00	10.00	10.00	10.00
7.3.3. Aggregate / rubble piling including loading							
A1-001	Sleding available rock 150-225 mm rubble including piling & loading :	Cu.m	4,183.00	3,803.00	4,310.00	4,310.00	4,310.00
A1-002	Blasting etc. & piling 150-225 mm rubble excluding loading :	Cu.m	6,198.00	5,746.00	6,325.00	6,325.00	6,325.00
A1-002A (NEW)	Blasting sledging etc. & piling 150-225mm rubble using compressor & hand held drills excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A
A1-003	Blasting etc. & piling 100mm aggregate, excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A
A1-004	Blasting etc. & piling 75 mm aggregate, excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A

A1-005	Blasting etc. & piling 50 mm aggregate, excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A
A1-006	Blasting etc. & piling 37.5 mm aggregate, excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A
A1-007	Blasting etc. & piling 25 mm aggregate, excluding loading :	Cu.m	N/A	N/A	N/A	N/A	N/A
A1-008	Blasting etc. & piling 19 mm aggregate, excluding loading : *	Cu.m	N/A	N/A	N/A	N/A	N/A
* Prior approval of the p.dd should be obtained for the use of 19 mm hand broken aggregate.							
A1-009	50 mm aggregate, single size crusher production excluding piling and loading [SSCM404.1-406.1: table 1701-4]:	Cu.m	7,244.00	5,830.00	5,300.00	4,417.00	5,300.00
A1-010	37.5 mm aggregate, single size crusher production excluding piling and loading [SSCM404.1-406.1: table 1701-4]:	Cu.m	7,244.00	6,007.00	5,477.00	4,417.00	5,300.00
A1-011	19 mm aggregate, single size crusher production excluding piling and loading [SSCM404.1-406.1]: table 1701-4]:	Cu.m	7,951.00	6,360.00	6,007.00	4,770.00	5,830.00
A1-012	12.5 mm aggregate, single size crusher production excluding piling and loading [SSCM404.1-406.1: table 1701-4]:	Cu.m	7,420.00	5,830.00	5,477.00	4,240.00	4,770.00
Plant production aggregate for dense graded aggregate base course							
A1-013	Aggregate 37.5 mm, downgraded (SSCM - table 1701.5) excluding piling & loading:	Cu.m	7,597.00	6,007.00	5,654.00	4,240.00	5,654.00
A1-014	Crusher fines 6.3 mm down, excluding piling & loading for 1.0 cu.m :	Cu.m	6,007.00	4,594.00	4,417.00	3,004.00	4,240.00
A1-015	Aggregate 19 mm for seal coat treatments as per SSCM table 1701-8, including - do -	Cu.m	8,251.00	6,660.00	6,307.00	5,070.00	6,130.00
A1-016	Aggregate 12.5 mm for seal coat treatments as per	Cu.m	7,720.00	6,130.00	5,777.00	4,540.00	5,070.00

	SSCM table 1701-8, including - do -						
A1-017	Blended aggregate for rectification overlay, with 37.5 mm single size aggregate and 19 mm & 12.5 mm crusher aggregate mixed in the volume ratio of 7:2:1 including mixing and loading.(piling to pay separately):*	Cu.m	7,280.00	5,942.00	5,342.00	4,166.00	5,092.00
Prior approval of the p.dd should be obtained for the use of blended aggregate in rectification overlay construction work.							
A1-018	Piling available aggregate:	Cu.m	299.00	263.00	308.00	308.00	308.00
A1-019	Piling available rubble:	Cu.m	598.00	525.00	616.00	616.00	616.00
A1-020	Loading available aggregate /rubble:	Cu.m	561.00	507.00	580.00	580.00	580.00
7.3.4. Approved earth filling & compaction							
Note	Rates for borrow earth supply given under item codes EW1-001 & EW1-011 n 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 B0-201, B0-202, EW1-013 or EW1-014 shall be adopted. For any deviations the procurement procedure given in "general notes" of HSR published by RDA, shall be followed.						
EW1-001	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	2,669.00	2,416.00	2,754.00	2,754.00	2,754.00
EW1-002	Spreading piled approved soil (loose volume):	Cu.m	381.00	347.00	392.00	392.00	392.00
EW1-003	Approved soil spread & rolled including roller hire charges, fuel & watering (loose volume)* [SSCM 601.1 to 4]:	Cu.m	734.00	700.00	745.00	745.00	745.00
* See general notes section 26.4 of HSR published by RDA for rate on compacted volume.							
Note	The items EW1-003 or EW1-004 on manual spreading should be adopted on approval by pd/ce for small works only. When machinery is used for spreading and compaction, ew1-003a shall be adopted.						

EW1-003A (NEW)	Approved soil spread & rolled using machinery including motor grader & roller hire charges, fuel & watering (loose volume)* [SSCM 601.1 to 4]:	Cu.m	342.00	342.00	342.00	342.00	342.00
* See general notes section 26.4 of HSR published by RDA for rate on compacted volume.							
EW1-004	Approved soil spread & rolled in strips where average width is less than 1.2 meters for road widening, including roller hire charges, fuel & watering (loose volume)* [SSCM 601.1 to 4]:	Cu.m	896.00	862.00	907.00	907.00	907.00
* See general notes section 26.4 of HSR published by RDA for rate on compacted volume. Assuming 50 cu.m compaction per day							
EW1-005	Deleted						
EW1-006	Approved soil spread & compacted in places behind abutments and structures, shoulders above sub base level and in service line trenches, using 1/2 to 1 ton vibrating roller including watering (loose volume) :	Cu.m	857.00	813.00	872.00	872.00	872.00
* See general notes section 26.4 of HSR published by RDA for rate on compacted volume.							
EW1-007	Approved soil spread & compacted in 150 to 225 mm thick layers using machine rammer at narrow places (loose volume) :	Cu.m	802.00	758.00	817.00	817.00	817.00
EW1-008	Spreading, leveling and compacting manually using standard cast iron stamper or equivalent and filling in 150 - 225 mm thick layer (loose volume) :	Cu.m	1,263.00	1,141.00	1,304.00	1,304.00	1,304.00
EW1-009	Trimming, leveling and compaction of original ground/subgrade to 100% std. Density. [SSCM 304.3 c] :	Sq.m	114.00	113.00	114.00	114.00	114.00
EW1-010	Trimming, leveling and compaction of original ground/subgrade to 95% std. Density. [SSCM 304.3 c] :	Sq.m	103.00	102.00	103.00	103.00	103.00

EW1-011	Approved soil excavation for embankment filling including loading and piling (loose volume) [SSCM 601.1 to 601.4] :	Cu.m	2,327.00	2,107.00	2,401.00	2,401.00	2,401.00
EW1-012	Deleted						
Note	Type 1 soil, Type II soil royalty included						
EW1-013	Approved soil (type i & II materials) excavation using machinery for bases & shoulder construction including loading, transport and piling (loose volume) [SSCM 601.1 to 601.4] :	Cu.m	5,581.00	3,611.00	3,294.00	2,587.00	3,647.00
EW1-014	Approved soil (type i & II) excavation using machinery for embankment filling including loading, transport and piling (loose volume) [SSCM 601.1 to 601.4] :	Cu.m	5,228.00	3,258.00	2,941.00	2,234.00	3,294.00
EW1-015	Grading and spreading by motor grader:	Cu.m	127.00	127.00	127.00	127.00	127.00
Data for output in 6 hours spreading & compaction							
7.3.5 Rubble pitching / paving							
(Rubble to be paid separately)							
P1-001	Pitched paving 225 mm thick :	Sq.m	728.00	640.00	750.00	750.00	750.00
P1-002	Pitched paving 150 mm thick :	Sq.m	546.00	480.00	563.00	563.00	563.00
P1-003	Flat paving 225 mm thick :	Sq.m	484.00	426.00	499.00	499.00	499.00
P1-004	Flat paving 150 mm thick :	Sq.m	364.00	320.00	375.00	375.00	375.00
7.3.6 Aggregate spreading & compaction							
Cost of watering to be deducted from rate if not carried out under the relevant items.							
M1-001	Spreading, Watering & Rolling 100 mm Aggregate including Hire Charges Of Roller. (Loose Volume) [SSCM 304.3(D),(E)] :	Cu.m	1,693.00	1,602.00	1,715.00	1,715.00	1,715.00
M1-002	Breaking Road Surface To 50 mm Depth By Hand, Screen & Replace Old Aggregate :	Sq.m	205.00	185.00	211.00	211.00	211.00

M1-003	Scarifying Road Surface To 50 mm Depth By Roller, Screen & Replace Old Aggregate :	Sq.m	153.00	144.00	156.00	156.00	156.00
M1-004	Spreading & Compacting 50-19 mm New Aggregate By Roller including Watering Hire, Etc. (Loose Volume)[SSCM 403.3(C)]	Cu.m	2,607.00	2,445.00	2,651.00	2,651.00	2,651.00
M1-005	Breaking 50 mm Additional Depth By Hand Screening & Replacing Old Aggregate:	Sq.m	122.00	110.00	126.00	126.00	126.00
M1-006	Scarifying 50 mm Additional Depth With Roller, Screening & Replacing Old Aggregate :	Sq.m	122.00	116.00	124.00	124.00	124.00
M1-007	Spreading Watering & Compacting 50-19 mm Aggregate in Edge Correction Using Roller including Hire, Etc. (Loose Volume)[SSCM 1103.3] :	Cu.m	3,222.00	3,103.00	3,252.00	3,252.00	3,252.00
M1-008	Spreading Watering & Compacting 50-19 mm Aggregate in Edge Correction Using Roller including Hire, Etc. (Loose Volume)[SSCM 1103.3] :	Cu.m	2,630.00	2,511.00	2,660.00	2,660.00	2,660.00
M1-009	Spreading & Compacting 50-19 mm Aggregate By 8-10 Ton Roller After Applying Tack Coat in Overlay (Loose Volume)(Tack Coat Paid Separately):	Cu.m	2,369.00	2,250.00	2,399.00	2,399.00	2,399.00
M1-010	Water Bound Macadam - Spreading Watering & Compacting 50-25 mm Aggregate And Filling The Voids To Refusal With Crusher Fines By Watering And Rolling To Form A Water Bound Macadam Base Excluding Transport For Aggregates And Fines. (Loose Volume)[SSCM 404.1] :	Cu.m	11,927.00	10,130.00	9,850.00	8,801.00	9,830.00

M1-011	Dry Bound Macadam - Spreading Watering & Compacting 50-25 mm Aggregate And Filling The Voids To Refusal With Crusher Fines By Rolling With Vibration Roller To Form A Dry Bound Macadam Base Excluding Transport For Aggregates And Fines. (Loose Volume)[SSCM 404.1] :	Cu.m	11,511.00	9,714.00	9,434.00	8,385.00	9,413.00
* M1-012 : Deleted							
M1-012A (NEW)	Dense Graded Aggregate Base [Aggregate Base Course] including Piling, Spreading Watering & Compacting Graded 37.5 mm Aggregate To Form A Dense Aggregate Base Using Machinery including Motor Grader & Roller Hire Charges Transport Of Aggregates To Be Paid Separately (Loose Volume)[SSCM 404.1] :	Cu.m	8,240.00	6,645.00	6,298.00	4,884.00	6,298.00
*For the rate on compacted volume, increase loose volume rate by 42%. if measurement is on end product, piling cost of aggregate as per A1-018 Shall Be Deducted.							
M1-013	Dense Graded Aggregate Base [Aggregate Base Course] including Piling, Spreading Watering & Compacting Graded 37.5 mm Aggregate To Form A Dense Aggregate Base in Strips, Average Width Not Exceeding 1.2 Meters, For Road Widening. Excluding Transport Of Aggregates (Loose Volume)* [SSCM 405.1 To 4] :	Cu.m	10,217.00	8,503.00	8,305.00	6,891.00	8,305.00
For the rate on compacted volume, increase loose volume rate by 42%. If measurement is on end product, piling cost of aggregate as per A1-018 shall be deducted.							
NOTE	The item m1-013 on manual labour should be adopted on approval by pd / ce for small works only. When machinery is used for spreading and compaction, M1-012A / M1-013a shall be adopted depending on site situation.						

M1-013A (NEW)	Graded 37.5 Aggregate Base Course Material including Piling, Spread & Rolled in Strips, Average Width Not Exceeding 1.2 Meter Using Machinery including Motor Grader & Roller Hire Charges, Fuel & Watering (Loose Volume)* [SSCM 405.1 To 4]:	Cu.m	8,328.00	6,726.00	6,388.00	4,974.00	6,388.00
For the rate on compacted volume, increase loose volume rate by 42%. If measurement is on end product, piling cost of aggregate As Per A1-018 shall be deducted.							
7.3.7 Road Surface Treatment							
Transport of Emulsion / Bitumen to be Paid Separately)							
Note	Transportation to be included for sand related works						
S1-001	Bitumen Surfacing First Coat Using 2 Ltr/Sq.m including Blinding With Sand At The Rate Of 125 Sq.m/Cu.M [SSCM 503.1]: (Excluding Cost Of Bitumen) :	Sq.m	195.00	131.00	160.00	161.00	147.00
S1-002	Bitumen Surfacing First Coat Using 2 Ltr/Sq.m including Blinding With Gravel Where Sand Is Not Available Within 16km: (Excluding Cost of Bitumen) :	Sq.m	140.00	125.00	144.00	144.00	144.00
S1-003	Double Bituminous Surface Treatment With Hot Bitumen (Manual) including internal Transport (Binder And Aggregate Paid Separately) [SSCM 505.1 - 505.5 & Table 505-1] :	Sq.m	238.00	223.00	242.00	242.00	242.00
S1-004	Single Bituminous Surface Treatment With Hot Bitumen (Manual) including internal Transport (Binder And Aggregate Paid Separately) [SSCM 505.1 - 505.5 & Table 505-1] :	Sq.m	130.00	121.00	132.00	132.00	132.00
S1-005	Double Bituminous Surface Treatment With Emulsion (Crs-1) (Manual) including internal Transport (Binder	Sq.m	231.00	216.00	236.00	236.00	236.00

	And Aggregate Paid Separately) : .						
S1-006	Single Bituminous Surface Treatment With Emulsion (Crs-1) (Manual) including internal Transport (Binder And Aggregate Paid Separately) :	Sq.m	153.00	144.00	155.00	155.00	155.00
S1-007	Bitumen surfacing subsequent coat using 0.75 ltr/Sq.m including blinding with sand @ 125 Sq.m/Cu.m [SSCM 503.1(B)]: (Excluding cost of bitumen) :	Sq.m	162.00	102.00	126.00	127.00	113.00
S1-008	Bitumen surfacing 2nd/Subsequent coat using 1.0 ltr/Sq.m including blinding at the rate of 125 Sq.m/Cu,m (new works) [SSCM 503.1(B)]: (excluding cost of bitumen)	Sq.m	162.00	102.00	126.00	127.00	113.00
S1-009	Bitumen surfacing facing subsequent coat using 0.75 ltr/Sq.m including blinding with gravel free of clay where sand is not available within 16 km [SSCM 503.2(B)]: (Excluding cost of bitumen) :	Sq.m	107.00	96.00	110.00	110.00	110.00
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 works) [SSCM 503.4(C)]: (Excluding cost of Bitumen) :	Sq.m.	107.00	96.00	110.00	110.00	110.00
S1-011	Emulsion / Cold Bitumen (Crs-1) Surface Treatment 1st Coat With 3.5 Ltr/Sq.m including Blinding With Sand, @ 125 Sq.m/Cu.m (Manual): (Excluding Cost Of Emulsion) :	Sq.m	155.00	95.00	118.00	119.00	105.00

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 : (Excluding Cost Of Emulsion):	Sq.m	127.00	71.00	90.00	91.00	77.00
S1-013	Emulsion / Cold Bitumen (Crs-1) Surface Treatment Subsequent Coat Using 3.5 Ltr/Sq.m including Blinding With Sand, @ 125 Sq.m/Cu.M (Manual): (Excluding Cost Of Emulsion) :	Sq.m	127.00	71.00	90.00	91.00	77.00
S1-014	Emulsion / Cold Bitumen (Crs-1) Surface Treatment Subsequent Coat With 0.75 Ltr/Sq.m (Using Trolley, Emulsion), including Blinding With Sand, @ 125 Sq.m/Cu.m : (Excluding Cost Of Emulsion) :	Sq.m	116.00	62.00	79.00	80.00	66.00
S1-015	Tack Coat Using Emulsion (Css-1) @ The Rate Of 0.5 Ltr/Sq.m inclusive Of Brushing, Cleaning Road Surface (Manual) [SSCM 502.3]: (Excluding Cost Of Emulsion) :	Sq.m	28.00	25.00	29.00	29.00	29.00
S1-016	Tack Coat Using Emulsion (Css-1) @ The Rate Of 0.75 Ltr/Sq.m inclusive of Brushing, Cleaning Road Surface (Manual) [SSCM 502.3]:(Excluding Cost of Emulsion) :	l	57.00	51.00	59.00	59.00	59.00
S1-017	Tack Coat Using Emulsion (Css-1) @ The Rate Of 0.75 Ltr/Sq.m inclusive of Brushing, Cleaning Road Surface (Manual) [SSCM 502.1-502.3]: (Excluding Cost of Emulsion) :	Sq.m	28.00	25.00	29.00	29.00	29.00

S1-018	Tack Coat With 30% Cut Back Bitumen Using 0.5 Ltr/Sq.m including Brushing and Cleaning Road Surface (Manual): [SSCM 502.1-502.3]: (Excluding Cost of Bitumen) :	Sq.m	101.00	95.00	103.00	103.00	103.00
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) :	l	203.00	190.00	206.00	206.00	206.00
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)]: (Excluding cost of bitumen)	Sq.m	123.00	117.00	125.00	125.00	125.00
S1-021	Rolling over blinding material spread over subsequent bitumen surfacing using diesel roller (8-10 Tons) [SSCM 503.4(D)]:	Sq.m	21.00	21.00	21.00	21.00	21.00
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 : (Excluding Cost Of Emulsion) :	Sq.m	86.00	55.00	68.00	68.00	61.00
S1-023	Prime Coat With Emulsion/Cold Bitumen(Css-1) Using 1 Ltr/Sq.m Without Blinding, But inclusive Of Brushing, Cleaning And Moistening Road Surface : (Excluding Cost Of Emulsion) :	Sq.m	29.00	26.00	30.00	30.00	30.00

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 Moistening Road Surface : (Excluding Cost Of Bitumen) :	Sq.m	205.00	171.00	188.00	189.00	181.00
S1-025	Prime Coat With 30% Cut Back Bitumen Using 1 Ltr/Sq.m Without Blinding But inclusive Of Brushing, Cleaning And Moistening Road Surface : (Excluding Cost Of Bitumen) :	Sq.m.	147.00	140.00	148.00	148.00	148.00
S1-026	Sweeping Over Tarred Surface to Arrest Bleeding:	Sq.m.	9.00	8.00	9.00	9.00	9.00
S1-027	Application Of Asphalt Emulsion For Surface Treatment Using Crs - 1 (Using Plant) "Rate Per Liter" (Excluding Cost Of Emulsion) :	l	16.00	15.00	16.00	16.00	16.00
S1-028	Blinding The Bitumen Surface With Sand At The Rate Of 125 Sq.m Per 1 Cu.m Using Material From Stock Pile :	Sq.m	116.00	61.00	78.00	79.00	65.00
S1-029	Single Bituminous Surface Treatment With Emulsion (Crs-1) Using Plant. (Binder And Aggregate Paid Separately) (Rate To include Transport Cost Of Aggregate Up To 16 Kms) [SSCM 505.5(B)]	Sq.m	105.00	103.00	105.00	105.00	105.00
S1-030	Double Bituminous Surface Treatment With Emulsion (Crs-1) Using Plant. (Binder And Aggregate Paid Separately) (Rate To include Transport Cost Of Aggregate Up To 16 Kms) [SSCM 505.5(E)]	Sq.m	216.00	212.00	217.00	217.00	217.00
S1-031	Supply, Lay and Compact Asphalt Premix Concrete (19 mm, Binder (60/70) 4.7% Mix) -Dense (Plant Made) in Wearing Surface Of Small Works Such As Bridge Decking,	mt.	49,082.00	48,836.00	49,143.00	49,143.00	49,143.00

	Reinstatement Of Trenches Etc. (Transport Of Aggregate* For Premix And Transport Of Premix To Be Paid Separately.) [SSCM - 506] :						
(For Other Binder Contents See General Notes - Clause 29.8 of HSR published by RDA) :							
Average 0.6270 Cu.m Of Aggregate Required For 1.0 Metric Ton Of Premix (All Types)							
S1-032	Supply, Lay And Compact Asphalt Bound Premix (37.5 mm, Binder(60/70) 4.7% Mix) -Dense Base Material (Plant Made) in Of Small Works Such As Bridge Decking, Reinstatement Of Trenches Etc. (Transport Of Aggregate* For Premix And Transport Of Premix To Be Paid Separately.) [SSCM - 506] :	mt	4,411.00	4,165.00	4,473.00	4,473.00	4,473.00
(For Other Binder Contents See General Notes - Clause 29.8 of HSR published by RDA)							
Average 0.6270 Cu.m Of Aggregate Required For 1.0 Metric Ton Of Premix (All Types)							
S1-033	Supply, Lay And Compact Asphalt Concrete Cold Mix (19 mm, 20% Cut Back With Binder(60/70) 4.7% Mix) -Dense (Plant Made) in Small Works Such As Bridge Decking, Reinstatement Of Trenches Etc. (Transport Of Aggregate* For Premix And Transport Of Premix To Be Paid Separately.) [SSCM - 506] :	mt	4,411.00	4,165.00	4,473.00	4,473.00	4,473.00
(For Other Binder Contents See General Notes - Clause 29.8 of HSR published by RDA)							
***** Average 0.6270 Cu.m of Aggregate Required For 1.0 Metric Ton Of Premix (All Types)							
S1-033A	Supply, Lay And Compact Asphalt Concrete Cold Mix With Emulsion Css-1(6.67% By Wgt Of Agg. 19 mm) -Dense (Plant Made) in Small Works Such As Bridge Decking, Reinstatement Of Trenches Etc. (Transport Of Aggregate* For Premix	mt	4,411.00	4,165.00	4,473.00	4,473.00	4,473.00

	And Transport Of Premix To Be Paid Separately.) [SSCM - 506] :						
(For Other Binder Contents See General Notes - Clause 29.8 of HSR published by RDA)							
S1-034	Lay And Compact Asphalt Premix Using Paver (Cost Of Premix, Aggregate Transport* And Premix Transport To Be Paid Separately.) :	mt.	2,435.00	2,376.00	2,451.00	2,451.00	2,451.00
***** Average 0.6270 Cu.m of Aggregate Required For 1.0 Metric Ton of Premix (All Types)							
S1-035 **(Amended)**	Bitumen Surfacing (Sand Sealing - Manual) Using Emulsion(Crs-1) At The Rate Of 1ltr./Sq.m. including Preparing Surface, Blinding With Sand At The Rate Of 4 Cu.M/500 Sq.m And Pressing With Improvised Hand Rallers : (Patching Pot Holes If Necessary & External Transport To Pay Separately) (Excluding Cost Of Emulsion) :	Sq.m	135.00	78.00	97.00	98.00	84.00
S1-035A **(**NEW**)**	Patching Minor Pot Holes Using Sand Emulsion Mix 1:8 Where Necessary, Prior To Sand Sealing. (Excluding Cost Of Emulsion) :	Sq.m.	33.00	27.00	31.00	31.00	30.00
S1-036* **(**AMENDED**)**	Sand Sealing With Emulsion Crs-1 At The Rate Of 1 Ltr/Sq.m Using Plant, including Brushing, Cleaning, Blinding With Sand @ Of 125 Sq.m/Cu.M, And Rolling With Pneumatic Roller And internal Transport [SSCM 504] : (Excluding Cost Of Emulsion) (Patching Pot Holes If Necessary & External Transport To Pay Separately)	Sq.m.	137.00	83.00	100.00	101.00	87.00
*****NOTE **:**	The above rate is applicable only if chip spreader and pneumatic roller are used for the construction. otherwise Approved SSR should be adopted.						

S1-037	Reconstruct base with penetration macadam using nominal size 50 mm aggregate and 19 mm key aggregate from stock piles, to a compacted thickness of 75 mm, on existing pavements. [SSCM 406] (cost of binder, and aggregate including transport to be paid separately) :	Sq.m.	290.00	272.00	295.00	295.00	295.00
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 55 mm, On Existing Pavements. [SSCM 406] (Cost Of Binder, And Aggregate including Transport To Be Paid Separately) :	Sq.m	204.00	191.00	208.00	208.00	208.00
S1-039	Correction of Corrugations, Depression 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) :	mt.	3,732.00	3,493.00	3,801.00	3,801.00	3,801.00
S1-040* **(AMENDED)**	Sand Sealing With Emulsion Crs-2 At The Rate of 0.8 Ltr/Sq.m Using Plant, And Blinding With Sand At The Rate Of 125 Sq.m/Cu.M on D.B.S.T./S.B.S.T. (Triple Seal) including internal Transport [SSCM 504]: (Binder Transport To Site To Pay Separately) (Excluding Cost of Emulsion) :	Sq.m.	137.00	83.00	100.00	101.00	87.00

S1-041	Slurry sealing to a thickness of 6 mm using machinery with modified emulsion (using css-1) as the binder (transport of aggregate to pay separately) : (excluding cost of emulsion) :	Sq.m.	110.00	99.00	98.00	90.00	94.00
Note	This item should be used only for sand sealing on road surface after DBST / SBST 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.						
7.3.8 Road Surface Maintenance							
Internal transport of hot bitumen up to 16 km							
Note	Transportation to be included for sand related works						
MN1-001	Patching With Hot Bitumen Using 14 Litres Per 1/2 km (SSCM 1102.1 - 1102.3) (Excluding Cost of Bitumen) :	1/2 km	3,899.00	2,894.00	3,442.00	3,456.00	3,260.00
MN1-002	Patching With Hot Bitumen Using 21 Litres Per 1/2 km (Excluding Cost of Bitumen) :	1/2 km	5,849.00	4,342.00	5,163.00	5,184.00	4,890.00
MN1-003	Patching With Hot Bitumen Using 28 Litres Per 1/2 km (Excluding Cost of Bitumen) :	1/2 km	7,799.00	5,789.00	6,885.00	6,912.00	6,520.00
MN1-004	Patching With Hot Bitumen Using 35 Litres Per 1/2 km (Excluding Cost of Bitumen) :	1/2 km	9,749 .00	7,236.00	8,606.00	8,640.00	8,150.00
MN1-005	Patching with hot bitumen using 42 litres per 1/2 km (excluding cost of bitumen)	1/2 km	11,698.00	8,683.00	10,327.00	10,368.00	9,780.00
MN1-006	Patching With Hot Bitumen Using 49 Litres Per 1/2 km (Excluding Cost of Bitumen) :	1/2 km	13,648.00	10,130.00	12,048.00	12,096.00	11,410.00
MN1-007	Patching With Hot Bitumen Using 56 Litres Per 1/2 km (Excluding Cost of Bitumen) :	1/2 km	15,598.00	11,578.00	13,769.00	13,824.00	13,040.00
MN1-008	Extensive Patching For Every Additional 7 Ltrs. Hot Bitumen : (Excluding Cost Of Hot Bitumen) :	1/2 km	1,950.00	1,447.00	1,721.00	1,728.00	1,630.00

MN1-009	Patching With Cold Bitumen (Crs-1) Using 14 Litres Per 1/2 km : (Excluding Cost of Cold Bitumen) :	1/2 km	2,576.00	1,723.00	2,081.00	2,095.00	1,899.00
MN1-010	Patching With Cold Bitumen (Crs-1) Using 21 Litres Per 1/2 km : (Excluding Cost of Cold Bitumen) :	1/2 km	3,865.00	2,585.00	3,122.00	3,142.00	2,848.00
MN1-011	Patching With Cold Bitumen (Crs-1) Using 28 Litres Per 1/2 km : (Excluding Cost of Cold Bitumen) :	1/2 km	5,153.00	3,447.00	4,162.00	4,190.00	3,798.00
MN1-012	Patching With Cold Bitumen (Crs-1) Using 35 Litres Per 1/2 km: (Excluding Cost of Cold Bitumen) :	1/2 km	6,441.00	4,309.00	5,203.00	5,237.00	4,747.00
MN1-013	Patching With Cold Bitumen (Crs-1) Using 42 Litres Per 1/2 km: (Excluding Cost of Cold Bitumen) :	1/2 km	7,729.00	5,170.00	6,243.00	6,285.00	5,696.00
MN1-014	Patching With Cold Bitumen (Crs-1) Using 49 Litres Per 1/2Km : (Excluding Cost of Cold Bitumen) :	1/2 km	9,017.00	6,032.00	7,284.00	7,332.00	6,646.00
MN1-015	Patching With Cold Bitumen (Crs-1) Using 56 Litres Per 1/2 km : (Excluding Cost of Cold Bitumen) :	1/2 km	10,305.00	6,894.00	8,324.00	8,379.00	7,595.00
MN1-016	Extensive Patching For Every Additional 7 Ltrs. Cold Bitumen Crs-1: (Excluding Cost Of Cold Bitumen) :	1/2 km	1,288.00	862.00	1,041.00	1,047.00	949.00
MN1-017	50 mm - 19 mm Aggregate Roller Patching :	Cu.m	7,797.00	7,291.00	7,942.00	7,942.00	7,942.00
MN1-018	50 mm - 19 mm Aggregate Stamped Patching :	Cu.m	9,439.00	8,356.00	9,727.00	9,727.00	9,727.00
7.3.9 Road side and drainage system (SSCM 701.3)							
(*Rate to include spreading the resulting materials suitably in the vicinity unless otherwise directed)							
DR1-001	Cutting New Side Drains in Ord. Soil : *	Cu.m	1,540.00	1,368.00	1,586.00	1,586.00	1,586.00

DR1-002	Cutting New Side Drains in Med. Soil : *	Cu.m	2,138.00	1,893.00	2,201.00	2,201.00	2,201.00
DR1-003	Cutting New Side Drains in Hard Soil : *	Cu.m	2,735.00	2,419.00	2,817.00	2,817.00	2,817.00
DR1-004	Cutting New Side Drains in Soft Rock : *	Cu.m	3,034.00	2,681.00	3,125.00	3,125.00	3,125.00
DR1-005	Cutting New Side Drains in Unclassified Soil : *	Cu.m	2,138.00	1,893.00	2,201.00	2,201.00	2,201.00
DR1-005A	Cutting Side Drains of Std. Dimensions in Unclassified Soil Using Machine (Back Hoe J.C.B.) including Shaping, Trimming And Levelling Bottom Manually.	Cu.m	915.00	845.00	934.00	934.00	934.00
DR1-006	Cutting New Side Drains in Rock : *	Cu.m	5,847.00	5,458.00	6,001.00	6,001.00	6,001.00
DR1-007	Turfing (Excluding royalty, transport and watering & maintenance) [SSCM 802.3a] :	Sq.m	366.00	334.00	377.00	377.00	377.00
DR1-008	Watering & Maintaining Ture For Three Months including Transport Of Water :	Sq.m	437.00	411.00	445.00	445.00	445.00
DR1-009	Levelling & Trimming Earth : *	Sq.m	44.00	40.00	46.00	46.00	46.00
DR1-010	Clearing Silt Ect. From Kerbs & Channels [SSCM 1205.3] : *	m	27.00	24.00	28.00	28.00	28.00
DR1-011	Cutting Scupper Drains On Any Soil Other Than Rock To An Average Width Of 0.75m With Proper Gradient And Ave. Depth Of 100 mm [SSCM 1304.3]: *	m	191.00	168.00	196.00	196.00	196.00
DR1-012	Clearing & Desilting Of Culverts [SSCM 1303.3]: *	No.	546.00	495.00	563.00	563.00	563.00
DR1-013	Levelling Chocked Culverts (With Head Room > 1 M**) : *	Cu.m.	2,281.00	2,063.00	2,353.00	2,353.00	2,353.00
** If the culvert head room is less than 1 metre, work shall be carried out on day works basis.							
DR1-014	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 : *	m	67.00	61.00	70.00	70.00	70.00

DR1-015	Clearing inlets & Outlets Of Culverts : *	No.	492.00	446.00	507.00	507.00	507.00
7.3.10 Bridges, Culverts & Retaining Walls Etc.							
Note	Transportation to be included for sand related works						
ST1-001	Demolishing Dry Coursed Masonry including Stacking Or Loading.[SSCM 202.2] :	Cu.m	6,809.00	6,121.00	7,027.00	7,027.00	7,027.00
ST1-002	Demolishing Coursed Masonry in Cement Mortar including Stacking Or Loading. :	Cu.m	7,932.00	7,135.00	8,186.00	8,186.00	8,186.00
ST1-003	Demolishing Random Rubble Masonry in Cement Mortar including Stacking Or Loading. :	Cu.m	3,513 .00	3,115.00	3,622.00	3,622.00	3,622 .00
ST1-004	Random Rubble Masonry, 150-225 mm Rubble in Approved Cements & Sand Mortar 1:6 (Excluding Transport Of Rubble & Piling) [SSCM 1006.3] :	Cu.m	27,237.00	22,098.00	23,544.00	22,429.00	22,888.00
ST1-005	Random Rubble Masonry, 150-225 mm Rubble in Approved Cements & Sand Mortar 1:5 (Excluding Transport Of Rubble & Piling) [SSCM 1006.3]:	Cu.m	27,984.00	22,845.00	24,292.00	23,176.00	23,636.00
ST1-006	Random Rubble Masonry, in Approved Cements & Sand Mortar 1:6 With Available Rubble 150-225 mm :	Cu.m	20,053.00	16,285.00	18,495.00	18,545.00	17,839.00
ST1-007	Random Rubble Masonry, in Approved Cements & Sand Mortar 1:6 With Available Rubble 150-225 mm :	Cu.m	20,800.00	17,033.00	19,243.00	19,292.00	18,587 .00
ST1-008	Dry Masonry With Available Heavy Rubble Or Boulders [SSCM 1006.3(B)] :	Cu.m	9,598.00	8,693.00	9,779.00	9,779.00	9,779.00
ST1-009	Dry Random Masonry With Rubble 150-225 mm Excluding Transport Of Rubble & Piling) :	Cu.m	14,216.00	12,243.00	12,418.00	11,358.00	12,418.00

ST1-010	Dry Random Masonry With Available Rubble 150-225 mm :	Cu.m	7,678.00	6,954.00	7,823.00	7,823.00	7,823.00
ST1-011	Packing Available Rubble And Aggregate Filter Layers Behind Masonry Walls :	Cu.m	2,000.00	1,810.00	2,064.00	2,064.00	2,064.00
ST1-012	Clay Puddled & Laid Behind Masonry Walls (Excl. Transport Of Clay) [SSCM 705.3] :	Cu.m	5,072.00	4,589.00	5,234.00	5,234.00	5,234.00
ST1-013	Grouting Coursed Stone Masonry Joints With Approved Cement & Sand Mortar 1:3 [SSCM 804.2 (C)] :	Sq.m	865.00	762.00	841.00	842.00	829.00
ST1-014	Grouting Rubble Paving With Concrete Class C, 1:2:4(19 mm) (Excl. Transport Of Aggr. For Concrete & Piling) :	Cu.m	4,450.00	3,720.00	4,039.00	3,936.00	3,926.00
ST1-015	Grouting Rubble Paving With Approved Cement & Sand Mortar (1:3) :	Sq.m	1,444.00	1,265.00	1,391.00	1,393.00	1,367.00
ST1-016	Forming Weep Holes On Masonry Construction (Labour Only) [SSCM 706.3] :	No.	683.00	649.00	683.00	683.00	683.00
ST1-017	Formong Weep Holes Using P.V.C Pipes Of int. Dia. Not Less Than 100 mm. Complete With Dripledge And Surround Finish Smooth :	m	1,520.00	1,493.00	1,532.00	1,532.00	1,532.00
ST1-018	Shoring With 37.5 mm Thick Class II Timber Planks Up To 3 m Depth :	Sq.m	1,651.00	1,589.00	1,668.00	1,668.00	1,668.00
ST1-019	Supplying & Fixing Class II Timber Struts Etc. For Shoring Up 3 m Depth :	Cu.dec i m	140.00	131.00	142.00	142.00	142.00
ST1-020	Supplying & Fixing Class II Timber in Shoring Up To 3 m Depth (Rate Per Area Basis) :	Sq.m	1,999.00	1,914.00	2,022.00	2,022.00	2,022.00
ST1-021	Lifting Soil For Every 1.5m Beyond The initial 1.5m :	Cu.m. / lift	1,123.00	1,014.00	1,159.00	1,159.00	1,159.00
ST1-022	Lifting Wedge Stones Every 1.5 m Beyond The initial 1.5 m:	Cu.m. / lift	3,368.00	3,042.00	3,477.00	3,477.00	3,477.00
ST1-023	Lifting Rubble Or Concrete 1.5 m Beyond The initial 1.5 m:	Cu.m. / lift	1,684.00	1,521.00	1,739.00	1,739.00	1,739.00

ST1-024	Lowering Wedged Stones Every 1.5 m Beyond The initial 1.5m:	Cu.m./ lower	2,246.00	2,028.00	2,318.00	2,318.00	2,318.00
ST1-025	Lowering Rubble Or Concrete For Every 1.5 m Beyond The initial 1.5 m :	Cu.m/ lower	1,123.00	1,014.00	1,159.00	1,159.00	1,159.00
ST1-026	Rendering 12.5 mm Thick in Cement Sand Motar 1:2 Mix (Rough):	Sq.m	1,455.00	1,284.00	1,410.00	1,411.00	1,388.00
ST1-027	Rendering 12.5 mm Thick in Cement Sand Motar 1:2 Mix (Smooth Finish):	Sq.m	1,681.00	1,506.00	1,636.00	1,638.00	1,615.00
ST1-028	Rendering 19mm Thick in Cement Sand Motar 1:2 Mix (Rough):	Sq.m	2,053.00	1,809.00	1,981.00	1,984.00	1,948.00
ST1-029	Rendering 19 mm Thick in Cement Sand Motar 1:2 Mix (Smooth Finish):	Sq.m.	2,280.00	2,030.00	2,208.00	2,210.00	2,175.00
ST1-030	Rendering 12.5 mm Thick in Cement Sand Motar 1:3 Mix (Rough):	Sq.m.	1,408.00	1,218.00	1,349.00	1,351.00	1,323.00
ST1-031	Rendering 12.5 mm Thick in Cement Sand Motar 1:3 Mix (Smooth Finish):	Sq.m	1,654.00	1,458.00	1,595.00	1,597.00	1,568.00
ST1-032	Rendering 19 mm Thick in Cement Sand Motar 1:3 Mix (Rough):	Sq.m	1,963.00	1,692.00	1,872.00	1,875.00	1,833.00
ST1-033	Rendering 19 mm Thick in Cement Sand Motar 1:2 Mix (Smooth Finish):	Sq.m	2,213 .00	1,936.00	2,121.00	2,124.00	2,082 .00
ST1-034	Grade 10 1:4:8 (50mm) (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) (Manual) [SSCM 1001.4] :	Cu.m	29,384.00	23,049.00	24,815.00	24,006.00	23,828.00
ST1-035	Grade 10 1:4:8 (50mm) (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) (Using Concrete Mixer) [SSCM 1001.8-1001.9] :	Cu.m	28,425.00	22,344.00	23,811.00	23,002.00	22,825.00
ST1-036	Grade 10 1:4:8 (50mm) With 20% Plums (Volume Batching) Using Crusher Run Aggregate (Excl. Transport of Aggregate & Piling) (Manual)	Cu.m	27,614.00	22,003.00	23,649.00	22,790.00	22,860.00

ST1-037	Grade 10 (50mm) With 20% Plums (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Using Concrete Mixer)	Cu.m	25,567.00	20,301.00	21,509.00	20,651.00	20,717.00
Note:	When hand broken aggregate (50 mm or 37.5 mm) are used, in place of crusher run aggregate, on approval by Pd/Ce S.S.R.R to be prepared based on the same norms						
ST1-038	Grade 15 (37.5 mm) With 20% Plums (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) (Manual)	Cu.m	28,854 .00	23,385.00	25,031.00	24,031.00	24,100.00
ST1-039	Grade 15 (37.5 mm) With 20% Plums (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) :(Using Concrete Mixer)	Cu.m	26,767 .00	21,660.00	22,864.00	21,865.00	21,934.00
ST1-040	Grade 15 (37.5mm) (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) [SSCM 1001.4] : (Manual)	Cu.m	32,849 .00	26,583.00	28,493.00	27,508.00	27,329.00
ST1-041	Grade 15 (37.5 mm) (Volume Batching) Using Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Using Concrete Mixer)	Cu.m	30,772.00	24,868.00	26,335.00	25,349.00	25,172.00
ST1-042	Grade 15 (19 mm) (Volume Batching) Using crusher Run Aggregate (Excl. Transport Of Aggregate & Piling): (Manual)	Cu.m	33,022.00	26,539.00	28,661.00	27,608.00	27,513.00
ST1-043	Grade 15 (19 mm) (Volume Batching) Using Crushed Aggregate (Excl. Transport Of Aggregate & Piling) : (Using Concrete Mixer)	Cu.m	30,795.00	24,675.00	26,355.00	25,303.00	25,208.00
ST1-044	Grade 20 (37.5 mm) (Volume Batching) Using crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Manual)	Cu.m	35,330.00	29,064.00	30,974.00	29,988.00	29,810.00

ST1-045	Grade 20 (37.5 mm) (Volume Batching) Using crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Using Concrete Mixer)	Cu.m.	33,493.00	27,589.00	29,056.00	28,070.00	27,893.00
ST1-046	Grade 20 (19 mm) (Volume Batching) Using crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Manual)	Cu.m	35,280.00	28,814.00	30,940.00	29,900.00	29,794.00
ST1-047	Grade 20 (19 mm) (Volume Batching) Using crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : (Using Concrete Mixer)	Cu.m	33,411.00	27,317.00	28,999.00	27,962.00	27,856.00
ST1-048	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete For Grade 25(19mm) Using crusher Run Aggregate in Foundations And Floors. (Excl. Transport Of Aggregate & Piling) : *	Cu.m	35,489.00	29,396.00	31,078.00	30,040.00	29,935.00
* See General Notes : Clause 33.7 of HSR published by RDA							
ST1-048A	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete For Grade 25 (70% 37.5+30%19) Using crusher Run Aggregates. (Excl. Transport Of Aggregate & Piling) : *	Cu.m.	33,237.00	27,519.00	29,153.00	28,358.00	28,031.0.
* See General Notes : Clause 33.7 of HSR published by RDA							
ST1-049	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete For Grade 30(19mm), Wiyh crusher Run Aggregate. (Excl. Transport Of Aggregate & Piling) : *	Cu.m	38,984.00	32,880.00	34,559.00	33,513.00	33,415.00
*See General Notes : Clause 33.7 of HSR published by RDA							
ST1-050	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete For Grade	Cu.m	42,454.00	36,334.00	38,014.00	36,962.00	36,867.00

	40(19mm), With Crusher Run Aggregate (Excl. Transport Of Aggregate & Piling) : *						
*See General Notes : Clause 33.7 of HSR published by RDA							
ST1-051	Mixing & Laying Cement Concrete By Hand :	Cu.m	9,506.00	8,474.00	9,760.00	9,760.00	9,760.00
ST1-052	Mixing & Laying Cement Concrete By Power Driven Concrete Mixer V/Batching	Cu.m	7,441.00	6,766.00	7,610.00	7,610.00	7,610.00
ST1-053	Curing Of Concrete Decks, Slabs, Beams, Walls Etc. [SSCM 1011.11] :	Sq.m/ day	87.00	67.00	74.00	75.00	70.00
ST1-054	Fabricate & lay m.s. bars as reinforcement (incl. Transport) :	kg	466.00	453.00	469.00	469.00	469.00
ST1-055	Fabricate & lay tor steel as reinforcement (incl. Transport) :	kg	466.00	453.00	469.00	469.00	469.00
ST1-056	Cutting & laying reinforcement fabric (excluding cost of reinforcement fabric) :	Sq.m	407.00	373.00	412.00	412.00	412.00
ST1-057	Suppling & Fixing 25mm Thick planks of class II timber as shuttering, including removing [SSCM 1008.3 (b)] :	Sq.m.	2,003.00	1,948.00	2,014.00	2,014.00	2,014.00
ST1-058	Supplying & fixing class II timber bearers, joists, etc. including dismantling in shuttering [SSCM 1008.3 (a)] :	Cu.dec i m	106.00	100.00	107.00	107.00	107.00
ST1-059	100 - 150 mm dia. Round jungle timber supplied & fixed as props. :	m	178.00	167.00	180.00	180.00	180.00
ST1-060	150 - 200 mm dia. Round jungle timber supplied & fixed as props. :	m	177.00	166.00	179.00	179.00	179.00
ST1-061	Formwork smooth finish with class II timber for bridge beams, bridge deck under sides and sides including dismantling. [SSCM 1008.3(b)] :	Sq.m.	4,909.00	4,699.00	4,965.00	4,965.00	4,965.00
Consider a beam section 300x450 mm and 6100 mm long							

ST1-062	Formwork smooth finish with class II timber for bridge column shafts including dismantling. [SSCM 1008.3(b)] :	Sq.m.	4,476.00	4,262.00	4,535.00	4,535.00	4,535.00
ST1-063	Formwork smooth finish, using plywood (shutter 15 mm) and class II timber bearers, joists and jungle timber props for bridge abutments, wingwalls etc. :	Sq.m.	4,817.00	4,562.00	4,894.00	4,894.00	4,894.00
Consider 2 no. Panels of 1m x 1m.							
ST1-064	Supplying & fixing 25 mm thick planks and struts of class II timber as formwork rough finish, in foundation etc. including removing. [SSCM 1008.3(b)] :	Sq.m.	2,263.00	2,171.00	2,281.00	2,281.00	2,281.00
ST1-065	Formwork smooth finish for general purposes, using 25 mm thick planks & struts of class II timber and round jungle timber props 100-150mm dia., including dismantling :	Sq.m.	3,106.00	2,964.00	3,129.00	3,129.00	3,129.00
ST1-066	Laying & jointing 152 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	4,774.00	4,662.00	4,802.00	4,802.00	4,802.00
ST1-067	Laying & jointing 229 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	5,939.00	5,827.00	5,967.00	5,967.00	5,967.00
ST1-068	Laying & jointing 305 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	6,942.00	6,816.00	6,974.00	6,974.00	6,974.00
ST1-069	Laying & jointing 457 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	8,240 .00	8,114.00	8,272.00	8,272.00	8,272 .00
ST1-070	Laying & jointing 610 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	13,278 .00	13,026.00	13,341.00	13,341.00	13,341.00

ST1-071	Laying & jointing 915 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	23,695 .00	23,275.00	23,811.00	23,811.00	23,811.00
ST1-072	Laying & jointing 1220 mm dia. Concrete pipes (transport and bedding material paid separately) [SSCM 707.3(c) - 707.4] :	m	40,800 .00	40,212.00	40,961.00	40,961.00	40,961.00
ST1-073	Laying & jointing 152 mm dia. Available concrete pipes and collars :	m	1,290.00	1,178.00	1,318.00	1,318.00	1,318.00
ST1-074	Laying & jointing 229 mm dia. Available concrete pipes and collars :	m	1,362.00	1,250.00	1,390.00	1,390.00	1,390.00
ST1-075	Laying & jointing 305 mm dia. Available concrete pipes and collars :	m	1,478.00	1,352.00	1,509.00	1,509.00	1,509.00
ST1-076	Laying & jointing 610 mm dia. Available concrete pipes and collars :	m	2,896.00	2,644.00	2,959.00	2,959.00	2,959.00
ST1-077	Laying & jointing 915 mm dia. Available concrete pipes and collars :	m	4,911.00	4,491.00	5,026.00	5,026.00	5,026.00
ST1-078	Laying & jointing 1220 mm dia. Available concrete pipes and collars :	m	6,988.00	6,400.00	7,149.00	7,149.00	7,149.00
ST1-079	Fixing new bridge new bride planks runners and stacking old planks (available) [SSCM 1402.2(a)] :	No	1,743.00	1,606.00	1,777.00	1,777.00	1,777.00
ST1-080	Removing & re-setting old bride planks :	No.	1,089.00	1,004.00	1,110.00	1,110.00	1,110.00
ST1-081	Supplying & fixing new bride planks of class I timber :	Cu.deci m	252.00	249.00	252.00	252.00	252.00
ST1-082	Supplying & fixing 31 mm thick deck planks of class I timber :	Sq.m.	10,054.00	9,827.00	10,100.00	10,100.00	10,100.00
ST1-083	Fixing new chequered or m.s. plates on timber - decked bridge. [SSCM 1402.2(d)] :	m	2,571.00	2,369.00	2,621.00	2,621.00	2,621.00
ST1-084	Removing & refixing new chequered m.s. plates on timber - decked bridge. :	m	3,428.00	3,159.00	3,495.00	3,495.00	3,495.00
ST1-085	Tightening bolts & nuts of chequered or m.s. plates :	m	597.00	555.00	605.00	605.00	605.00

ST1-086	Removing & refixing 'u' clips. [SSCM 1402.2(b)] :	No	364.00	338.00	369.00	369.00	369.00
ST1-087	Cleaning, wire brushing & painting steel work, one coat enamel paint. :	Sq.m	457.00	421.00	468.00	468.00	468.00
ST1-088	Cleaning, wire brushing & applying tar on steel work , one coat :	Sq.m	364.00	328.00	37500.00	375.00	375.00
ST1-089	Cleaning with cotton waste & painting steel work with enamel paint, one coat. :	Sq.m	258.00	247.00	262.00	262.00	262.00
ST1-090	Chipping to bare metal etc. & painting with anticorrosive paint, one coat. :	Sq.m.	1,593.00	1,427.00	1,639.00	1,639.00	1,639.00
ST1-091	Painting with one coat of enamel paint after cleaning, derusting & application of one coat anticorrosive paint.[SSCM 1401.3(c)] :	Sq.m.	1,073.00	990.00	1,099.00	1,099.00	1,099.00
ST1-092	Painting with two coat of enamel paint after cleaning, derusting & application of one coat anticorrosive paint. :	Sq.m.	1,318.00	1,222.00	1,349.00	1,349.00	1,349.00
ST1-093	Oiling steel cables on suspension bridges [SSCM 1405.3] :	Sq.m.	1,847.00	1,759.00	1,869.00	1,869.00	1,869.00
ST1-094	Cleaning booms of steel bridges including scaffolding where necessary [SSCM 1405.3] :	m	140.00	126.00	143.00	143.00	143.00
ST1-095	Demolishing unreinforced cement concrete including cleaning of debris in foundation and superstructure in dry condition excluding under water structures. [SSCM 202.2] :	Cu.m	5,901.00	5,394.00	6,082.00	6,082.00	6,082.00
ST1-096	Demolishing reinforced concrete and debris cleared	Cu.m	8,328.00	7,640.00	8,581.00	8,581.00	8,581.00
ST1-097	Demolishing unreinforced concrete invery heavy structures buildup of grade 30 above concrete in work such as bridge beams & deck slabs, including collecting & removing :	Cu.m	27,791.00	27,362.00	27,970.00	27,970.00	27,970.00

ST1-098	Supplying & fixing m/s. dowels, spliced and dove tailed with wedge at one end, 16 mm dia and 1 m long, boring holes t0 0.3 m depth in fixing :	No.	1,317.00	1,267.00	1,342.00	1,342.00	1,342.00
ST1-099	Supplying & fixing m/s. dowels, spliced and dove tailed with wedge at one end, 20 mm dia and 1 m long, boring holes t0 0.3 m depth in fixing :	No	1,659.00	1,603.00	1,687.00	1,687.00	1,687.00
ST1-100	Supplying & fixing m/s. dowels, spliced and dove tailed with wedge at one end, 25 mm dia and 1 m long, boring holes t0 0.3 m depth in fixing :	No	2,239.00	2,172.00	2,273.00	2,273.00	2,273.00
ST1-101	Laying & sandard type road kerbs (125 mm wide x 900 mm long), set on 19 mm thick 1:3 cement mortar layer on 150 mm x 275 mm wide 1:2:4 (19) concrete foundation with ave. 157 mm x 150 mm wide backing with same concrete including excavation and shuttering. (cost of kerb stones including transport and aggregate * transport, to pay separately) :	m	4,728.00	4,126.00	4,482.00	4,415.00	4,403.00
ST1-102	Lay standard precast bridge kerbs (cost of precast kerbs including transport to be paid separately) :	lm	970.00	890.00	993.00	993.00	993.00
ST1-103	Constructing 150 x 150 mm thick insitu lower kerb in grade 20 (14 mm) concrete for bridge: (aggregate transport to be paid separately)	lm	533.00	469.00	500.00	491.00	487.00
ST1-104	Laying 450 x 450 x 50 mm precast concrete slabs on foot walks including ave. 40 mm thick 1:3 cement mortar bedding. (cost of precast slabs and transport, to be pay separately) :	Sq.m	3,363.00	2,864.00	3,169.00	3,175.00	3,085.00

ST1-105	Laying 450 x 450 x 50 mm precast concrete slabs on foot walks including ave. 40 mm thick sand bedding. (cost of precast slabs and transport, to be pay separately) :	Sq.m	2,253.00	1,841.00	2,105.00	2,110.00	2,039.00
ST1-106	Fixing precast hand railing and uprights using grade 25(19) concrete including form work for pockets. (cost of the precast items including transport and aggregate* transport, to pay separately.)	lm	2,719.00	2,469.00	2,673.00	2,655.00	2,653.00
*Quantity of aggregate required for concreting in 1 m length is equal to : 0.017 cu.m.							
ST1-107	Construction of R.C.C. grade 25(19 mm) end pillaster, type i. (aggr. Transport and iron piling to be paid separately)	No.	85,349 .00	76,764.00	80,661.00	79,490.00	79,365.00
ST1-108	Consruction of R.C.C. grade 25(19 mm) end pillaster, type II. (aggr. Transport and iron piling to be paid separately)	No	96,150 .00	85,872.00	90,410.00	88,981.00	88,829.00
ST1-109	Consruction of R.C.C. grade 25(19 mm) end pillaster, type IIi. (aggr. Transport and builtup rubble foundation to be paid separately)	No.	55,288 .00	49,575.00	52,042.00	51,241.00	51,159.00
ST1-110	Consruction of R.C.C. grade 25(19 mm) end pillaster, type iv. (aggr. Transport to be separately)	No.	58,948 .00	53,124.00	55,715.00	54,913.00	54,831.00
ST1-111	Laying of grade 20 concrete precast pin kerbs in grade 20(19) concrete foundation as ending : (aggregate transport to be paid separately) :	lm	1,607.00	1,370.00	1,506.00	1,478.00	1,475.00
***** Aggregate required per 1 m for pin kerb - 0.01 cu.m & for foundation - 0.02 cu.m.							
ST1-112	Supplying & fixing 25 mm thick tougne & grooved planks with 50x50 mm struts of class i timber in panels as smooth shuttering for concrete drains :	Sq.m	2,279.00	2,145.00	2,306.00	2,306.00	2,306.00

ST1-113	Supply and packing 50 - 200 mm dry stone lining behind abutments and wing walls : (aggregate transport to pay separately) :	Cu.m	9,513.00	7,924.00	7,584.00	6,529.00	7,545.00
ST1-114	Laying geotextile on prepared surface supply and transport to pay separately :	Sq.m	114 .00	105.00	118.00	118.00	118 .00
ST1-115	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	15,187 .00	13,014.00	12,975.00	11,650.00	12,975.00
ST1-116	Construction of gabion wall using 4x1x0.5m mesh including lacing wire on prepared ground. (supply and transport of gabion mesh to be paid separately):	Cu.m	16,028 .00	13,771.00	13,843.00	12,518.00	13,843.00
ST1-117 (NEW)	Construction of kerb inlet with cover slabs, aggregate transport to pay separately:	No.	21,446.00	19,054.00	20,159.00	19,831.00	19,797.00
NOTE	Earth excavation to consider by engineer as per site condition and add separately if required						
Items 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 items ST1-038 TO ST1-050, depending on the structural location							
ST1-118 (NEW)	Additional labour for pouring, compacting and levelling concrete in screed under foundation slab :	Cu.m	1,600.00	1,442.00	1,633.00	1,633.00	1,633.00
ST1-119 (NEW)	Additional labour for pouring & compacting concrete in abutment, wingwalls, capping beams including screed of bridge decks. :	Cu.m.	471.00	447.00	471.00	471.00	471.00
ST1-120 (NEW)	Additional labour for pouring, compacting and levelling infiler concrete between bridge beams including screed of bridge decks. :	Cu.m	2,343.00	2,178.00	2,376.00	2,376.00	2,376.00

ST1-121 (NEW)	Laying ready mixed grade concrete including vibration.* (supply of concrete to be paid separately) :	Cu.m	3,157.00	2,891.00	3,217.00	3,217.00	3,217.00
	*Additional labour to be considered depending on the location of concretion.						
ST1-122 (NEW)	Supplying and laying approved hard rubber bearing pads 75mm x 12mm over capping beams and under the approach slabs :	m	2,886.00	2,873.00	2,888.00	2,888 .00	2,888.00
ST1-123 (NEW)	Bitumenous sealing material supplied and laid under beam ends to prevent grout leak on to capping beam transport of emulsion including : (excluding cost of emulsion) :	m	386.00	326.00	363.00	364.00	353.00
ST1-124 (NEW)	230 mm dia. Polythene displaces supplied and filled with saw dust or similar light material in deck. Transport of saw dust to be pay separately :	m	131.00	123.00	133.00	133.00	133.00
ST1-125 (NEW)	325 mm dia. Plythene displaces supplied and filled with saw dust or similar light material in deck. Transport of saw dust to be pay separately :	m	202 .00	190.00	206.00	206.00	206 .00
ST1-126 (new)	Pcc beams (10.55 to 13.5m) launched into position :	m	17,145 .00	16,966.00	17,197.00	17,197.00	17,197.00
ST1-127 (new)	M.s. angle iron and hard rubber expansion joints	m	13,539.00	12,983.00	13,677.00	13,677.00	13,677.00
							7.3.11.Kilometer posts and guard stones
RF1-001	White washing, two coats to guide/guard stone :	No.	127.00	115.00	131.00	131.00	131.00
RF1-002	White washing, two coats k.m.stones inc. Numbering & tar skirting :	No.	1,353.00	1,210.00	1,394.00	1,394.00	1,394.00

RF1-003	Painting white back ground on parapets etc. & stenciling nos. :	No.	500.00	449.00	514.00	514.00	514.00
RF1-004	Fixing guard stones in any soil :	No.	397.00	359.00	410.00	410.00	410.00
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 :	No.	11,544.00	10,221.00	11,131.00	10,999.00	10,985.00
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 :	No.	7,529.00	6,765.00	7,361.00	7,296.00	7,289.00
RF1-007	Fixing standard type k.m. stone in any soil :	No.	2,946.00	2,652.00	3,040.00	3,040.00	3,040.00
RF1-008	Fixing new or refixing type guard stone cement concrete [1:3:6 (37.5 mm) and cement 219 kg/cu.m] with min. Cover 75mm x 300mm depth :	No.	1,711.00	1,422.00	1,550.00	1,510.00	1,503.00
RF1-009	Casting standard type guard stones in concrete [1:2:4(19 mm) & cement 282.5 kg/cu.m :	No.	4,075.00	3,556.00	3,871.00	3,812.00	3,806.00
RF1-009A	Casting standard type guard stones in concrete g25(19), for bridges & culverts :	No.	5,527.00	5,012.00	5,318.00	5,258.00	5,252.00
RF1-010	Route numbering with reflective paint on 2 sides	No.	1,069.00	1,018.00	1,069.00	1,069.00	1,069.00
RF1-011	Casting standard boundary markers in reinforced concrete [1:2:4(19 mm)] with admixtures, including 14 days curing and loading to vehicles at yard (aggregate transport to pay separately) :	No.	3,881.00	3,492.00	3,716.00	3,670.00	3,665.00
Note	19 mm aggregate per boundary marker Cu.m						

7.3.12.Notice boards & sign boards

[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 & traffic sign boards etc. Fixed in concrete [1:3:6(35.7 mm) and cement 219 kg/cu.m), (excluding transport of aggregate) :	No.	3055.00	2,606.00	2,837.00	2,781.00	2,772.00
RS1-002	Cleaning white washing 2 coat town name boards (inc. Tar skirt) :	No.	699.00	637.00	717.00	717.00	717.00
RS1-003	Cleaning, painting one coat & erlettering etc.town traffic sign boards inc. Paint post in b/w :	No.	3,847.00	3,590.00	3,898.00	3,898.00	3,898.00
RS1-004	Cleaning and painting one coat on notice board:	Sq.m.	567.00	512.00	581.00	581.00	581.00
RS1-005	Lettering & numbering below 50 mm :	No.	90.00	86.00	90.00	90.00	90.00
RS1-006	Lettering & numbering 50 mm - 75 mm	No.	108.00	103.00	108.00	108.00	108.00
RS1-007	Lettering & numbering 75 mm - 150 mm :	No.	135.00	129.00	135.00	135.00	135.00
RS1-008	Lettering & numbering 150 mm - 225 mm :	No.	180.00	171.00	180.00	180.00	180.00
RS1-009	Painting 2 coats continuous centre line, 100 mm wide with enamel paint :	m	232.00	219.00	235.00	235.00	235.00
RS1-010	Painting 1 coat continuous centre line, 100 mm wide with road marking paint (white) :	m	249.00	235.00	251.00	251.00	251.00
RS1-0011	Painting 2 coats broken centre line, 100 mm wide with enamel paint :	m	221.00	208.00	224.00	224.00	224.00
RS1-012	Painting 1 coat broken centre line, without reflective studs), 100 mm wide, at 3 metre intervals with road marking paint (white) :	m	234.00	221.00	237.00	237.00	237.00
RS1-013	Barricading with empty (hot tar) barrels including white washing, transporting and cost of barrels :	No.	617.00	588.00	627.00	627.00	627.00

RS1-014	Revetment to banks etc. With empty barrels in horizontal tiers with vertical batter (1:8), including transport of barrels :	No.	1,081.00	996.00	1,106.00	1,106.00	1,106.00
RS1-015	Road marking continuous centre line 100 mm width, using thermoplastic paint(white), inclusive barricading :	Sq.m.	555.00	536.00	559 .00	559.00	559.00
(Paint material and reflective glass beads to pay separately)							
Note	1 kg of thermoplastic paint covers 0.28 Sq.m area at 1.5 mm thickness						
25 kg of glass beads will cover 100 Sq.m area.							
RS1-016	Road marking, standard pedestrian crossing, using thermoplastic paint(white), inclusive barricading :	m	1,177.00	1,147.00	1,183.00	1,183.00	1,183.00
(Paint material and reflective glass beads to pay separately)							
Note	1 kg of thermoplastic paint covers 0.28 Sq.m area at 1.5 mm thickness						
25 kg of glass beads will cover 100 Sq.m area.							
RS1-017A	Supplying and paving inter locking 210 X 110 X 80 mm (G25) blocks and preparation of sand bedding (Including blocks & Sand transport) (Transport schedule to main town of each district)	Sq.m	4,140.00	3,768.00	3,911.00	3,917.00	3,820.00
RS1-017B	Supplying and paving inter locking 210 X 110 X 80 mm (G40) blocks and preparation of sand bedding (Including blocks & Sand transport) (Transport schedule to main town of each district)	Sq.m	4,456.00	4,205.00	4,348.00	4,355.00	4,257.00
7.3.13 Miscellaneous							

MS1-001	Preparing, stock piling premix using pen. Grade bitumen (excl. Transport of aggregate) (site made) : (excluding cost of bitumen)	Cu.m.	23,835.00	18,910.00	20,813.00	20,075.00	19,652.00
MS1-002	Patching shallow holes, depth less than 20mm using hot bitumen 1.2 ltr/Sq.m and 12.5 mm chips single size at the rate of 13.75 cu.deci m/Sq.m including hand tamping (rate excludes cost of bitumen and includes cost of materials)(excl. Transport of aggregate & bitumen) :	Sq.m.	289.00	251.00	267.00	250.00	257 .00
MS1-003	Patching shallow holes, depth less than 20 mm using 10% - 20% cut back bitumen 1.2 ltr/Sq.m and 12.5 mm chips single size at the rate of 13.75 cu.deci m/Sq.m including hand tamping (rate excludes cost of bitumen and includes cost of materials) (excl. Transport of aggregate & bitumen) :	Sq.m.	284 .00	246.00	262 .00	245.00	252 .00
MS1-004	Patching shallow pot holes, depth less than 20 mm using emulsion(crs 1) at the rate of 1.2 ltr/Sq.m and 12.5 mm chips single size at the rate of 13.75 cu.deci m/Sq.m including hand tamping, transport emulsion to site etc. (rate excludes cost of bitumen and includes cost of materials)(excl. Transport of aggregate) :	Sq.m.	284 .00	246.00	262 .00	245.00	252.00

MS1-005	Patching pot holes of medium depth of 20-75 mm with premix material (site made) using cut back bitumen 10-20% at the rate of 83.5 cu.m of 19 mm and down gauge stone aggregate including preparation of surface, tack coat with 30% cut back bitumen at .75 ltr/Sq.m, trimming sides, laying premix, tamping etc. Complete. (rate inclusive of premix made at site & tack coat) (excl. Transport of aggregate) : (excluding cost of bitumen) :	Sq.m.	2,425.00	1,983.00	2,256.00	2,207.00	2,179.00
MS1-006	Patching pot holes using plant made premix bound including sealing the patching with emulsion (crs-1) painting @ 7.3 ltr/mton, cover with sand (transport of premix paid separately):(excluding cost of emulsion) :	Mt.	8,172 .00	6,627.00	7,796 .00	7,811.00	7,593.00
MS1-007	Patching pot holes of medium depth of 20-75 mm using graded aggregate 19-12.5 mm using hot bitumen 1.75 ltr/Sq.m covered with blotton material at the rate of 1 cu.m/125 Sq.m, including preparation of surface tack coat with 30% cut back bitumen at .75 ltr/Sq.m, trimming sides, laying aggregate, tamping etc. Complete (rate inclusive of aggregate but excl. Transport of aggregate & bitumen) : (excluding cost of bitumen) :	Sq.m.	1,861.00	1,578.00	1,729.00	1,647.00	1,704 .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 (over the already prepared surface with aggregate and gravel paid separately) using 10-20% cut back bitumen at the rate of 83.5 ltr/cu.m of 19 mm and downgraded aggregate incl. Preparation of surface, tack coat with 30% cut back bitumen at .75 ltr/Sq.m, trimming sides, laying premix, tamping etc. Complete (rate inclusive of premix made at site and tacl coat) (excl. Transport of aggregate & bitumen) :(excluding cost of bitumen) :	Sq.m.	1,410.00	1,171.00	1,333.00	1,308.00	1,294.00
MS1-009	Patching pot holes more than 75 mm deep with water bound gravel material using 50 mm or 12.5 mm single size aggregate along with useable old aggregate obtained from picking and preparation of surface inc. Laying, watering, spreading gravel of approved quality and tamping as directed. (aggregate and gravel would be paid separately) :	Sq.m.	107.00	95.00	111.00	111.00	111.00
MS1-010	Patching ruts and depressions up to 75 mm depth using site made cold mix (cut back) material with the surface and edge prepared as per specifications and application of tack coat with 30% cut back bitumen at .75 ltr/Sq.m, (excl. Transport of aggregate) : (excluding cost of bitumen) :	Sq.m.	2,112.00	1,700.00	1,933.00	1,883.00	1,855.00

MS1-011	Patching ruts and depressions upto 75 mm depth using plant made cold mix (cut back) material with the surface and edge prepared as per specifications and application of tack coat with 30% cut back bitumen at .75 ltr/Sq.m, (cold mix transport will be paid separately): (excluding cost of bitumen) :	Sq.m.	819.00	738.00	843.00	843.00	843.00
MS1-012	Patching ruts and depressions deeper than 75 mm the surface and edge prepared as per specifications tack coat with 30% cut back bitumen at .75 ltr/Sq.m, trimming sides 50 mm down gauge aggregated laid and compacted and the top 40 mm laid and compacted with cold mix (cut back) material (aggregate 50 mm down gauge and transport will be paid separately) :(excluding cost of bitumen) :	Sq.m.	2,005.00	1,695.00	1,945.00	1,921.00	1,907.00
MS1-013	Patching ruts and depressions upto 75 mm depth the surface and edges prepared as per specifications and application of tack coat with 30% cut back bitumen at .75 ltr/Sq.m, 50 mm down gauge aggregated laid and compacted using hot bitumen (1.75 ltr/Sq.m covered with blotten material (sand) at the rate of 1 cu.m/125 Sq.m (aggregate will be paid separately) : (excluding cost of bitumen) :	Sq.m.	1,498.00	1,294.00	1,501.00	1,502.00	1,488.00

MS1-014	Patching ruts and depressions deeper than 75 mm depth the surface and edges prepared as per specifications and application of tack coat with 30% cut back bitumen at .75 ltr/Sq.m, 50 mm down gauge aggregated laid and compacted using hot bitumen (1.75 ltr/Sq.m covered with blotten material (sand) at the rate of 1 cu.m/125 Sq.m (aggregate will be paid separately) : (excluding cost of bitumen) :	Sq.m.	1,737.00	1,504.00	1,747.00	1,748.00	1,734.00
MS1-015M	Correcting & strengthening the edges of road by cold mix 40 mm thick prepared using cut back bitumen 10-20% at the rate of 83.5 ltr/cu.m of 19 mm and down gauge aggregate over a tack coat using with 30% cut back bitumen at .75 ltr/Sq.m, laid over 50 mm and compacted including earth work excavation to a width of 225 mm and depth of 125 mm. (cost of aggregate and transport to be paid separately) :(excluding cost of bitumen) :	Sq.m.	2,530.00	2,161.00	2,486.00	2,462.00	2,448.00

MS1-016	Correcting & strengthening the edges of road by cold mix 40 mm thick prepared using cut back bitumen 10-20% at the rate of 83.5 ltr/cu.m of 19 mm and down gauge aggregate over a tack coat using with 30% cut back bitumen at .75 ltr/Sq.m, laid over 50 mm and down gauge aggregate laid, on position watered and compacted with a bottom layer of 100 mm aggregate closely pact, including earth work excavation to a width of 225 mm and depth of 225 mm. (aggregate 100mm, 50mm down gauge and transport will be paid separately) :(excluding cost of bitumen) :	Sq.m.	3,006.00	2,585.00	2,977.00	2,953.00	2,939.00
MS1-017	Patching sealing with emulsion painting the surface by spray of crs-1 at the rate of 0.75 ltr/Sq.m squeezing the emulsion and spreading the blotton material (sand) at the rate of 1 cu.m/125 Sq.m : (excluding cost of emulsion) :	Sq.m.	170.00	108.00	134.00	135.00	121.00
MS1-018	Patching sealing with hot bitumen painting the surface by using 0.75 ltr/Sq.m squeeging the bitumen and spreading the blotton material (sand) at the rate of 1 cu.m/125 Sq.m (transport of bitumen paid separately) : (excluding cost of bitumen) :	Sq.m.	173.00	112.00	137.00	138.00	124.00

MS1-019	Patch sealing of pitted surface using hot sand bitumen mix 104 ltr/cu.m of sand spead and hand tamped including brushing and cleaning the surface before application (excluding transport of bitumen) : (excluding cost of bitumen) :	Sq.m.	418.00	295.00	354.00	356.00	330.00
MS1-020	Patch sealing of pitted surface with a emulsion sand slurry using crs 1 or 2 at the rate of 136.5 ltr/cu.m of sand mix properly laid, levelled & squeeged including brushing and cleaning the surface before application : (excluding cost of emulsion) :	Sq.m.	371.00	253.00	305.00	307.00	281.00
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 and cleaning minor slips :	Sq.m.	54.00	49.00	56.00	56.00	56.00
MS1-022	Cleaning ordinary jungle including removing high growing plants and trees of girth less than 300 mm other than those designated to remain, by uprooting or by cutting and then uprooting the stumps or by cutting only as directed (SSCM 1203.2) :	Sq.m.	7.00	6.00	7.00	7.00	7.00
MS1-023	Cleaning medium jungle including remaining all high growing plants and trees of girth less than 300 mm other than those designated to remain, by uprooting or by cutting and then uprooting the stumps or by cutting only as directed :	Sq.m.	9.00	8.00	9.00	9.00	9.00

MS1-024	Cleaning heavy jungle including removing all high growing plants and trees of girth less than 300 mm other than those designated to remain, by uprooting or by cutting and then uprooting the stumps or by cutting only as directed :	Sq.m.	12.00	11.00	12.00	12.00	12.00
MS1-025	Repairs to damage of shoulders verges and embankments slopes including making good depressions, ruts, holes and erosion path with approved gravelly soil and compacting the same with roller (8-10 ton) as directed (gravelly soil be paid separately if brought from outside) [SSCM 1201.3] :	Cu.m	985.00	931.00	1,004.00	1,004.00	1,004.00
MS1-026	Re grading and re gravelling of shoulders with gravel of approved quality, duly compacted with roller (8-10 tons) as directed for repairing high sides caused by heavying's deposits and construction debris, to required levels by using a grader (120-140 hp) (gravel be paid for separately) [scm 1201.3(b)] :	Cu.m	468.00	468.00	468.00	468.00	468.00
MS1-027	Re grading and re gravelling of shoulders with gravel of approved quality, duly compacted with roller (8-10 tons) as directed for repairing high sides caused by heavying's deposits and construction debris, to required levels by manually ((gravel (loose volume) paid separately) [scm 1201.3(b)] :	Cu.m	1,087.00	1,025.00	1,108.00	1,108.00	1,108.00

MS1-028	Replacing the damage cracked concrete slabs in the foot walks with precast/cast insity cement concrete 1:2:4 (19mm) using 19 mm & down gaige stone aggregate to a minimum thickness of 50 mm including fixing / laying in position with cement mortar 1:3 joints over a compacted bed etc. (excluding transport of aggregate) [scm 1204.3] :	Sq.m.	4,457.00	3,858.00	4,280.00	4,230.00	4,212.00
MS1-029	Cutting and removing fallen trees upto 600mm girth including cutting into required number of pieces including disposal as directed. Minimum piece shall not be less than 2.5 m in length [SSCM 1203.2] :	No.	1,390.00	1,256.00	1,435.00	1,435.00	1,435.00
MS1-030	Cutting and removing fallen trees upto 600 - 900 mm girth including cutting into required number of pieces including disposal as directed. Minimum piece shall not be less than 2 m. [SSCM 1203.2] :	No.	1,986.00	1,794.00	2,050.00	2,050.00	2,050.00
MS1-031	Weeding masonry culverts small bridges and retaining walls [SSCM 1303.3] :	No.	448.00	407.00	459.00	459.00	459.00
MS1-032	Masonry random rubble with boulders including collect [SSCM 1006.3(b)] :	Cu.m	2,544.00	2,326.00	2,592.00	2,592.00	2,592.00
MS1-033	Fixing cats eyes in tar macadam including breaking road surface, barricade etc. [SSCM 810.3(c)] :	No.	726.00	664.00	748.00	748.00	748.00
MS1-034	Reducing high sides in ordinary soil [SSCM 301.3/1201.3(c)] :	Cu.m	1,176.00	1,067.00	1,212.00	1,212.00	1,212.00
MS1-035	Reducing high sides in medium soil :	Cu.m	1,737.00	1,574.00	1,792.00	1,792.00	1,792.00
MS1-036	Reducing high sides in hard soil :	Cu.m	2,299.00	2,081.00	2,371.00	2,371.00	2,371.00
MS1-037	Reducing high sides in soft rock :	Cu.m	2,860.00	2,588.00	2,951.00	2,951.00	2,951.00

MS1-038	Reducing high sides in rock requiring blasting :	Cu.m	5,459.00	5,056.00	5,610.00	5,610.00	5,610.00
MS1-039	White washing 1 coat to parapets of bridges and culverts. [SSCM 1403.3(e)]	Sq.m.	84.00	76.00	86.00	86.00	86.00
MS1-040	White washing 2 coats to parapets of bridges and culverts :	Sq.m.	142.00	129.00	146.00	146.00	146.00
MS1-041	White washing 1 coat to parapets of bridges and culverts after cleaning attending to minor repairs :	Sq.m.	147.00	141.00	149.00	149.00	149.00
MS1-042	White washing 2 coats to parapets of bridges and culverts after cleaning attending to minor repairs :	Sq.m.	207.00	197.00	211.00	211.00	211.00
MS1-043	Painting with emulsion 1 coat to parapets of bridges and culverts, guard stones and k.m. posts after cleaning attending to minor repairs [SSCM 1501.3(a)-(v)] :	Sq.m.	354.00	345.00	359.00	359.00	359.00
MS1-044	Painting with enamel 1 coat to parapets of bridges and culverts, guard stones and k.m. posts after cleaning attending to minor repairs [SSCM 1501.3(a)-(v)] :	Sq.m.	381.00	372.00	386.00	386.00	386.00
MS1-045	Painting with enamel 2 coats to parapets of bridges and culverts, guard stones and k.m. posts after cleaning attending to minor repairs [SSCM 1501.3(a)-(v)] :	Sq.m.	612.00	594.00	621.00	621.00	621.00
MS1-046	Painting with emulsion 2 coats to parapets of bridges and culverts, guard stones and k.m. posts after cleaning attending to minor repairs :	Sq.m.	579.00	561.00	588.00	588.00	588.00

MS1-047	Painting 1 coat emulsion paint to parapets of bridges and culverts, guard stones and k.m. posts including preparing surface of old work. [SSCM 1501.3(b)(v)]:	Sq.m.	295.00	285.00	300.00	300.00	300.00
MS1-048	Painting sub coat emulsion paint to parapets of bridges and culverts, guard stones and k.m. posts including preparing surface [SSCM 1501.3(b)] :	Sq.m.	260.00	252.00	264.00	264.00	264.00
MS1-049	Painting 1 coat emulsion paint to parapets of bridges and culverts, guard stones and k.m. posts including preparing surface of new work. [SSCM 1501.3(b)(v)]:	Sq.m.	271.00	263.00	275.00	275.00	275.00
MS1-050	Cleaning & painting 100 mm wide stripe for skirting to guard stones. [SSCM 1501.3(b)(v)] :	lm	162.00	145.00	167.00	167.00	167.00
MS1-051	Painting 2 coats standard pedestrian crossing for carriageway. [SSCM 810.2(c)] :	lm	3,632.00	3,440.00	3,671.00	3,671.00	3,671.00
MS1-052	Painting 1 coat standard pedestrian crossing for carriageway using road marking paint. [SSCM 810.2(c)] :	lm	4,062.00	3,852.00	4,104.00	4,104.00	4,104.00
MS1-053	Erecting, barricading in jungle timber 75 - 100 mm dia. Vertical posts at .9 m centres and 1.2 m above ground including white washing. [SSCM 1709] :	lm	1,011.00	969.00	1,025.00	1,025.00	1,025.00
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.	244.00	218.00	251.00	251.00	251.00

MS1-055	Roughening existing smooth tarred metaled carriageway by hand for bonding, collecting disposal of all loose materials. [SSCM 403.3(b)]:	Sq.m.	36.00	32.00	37.00	37.00	37.00
MS1-056	Supply of diesel for machineries: (ex-filling station)	l	382.00	382.00	382.00	382.00	382.00
MS1-057	Patching road with premix (loose volume) after prep. Surface with emulsion (css-1) at .75 ltr/Sq.m as tack coat, including internal transport and hand stamping. (supply of premix (loose vol.) Paid separately) [SSCM 1102.3(b)(i)] :(excluding cost of emulsion) :	Cu.m	13,474.00	12,587.00	13,728.00	13,728.00	13,728.00
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 hand stamping. (supply of premix (loose vol.) Paid separately) [SSCM 1102.3(b)(i)] : (excluding cost of emulsion) :	mt.	12,880.00	12,164.00	13,100.00	13,100.00	13,100.00
MS1-059	Painting two coats enamel paint on kerbs, after cleaning and preparing surfacing. :	Sq.m.	637.00	608.00	650.00	650.00	650.00
MS1-060	Preparing and stock piling premix at site using 12.5 mm aggregate and emulsion css-1 (excluding transport of aggregate) : (excluding cost of emulsion) :	Cu.m	56,549.00	52,058.00	53,454.00	52,716.00	52,294.00
MS1-061 (NEW)	Breaking manually asphalt layer 2" - 3" thick on the carriageway for kerb laying:	m	888.00	784.00	914.00	914.00	914.00
7.3.14 Surveying, levelling and day works							

SV1-001	Supply of unskilled labour :	day	3,100.00	2,800.00	3,200.00	3,200.00	3,200.00
SV1-002	Supply of semiskilled labour :	day	3,300.00	2,900.00	3,400.00	3,400.00	3,400.00
SV1-003	Supply of skilled 'a' grade labour :	day	4,000.00	3,800.00	4,000.00	4,000.00	4,000.00
SV1-004	Supply of skilled 'b' grade labour :	day	3,600.00	3,400.00	3,700.00	3,700.00	3,700.00
SV1-005	Clearing jungle (light) to a width of 1.22 m for survey work :	km	11,842.00	10,696.00	12,224.00	12,224.00	12,224.00
SV1-006	Clearing jungle (medium) to a width of 1.22 m for survey work :	km	15,789 .00	14,261.00	16,298.00	16,298.00	16,298.00
SV1-007	Clearing jungle (heavy) to a width of 1.22 m for survey work :	km	23,683 .00	21,391.00	24,447.00	24,447.00	24,447.00
SV1-008	Supply of labour for cleaning and cutting pegs and pegging :	km	3,151.00	2,769.00	3,247.00	3,247.00	3,247 .00
SV1-009	Levelling chaining and pegging and establishing bench marks on concrete rock or pegs and checking back levels :	km	6,303.00	5,539.00	6,494.00	6,494.00	6,494.00
SV1-010	Surveying including fixing pickets & taking angles :	km	6,303.00	5,539.00	6,494.00	6,494.00	6,494.00
SV1-011	Changing traverse lines and taking off-sets :	km	8,404.00	7,385.00	8,658.00	8,658.00	8,658.00

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