



HIGHWAY SCHEDULE OF RATES 01.01.2024

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Highways Schedule of Rates – 2024
Provincial Road Development Authority
Central Province

General Notes

This rate schedule is based on basic rate approved on 21.12.2023

- 01** **Highways Schedule of Rates (HSR)** becomes operative from 01.01.2024 and can be used for estimating purposes only.
- 02** This Highways Schedule of Rates is prepared to use for works under the preview of Provincial Road Development Authority of Central Provincial Council Road sector.
- 03** In case, the resources are available at lesser rates depending on area and locality, the Engineer shall use such rates in the BOQ for the preparation of Estimates providing reasons.
- 04** Work has to be carried out as per (i) Slandered Specifications for Construction & Maintenance of Roads and Bridge (S.S.C.M), issued by the Authority published by Road Development Authority – Ministry of Highways – Sri Lanka in 1989.
- 05** The description of all items in the bills shall briefly confirm to that in the relevant items appearing in this schedule so as to avoid any ambiguity. Control of material and measuring & paying shall be carried out as per S.S.C.M. 104 to 106.6 However provision for control of traffic and safety measures for the road users are not included under such items rate shall be provided separately and paid on approved S.S.R or on closely monitored work.
- 06** Quality Materials only shall be used in any works (S.S.C.M.1700).

07 Cement concrete pre-cast product to be brought from approved agencies. Approved qualities of cement according to the standards can only be used.

08 Certain items like extensive patching for maintenance etc. requires the prior approval from CE. /General Manager.

9 Materials available / recovered during execution of works:

All suitable earth, rock, steel or precast material and components available or recovered from road excavation or demolition works shall be utilized in construction work with the approval of the Chief Engineer and surplus disposed as directed. In the case of bridge reconstruction works all bridge components such as steel girders, deck plates, and reinforcement etc., which are dismantled, shall be recovered and repaired for re use, these items should be taken to an inventory by the Executive Engineer and kept stock under good care for reuse. In the case of rock blasting Material should be piled and taken to an inventory By the Executive Engineer before authorizing for payments.

10 **Transport**

10.1 The rates for “transport” include all modes of transport up to maximum distance of the stipulated range.

10.2 The most economical mode of transport shall always be adopted in transporting materials. The rate of payment for transport shall be made under any relevant item selected from code. T1-001 to T1-003b irrespective of the type of vehicles is used

10.3 The rates for transport including up to the maximum distance stipulated.

10.4 The rate for transport steel and cement shall always be paid separately unless otherwise directed.

10.5 Transport of aggregate, soil, Emulsion and premix materials shall always be paid separately unless otherwise directed.

10.6 Rate for rubble transport up to 3 m shall be selected from item code T1-002 to T1-003b supported with justifiable reasons.

11 **Excavation (S.S.C.M. 301-303)**

11.1 **Manual rates:**

The rates given in this schedule if not otherwise stated are intended for manual excavation

- 11.2 The rates are included for excavation and loading or depositing up to 30 meters. Transport of excavated material more than 30 meters shall always be paid separately unless otherwise directed. In case of foundation excavation for structure, backfilling and compaction to be considered separately unless otherwise specified.
- 11.3 Additional excavation required for working space shall be decided by the Engineer and shall be paid at the same rate applicable to the item.
- 11.4 Soil is generally classified as in Standard Specifications. (S.S.C.M. 30012.
- 11.5 Similarly for Roadway Excavation with quantities more than 300 cu.m, rates given under item codes E1-027, E1-028 and E1-029 shall be adopted. When deviation from above rates is necessary, payments shall be made on approved S.S.R based on actual site records (machine hours) or on work studies carried out under close supervision by the Engineer, after obtaining of the Technical Committee.
- 11.6 The rates include for excavation and loading or depositing up to 25 meters. Transport of excavated material more than 25 meters shall always be paid separately unless otherwise directed. In case of foundation excavation for structure, backfilling and compaction to be considered separately unless otherwise specified.
- 11.7 Construction of cofferdams that are necessary shall be paid separately. (S.S.C.M. 3002.6) Rates under items ST1-018, ST1-019, & ST1-020 are not applicable for bridge construction work. For bridge works, it shall be payable on SSR based on closely monitored work studies or on day works at HSR/ machine hours, depending on the site condition.
- 11.8 De-watering necessary for cofferdams shall be paid separately. (S.S.C.M.3002. (6))
- 11.9 Rates under Items E1-001 to E1-019 are not applicable for the excavation for foundation of bridge structure. Payment for such excavation shall be made on

approved S.S.RR based on closely monitored work studies or on day works at HSR/ machine hours, depending on the site conditions.

11.10 Trench excavation for utility services and reinstatement shall be according to S.S.C.M. 305 and shall be read in conjunction with the procedure to be followed by agencies when trenching highways. Under no circumstances pedestrians and traffic using the road shall be allowed to suffer or inconvenienced due to trenching work. Adequate notice have to be given to the public necessary safety precautions have to be taken in advance.

- | | | |
|-------------------|---|---------------------------------|
| a. Ordinary Soil | – | Sand, Loose Soil |
| b. Medium soil | – | Clay, Gravel |
| c. Hard soil | – | Stiff Clay/Cabook etc. |
| d. Soft Rock | – | Weathered Rock/Sand Stone etc. |
| e. Hard Rock | – | Igneous/Metamorphic/Sedimentary |
| f. Marsh Material | – | Peat etc. |

Note: - Special Schedule of Rate to be prepared for item (f).

12 Aggregate /rubble (Including, Loading & Pilling)

- 12.1 Except where otherwise stated, the rates include preparing depots, loading and pilling
- 12.2 Transport of aggregate and rubble not included in the rates shall be paid separately.
- 12.3 Blasting operations shall be carried out as recommended in S.S.C.M. 306 and all works in blasting operations shall confirm to the guidelines given in the National Environmental Act. No. 47 of 1980 and any subsequent amended

13 Earth filling & compaction (S.S.C.M. 304, 400 & 600)

- 13.1 Approved Soil that is pilled shall be spread, watered and well compacted by rolling as per Standard Specifications.
- 13.2 The rates for earth compaction include the cost of watering.

- 13.3 Rates given for the item EW1-003, EW1-004, EW1-005, EW1-006, EW1-007, EW1-008 and EW1-009 on loose volume are for the work where the % density is not specified. If the rates to be deiced on compacted volume basis, the rates for loose volume shall be adjusted by multiplying the specified factor corresponding to the required % density by the factor given in table below.

% Density	Factor
1. For standard density not less than 95%	1.35
2. For standard density not less than 100%	1.42

- 13.4 Transport of water beyond 25m shall be paid separately
- (i) The normal output of earth compaction per day will be 66 cu.m using 8-10 ton Road Roller
 - (ii) For earth work in widening of existing roads where the average width is less than 15 meters, the output of earth compaction using 8-10 ton Road Roller shall be considered as 50 Cubic Meters per day.
- 13.5 Use of small compaction equipment shall be allowed only if the space is restricted for operating 10 ton Road roller or equipment.

14 Rubble paving (rip rap protection S.S.C.M. 804)

- 14.1 P1-001 to P1-004 does not include the cost of rubble, which shall be paid for separately. The coverage of paving is as follows.
- i. For pitch paving 225mm thick 0.26 cu.m of rubble per square Meter
 - ii. For pitch paving 150mm thick 0.17 cu.m of rubble per square Meter
 - iii. For flat paving 225mm thick 0.21 cu.m rubble per square Meter
 - iv. For flat paving 150mm thick 0.15 cu.m rubble per square Meter
- 14.2 Rubble/rip rap paving shall be carried out to avoid damages by watercourses, slip, and slides to road embankments. Action shall be taken to include this item to routine/periodic maintenance flood damage items.

15 Aggregate Compaction (S.S.C.M. 403-408)

- 15.1 The normal coverage areas shall be as follows:
- (i) For paved roads scarified for full width and for strip metaling 14.5 to 19.7 sq.m shall be compacted with 1 cu.m of new 37.5mm aggregate.
 - (ii) For construction of new bases and for edge correction 100sq.m shall be compacted with 8.8-10.0 cu.m of new 37.5mm aggregate spread in two layers to 100mm loose thickness.
- 15.2 Edge correction shall be 0.6m (approx) in width and edge strengthening shall be 1.2m (approx) in width using 100, 37.5, & 19 mm aggregate confirming to S.S.C.M 1103.
- 15.3 Strip metaling shall be considered only when the surface section to be metaled is in narrow strips less than 1.2m in width.
- 15.4 For construction of new bases, where aggregate compaction of the 19mm and 37.5mm is required 1.0 cu.m of 19 mm aggregate is adequate for compacting with 10 cu.m of 37.5mm.
- 15.5 The normal quantities of aggregate that shall be compacted per day as follows:
- (i) For full width of paved road including scarifying and/or hand picking the surface will be 12.75cu.m of new aggregate per day (8 hours).
 - (ii) For construction of new bases, 23.5 cu.m of new aggregate per day (8 hours).
 - (iii) For strip or edge correction including loading scarifying and/ or handpicking the surface, 9.90 cu.m per day (8 hours).
- 15.6 The average rate of traveling of Oil/Diesel Roller is 20 Km per day.
- 15.7 Metal Construction
- (i) The rates for items from R1 – to R1 – include the necessary re transport of metal and no further re transport could be paid.
 - (ii) The rates for metal consolidation include transport of water.

- (iii) Certificate of payments for metal involved should be based on metal pile measurements.
- (iv) For this analysis the grading of the base course for 1 m³ as followed.

No	Material	Composition
1	[37.50 mm]]	0.20 M3 (20 % of Vol.)
2	25.00 mm	0.20 M3 (20 % of Vol.)
3	18.00 mm	0.20 M3 (20 % of Vol.)
4	12.00 mm	0.20 M3 (20 % of Vol.)
5	Quarry dust mm	0.20 M3 (20 % of Vol.)

For the use at site, prior approval of CE/DD roads should be obtained for gradation.

Before certifying the payment for the item S/-001 to S/-040 a (section 7) the technical Officer has to measure that the actual rate of application of bitumen and the material return to be adjusted, according to rate of application.

The rate for item M1-001, M1-004 and M1-007 to M1-0013 include the necessary re-transport of aggregate and no further re-transport costs shall be paid.

- 15.8 The actual scarified area (which is not necessary the bitumen surfaced area) shall be paid for in item M1-002 & M1-003. Normally 0.3m width (approx.) shall be reckoned as requiring scarifying for edge correction.
- 15.9 Tempering and sharpening for scarifies tines are included in the rates for item M1-003 and shall not be paid for separately.
- 15.10 Transport of water beyond 25 meters shall be paid separately.
- 15.11 Before certifying the payment for the item S/-001 to S/-040 a (section 7) the technical Officer has to measure that the actual rate of application of bitumen and the material return to be adjusted, according to rate of application. It is the responsibility of the Technical Officer to maintain the applying rate of bitumen within the given range.

16 Road side and drainage systems (S.S.C.M 104)

- 16.1 The rates exclude the cost of loading, unloading and transporting but include spreading suitably in the vicinity unless otherwise directed.
- 16.2 Culvert inlets and outlets should be cleaned before and after the rains.
- 16.3 For clearing choked culvert (item DR1-012) with head room/ diameter less than 1 meter, day works rates shall be adopted.
- 16.4 Drains should be cleared before commencing any types of surfacing (S.S.C.M 501-507)

17 Bridge, Culvert, retaining walls, etc. (S.S.C.M 1001-1010)

Note;

17.1 Concrete work

Concrete mixers should be used for mixing of all reinforced concrete or concrete specified by their Grade and in other concrete mixing, exceeding 3 cu.m, unless otherwise directed. Weigh batch mixers shall be used for all concrete specified on Grade 25 and above.

- (i) The cost of shuttering is not included in the concrete rate, and shall be paid separately.
- (ii) The cost of hire charge for concrete mixer is included in the rates for concrete using mixers.
- (iii) Construction of necessary cofferdam, shoring, forming and de-watering shall be paid separately.
- (iv) For all concrete with 19mm aggregate, crusher plant materials shall be used unless otherwise directed.
- 17.2 Only sand of approved quality shall be used for cement mix, mortars & concretes.

- 17.3 The rate includes the cost of transport up to 30 meters on level ground in the relevant items. Any vertical transport required in excess of first 1.5 meters upwards or down wards shall be separately considered.
- 17.4 Transport of water beyond 25 meters shall be paid separately.
- 17.5 To obtain the nominal mix of cement concrete 1:2:4 (19 mm); batching of materials in the field under average condition will be in the proportions 1:2 ½:4 volumes. Cement concrete 1:3:6 (37.5 mm) and cement concrete 1:4:8 (50 mm) may continue to be batched by volume in the specified normal proportions; cement should be by bags of 50 Kg. and shall deem to be 0.035 cu.m in volume.
- 17.6 The quantities of the various materials for cement concrete and cement mortars required to yield an average workable mix shall be as follows.

In items 12 – 15 the cement quantity is exclusive of that required for smoothing where necessary.

No	Description	Proportion [nominal mix] or Grade	yield Unit	Cement in 50 Kg.	sand (cu.m)	Aggregate / Rubble (cu.m)
1	cement concrete	g ⁴⁰ (19 mm)	cu.m	8.26*	0.46*	0.79*
2	cement concrete	g ³⁰ (19 mm)	cu.m	7.16*	0.48*	0.80*
3	cement concrete	g ²⁵ 19 mm)	cu.m	7.16*	0.50*	0.79*
4	cement concrete	g ²⁵ (37.5mm+19 mm) 70% 30%	cu.m	5.86*	0.46*	37.5=0.62* 19.0=0.27*
5	cement concrete	g ²⁰ (19 mm)	cu.m	6.04*	0.53*	0.79*
6	cement concrete	1:1 ½:3 (19 mm)	cu.m	8.12	0.60	0.91
7	cement concrete	1:2:4 (19 mm)	cu.m	5.65	0.60	0.90
8	cement concrete	1:2:4 (37.5 mm)	cu.m	5.65	0.60	1.00
9	cement concrete	1:3:6 (19 mm)	cu.m	4.38	0.60	0.91
10	cement concrete	1:3:6 (37.5 mm)	cu.m	4.38	0.60	1.00
11	cement concrete	1:4:8 (19 mm)	cu.m	3.18	0.60	1.00
12	12.5 mm cement render	1:2 mix	sq.m	0.15	0.013	-
13	19.0 mm cement render	1:2 mix	sq.m	0.23	0.020	-
14	12.5 mm cement render	1:3 mix	sq.m	0.12	0.016	-

15	19.0mm cement render	1:3 mix	sq.m	0.19	0.024	-
16	Random Rubble masonry in cement/sand mortar	1:6 mix	cu.m		0.40	1.10

The above mix proportion for Grade concrete is given for estimation purposes.

The actual proportion for Grade concrete shall be directed by mix designs at sit and the rates shall be adjusted with the approval of the engineer.

17.7 Ready mixed concrete;

Ready mix concrete shall be used only on the written approval of the engineer and for the procurement of the material government tender procedure

The contractor for ready mix concrete shall be a copious supplier having minimum of one year experience of supplying ready mix concrete to project acceptable to the tender board and shall have sufficient & pumping facilities, laboratory facilities for quality control and qualified staff.

17.8 Wearing surface for R.C.C/ P.C.C. decking (S.S.C.M. 1403)

Generally for 74.5 sq.m of 50mm thick compacted wearing surface, the quantities of material required will be 3.5 cu.m 19mm to 3.2mm graded aggregate, 2.3cu.m sand and 381 liters Bitumen and 91 liters of kerosene. If Emulsion is used, the quantity of material required is 500 liters of Emulsion and 273 liters of water.

17.9 Concrete pipe culvert (S.S.C.M. 1403)

- (i) The diameter of pipes indicated refers to the internal diameter.
- (ii) The rates include the cost of pipe, collars, rolling up to the distance of 30m lowering to bed up to 1.8 meter depth, aligning and fixing.
- (iii) Excavation and backfilling of trench is not included in the rates unless otherwise mentioned.

18 Labour, Plant and Materials

- 18.1 All labor, plant, equipment and materials have to be provided by the contractor.
- 18.2 The Engineer should maintain performance records of all types of machinery for future reference.

19 Maintenance of road signs and marking (S.S.C.M. 1501 -1502)

All traffic signs, kerbs, parapets, guardrails, barricading and Km posts should be painted at least once a year.

20 Quality control work; (S.S.C.M. 1600)

- 20.1 Special attention should be made to control the alignment, thickness and surface regulation of pavement layers as per section 1601 of the S.S.C.M.

21 Working rates of HSR are calculated as follows

- A. For the projects where the Total Cost Estimate (TCE) is less than or equal 05 million rupees**

A.1 Site overhead percentage should be calculated according to the site conditions. It can be varied from site-to-site. Maximum limit of site overhead is 16%.

A.2 Maximum Limit of Overheads & profit margin is taken as 26% of the basic rate.

Where,

Item No	Overhead Type	Percentage
A	Site Overhead (Max. Limit)	16%
B	Profit	10%
	Total Overhead & Profit	26%

Item No	Site Overhead	Percentage
1	Supervision of work (wage of work Supervisor)	1.0%
2	Supervision of labor (wage of ganger)	4.0%
3	Temporary works:	
	a. Access road & maintenance	0.2%
	b. Site building for accommodation of part labor	0.7%
	c Control stores building	0.6%
	d Fencing and protection	0.3%
	e Provision of water, light etc.	0.3%
	f Cleaning	0.2%
	g. Stacking of material including cement & steel	0.4%
4	Security for construction sites	0.8%
5	Tools and implements for miscellaneous work	0.9%
6	Setting out according to the drawing	0.5%
	a. Providing sample for testing	0.2%
7	Transportation of supervisory staff	1.0%
8	Job office, furniture, Stationery, Suppliers, water, light, etc	0.9%
9	Wages of job office staff	1.2%
10	Transportation of job office staff	0.4%
11	Bonds of bit performance and fidelity guarantee	0.3%
	Providing Insurance of work and workman's Compensation	0.5%
12	Interest in capital investment	1.6%
	Total	16%

Table-03

✓ Overheads Rate = Basic Rate + Overheads & Profit Margin

a. For the projects where the Total Cost Estimate (TCE) is over 05 million rupees

- ✓ Separate preliminary bill shall be included (Applicable site overhead percentages for the preliminary bill shall be taken from table -03)
- ✓ Overheads & profit margin is taken as 16% of the basic rate.

Item No	Overhead Type	Percentage
A	Site Overhead	6%
B	Profit	10%
	Total Overhead & Profit	16%

Table-02

Item No	Site Overhead	Percentage
1	Head office and rent, light, telephone, stationery suppliers, Furniture, Etc. for same	0.6%
2	Salaries head office manager, Engineer's, Technical Assistances, Draughtsman, Clerks, Stenos, Typiests, Minor staff and drivers	1.2%
3	Transportation and subsistence of head office staff	1.0%
4	Insurance , Interest, and Taxes on business	0.4%
5	Legal expenses and consultancy fees	0.2%
6	Workshop and yard rents, sheds, garages and supplies	2.2%
7	Salaries of workshop and yard storekeepers, drivers, foremen, Mechanics and workmen	0.4%
	Total	6.0%

Table-04

Method of Measurement

- I. The Bill of Quantities have been generally prepared in accordance with principles of the Standard Method of Measurements for Building works in Sri Lanka (SLS 573 1999)

Head transport rates given in Irrigation rate have to be taken for slop angle less than 20 in hilly areas, when the slop angle exceeds 20° the head transport to be referred to central provincial price committee report 2021. However, considering site condition, engineer can decide the necessary Head transport.

- II. A Confidential document and to be used for Central provincial council work only
- III. This document to be used for estimation purpose only
- IV. Additional should be prepared for any item deviate from the description or not listed based on Irrigation rate Annalise / work study

SI – British conversion factors

Mass 1Kg	2.204 lb
Length 1m	3.281 ft
Volume 1m ³	35.315 ft ³
1 Cu.ft	0.028 m ³
1 Sqrs	9.29 m ²
1 cub	2.831 m ³
1 sq.ft	0.092 m ²
1 lb	0.453 Kg
1 cwt	50.802 Kg
1 gal	4.546 l

22 HSR Analysis is for internal use only. It cannot be produced in Court of law as reference/ authority and thus is a privilege document.

HIGHWAY SCHEDULE OF RATES-2024

Section 1 - Transport

See Section 1 of General Notes for Selection of Mode of Transport

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
T1-001	Transport of Soil beyond 25m and up to and including 100 m by Any Means (including Loading and Unloading)	Cu.m	817.44	704.69
T1-002	Transport beyond 100m and up to and including 0.5km by Any Means.(Excluding Loading)- using by Tarctor & Trailor	Cu.m	446.50	385.00
T1-003A	Transport beyond 0.5km and up to and including 1.0km by Any Means.(Excluding Loading)-using by Tarctor & Trailor	Cu.m	478.50	412.50
T1-003B	Transport of each 1km beyon 1.0 to 9.0 km by Any Means (Excluding Loading)-using by Tarctor & Trailor	Cu.m	74.50	64.25
T1-003C	Transport of Each Subsequent 1km beyond 9km by Any Means (Excluding Loading)-using by Tarctor & Trailor	Cu.m	50.00	43.00
T1-006	Transport of Material in Bulk Excluding Loading (for distance less than or equal 3 kilometers) - using by Lorry/Tipper/Dump Truck	Cu.m	252.00	217.50
T1-007A	Transport of Material in Bulk Excluding Loading (from 3km upto 10km Distance)-using by Lorry/Tipper/Dump Truck	Cu.m/km	84.00	72.50
T1-007B	Transport of Material in Bulk Excluding Loading (from 10km upto 50km Distance)-using by Lorry/Tipper/Dump Truck	Cu.m/km	65.00	56.00
T1-007C	Transport of Material in Bulk Excluding Loading (from 50km upto 100km Distance)-using by Lorry/Tipper/Dump Truck	Cu.m/km	63.00	54.25
T1-007D	Transport of Material in Bulk Excluding Loading (beyond 100km)-using by Lorry/Tipper/Dump Truck	Cu.m/km	62.50	54.00
T1-009	Transport of Premix in Bulk, Excluding Loading other than at Mixing Plant	TonKm	36.00	31.00
T1-010A	Transport of Barrels of Bitumen for First 1.0km of Transport (Excluding Loading and Unloading)	BrlKm	70.25	60.50
T1-010B	Transport of Barrels of Bitumen for Each Subsequent 1.0km From 1.0km - 9.0km (Excluding Loading and Unloading)	BrlKm	17.20	14.80
T1-010C	Transport of Barrels of Bitumen for Each Subsequent 1.0km Beyond 9.0km (Excluding Loading and Unloading)	BrlKm	12.00	10.35
T1-010E	Transport of empty Barrels of Bitumen for First 1.0km of Transport (Excluding Loading and Unloading)	BrlKm	17.60	15.15
T1-010F	Transport of empty Barrels of Bitumen for Each Subsequent 1.0km From 1.0km - 8.0km (Excluding Loading and Unloading)	BrlKm	6.80	5.85
T1-010G	Transport of empty Barrels of Bitumen for Each Subsequent 1.0km Beyond 8.0km (Excluding Loading and Unloading)	BrlKm	16.85	14.55
T1-010H	Loading empty barrels of Bitumen	Brls	9.35	8.80
T1-010J	Unloading empty barrels of Bitumen	Brls	3.95	3.70
T1-010K	Cutting & straightening empty barrels of Bitumen	Brls	246.50	216.50
T1-013	Loading Barrels of Bitumen Inclusive of Rolling upto 25m	Brls	50.75	43.75

T1-014	Unloading Barrels of Bitumen Inclusive of Rolling and Stacking	Brls	21.75	18.75
T1-015A	Transport of Hume Pipes 152mm diameter for 1st 1.0km of Transport (Excluding Loading and Unloading)	L.mkm	53.00	45.75
T1-015B	Transport of Hume Pipes 152mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport (Excluding Loading and Unloading)	L.mkm	14.40	12.40
T1-015C	Transport of Hume Pipes 152mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport (Excluding Loading and Unloading)	L.mkm	10.30	8.90
T1-018A	Transport of Hume Pipes 229mm diameter for 1st 1.0km of Transport (Excluding Loading and Unloading)	L.mkm	59.50	51.50
T1-018B	Transport of Hume Pipes 229mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport (Excluding Loading and Unloading)	L.mkm	16.15	13.95
T1-018C	Transport of Hume Pipes 229mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport (Excluding Loading and Unloading)	L.mkm	11.60	10.00
T1-021A	Transport of Hume Pipes 305mm diameter for 1st 1.0km of Transport (Excluding Loading and Unloading)	L.mkm	79.50	68.50
T1-021B	Transport of Hume Pipes 305mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport (Excluding Loading and Unloading)	L.mkm	21.55	18.60
T1-021C	Transport of Hume Pipes 305mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	15.50	13.35
T1-024A	Transport of Hume Pipes 457mm diameter for 1st 1.0km of Transport(Excluding Loading and Unloading)	L.mkm	119.00	103.00
T1-024B	Transport of Hume Pipes 457mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	32.50	28.00
T1-024C	Transport of Hume Pipes 457mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	23.25	20.00
T1-027A	Transport of Hume Pipes 610mm diameter for 1st 1.0km of Transport(Excluding Loading and Unloading)	L.mkm	159.00	137.00
T1-027B	Transport of Hume Pipes 610mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	43.25	37.25
T1-027C	Transport of Hume Pipes 610mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	31.00	26.75
T1-030A	Transport of Hume Pipes 915mm diameter for 1st 1.0km of Transport(Excluding Loading and Unloading)	L.mkm	238.50	205.50
T1-030B	Transport of Hume Pipes 915mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	64.75	55.75
T1-030C	Transport of Hume Pipes 915mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	46.50	40.00

T1-033A	Transport of Hume Pipes 1220mm diameter for 1st 1.0km of Transport(Excluding Loading and Unloading)	L.mkm	542.00	467.50
T1-033B	Transport of Hume Pipes 1220mm diameter for Each Subsequent 1.0km From 1.0 to 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	195.00	168.00
T1-033C	Transport of Hume Pipes 1220mm diameter for Each Subsequent 1.0km Beyond 8.0km of Transport(Excluding Loading and Unloading)	L.mkm	141.50	122.00
T1-036	Loading and Unloading 152mm diameter 2.44m Long Hume Pipes	No	156.50	135.00
T1-037	Loading and Unloading 229mm diameter 2.44m Long Hume Pipes	No	182.50	157.50
T1-038	Loading and Unloading 305mm diameter 2.44m Long Hume Pipes	No	362.50	312.50
T1-039	Loading and Unloading 457mm diameter 2.44m Long Hume Pipes	No	603.00	520.00
T1-040	Loading and Unloading 610mm diameter 2.44m Long Hume Pipes	No	786.00	678.00
T1-041	Loading and Unloading 915mm diameter 2.44m Long Hume Pipes	No	1,450.00	1,250.00
T1-042	Loading and Unloading 1220mm diameter 2.44m Long Hume Pipes	No	2,900.00	2,500.00
T1-043	Transport of Recast Kerb Stones (All Types) for Road Works, Including Loading and Unloading	L.mKm	3.60	3.10
T1-044	Transport of Recast Kerb Stones for Bridge Works, Including Loading and Unloading	L.mKm	5.45	4.70
T1-045	Transport of Precast Concrete Handrails, Up Rights and Joints for Bridge Works, Including Loading and Unloading	L.mKm	10.80	9.30
T1-046	Transport of Precast Concrete Slabs 450x450x50 mm for Foot Walks, Including Loading and Unloading	L.mKm	11.90	10.25
T1-047	Transport of Precast Concrete Standard Boundary Markers Including Unloading Only	No.km	5.00	4.30
T1-048	Transport of Emulsion	100ltr km	2.60	2.25
T1-049	Transport of Gabion Mesh 4x1x1 meters	No km	3.25	2.80
T1- 050	Transporting Road Roller up to 25 km	No	7,128.00	7,870.50
T1- 050A	Additional cost for Transporting Road Roller beyond 25 km	km	290.40	320.65
T1- 051	Transport of cement 1st km including loading and unloading	1 bags(50kg)	8.43	1.61
T1- 051A	Transport of cement beyond 1.00 km to 9km by any means	1 bags(50kg)	1.46	1.61
T1- 051B	Transport of cement each Subsequent 1.0km beyond 9.0km by any means	1 bags(50kg)	1.16	1.28
T1- 052	Transport of steel 1st km including loading and unloading	50kg	11.91	13.15
T1- 052A	Transport of steel beyond 1.00 km to 9km by any means	50kg	2.32	2.57
T1- 052B	Transport of steel each Subsequent 1.0 km to 9.0 km by any means	50kg	1.74	1.92

Section 2 - Excavation

Roadway and Foundation Excavation (Including Loading, Unloading, and Transporting within 25 meters Distance Unless Otherwise Specified)

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
E1-001	Excavation in Loose Soil (Dry) [SSCM 301.2(IV)]	Cu.m	1,165.00	1,005.00
E1-002	Excavation in Loose Soil (Wet) in Slips [SSCM 301.3(0)]	Cu.m	1,430.00	1,230.00
E1-003	Excavation in Ordinary Soil (Cutting Measurement) [SSCM 301.2(V)]	Cu.m	1,690.00	1,460.00
E1-004	Excavation in Ordinary Soil [Vehicle Measurement] [SSCM 301.2(V)]	Cu.m	1,490.00	1,280.00
E1-005	Excavation in Medium Soil (Cutting Measurement) [SSCM 301.2(VI)]	Cu.m	2,215.00	1,910.00
E1-006	Excavation in Medium Soil (vehical Measurement) [SSCM 301.2(VII)]	Cu.m	1,885.00	1,625.00
E1-007	Excavation in Hard Soil (Cutting Measurement) [SSCM 301.2(VII)]	Cu.m	3,265.00	2,815.00
E1-008	Excavation in Hard Soil (Vehicle Measurement) [SSCM 301.2(VII)]	Cu.m	2,775.00	2,395.00
E1-009	Excavation in Unclassified Soil (Cutting Measurement) [SSCM 301.2a(1)]	Cu.m	2,390.00	2,060.00
E1-010	Excavation in Soft Rock (Cutting Measurement) [SSCM 301.2(VII)]	Cu.m	3,530.00	3,045.00
E1-010A	Excavation in Mud\Marshy Material (Cutting Measurement) [SSCM 301.2(VII)]	Cu.m	2,740.00	2,365.00
E1-011	Excavation Pit\Trench for Foundation in Ordinary Soil not Exceeding 1.5m deep, Including Leveling and Ramming Bottom, Exc. Material Deposited within 25m or as Directed. [SSCM 301.1-.3]	Cu.m	2,215.00	1,910.00
E1-012	Excavation Pit\Trench in Foundation in Medium Soil not Exceeding 1.5m deep, Including Leveling and Ramming Bottom, Exc. Material Deposited within 25m or as Directed. [SSCM 301.1-.3]	Cu.m	2,740.00	2,365.00
E1-013	Excavation Pit\Trench in Foundation in Hard Soil not Exceeding 1.5m deep, Including Leveling and Ramming Bottom, Exc. Material Deposited within 25m or as Directed. [SSCM	Cu.m	3,790.00	3,270.00
E1-014	Excavation Pit\Trench in Foundation in Unclassified Soil not Exceeding 1.5m deep, Including Leveling and Ramming Bottom, Exc. Material Deposited within 25m or as Directed. [SSCM	Cu.m	2,915.00	2,515.00
E1-015	Excavation Pit\Trench in Foundation in Mud/Marsh not Exceeding 1.5m deep, Including Leveling and Ramming Bottom, Exc. Material Deposited within 25m or as Directed. [SSCM	Cu.m	3,265.00	2,815.00
E1-019	Excavation Soft Rock not Exceeding 1.5m depth [SSCM 301.2(II)]	Cu.m	4,315.00	3,720.00
E1-021	Piling Available Soil	Cu.m	262.50	226.50
E1-022	Loading Available Soil to a Tractor or Equivalent	Cu.m	346.50	299.00

E1-023	Excavating Rock Requiring Blasting, for Roadway for Boulders, Excluding Dozing Away [SSCM 301.2(III) & 306.1-306.4]	Cu.m	4,419.83	3,810.20
E1-024	Boulders, Sledging Piling etc	Cu.m	5,170.00	4,455.00
E1-025	Rock Requiring Blasting	Cu.m	5,350.00	4,615.00
E1-025A	Hard Rock Blasting Use for chemical	Cu.m	34,266.40	29,540.00
E1-025B	Hard Rock Blasting Use for chemical & Piling	Cu.m	36,337.83	31,325.71
E1-026	Rock Requiring Blasting and Piling (Bank Measurement)	Cu.m	8,000.00	6,895.00
E1-027	Roadway Excavation in Unclassified Soil Using Machinery Excluding Loading and Piling (Cutting Measurement)	Cu.m	198.50	171.00
E1-028	Loading Materials by Machinery in Roadway Excavations (Cutting Measurement)	Cu.m	213.00	183.50
E1-029	Trimming / Cambering by Motor Grader (Cutting Measurement)	Cu.m	61.75	53.25
E1-029A	Trimming / Cambering by Motor Grader (Cutting Measurement)	Sq.m	12.35	10.65

Section 3 - Aggregate/Rubble
Aggregate / Rubble Including Loading

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
A1-001	Sledging Available Rock 150-225mm Rubble including Loading	Cu.m	4,140.00	3,570.00
A1-002	Blasting etc and Piling 150-225mm Rubble including Loading	Cu.m	6,550.00	5,645.00
A1-002A	Blasting Sledging etc. and Piling 150-225mm Rubble using Compressor and Hand Held Drills including Loading	Cu.m	6,615.00	5,700.00
A1-003	Blasting etc. and Piling 100mm Aggregate including Loading	Cu.m	7,250.00	6,250.00
A1-004	Blasting etc and Piling 75mm Aggregate incl/Loading	Cu.m	8,300.00	7,155.00
A1-005	Blasting etc and Piling 50mm Aggregate incl/Loading	Cu.m	9,875.00	8,510.00
A1-006	Blasting etc and Piling 37.5mm Aggregate incl/Loading	Cu.m	11,450.00	9,870.00
A1-007	Blasting etc and Piling 25mm Aggregate incl/Loading	Cu.m	14,075.00	12,134.20
A1-008	Blasting etc and Piling 19mm Aggregate incl/Loading	Cu.m	19,852.62	17,114.33
A1-009	50 mm Aggregate, Single Size Crusher Production Including Loading [SSCM 404.1-406.1 : Table 1701-4	Cu.m	3,790.00	3,270.00
A1-010	37.5 mm Aggregate, Single Size Crusher Production Including Loading [SSCM 404.1-406.1 : Table 1701-4	Cu.m	4,305.00	3,710.00
A1-011	19 mm Aggregate, Single Size Crusher Production Including Loading [SSCM 404.1-406.1]	Cu.m	3,790.00	3,270.00
A1-012	12 mm Aggregate, Single Size Crusher Production Including Loading [SSCM 404.1-406.1 : Table 1701-4	Cu.m	3,585.00	3,090.00
A1-013	Aggregate 37.5 mm Down Graded (SSCM-Table 1701.5) Including Loading	Cu.m	3,330.00	2,870.00
A1-014	Crusher Fines 6.3 mm Down, Including Loading for 1.0 cu.m	Cu.m	3,175.00	2,740.00
A1-014A	Crusher Fines (DUST), Including Loading for 1.0 cu.m	Cu.m	2,715.00	2,340.00
A1-015	Aggregate 19 mm for Seal Coat Treatments as per SSCM Table 1701-8, Including -Do-	Cu.m	3,995.00	3,445.00
A1-016	Aggregate 12.5 mm for Seal Coat Treatments as per SSCM Table 1701-8, Including -Do-	Cu.m	3,790.00	3,270.00
A1-018	Piling Available Aggregate	Cu.m	273.00	235.50
A1-019	Piling Available Rubble	Cu.m	546.00	471.00
A1-020	Loading Available Aggregate / Rubble	Cu.m	525.00	452.50

Section 4 - Earth Filling & Compaction

Approved Earth Filling and Compaction

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (With OH & Profit 0%)
EW-001	Approved Soil (Type I & II Materials) Excavation for Bases & Shoulder Construction Including Loading and Piling (Loose Volume) [SSCM 601.4]	Cu.m	3,185.00	2,745.00
EW-002	Spreading Piled Approved Soil (Loose Volume)	Cu.m	426.00	367.50
EW-003	Approved Soil Spread & Rolled Including Roller Hire Charges, Fuel & Watering (Loose Volume) [SSCM 601.1 - 4]	Cu.m	1,225.00	1,055.00
EW-003A	Approved Soil Spread & Rolled Using Machinery Including Motor Grader & Roller Hire Charges, fuel & Watering (Loose Volume) [SSCM 601.1 - 4]	Cu.m	764.00	659.00
EW-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 - 4]	Cu.m	1,420.00	1,225.00
EW-006	Approved Soil Spread & Compacted in Places Behind Abutments and Structures, Shoulders about Sub Bases level and in Service line Trenches, Using 1/2 to 1 Ton Vibrating Roller Including Watering (Loose Volume) [SSCM 601.1 - 4]	Cu.m	1,255.00	1,080.00
EW-007	Approved Soil Spread & Compacted in 150 to 225 mm Thick Layers Using Machine Rammer at Narrow Places (Loose Volume)	Cu.m	1,255.00	1,080.00
EW-008	Spreading , Leveling and Compacting Manually Using Standard Cast Iron Stamper or Equivalent and Filling in 150-225 mm Thick Layers (Loose Volume)	Cu.m	1,180.00	1,020.00
EW-009	Trimming , Leveling and Compaction of Original Ground/Subgrade to 100 % STD Density [SSCM 304.3(c)]	Sq.m	139.50	120.00
EW-010	Trimming , Leveling and Compaction of Original Ground/Subgrade to 95 % STD Density [SSCM 304.3(c)]	Sq.m	126.50	109.50
EW-011	Approved Soil Excavation for Embankment Filling Including Loading and Piling (Loose Volume) [SSCM 601.1 TO 601.4]	Cu.m	2,590.00	1,975.00
EW-013	Approved Soil (Type I & II Materials) Excavation using Machinery for Bases & Shoulder Construction Including Loading and Piling (Loose Volume) [SSCM 601.1 - 4]	Cu.m	2,105.00	1,815.00
EW-014	Approved Soil (Type I & II) Excavation using Machinery for Embankment filling Including Loading and Piling (Loose Volume) [SSCM 601.1 - 4]	Cu.m	2,105.00	1,815.00
EW-015	Grading and Spreading by motor grader	Cu.m	115.00	99.25

Section 5 - Rubble Pitching/Paving

Rubble to be Paid Separately

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
P1-001	Pitched Paving 225 mm Thick(Excluding cost of rubble)	Sq.m	666.00	574.00
P1-002	Pitched Paving 150 mm Thick -do -	Sq.m	499.00	430.50
P1-003	Flat Paving 150 mm Thick - do--	Sq.m	333.00	287.00
P1-004	Flat Paving 225 mm Thick - do--	Sq.m	442.50	381.50

Section 6 - Aggregate Spreading & Rolling

Aggregate Spreading and Compaction - Cost of Water to be Deducted from Rate if not Carried Out under the Relevent Items

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
M1-001	Spreading , Watering & Rolling 100 mm Aggregate Including Hire Charges of roller (Loose Volume) [SSCM 304.3(d),(e)]	Cu.m	1,965.00	1,695.00
M1-001A	Spreading , Watering & Rolling 100 mm Aggregate Including Hire Charges of roller (Loose Volume) [SSCM 304.3(d),(e)]below 11.32 Cum	Cu.m	3,010.00	2,595.00
M1-002	Braking Road Surface to 50 mm Depth by Hand , Screen & Replace Old Aggregate	Sq.m	208.00	179.50
M1-003	Scarifying Road Surface to 50 mm Depth by roller, Screen, & Replace Old Aggregate.	Sq.m	167.50	144.50
M1-004	Spreading & Compaction 50-19 mm New Aggregate by Roller Including Watering Hire Charges of Roller, Etc. (Loose Volume) [SSCM 403.3(c)]	Cu.m	2,820.00	2,430.00
M1-004A	Spreading & Compaction 50-19 mm New Aggregate For Extensive Patching by Roller Including Watering Hire, Etc. (Loose Volume) [SSCM 403.3(c)]	Cu.m	4,385.00	3,780.00
M1-005	Breaking 50 mm Additional Depth by Hand Screening & Replacing Old Aggregate	Sq.m	130.50	112.50
M1-006	Scarifying 50 mm Additional Depth With Roller, Screening & Replacing Old Aggregate	Sq.m	138.50	119.50
M1-007	Spreading Watering & Compacting 50-19 mm Aggregate in Edge Correction using roller Including Hire, Etc. (Loose Volume) [SSCM 1103.3]	Cu.m	3,700.00	3,190.00
M1-008	Spreading watering & Compacting 50-19 mm Aggregate in Edge Correction Using Roller Including Hire ,Etc (Loose Volume) [SSCM 1103.3]	Cu.m	2,975.00	2,565.00
M1-009	Spreading & Compacting 50-19 mm Aggregate by 8-10 ton Roller After Applying track Coat in Overlay (Loose Volume) (Tack Coat Paid Separately)	Cu.m	2,685.00	2,315.00
M1-009A	Spreading & Compacting 50-19 mm Aggregate by 8-10 ton Roller After Applying track Coat in Overlay (Loose Volume) (Tack Coat Paid Separately) below 9.91 cum within km	Cu.m	4,295.00	3,705.00
M1-010	Water Bound Macadam Spreading watering and 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	9,430.00	8,130.00

M1-011	Dry Bound Macadam Spreading watering and compacting 50-25 mm Aggregate and filling the voids to refusal with Crusher Fines by Rolling with Vibrating Roller to Form a Dry Bound Macadam base Excluding Transport for Aggregates and Fines (Loose Volume) [404]	Cu.m	9,040.00	7,795.00
M1-012A	Dense Graded Aggregate Base (Aggregate Base Course) Spreading watering and 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)	Cu.m	4,020.00	3,465.00
M1-013	Dense Graded Agg.Base [ABC], Spreading Watering and Compacting Graded 37.5mm Aggregate to form a Dense Aggregate Base in Strips, Av Width not exceeding 1.2m for Road Widening excl Transport of Aggregate(Loose Volume) [SSCM 405.1 -.4]	Cu.m	6,170.00	5,320.00
M1-013A	Graded 37.5 ABC Material Spread and Rolled in Strips, Average Width not Exceeding 1.2m Using Machinery inch Motor Graders and Roller Hire Charges Fuel and Watering (Loose Vol) [SSCM 405.1-.4]	Cu.m	4,255.00	3,670.00

Section 7 - Road Surface Treatment

Transport of Emulsion/Bitumen to be Paid Separately.

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
S1-001	Bitumen Surface 1st Coat Using 2ltr/Sq.m including Blinding with Sand @ the Rate of 125 Sq.m/Cu.m [SSCM 503.1]	Sq.m	582.00	501.00
S1-001A	Bitumen Surface 1st Coat Using 2ltr/Sq.m including Blinding with Sand @ the Rate of 125 Sq.m/Cu.m [SSCM 503.1] (Authority Bitumen)	Sq.m	120.00	103.50
S1-002	Bitumen Surfacing 1St Coat using 2ltr/Sq.m including Blinding with Gravel where Sand is not Available within 16km.	Sq.m	584.00	503.00
S1-002A	Bitumen Surfacing 1St Coat using 2ltr/Sq.m including Blinding with Gravel where Sand is not Available within 16km. (Authority Bitumen)	Sq.m	122.50	105.50
S1-003	Double Bituminous Surface Treatment with Hot Bitumen (Manual) including Internal Transport (Binder and Aggregate Paid Separately) [SSCM 505.1-.5 and Table 505.1]	Sq.m	406.00	350.00
S1-004	Single Bituminous Surface Treatment with Hot Bitumen (Manual, including Internal Transport) (Binder and Aggregate Paid Separately) [SSCM 505.1-.5 and Table 505.1]	Sq.m	214.50	184.50
S1-005	Double Bituminous Surface Treatment with Emulsion (CRS-1) (Manual including Internal Transport) (Binder and Aggregate Paid Separately)	Sq.m	392.50	338.00
S1-006	Single Bituminous Surface Treatment with Emulsion (CRS-1) (Manual including Internal Transport) (Binder and Aggregate Paid Separately)	Sq.m	204.50	176.00
S1-007	Bitumen Surfacing Subsequent Coat using 0.75ltr/Sq.m including Blinding with Sand @ 125 Sq.m/Cu.m [SSCM 503.1(b)]	Sq.m	262.00	226.00
S1-007A	Bitumen Surfacing Subsequent Coat using 0.75ltr/Sq.m including Blinding with Sand @ 125 Sq.m/Cu.m [SSCM 503.1(b)] (Authority Bitumen)	Sq.m	89.00	76.75
S1-008	Bitumen Surfacing 2nd/Subsequent Coat using 1.0ltr/Sq.m including Blinding with Sand @ 125 Sq.m/Cu.m (New Work) [SSCM 503.1(b)]	Sq.m	320.00	275.50
S1-008A	Bitumen Surfacing 2nd/Subsequent Coat using 1.0ltr/Sq.m including Blinding with Sand @ 125 Sq.m/Cu.m (New Work) [SSCM 503.1(b)](Department Bitumen)	Sq.m	89.50	77.25
S1-009	Bitumen Surfacing Subsequent Coat using 0.75ltr/Sq.m including Blinding with Gravel @ 125 Sq.m/Cu.m [SSCM 503.1(b)]	Sq.m	264.50	228.00
S1-009A	Bitumen Surfacing Subsequent Coat using 0.75ltr/Sq.m including Blinding with Gravel @ 125 Sq.m/Cu.m [SSCM 503.1(b)] (Authority Bitumen)	Sq.m	91.50	78.75
S1-010	Bitumen Surfacing 2nd/Subsequent Coat using 1.0ltr/Sq.m including Blinding with Gravel where Sand is not Available within 16km (New Work) [SSCM 503.4(c)]	Sq.m	322.00	278.00
S1-010A	Bitumen Surfacing 2nd/Subsequent Coat using 1.0ltr/Sq.m including Blinding with Gravel where Sand is not Available within 16km (New Work) [SSCM 503.4(c)] (Authority Bitumen)	Sq.m	91.50	78.75

S1-011	Emulsion/Cold Bitumen(CRS-1) Surface Treatment Ist Coat with 3.5 ltr/Sq.m Including Blinding with Sand, @ 125 Sq.m/Cu.m (Manual)	Sq.m	761.00	656.00
S1-012	Emulsion/Cold Bitumen(CRS-1) Surface Treatment Ist Coat with 3.5 ltr/Sq.m (Using Trolley, Emulsion) Including Blinding with Sand, @ 125 Sq.m/Cu.m (Manual)	Sq.m	736.00	635.00
S1-013	Emulsion/Cold Bitumen(CRS-1) Surface Treatment Subsequent Coat with .75 ltr/Sq.m Including Blinding with Sand, @ 125 Sq.m/Cu.m (Manual)	Sq.m	200.50	173.00
S1-014	Emulsion/Cold Bitumen(CRS-1) Surface Treatment Subsequent Coat with .75 ltr/Sq.m (Using Trolley, Emulsion) Including Blinding with Sand, @ 125 Sq.m/Cu.m	Sq.m	191.00	164.50
S1-015	Tack Coat Using Emulsion (CRS-1) @ the Rate of 0.5 ltr/Sq.m inclusive of Brushing, Cleaning Road Surface and Cost of Emulsion (Manual) [SSCM 502.3]	Sq.m	121.00	104.00
S1-016	Tack Coat Using Emulsion (CRS-1) @ the Rate of 0.5 ltr/Sq.m inclusive of Brushing, Cleaning Road Surface and Cost of Emulsion (Manual) [SSCM 502.3]	ltr	241.50	208.00
S1-017	Tack Coat Using Emulsion (CRS-1) @ the Rate of 0.75 ltr/Sq.m inclusive of Brushing, Cleaning Road Surface and Cost of Emulsion (Manual) [SSCM 502.1-503.3]	Sq.m	168.00	145.00
S1-018	Tack Coat with 30% Cut Back Bitumen Using 0.5 ltr/Sq.m Including Brushing and Cleaning Road Surface (Manual)	Sq.m	181.50	156.50
S1-018A	Tack Coat with 30% Cut Back Bitumen Using 0.5 ltr/Sq.m Including Brushing and Cleaning Road Surface (Manual) (Authority Bitumen)	Sq.m	100.50	86.75
S1-019	Tack Coat with 30% Cut Back Bitumen Using 0.5 ltr/Sq.m Including Brushing and Cleaning Road Surface (Manual)	ltr	726.00	626.00
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)]	Sq.m	245.00	211.00
S1-021	Rolling over Blinding Material Spread over Subsequent Bitumen Surfacing using diesel Roller (8-10 Tones) [SSCM 503.4(d)]	Sq.m	25.25	21.75
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	Sq.m	238.00	205.00
S1-022A	Prime Coat with Emulsion/Cold Bitumen(CSS-1) Using 1 Ltr/Sq.m Part A of Item S1-022	Sq.m	227.00	195.50
S1-022B	Prime Coat with Emulsion/Cold Bitumen(CSS-1) Using 1 Ltr/Sq.m Part B of Item S1-022	Sq.m	10.95	9.45
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	Sq.m	216.50	187.00
S1-024	Prime Coat With 30% Cut Back Bitumen Using 1 Ltr/ Sq.m Including Blinding with Sand at the rate of 250 Sq.m/Cu.m and Brushing, Cleaning and Mostening Road Surface	Sq.m	333.50	287.50

S1-025	Prime Coat With 30% Cut Back Bitumen Using 1 Ltr/ Sq.m without Blinding but Inclusive Brushing, Cleaning and Mostening Road Surface	Sq.m	310.00	267.50
S1-026	Sweeping Over Tarred Surface to Arrest Bleeding.	Sq.m	8.45	7.30
S1-027	Application of Asphalt Emulsion for Surface Treatment Using CRS-1 (Using Plant) "Rate per Litre"	ltr	209.00	180.50
S1-028	Blinding the Bitumen Surfacing with Sand at the rate of 125 Sq.m1 Cu.m Using Material from Stock Pile	Sq.m	43.50	37.50
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 16KMS) [SSCM 505.5(b)]	Sq.m	100.00	86.50
S1-030	Double Bituminous Surface Treatment with Emulsion(CRS-1) Using Plant. (Binder and Aggregate Paid Separately) (Rate of include Transport cost of Aggregate up to 16 KMS)	Sq.m	216.00	186.00
S1-034	Lay and Compact Asphalt Premix Usign Paver (Cost of premix, Aggregate Transport and premix transport to vbe paid Separately)	M.ton	2,300.00	1,985.00
S1-035	Bitumen Surfacing (Sand Sealing -Manual) Using Emulsion (CRS 1) @ 1 LTR. /SQ.M Including Preparing Surface, Blinding with Sand @ 4 CU.M/500 SQ.M and Pressing with hand Rollers.(Patching pot holes if necessary & external transport to be pay sep.	Sq.m	256.50	221.50
S1-035A	Patching Minor Pot Holes Using Sand Emulsion Mix 1:8 Where Necessary, Prior to Sand Sealing.	Sq.m	31.50	27.00
S1-036	Sand Sealing with Emulsion CRS-1 at the Rate of 1Ltr,Sq.m Using Plant.Incd.Brushing,cleaning, Blinding. with Sand@ 125 Sq.mand Rolng. with pneumatic. roller & internal trnsport.[SSCM 504]	Sq.m	303.00	232.50
S1-037	Reconstruct Base With Penetration Macadam Using Nominal Size 50mm Aggregate and 19mm Key Aggregate from Stock Piles, to Accomplish 75mm on Existing Pavements[SSCM 406] (Binder, Aggregate, Transport paid Separately)	Sq.m	313.00	270.00
S1-038	Reconstruct Base with Penetration Macadam Using Nominal Size 37.5 mm Aggregate and 12.5 mm Key Aggregate from Stock Piles , to a compacted thickness of 55mm on existing pavements [SSCM 406] cost of aggregate including transport to be paid separately	Sq.m	440.00	379.50
S1-039	Correction of Corrugations, Depressions and Cambering road Surfaces using asphalt Concrete compacted by Vibrating roller Including Internal transport (application of tack coat and Supply of Asphalt concrete to ve paid separately)	M.ton	3,620.00	3,120.00
S1-040	Sand sealing with emulsion crs-2 at the rate of .8 Ltr/Sq.m using plant , and blinding with sand at the rate of 125Sq.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	Sq.m	225.00	194.00
S1-040A	Sand sealing with emulsion crs-2 - Part A of Item S1-040	Sq.m	205.50	177.00

Section 8 - Road Maintenance

Internal Transport of Hot Bitumen up to 16km and Sand Transport up to 16km Included in the Rates.

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
MN-001	Patching with Hot Bitumen Using 14 Liters per 1/2 km (SSCM 1102.1-3)	km	6,015.00	5,185.00
MN-002	Patching With hot Bitumen Using 21 Ltrs. Per 1/2 K.m.	1/2 K.m	9,020.00	7,775.00
MN-003	Patching With hot Bitumen Using 28 Ltrs. Per 1/2 K.m.	1/2 K.m	12,025.00	10,365.00
MN-004	Patching With hot Bitumen Using 35 Ltrs. Per 1/2 K.m.	1/2 K.m	15,032.53	12,959.08
MN-005	Patching With hot Bitumen Using 42 Ltrs. Per 1/2 K.m.	1/2 K.m	18,039.03	15,550.89
MN-006	Patching With hot Bitumen Using 49 Ltrs. Per 1/2 K.m.	1/2 K.m	21,045.54	18,142.71
MN-007	Patching With hot Bitumen Using 56 Ltrs. Per 1/2 K.m.	1/2 K.m	24,052.04	20,734.52
MN-008	Extensive Patching for Every Additional 7 Ltrs. Hot Bitumen	1/2 K.m	3,005.00	2,590.00
MN-009	Patching with Cold Bitumen (CRS-1) Using 14 Ltrs per 1/2 K.m.	km	4,265.00	3,680.00
MN-010	Patching with Cold Bitumen (CRS-1) Using 21 Ltrs. Per 1/2 K.m.	1/2 K.m	6,400.00	5,520.00
MN-011	Patching with Cold Bitumen (CRS-1) Using 28 Ltrs. Per 1/2 K.m.	1/2 K.m	8,535.00	7,355.00
MN-012	Patching with Cold Bitumen (CRS-1) Using 35 Ltrs. Per 1/2 K.m.	1/2 K.m	10,665.00	9,195.00
MN-013	Patching with Cold Bitumen (CRS-1) Using 42 Ltrs. Per 1/2 K.m.	1/2 K.m	12,800.00	11,035.18
MN-014	Patching with Cold Bitumen (CRS-1) Using 49 Ltrs. Per 1/2 K.m.	1/2 K.m	14,934.27	12,874.37
MN-015	Patching with Cold Bitumen (CRS-1) Using 56 Ltrs. Per 1/2 K.m.	1/2 K.m	17,067.74	14,713.57
MN-016	Extensive Patching for Every Additional 7 Ltrs. Cold Bitumen, CRS-1	1/2 K.m	2,135.00	1,840.00
MN-017	50 mm-19mm Aggregate Roller Patching	Cu.m	8,195.00	7,065.00
MN-018	50 mm - 19mm Aggregate Stamped Patching	Cu.m	8,805.00	7,590.00

Section 9 - Road Side Drainage System

Rate to Include Spreading the Resulting Materials Suitably in the Vicinity Unless Otherwise Directed.

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
DR-001	Cutting New Side Drains in Ord. Soil	Cu.m	1,495.00	1,290.00
DR-002	Cutting New Side Drains in Med. Soil	Cu.m	2,040.00	1,760.00
DR-003	Cutting New Side Drains in Hard Soil	Cu.m	2,585.00	2,230.00
DR-004	Cutting New Side Drains in Soft Soil	Cu.m	2,860.00	2,465.00
DR-005	Cutting New Side Drains In Unclassified Soil	Cu.m	2,040.00	1,760.00
DR-005A	Cutting side drains of std. Dimensions in unclassified soil using machine (Back hoe J.C.B) including shipping trimming and leveling bottom manually	Cu.m	1,060.00	914.00
DR-006	Cutting New Side Drains in Rock	Cu.m	6,210.00	5,355.00
DR-007	Turfing (Excluding Royalty, Transport and Watering Maintenance) [SSCM 802.3 (a)]	Sq.m	324.00	279.50
DR-008	Watering and Maintaining Turf For Three Months Including Transport of Water	Sq.m	408.00	352.00
DR-009	Leveling & Trimming Earth	Sq.m	44.50	38.50
DR-010	Clearing Silt Etc. from Kerbs & Channels (SSCM 12053)	L.m	26.25	22.55
DR-011	Cutting Scupper Drains on any Soil Other than Rock to and Average width of 0.75 m with proper Gradient and Ave. Depth of 100 mm (SSCM 1304.3)	L.m	181.00	156.00
DR-012	Clearing and Desilting of Culverts (SSCM 1303.3)	L.m	550.00	474.00
DR-013	Clearing Choked Culverts (With Head Room > 1m.)	Cu.m	2,215.00	1,910.00
DR-014	Cleaning desilting existing side drains and lead up drains to proper shape and gradient and transport of excavated materials from road side up to 100m	L.m	65.75	56.75
DR-015	Clearing Inlets and Outlets of Culverts	Culverts	495.00	427.00

Section 10 - Bridges & Culverts
Bridges Culverts and Retaining Walls etc.

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
ST-001	Demolishing Dry Coursed Masonry Including Stacking or Loading ,(SSCM 202.2)	Cu.m	6,345.00	5,470.00
ST-002	Demolishing Coursed Masonary in cement Mortar Including Stacking or Loading	Cu.m	7,395.00	6,375.00
ST-003	Demolishing Random Rubble Masonry in cement Mortar Including Stacking or Loading	Cu.m	3,235.00	2,790.00
ST-004	Random Rubble Masonry, 150-225 mm Rubble in Approved cement & Sand Mortar 1:6 (Excluding Transport of Rubble & Piling) [SSCM 1006.3]	Cu.m	19,395.65	16,720.39
ST-005	Random Rubble Masonry, 150-225 mm Rubble in Approved cement & Sand Mortar 1:5 (Excluding Transport of Rubble & Piling) [SSCM 1006.3]	Cu.m	20,197.99	17,412.06
ST-006	Random Rubble Masonry, in Approved cement & Sand Mortar 1:6 With available Rubble 150-225mm	Cu.m	17,210.03	14,836.23
ST-007	Random Rubble Masonary in approved cement & sand Mortar 1:5 with Available Rubble 150-225 mm.	Cu.m	18,012.37	15,527.91
ST-008	Dry Masonry With available Heavy Rubble or Boulders(SSCM 1006.3)	Cu.m	10,210.00	8,800.00
ST-009	Dry Masonry With Rubble 150-225 mm (Excluding Transport of Rubble & Piling)	Cu.m	9,915.00	8,550.00
ST-010	Dry Masonry With available Bubble 150-225mm	Cu.m	8,275.00	7,135.00
ST-011	Packing Available Rubble and Aggregate Filter Layers Behind Masonry Walls.	Cu.m	1,955.00	1,685.00
ST-012	Clay Puddled & Laid Behind Masonry Walls(Excl.Transport of Clay) [SSCM 705.3]	Cu.m	3,945.00	3,400.00
ST-013	Grouting Coursed Stone Masonry Joints With approved Cement & Sand Mortar 1:3 (SSCM 804.2(c))	Sq.m	799.00	689.00
ST-014	Grouting Rubble Paving With Concrete Class C, 1:2:4(19 mm) (Excl. Transport of Aggr. For Concrete & Piling)	Cu.m	3,745.00	3,230.00
ST-015	Grouting Rubble Paving with approved cement & Sand mortar (1:3)	Sq.m	1,340.00	1,155.00
ST-016	Forming weep Holes In Masonry Construction (Labour only) [SSCM 706.3]	No	793.00	683.00
ST-017	Forming Weep Holes Using P.V.C. Pipes of Int. Dia. Not less than 100mm Complete with Dripledge and Surround Finish Smooth.	L.m	1,645.00	1,420.00
ST-018	Shoring with 37.5 mm Thick Class II Timber Planks up to 3 m Depth	Sq.m	1,175.00	1,015.00
ST-019	Supplying & Fixing class II Timber Struts Etc. For Shoring up to 3m Depth	Sq.m	130.50	112.50

ST-020	Supplying and Fixing Class II Timber in Shoing up to 3m Depth (Rate per Area Basis)	Sq.m	1,500.00	1,295.00
ST-021	Lifting Soil For Every 1.5 m Beyond the Initial 1.5m	Cu.m	1,050.00	905.00
ST-022	Lifting Wedge Stones For Every 1.5 m Beyond the Initial 1.5m	Cu.m	3,150.00	2,715.00
ST-023	Lifting Rubble or Concrete Every 1.5 m Beyond the Initial 1.5m	Cu.m	1,575.00	1,360.00
ST-024	Lowering Wedged Stones Evety 1.5m Beyond the Initial 1.5 m Beyond the Initial 1.5 m	Cu.m	2,100.00	1,810.00
ST-025	Lowering Rubble or Concrete Every 1.5m Beyond the Initial 1.5 m	Cu.m	1,050.00	905.00
ST-026	PCC Beams(10.5m to 13.5m) Launched into Position	No	1,300.00	1,120.00
ST-027	Rendering 12.5 mm thick in cement sand Motar 1:2 mix (Smooth Finish)	Sq.m	1,550.00	1,335.00
ST-028	Rendering 19 mm thick in cement sand Motar 1:2 mix (Rough)	Sq.m	1,845.00	1,590.00
ST-029	Rendering 19 mm thick in cement sand Motar 1:2 mix (Smooth finish)	Sq.m	2,075.00	1,790.00
ST-030	Rendering 12.5 mm thick in cement sand Motar 1:3 mix (Rough)	Sq.m	1,255.00	1,080.00
ST-031	Rendering 12.5mm thick in cement sand Motar 1:3 mix (Smooth finish)	Sq.m	1,505.00	1,300.00
ST-032	Rendering 19 mm thick in cement sand Motar 1:3 mix (Rough)	Sq.m	1,755.00	1,510.00
ST-033	Rendering 19mm thick in cement sand Motar 1:3 mix (Smooth finish)	Sq.m	1,985.00	1,710.00
ST-034	Mixing & Laying Manually, cement Concrete 1:4:8 (50 mm) (Volume Batching) Using Crusher run Aggregate (Excl. Transport of Aggregate & Piling) [SSCM 1001.4]	Cu.m	22,561.44	19,449.51
ST-035	Mixing & Laying Using Concrete Mixer,Cement Concrete 1:4:8 (50 mm) (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling) (SSCM 1001.8 - 9)	Cu.m	19,191.41	16,544.32
ST-036	Mixing & Laying Manually Cement Concrete 1:4:8 (50 mm) with 20% Plums (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	20,413.46	17,597.81
ST-037	Mixing & Laying Using Concrete Mixer, Cement Concrete 1:4:8 (50 mm) with 20% Plums (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	18,455.68	15,910.07
ST-038	Mixing & Laying Manually Cement Concrete 1:3:6 (37.5 mm) with 20% Plums (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	22,656.84	19,531.76
ST-039	Mixing & Laying Using Concrete Mixer, Cement Concrete 1:4:8 (37.5 mm) with 20% Plums (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	18,548.27	15,989.88

ST-040	Mixing & Laying Manually Cement Concrete 1:3:6 (37.5 mm) (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)[SSCM 1001.4]	Cu.m	25,798.93	22,240.46
ST-041	Mixing & Laying Using Concrete Mixer, Cement Concrete 1:3:6 (37.5 mm) (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	23,831.34	20,544.26
ST-041A	Mixing & Laying Using Concrete Mixer, Cement Concrete 1:3:6 (37.5 mm) with 20% plums Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	21,850.09	18,836.28
ST-046	Mixing & Laying Manually Cement Concrete 1:2:4 (19 mm) (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	27,795.60	23,961.72
ST-047	Mixing & Laying Using Concrete Mixer, Cement Concrete 1:2:4 (19 mm) (Volume Batching) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	26,097.58	22,497.91
ST-048	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete for Grade 25 (19 mm) Using Crusher Run Aggregate In Foundation and Floors. (excl. Transport of Aggregate & Piling)	Cu.m	29,788.99	25,680.17
ST-048A	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete for Grade 25 (70% 37.5 + 30% 19 mm) Using Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	26,630.35	22,957.20
ST-049	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete for Grade 30 (19 mm) With Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	29,815.76	25,703.24
ST-050	Mixing & Laying Using Concrete Mixer (W/Batching), Cement Concrete for Grade 40 (19 mm) With Crusher Run Aggregate (excl. Transport of Aggregate & Piling)	Cu.m	35,946.74	30,988.57
ST-051	Mixing & Laying Using Concrete By Hand	Cu.m	9,165.00	7,900.00
ST-052	Mixing & Laying Using Concrete By Power Driven Concrete Mixer V/Batching	Cu.m	7,195.00	6,205.00
ST-053	Curing of Concrete Decks, Slabs , Beams, Walls etc. [SSCM 1011.11]	Sq.m.Day	62.75	54.00
ST-054	Fabricate & Lay M.S Bars as Reinforcement (Excl. Transport)	kg	654.00	564.00
ST-055	Fabricate & Lay Tor Steel as Reinforcement (Excl. Transport)	kg	654.00	564.00
ST-056	Cutting & Laying Reinforcement Fabric (Excluding Cost of Reinforcement Fabric)	kg	427.50	368.50
ST-057	Supplying & fixing 25 mm Thick Planks of Class II Timber as Shuttering, Including removing [1008.3(b)]	Sq.m	1,485.00	1,280.00

ST-058	Supplying & Fixing Class II Timber Bearers, Joists , Etc. Including Dismantling in Shuttering (SSCM 1008.3 (a))	Cu.dm	95.75	82.50
ST-059	100-150 mm Dia. Round Jungle Timber Supplied & Fixed as Props	L.m	179.00	154.00
ST-060	150-200 mm Dia. Round Jungle Timber Supplied & Fixed as Props	L.m	196.50	169.50
ST-061	Formwork Smooth Finish With Class II Timber For Bridge Beams, Bridge Deck Under Sides and Sides Including Dismantling (SSCM 1008.3(b))	Sq.m	4,110.00	3,545.00
ST-062	Formwork Smooth Finish With Class II Timber For Bridge Column Shafts Including Dismantling (SSCM 1008.3(b))	Sq.m	4,335.00	3,735.00
ST-063	Formwork Smooth Finish, Using Plywood (Shutter 15 mm) and Class II Timber Bearers, Joists and Jungle Timber Props for Bridge Abutments, Wing walls Etc.	Sq.m	4,730.00	4,080.00
ST-064	Supplying & fixing 25mm Thick Planks and Struts of Class II Timber as Formwork Rough Finish, in Foundation Etc. Including Removing (SSCM 1008.3(b))	Sq.m	1,925.00	1,660.00
ST-065	Formwork Smooth Finish for General Purposes, Using 25mm Thick Planks & Struts of Class II Timber and Round Jungle Timber Props 100-150 mm Dia. Including Dismantling	Sq.m	2,670.00	2,300.00
ST-066	Supplying , Laying & Jointing 152mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	1,255.00	1,085.00
ST-067	Supplying ,Laying & Jointing 229mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	1,310.00	1,125.00
ST-068	Supplying ,Laying & Jointing 305mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	1,415.00	1,220.00
ST-069	Supplying ,Laying & Jointing 457mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	1,415.00	1,218.24
ST-070	Supplying ,Laying & Jointing 610mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	2,826.31	2,436.48
ST-071	Supplying ,Laying & Jointing 915mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	4,515.60	3,892.76
ST-072	Supplying ,Laying & Jointing 12205mm Dia. Concrete Pipes (Hume Pipe , Collar Joint Cost & Transport of hume pipe & Collar joint cost & Bedding Material cost paid separately) [SSCM 707.3 - 4]	L.m	6,334.84	5,461.07
ST-073	Laying & Jointing 152 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	1,255.00	1,085.00
ST-074	Laying & Jointing 229 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	1,310.00	1,125.00
ST-075	Laying & Jointing 305-450 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	1,415.00	1,220.00
ST-076	Laying & Jointing 610 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	2,825.00	2,435.00

ST-077	Laying & Jointing 915 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	4,515.00	3,895.00
ST-078	Laying & Jointing 1220 mm Dia. Available Concrete Pipes and Collars (Cement, sand & water for jointing hume pipes paid Separately)	L.m	6,335.00	5,460.00
ST-079	Fixing new Bridge Planks Runners and Stacking old Planks (Available) [SSCM 1402.2(a)]	No	1,785.00	1,540.00
ST-080	Removing & Re-Setting old Bridge Planks	No	1,115.00	961.00
ST-081	Supplying & Fixing new Bridge Planks of Class I Timber	No	137.50	118.50
ST-082	Supplying & Fixing 31 mm Thick Deck Planks of Class I Timber	No	6,725.00	5,800.00
ST-083	Fixing New Chequered or M.S. Plates on Timber - Decked Bridge [SSCM 1402.2(d)]	L.m	2,630.00	2,270.00
ST-084	Removing & Refixing Chequered M.S. Plates on Timber-Decked Bridge	L.m	3,510.00	3,025.00
ST-085	Tightening Bolts & nuts of Chequered of M.S. Plates	L.m	497.00	428.50
ST-086	Removing & Refixing "U" Clips. [SSCM 1402.2(b)]	L.m	386.50	333.00
ST-087	Cleaning, Wire Brushing & Painting Steelwork, One Coat Enamel Paint	Sq.m	485.00	418.00
ST-088	Cleaning, Wire Brushing & Applying Tar on Steelwork, One Coat	Sq.m	347.00	299.00
ST-089	Cleaning, with Cotton Waste and Painting Steel Work with Enamel Paint, One Coat	Sq.m	317.50	274.00
ST-090	Chipping to Bare Metal etc. & Painting with Anticorrosive Paint, One Coat	Sq.m	1,485.00	1,280.00
ST-091	Painting with One Coat of Enamel Paint after Cleaning, Derusting & Application of One Coat Anticorrosive Paint[SSCM 1401.3(C)]	Sq.m	1,095.00	944.00
ST-092	Painting with Two Coats of Enamel Paint, after Cleaning, Degusting & Application of One Coat Anticorrosive Paint	Sq.m	1,385.00	1,195.00
ST-093	Oiling Steel Cables on Suspension Bridges [SSCM 1405.3]	Sq.m	1,980.00	1,705.00
ST-094	Cleaning Booms of Steel Bridges (Excluding Scaffolding where Necessary) [SSCM 1401.3]	L.m	101.50	87.50
ST-095	Demolishing Unreinforced Cement Concrete Including Cleaning of Debris in Foundation and Superstructure in Dry Condition Excluding Under Water Structures [SSCM 202.2]	Cu.m	6,020.00	5,190.00
ST-096	Demolishing Reinforced Concrete and Debris Cleared	Cu.m	8,540.00	7,365.00

ST-097	Demolishing Reinforced Concrete in Very Heavy Structures Build Up of Grade 30 Above Concrete in Work Such As Bridge Beams & Deck Slabs, Including Collecting and Removing	Cu.m	17,041.88	14,691.27
ST-098	Supplying and Fixing M.S. Dowels Spliced and Dove Tailed with Wedge at One End, 16mm dia, and 1m long, Boring Holes to 0.3m Depth in Fixing	No	1,705.00	1,470.00
ST-099	Supplying and Fixing M.S. Dowels, Spliced and Dove Tailed with Wedge at One End, 20mm dia, and 1m Long, Boring Holes to 0.3m Depth in Fixing.	No	2,210.00	1,905.00
ST-100	Supplying & Fixing M.S.Dowels, Spliced and Dove Tailed with Wedge at One End, 25mm dia, and 1m Long. Boring Holes to 0.3m Depth in Fixing.	No	3,060.00	2,635.00
ST-101	Lay Standard Type Road Kerbs(125mmX900mm) Set on19mm thick 1:3 Cement Mortar Layer on 150mm X 275mm 1:2:4(19) Concrete Foundation With av. 157mm X 150mm Backing	L.m	4,025.00	3,470.00
ST-102	Lay Standard Precast Bridge Kerbs [Type Drawing No T/B/106-Rev 1 of RDA](Cost of Precast Kerbs & Transport to be Paid Separately)	L.m	965.00	832.00
ST-103	Constructing 150x50mm thick Inset Lower Kerb in Grade 20(14mm) Concrete for Bridges: (Aggregate Transport to be Paid Separately)	L.m	464.50	400.50
ST-104	Laying 450 X 450 X 50 mm Precast Concrete Slabs on Foot Walks Including av. 40mm Thick 1:3 Cement Mortar Bedding (Cost of Sabs & Transport Paid Separately)	Sq.m	3,005.00	2,590.00
ST-104A	Mixing Cement Sand Mortar Using a Mixer	Cu.m	32,156.72	27,721.31
ST-105	Laying 450 x 450 x 50 mm Precast Concrete Slabs on Foot Walks Including av.40mm Thick Sand Bedding (Cost of Precast Slabs and Transport to be Paid Separately)	Sq.m	1,885.00	1,625.00
ST-106	Fixing Precast Hand Railing and Uprights Using Grade 25(19) Concrete Including Formworks for Pockets (Precast Items & Transport and Aggr.Transport paid Separately)[Type Dwg No T/B/102/B]	L.m	2,600.00	2,240.00
ST-107	Construction of RCC Grade 25(19mm) End Pillaster, Type 1(Agg. Transport to be Paid Separately) [Type Dwg No T/B/106-Rev 1]	No	87,440.00	75,379.00
ST-108	Construction of RCC Grade 25(19mm) End Pillaster, Type II (Agg. Transport to be Paid Separately) [Type Dwg No T/B/106-Rev 1]	No	95,258.00	82,098.00
ST-109	Construction of RCC Grade 25(19mm) End Pillaster, Type III (Agg. Transport to be Paid Separately) [Type Dwg No T/B/106-Rev 1]	No	55,281.00	48,600.00
ST-110	Construction of RCC Grade 25(19mm) End Pillaster, Type IV (Agg. Transport to be Paid Separately) [Type Dwg No T/B/106-Rev 1]	No	60,338.00	52,974.00
ST-111	Laying of Grade 20 Concrete Precast pin Kerbs in Grade 20(19) Concrete Foundation as Edging (Aggregate transport to be Paid Separately)	L.m	1,340.00	1,155.00
ST-112	Supplying and Fixing 25mm Thick Tounge and Groved Planks with 50x50mm Struts of Class 1 Timber in Panels as Smooth Shuttering for Concrete Drains	Sq.m	973.00	839.00

ST-112A	Supplying and Fixing 25mm Thick Tongue and Grooved Planks with 50x50mm Struts of Class 1 Timber in Panels as Smooth Shuttering for Concrete Drains(for 13.38 Sq.m)	use	8,125.00	7,005.00
ST-113	Supply and Packing 50-200 mm Dry Stone lining Behind Abutments and wind walls (Aggregate Transport to pay separately)	Cu.m	5,480.00	4,720.00
ST-114	Laying Geotextile on Prepared Surface Supply and Transport to pay Separately	Sq.m	115.00	99.25
ST-115	Construction of Gabion Wall Using 4x1x1m Mesh Including Lacing Wire on Prepared Ground.(Supply and Transport of Gabion Mesh to be Paid Separately);	Cu.m	10,640.00	9,175.00
ST-116	Construction of Gabion wall Using 4x1x0.5 m mesh including Lacing Wire on Prepared Ground (Supply and Transport of Gabion Mesh to be Paid Separately)	Cu.m	11,255.00	9,705.00
ST-117	Construction of Kerb Inlet as per Drawing Type - K1/T1 With Cover Slabs. Aggregate Transport to pay Separately	L.m	19,160.00	16,520.00
ST-118	Additional Labour For Pouring, Compacting and Levelling Concrete in Screed Under Foundation Slabs	Cu.m	1,585.00	1,365.00
ST-119	Additional Labour For Pouring, Compacting Concrete in Abutments , Wingwalls, Capping Beams of Piers and Foot walks of Bridges	Cu.m	546.00	470.50
ST-120	Additional Labour For Pouring, Compacting and Levelling infiller Concrete between Bridge Beams including Creed of Bridge Decks.	Cu.m	2,490.00	2,145.00
ST-121	Leveling Ready mixed Grade Concrete Including Vibration (Supply of Concrete to be Paid Separately)	Cu.m	3,205.00	2,760.00
ST-122	Supplying and laying Approved Hard Rubber Bearing Pads 75mm x 12mm Over Capping Beams and Under the Approach Slabs	m.	1,880.00	1,620.00
ST-123	Bituminous Sealing Material Supplied and Laid Under Beam ends to Prevent Grout leak on to Capping Beam Transport of Emulsion Included.	L.m	238.50	206.00
ST-124	230mm Dia. Polythene Displacers Supplied and Filled with Saw Dust or Similar Light Material in Deck. Transport of Saw Dust to be Paid Separately	L.m	143.00	123.50
ST-125	325mm Dia Polythene Displacers Supplied and Filled with Saw Dust or Similar Light Material in Deck. Transport of Saw Dust to be Paid Separately	L.m	219.50	189.50
ST-126	PCC Beams(10.5m to 13.5m) Launching into Position	No	11,755.00	10,135.00
ST-127	M.S. Angle Iron and Hard Rubber Expansion Joints as Per Drawing No T/B/107 Rev. 1	L.m	12,330.00	10,630.00

Section 11 - Road Furniture Items

Kilometer Posts and Guard Stones

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
RF-001	White Washing, Two Coats to Guide / Guard Stones	No	121.50	104.50
RF-002	Whitewashing Two Coats K.M. Stones inc. Numbering & Tar Skirting.	No	1,270.00	1,095.00
RF-003	Painting White Back Ground on Parapets etc. & Stencilling nos.	No	484.50	418.00
RF-004	Fixing Guard Stones in any Soil	No	371.50	320.50
RF-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	11,290.00	9,735.00
RF-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	7,695.00	6,635.00
RF-007	Fixing Standard Type K.M. Stones in Any Soil	No	2,760.00	2,380.00
RF-008	Fixing new or Refixing Type Guard stones in Cement Concrete [1:3:6(37.5mm) and Cement 219 KG/Cu.m] With Min. Cover 75mmx 300 mm Depth	No	1,420.00	1,225.00
RF-009	Casting Standard Type Guard Stones in Concrete [1:2:4(19mm) & Cement 282.5 KG / Cu.m]	No	3,525.00	3,040.00
RF-009A	Casting Standard Type Guard Stones in Concrete [G25(19mm)As per Drawing No T/B/100-Rev 1,For Bridges and Culvers	No	5,710.00	4,925.00
RF-010	Rout NumberingWith Reflective Paint on 2 sides	No	1,385.00	1,195.00
RF-011	Casting Standard Boundary Markers in Reinforced Concrete [1:2:4(19mm)] with Admixtures, Including 14 days Curing and Loading to Vehicle at Yard (Agg. Transport paid Separately)	No	4,390.00	3,785.00

Section 12 - Notic Boards & Road Signs

[SSCM 810.2 AND 1501.3] - All Paints Should Conform to the Requirements of SLS as Given in SSCM 1707.

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
RS-001	Notice & Traffic Sign Boards Etc. Fixed in Concrete [1:3:6(37.5mm) and Cement 219 KG/Cu.m) (Excluding Transport of Aggregate)	No	2,680.00	2,310.00
RS-002	Cleaning & Whitewashing 2 Coat Town Name Boards (Inc. Tar Skirt)	No	686.00	591.00
RS-003	Cleaning, Painting one Coat & Relettering Etc. Traffic sign Boards inc. Paint Post in B/W	No	4,175.00	3,595.00
RS-004	Cleaning and painting 1 coat on Notice Board	Sq.m	582.00	502.00
RS-005	lettering & Numbering Below 50 mm	No	113.50	98.00
RS-006	Lettering and Numbering 50mm-75mm	No	136.50	117.50
RS-007	lettering & Numbering 75 mm - 150 mm	No	170.50	147.00
RS-008	lettering & Numbering 150 mm - 225 mm	No	315.50	272.00
RS-009	Painting 2 Coats Continuous Center Line,100 mm Wide With Enamel Paint	L.m	255.50	220.50
RS-010	Painting 1 Coats Continuous Center Line,100 mm Wide With Road Marking Paint (White)	L.m	301.50	259.50
RS-011	Painting 2 Coats Broken Center Line,100 mm Wide With Enamel Paint	L.m	239.50	206.50
RS-012	Painting 1 Coats Continuous Center Line (Without Reflective Studs),100 mm Wide, At 3 meter Intervals With Road Marking Paint (White)	L.m	267.00	230.50
RS-013	Barricading With Empty (Hot Tar) Barrels Including White Wash(ExcludingTransport) and Cost of Barrels	No	787.00	679.00
RS-014	Revetment to Banks etc. with Empty Barrels in Horizontal Tiers with Vertical Batter(1:8) including Transport of Barrels	No	1,240.00	1,070.00
RS-015	Road Marking Continuous Center line 100 mm Width, using Thermoplastic paint (White) , Inclusive Barricading.	Sq.m	539.00	464.50
RS-016	Road Marking Standard Pedestrian Crossing, using Thermoplastic paint (White) , Inclusive Barricading.	L.m	1,140.00	981.00

Section 13 - Miscellaneous

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
MS-001	Preparing Stock Piling Premix Using Pen, Grade Bitumen (Excl. Transport of Aggregate) (Site Made)	Cu.m	30,400.00	26,220.00
MS-001A	Preparing Stock Piling Premix Using Pen, Grade Bitumen (Excl. Transport of Aggregate) (Site Made) with Department Bitumen	Cu.m	14,835.00	12,790.00
MS-002	Patching Shallow Pot Holes. Depth Less 20mm using hot bitumen 1.2ltr/Sq.m & 12.5mm chips single size @ 13.75 cu. deci m/sq.m incld. hand tamping (rat. inc. cost of bitumen & mater.) (Excl. Transport. of Aggregate & Bitumen)	Sq.m	510.00	440.00
MS-002A	Patching road with premix after preparing surface with 30% cut back	Cu.m	17,510.00	15,090.00
MS-002B	Patching road with premix after preparing surface	Cu.m	14,730.00	12,700.00
MS-003	Patching Shallow Potholes, Depth Less Than 20mm Using 10-20% Cutback Bitumen 1.2ltr/Sq.m and 12.5mm Chips, Single Size at 13.75 CuDeci m/Sq.m including hand tamping (Excl. Tr. Agg, Bitumen)	Sq.m	540.00	465.50
MS-004	Patching shallow pot holes, depth less than 20mm using emulsion (Crs1) @ 1.2Ltr/Sq.m & 12.5mm cu.deci m/sqm including hand tamping transport of emulsion to site etc. Rate include cost of emulsion and other materials) (Excl. transport of aggregate)	Sq.m	458.50	395.00
MS-005	Patching pot holes of Medium ,depth of 20-75mm with Premix (Site Made) using Cutback 10-20% at the Rate of 83.5 Ltr/Cu.m of 19mm Down Aggregate including preparation of Surface, Tack Coat(CSS1) AT .75Ltr/Sq.m, Trimming Sides, Tamping etc	Sq.m	3,450.00	2,975.00
MS-007	Patching Potholes of Medium Depth 20-75mm Using Graded Aggregate 19-12.5mm With Hot Bitumen 1.75 ltr/Sq.m and Blot. Material at 1 Cu.m/125 Sq.m and .75ltr/Sq.m Tack Coat(CSS-1)	Sq.m	1,710.00	1,475.00
MS-008	Patching Potholes Deeper Than 75mm Using Premix Material (Site Made) to a Depth of 37.5mm(Over the Prepared Surface with Aggregate and Gravel Paid Separately) Using 10-20% Cutback 83.5Ltr/Cu.m of 19mm down Agg, .75Ltr/Sq.m Tack coat	Sq.m	1,935.00	1,670.00
MS-009	Patching pot holes more then 75mm deep with water bound gravel material using 50mm or 12.5 mm single size aggregate along with useable old aggregate obtain from picking and preparation of surface inc. laying watering Spreading gravel of approved quality	Sq.m	99.75	86.00
MS-010	Patching Ruts and Depressions Upto 75mm Depth Using Site Made Cold Mix (Cut Back) Material With the Surface and Edge Prepared as Per Specifications .75Ltr/Sq.m Tack Coat	Sq.m	3,155.00	2,720.00
MS-010A	Patching Ruts and Depressions Part 1 of Item MS-010	Sq.m	42.50	36.75
MS-011	Patching Ruts and Depressions Upto 75mm Depth Using Plant Made Cold Mix (Cut Back) Material with .75Ltr/Sq.m tack coat(CSS-1)(Premix paid Separately)	Sq.m	2,100.00	1,810.00
MS-012	Patching Ruts and Depressions Deeper than 75mm Depth Using 50mm Down Aggregate, Top 40mm with Plant Made Cold Mix (Cut Back) Material with .75Ltr/Sq.m tack coat(CSS-1)(Premix paid Separately)	Sq.m	2,490.00	2,145.00
MS-013	Patching Ruts and Depressions Upto 75mm Deep with .75Ltr/Sq.m Tack Coat(CSS-1) 50mm Down Aggregate, Hot Bitumen applied at 1.75Ltr/Sq.m, Blotting Material at 1 Cu.m/125 Sq.m (Agg. paid separately)	Sq.m	1,870.00	1,610.00

MS-014	Patching Ruts and Depressions Deeper Than 75mm with .75Ltr/Sq.m Tack Coat(CSS-1) 50mm Down Aggregate, Hot Bitumen applied at 1.75Ltr/Sq.m, Blotting Material at 1 Cu.m/125 Sq.m (Agg. paid separately)	Sq.m	2,090.00	1,805.00
MS-015	Correcting and Strengthening Edges of the Road by Cold mix 40mm thick, Cutback 10-20%, at the rate of 83.5Ltr/Cu.m on 19mm down Aggregate, Over 50mm down Aggregate, Tack coat .75 Ltr/Sq.m(CSS 1)	Sq.m	2,990.00	2,575.00
MS-016	Correcting and Strengthening Edges of Road by Cutback(10-20%) Cold Mix 40mm thick with 83.5Ltr/Cu.m 19mm Down aggregate over .75Ltr/Sq.m Tack Coat(CSS-1) over 50 mm down over Closely packed 100mm agg. with excavation width 225mm, depth 225mm	Sq.m	3,450.00	2,975.00
MS-016B	Correcting and Strengthening Edges Part B of the Item MS-016	Sq.m	2,905.00	2,505.00
MS-017	Patch Sealing with emulsion painting the surface by spray of crs-1 @ .75ltr/sq.m squeezing the emulsion and spreading the blotton material (Sand) at the rate of 1 Cu.m/125 Sq.m	Sq.m	239.50	206.50
MS-018	Patch Sealing with hot Bitumen painting the surface by Using .75ltr/sq.m squeezing the bitumen and spreading the blotton material (Sand) at the rate of 1 Cu.m/125 Sq.m (Transport of bitumen paid separately)	Sq.m	272.50	235.00
MS-019	Patch Sealing of Pitted Surface Using Hot Sand Bitumen Mix 104Ltr/Cu.m of Sand Spread and Hand Tamped Including Brushing and Cleaning The Surface (Excl Transport of Bitumen)	Sq.m	636.00	549.00
MS-019A	Patch Sealing of Pitted Surface, Part A of Item MS-019A	Sq.m	36,600.00	31,550.00
MS-019B	Patch Sealing of Pitted Surface, Part B of Item MS-019A	Sq.m	87.25	75.25
MS-020	Patch Sealing of Pitted Surface With Emulsion Sand Slurry using CRS 1 or 2 at the Rate of 136.5Ltr/Cum of Sand Mix Properly Laid, Leveled & Squeeged incl. Brushing and Cleaning	Sq.m	623.00	537.00
MS-021	General upkeep of Road sides Including Maintaining the Right of way in a Neat Condition by Trimming, Weeding & Clearing of the Road Sides, Drains , Drainage Structures, Scupper Drains & Cleaning Minor Slips	Km	9,535.00	8,220.00
MS-022	Cleaning ordinary Jungle Including Removing High Growing Plants and Trees of Girth < 300 mm other than those designated to remain. by Uprooting or by Cutting and then uprooting the Stumps or by Cutting only as Directed (SSCM 1203.2)	Km	18,800.00	16,210.00
MS-023	Cleaning medium Jungle Including Removing High Growing Plants and Trees of Girth < 300 mm other than those designated to remain. by Uprooting or by Cutting and then uprooting the Stumps or by Cutting only as Directed	Km	26,230.00	22,610.00
MS-024	Cleaning heavy Jungle Including Removing all High Growing Plants and Trees of Girth < 300 mm other than those designated to remain. by Uprooting or by Cutting and then uprooting the Stumps or by Cutting only as Directed	Km	33,650.00	29,020.00
MS-025	Repairs to Damage of Shoulders verges and Embankments slopes including making good depressions,ruts,holes and Erosion path with approved gravelly soil & compacting the same with roller(8-10 ton) as Directed(Gravel soil be paid separately if brought outsid	Cu.m	1,080.00	931.00
MS-026	Regarding and Regravelling of shoulders with gravel of approved Quality , duly compacted with Roller (8-10 ton) as directed for Repairing high sides Caused by heaving deposits and Construction Debris, to Required levels by using a grader (120 -140hp)	km	827.00	713.00

MS-027	Regarding and Regravelling of shoulders with gravel of approved Quality , duly compacted with Roller (8-10 ton) as directed for Repairing high sides Caused by heavings deposits and Construction Debris, to Required levels manually Gravel (loose volume)	km	1,450.00	1,250.00
MS-028	Replacing Damaged Cracked Concrete Slabs in Foot Walks with Precast/Cast insitu Concrete 1:2:4(19mm), with 50mm minimum thickness including fixing in position with Cement Mortar 1.3 mix (Excluding Transport of Aggregate) (SSCM 1204.3)	Sq.m	3,885.00	3,350.00
MS-029	Cutting and Removing Fallen Trees upto 600 mm Girth Including Cutting into Required number of Pieces Including Disposal as Directed. minimum Piece Shall not be less than 2m(SSCM 1203.2)	No	1,300.00	1,120.00
MS-030	Cutting and Removing Fallen Trees 600 - 900 mm Girth Including Cutting into Required number of Pieces Including Disposal as Directed. minimum Piece Shall not be less than 2m(SSCM 1203.2)	No	1,860.00	1,600.00
MS-031	Weeding Masonry Culverts Small Bridges and Retaining Walls (SSCM 1303.3)	Culverts	601.00	519.00
MS-032	Masonry Random Rubble with Boulders including Collect (SSCM 1006.3(b))	Cu.m	2,660.00	2,295.00
MS-033	Fixing cats Eyes in Tar Macadam Including Breaking road Surface, Barricade etc. [SSCM 810-3(c)]	No	718.00	619.00
MS-034	Reducing High Sides in Ordinary Soil [SSCM 301.3/1201.3(c)]	Cu.m	1,225.00	1,055.00
MS-035	Reducing High Sides in Medium Soil	Cu.m	1,750.00	1,510.00
MS-036	Reducing High Sides in Hard Soil	Cu.m	2,275.00	1,960.00
MS-037	Reducing High Sides in Soft Rock	Cu.m	2,800.00	2,415.00
MS-038	Reducing High Sides in Rock Requiring Blasting	Cu.m	5,665.00	4,885.00
MS-039	White Washing 1 Cote to Parapets of Bridges and Culverts (Paid Separately Scaffolding/Ladders where Necessary)(SSCM 1403.3(e))	Sq.m	75.00	64.75
MS-040	White Washing 2 Cotes to Parapets of Bridges and Culverts (Paid Separately Scaffolding/Ladders where Necessary)	Sq.m	131.00	113.00
MS-041	White Washing 1 Cote to Parapets of Bridges and Culverts after cleaning Attending to minor Repairs (Temporary Scaffolding / Ladders & minor repair materials Paid Separately where Necessary)	Sq.m	87.75	75.75
MS-042	White Washing 2 Cote to Parapets of Bridges and Culverts after cleaning Attending to minor Repairs (Temporary Scaffolding / Ladders & minor repair materials Paid Separately where Necessary)	Sq.m	151.00	130.00
MS-043	Painting with Emulsion 1 Coat to Parapets of Bridges and Culverts, Guard Stones and KM Posts After Cleaning and Attending to Minor Repairs (Minor repair materials Paid Separately) [SSCM 1501.3(a)-(v)]	Sq.m	315.50	272.00
MS-044	Painting with Enamel 1 Coat to Parapets of Bridges and Culverts, Guard Stones and KM Posts After Cleaning and Attending to Minor Repairs (Minor repair materials Paid Separately) [SSCM 1501.3(a)-(v)]	Sq.m	376.00	324.00

MS-045	Painting with Enamel 2 Coats to Parapets of Bridges and Culverts, Guard Stones and KM Posts After Cleaning and Attending to Minor Repairs (Minor repair materials Paid Separately) - [SSCM 1501.3(a)-(v)]	Sq.m	665.00	573.00
MS-046	Painting with Emulsion 2 Coat to Parapets of Bridges and Culverts, Guard Stones and KM Posts After Cleaning and Attending to Minor Repairs (Minor repair materials Paid Separately) - [SSCM 1501.3(a)-(v)]	Sq.m	577.00	497.50
MS-047	Painting with Emulsion 1 Coat to Parapets of Bridges and Culverts, Guard Stones and KM Posts Including Preparing Surface of Old Work [SSCM 1501.3(b)-(v)]	Sq.m	315.50	272.00
MS-048	Painting Sub Coat Emulsion to Parapets of Bridges and Culverts, Guard Stones and KM Posts Including Preparing Surface [SCM 1501.3(b)-(v)]	Sq.m	274.50	236.50
MS-049	Painting 1 Coat Emulsion Paint to Parapets of Bridges and Culverts, Guard Stones and KM Posts Including Preparing Surface of New Work [SSCM 1501.3(b)-(v)]	Sq.m	288.50	248.50
MS-050	Cleaning & Painting 100mm wide stripe for skirting to guard stones. {SSCM 1501.3(b)(v)}	L.m	150.50	130.00
MS-051	Painting 2 Coats Standard Pedestrian Crossing for Carriageway [SSCM 810.2(c)]	L.m	3,810.00	3,285.00
MS-052	Painting 1 Coat Standard Pedestrian Crossing for Carriageway Using Road Marding Paints [SSCM 810.2(c)]	Sq.m	5,015.00	4,325.00
MS-053	Erecting, Barricading in Jungle Timber 75-100 mm Dia, Vertical Posts at .9m Centers and 1.2 Above Ground including White Washing. [SSCM 1709]	L.m	524.00	451.50
MS-054	Temporary Scaffolding for Painting or Tarring Bridges and for Weeding on Bridges or Retaining wall Including Dismantling after work (Paid Separately Scaffolding where Necessary) [SSCM 1008.3(a)]	Sq.m	200.00	172.50
MS-055	Roughening Existing Smooth tarred Metalled Carriageway by hand for Bonding , Collecting Disposal of all Loose Materials [SSCM 03.3(b)]	Sq.m	33.25	28.75
MS-056	Supply of Diesel for Machineries	ltr	413.00	356.00
MS-057	Patching road with Premix (Loose Volume) after Prep, Surface with Emulsion (CSS-1) at .75 ltr/sq.m at tack Coat Including internal Transport and Hand Stamping. (Supply of premix (Loose Volume) Paid Separately) [SSCM 1102.3(b)]	Cu.m	10,975.00	9,460.00
MS-058	Patching Road With Premix After Preparing Surface With Emulsion (CSS-1) at .75 ltr/sq.m as Tack Coat, Including Internal Transport and Stamping with Machine (Supply of Premix Paid Separately) [SSCM 1102.3(b)(i)]	M.ton	10,890.00	9,390.00
MS-059	Painting two Coats Enamel Paint on Kerbs, After Cleaning and Preparing Surface	Sq.m	764.00	659.00
MS-060	Preparing and Stock Piling Premix at Site Using 12.5 mm Aggregate and Emulsion (CSS-1) (Excluding Transport of Aggregate)	Cu.m	26,940.00	23,220.00
MS-061	Breaking Manually Asphalt layer 2"-3" Thick on the Carriageway for Kerb Laying	L.m	822.00	709.00

Section 14 - Survey & Day Works

Item No	Description	Unit	Rate Rs (With OH & Profit 16%)	Rate Rs (Without OH & Profit)
SV-001	Supply of Unskilled Labour	Days	2,900.00	2,500.00
SV-002	Supply of Semiskilled Labour	Days	3,016.00	2,600.00
SV-003	Supply of Skilled "A" Grade Labour	Days	4,640.00	4,000.00
SV-004	Supply of Skilled "B" Grade Labour	Days	4,060.00	3,500.00
SV-005	Clearing jungle (Light) to a Width of 1.22 meters for Survey work	km	11,080.00	9,550.00
SV-006	Clearing jungle (Medium) to a Width of 1.22 meters for Survey work	km	15,360.00	13,240.00
SV-007	Clearing jungle (Heavy) to a Width of 1.22 meters for Survey work	km	22,160.00	19,100.00
SV-008	Supply of Labour for Chaining and Cutting Pages and Pegging	km	2,880.00	2,485.00
SV-009	Leveling Chaining and Pegging and Establish Bench Marks on Concrete Rock or Pegs and Checking Back Levels	km	5,760.00	4,965.00
SV-010	Surveying Including Fixing Pickets & Taking Angles	km	5,760.00	4,965.00
SV-011	Changing Traverse Lines and Taking off-sets	km	7,680.00	6,620.00