

HSR -2022

SUMMARY

MANNAR DISTRICT

Ministry of Highways
Sri Lanka

HSR Summary – 2022

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ROAD DEVELOPMENT AUTHORITY – HSR ANALYSIS (METRIC)
GENERAL NOTES

1. This **Highway Schedule of Rates (HSR)** becomes operative from **01.01.2022**. HSR has given the maximum rates adoptable in the estimation of projects. 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.
2. Basic prices of materials used to derive the rates in this schedule are considered **without the Value Added Tax (VAT)**.
3. The rates are not included with overheads and profits component. For the purpose of preparation of Engineer's Estimates, these basic rates should be added with 20% for road works and 20% for bridge works. Provisions should be made separately in the estimate for the payment of **VAT**.
4. Work has to be carried out as per **(i) Standard Specifications for Construction & Maintenance of Roads and Bridges (S.S.C.M.)**, issued by the CIDA and **(ii) Road Maintenance Manual** issued by the RDA.
5. The description of all items in the bills shall briefly conform to that in the relevant items appearing in this schedule so as to avoid any ambiguity. Control of works, control of material and measuring & paying shall be carried out as per S.S.C.M. 104 to 106.6. However, where 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 under the relevant HSR B0-704/B0-705 or on approved S.S.RR or on closely monitored work.
6. The basic labour rates given in this schedule are inclusive of 12% E.P.F., 3% E.T.F., and the special allowances ordered by the Government.
7. **For works under Force Account, in exceptional cases, Sk'A" labour at higher rates than that given in this schedule may be engaged on adhoc basis with the DG/RDA's prior approval only.**
8. For items where cement and/or steel are used, the transport of same is included in the basic price. The rate of Emulsion per liter given in the HSR is exclusive of transport and shall be paid separately.
9. All cement to be used for Concrete, Structural and Masonry/Rendering work shall be of approved quality and shall conform to the specifications required by the Road Development Authority.
10. Materials from approved manufacturers only shall be used in all works (S.S.C.M. 1700). The borrow materials such as soil, aggregate and materials such as Bitumen binder etc. shall be subjected for quality assurance by sample checks during the construction as per S.S.C.M. 1602
11. **S.S.RR. and day work items** shall be approved by the Provincial Director, subject to the following conditions:
 - (a) Any **S.S.R.** where the amount of respective B.O.Q. item does not exceed Rs. **500,000/-**, irrespective of whether the S.S.R. is based on HSR, or not.
 - (b) All the **S.S.RR** and day work items, which are based on HSR, irrespective of the amount of B.O.Q. item, or as per directives issued by the Director General/R.D.A. during the year.
12. 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.
13. In respect of all works involving improvements to existing roads, contractor shall control traffic as per S.S.C.M. 103.
14. Plant hire charges not included in the HSR could be obtained from RDA schedule of hire charges for Machinery & Equipment given from Director/Mechanical. Otherwise procurement procedure as in General Notes Clause No. 18 should be followed. Hire charges given in this schedule are exclusive of overhead and profit component and taxes.
15. In the case of building construction works, rates in BSR-2022 prices prepared by the State Organizations on building construction, shall be adopted.
16. S.S.RR. approved with rates/prices applicable for a particular year, may be adopted for subsequent year/s where necessary, provided that only rates/prices are revised as applicable to the relevant year.

17. Materials available/recovered during execution of works:

All suitable earth, rock, steel or precast material and components available or recovered from road way excavations or demolition works shall be utilized in construction work with the approval of the Engineer and surplus disposed as directed. In the case of bridge re-construction works all bridge components such as steel girders, deck plates, and reinforcements etc., which are dismantled, shall be recovered and repaired for re-use. These items should be taken to an inventory by the Engineer and kept in stock under good care for reuse.

Separate items shall be included in the Estimates for reuse of such materials at recovery cost.

18. Procurement:

In cases where the resources have to be procured by tender procedure, the **Tender Committee shall take decisions** to make such awards according to the guide lines given in "**Procurement Manual/Procurement Guide Lines 2006 – Goods & Works**" and its subsequent amendments, issued by the **National Procurement Agency, Sri Lanka**.

a. All tender committees to procure materials for RDA work on works orders shall have a member from RDA authorized by the relevant Director/Provincial Director, and prior concurrence of the relevant Director/Provincial Director shall be obtained for the prices so decided before executing the work.

b. In case where Project Directors/ Provincial Directors procure materials at tender prices different to HSR or approve tender prices different to HSR fixed by other tender boards following government tender procedure as stated in above para, he shall take action to pay the contractor on prices approved by the tender board and amend / revise the relevant rates and the Estimates accordingly.

19. Payments under provisional sums:

"Provisional sum" means a sum included in the bill of quantities for the construction management services, execution of work, supply of goods/materials/ services or contingencies where the work items cannot be quantified accurately. The provisional sum amounts shall be included in the BOQ, by the **Engineer/Provincial Director** as per relevant assumptions on the matter and should be reasonable and justifiable respect to the site conditions and design requirements. This shall be executed in whole or in part or not at all at the direction and discretion of the Resident Engineer /Chief Engineer/Provincial Director. In case the provisional sum provided is not sufficient, funds allocated for contingencies item in the estimate shall be utilized to cover additional cost subject to the approval of the Provincial Director.

All such works, supplies, services or sub-contracts carried out by order of **Resident Engineer/Chief Engineer/Provincial Director** shall be valued at the relevant rates in the approved B.O.Q. or HSR if available. if the B.O.Q. or HSR does not contain any rates, then suitable S.S.RR or day works shall be agreed upon between Resident Engineer/Chief Engineer/Provincial Director and the contractor shall carry out work according to such approved S.S.RR.

20. Royalty/rental for materials mined:

Royalty/rental for approved borrow earth and aggregate materials mined from state land/private land shall be reimbursed **without overheads** to the contractor, on confirmation of the payment of royalty/rental by the Provincial Director of the relevant area where the mining is being executed. Royalty/rental rate shall not be more than the rate approved by the Government Agent/Divisional Secretary of the relevant area. In case the materials cannot be mined from state lands, government procurement procedure shall be followed as given in the General Notes **Clause No.18**.

21. Prior to preparation of the BOQ, suitable borrow pits shall be identified at locations as close as possible for economical transport and to the required quality, by the Resident Engineer/Chief Engineer//Provincial Director and transport distance shall be included accordingly in the BOQ and Estimates.

22. a. For any price variations other than works carried out on works orders, use the **ICTAD** formula guidelines and indices. **December 2021** shall be considered as the **base month** for computation of fluctuations. **However for contracts/work below Rs 2.0 million, payment on price variations shall not be considered.** Clause **22 b**, applies for works carried out on work orders.

b. If there is a change of ex-factory/manufacture's or ware- house price of different brands of cements, considered in the build-up of **basic price of cement** in the HSR, Director/ Provincial Director shall amend the basic price of cement after verification and pay on approved SSR. Similar procedure to be followed in case of **price changes in reinforcement steel & Bitumen**.

23. **Transport**

Note:

1. The rates for "transport" include all modes of transport up to a maximum distance of the stipulated range.
2. The most economical mode of transport shall be always adopted. In transporting materials (soil, sand, aggregate and rubble), if the average output of the transport vehicles cannot be achieved due to unavoidable delays or any other reason justifiable and acceptable to the **Chief Engineer/Provincial Director**. The rate of payment for transport shall be made under any relevant item selected from codes **T1-001 to T1-003b** irrespective of the type of vehicles to be used. However in case the quantity involved is more than 200 cu.m. per kilometer run and in situations other than stipulated in para above, the rate of payment for transport shall be selected from item codes **T1-006** or **T1-007** or **T1-007a** in the schedule whichever is relevant, For transport of plant made Premix, rate shall be as per item **T1-009**.
3. Transport of aggregate, soil, Emulsion and Premix materials **shall always be paid separately** unless otherwise directed.
4. Rate for rubble transport up to 3 km may be selected from item codes **T1-002** to **T1-003b** supported with justifiable reasons.

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

Note:

1. a. **Manual rates:**

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

b. **Bulk rate:**

In the case of borrow earth supply where the estimated quantity **exceeds 200 cu. m** (for the whole project), the rates given under **B0-201, B0-202** or item codes **EW1-013 & EW1-014** shall be adopted. Similarly for Roadway **Excavations with quantities more than 200 cu.m.**, rates given under item codes **E1-027, E1-028 and E1-029** shall be adopted. When deviation from above rates is necessary, payment shall be made on approved S.S.RR. Based on actual site records (machine hours) or on work-studies carried out under close supervision by the Engineer, after obtaining approval of the Technical Committee.

2. 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 structures, backfilling and compaction to be considered separately unless otherwise specified.
3. Foundation excavation shall be paid at the modified rate applicable to the item to cover up the additional excavation to maintain required slope and working space.

Modification factor for rates applicable to the item = $1+iH/L+iH/W$

Where, i = 0.1 for hard clay soil or similar soil, can be cut nearly vertical walls

i = 0.2 for sandy clay (SC) soil or similar soil, can be cut walls with a slope of about 15°

H = Excavation depth of the foundation according to the approved drawing

W = Width of the excavation according to the approved drawing

L = Length of the excavation according to the approved drawing

Cost for additional excavations for shoring shall be considered separately.

4. Soils are generally classified as in the Standard Specifications. (S.S.C.M. 301.2)
5. Construction of cofferdams that are necessary shall be paid separately. (S.S.C.M. 302(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 S.S.RR based on closely monitored work-studies or on day works at HSR/machine hours, depending on the site conditions.
6. De-watering necessary for cofferdams shall be paid separately. (S.S.C.M. 302(6)).
7. Rates under items **E1-011 to E1-019** are not applicable for the excavation for **foundations of bridge structures**. Payment for such excavations 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.
8. Trench excavation for utility services and reinstatement shall be according to S.S.C.M. 305 and shall be read in conjunction with the procedures 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 and necessary safety precautions have to be taken in advance.

25. Aggregate/rubble (including loading & piling)

Note:

1. Except where otherwise stated, the rates include preparing depots, loading and piling.
2. The rates for items B0-302 to B0-313 include the cost of blasting materials.
3. In exceptional cases such as limestone, "dug out" aggregate, special rates for items B0-302 to B0-313 shall be approved by the Provincial Director.
4. Transport of aggregate and rubble not included in the rates shall be paid separately.
5. Blasting operations shall be carried out as recommended in S.S.C.M. 306 and all works in blasting operations shall conform to the guidelines given in the National Environmental Act No. 47 of 1980 and any subsequent amendments.
6. Prior approval shall be obtained from the Provincial Director for the use of 19 mm hand broken aggregate.

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

Note:

1. Approved soil that is piled shall be spread, watered and well compacted by rolling as per Standard Specifications.
2. The rates for earth compaction include the cost of watering.
3. In the case of force account works, where the royalty or similar payments has to be paid for gravel, earth, clay, turf, etc., a claim shall be prepared separately for approval of the Provincial Director, subject to the conditions given under the **Clause 20 of the General Notes**. In case of works awarded on tender rates, the royalty is deemed to be included into the rates.
4. Rates given for the items 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 are to be decided on compacted volume basis, the rate 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 |

For rates on other densities, S.S.RR. should be approved by the Provincial Director.

5. Transport of water beyond 25 Meters shall be paid separately.
6. (i) The normal output of earth compaction per day will be 66 Cubic Meters using 8-10 ton Road Roller.
(ii) For earthworks in widening of existing roads where the average width is less than 1.5 meters, the output of earth compaction using 8-10 ton Roller shall be considered as 50 Cubic Meters per day.
7. Use of small compaction equipment shall be allowed only if the space is restricted for operating 10-ton Road Rollers or equivalent.

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

1. P1-001 to P1-004 does not include the cost of rubble, which shall be paid for separately. The coverage rates of paving are as follows:
 - (i) For pitch paving 225 mm thick 0.26 cu.m. of rubble per square Meter.
 - (ii) For pitch paving 150 mm thick 0.17 cu.m. of rubble per square Meter.
 - (iii) For flat paving 225 mm thick 0.21 cu.m. rubble per square Meter.
 - (iv) For flat paving 150 mm thick 0.15 cu.m. rubble for square Meter.

2. Rubble/rip rap paving shall be carried out to avoid damages by watercourses, slips, and slides to road embankments. Action shall be taken to include this item to routine/periodic maintenance flood damage items.

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

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 50 mm aggregate.
 - (ii) For construction of new bases and for edge correction 100 sq.m. shall be compacted with 8.5 - 10.0 cu.m. of new 50 mm aggregate spread in two layers to 100 mm loose thickness.
2. Edge correction shall be 0.6 m (approx.) in width and edge strengthening shall be 1.2 m (approx.) in width, using 100, 50 & 19 mm aggregate conforming to S.S.C.M. 1103.
3. Strip metaling shall be considered only when the surface sections to be metaled are in narrow strips less than 1.2 m in width.
4. For construction of new bases, where aggregate compaction of the 19-mm and 50 mm is required 1.0 cu.m. of 19 mm aggregate is adequate for compacting with 10 cu.m. of 50 mm.
5. The normal quantities of aggregate that shall be compacted per day are as follows:
 - (i) For full width of paved road including scarifying and/or hand picking the surface will be, 12.75 cu.m. of new aggregate per day.
 - (ii) For construction of new bases, 23.5 cu.m. of new aggregate per day.
 - (iii) For strip or edge correction including loading scarifying and/or handpicking the surface, 9.90 cu.m per day.
6. The average rate of travelling of Oil/Diesel Roller is 20 km per day.
7. The rates for items M1-001, M1-004 & M1-007 to M1-013 include the necessary re-transport of aggregate and no further re-transport costs shall be paid.
8. The actual scarified area (which is not necessarily the Bitumen surfaced area) shall be paid for in items M1-002 & M1-003. Normally 0.3 m width (approx.) shall be reckoned as requiring scarifying for edge correction.
9. Tempering and sharpening of scarifier tines are included in the rates for item M1-003 and shall not be paid for separately.
10. The rates for aggregate compaction include the cost of watering.
11. Transport of water beyond 25 Meters shall be paid separately.

29. Road surface treatment (S.S.C.M. 501 - 507)

1. The various Grades of Bitumen generally used for road works shall be as stipulated in the standard specifications.
2. The rates for Bitumen in surfacing include cost of Bitumen firewood/fuel and blinding materials. Transport of blinding materials exceeding 16 km shall be paid for separately. One cu.m. of blinding material is allowable for 125 sq.m. of Bitumen surfacing.
3. The rates include the cost of internal transport of Bitumen up to 16 km from contractors yard.
4. Approved sand shall be used for blinding.
5. The aggregate quantities and binder required per sq. Meter of **D.B.S.T** or **S.B.S.T** work shall be as per the **tables 505-1 or 505-3 of the S.S.C.M.** depending on the method adopted. The application rates specified shall always be included in the description of the BOQ item for **D.B.S.T** or **S.B.S.T**.
6. In case of force account works, the Officer in-Charge shall study the average consumption per sq.m. obtained by dividing the actual quantity of Bitumen used, in liters, by the area treated in sq.m. for first/subsequent coat Bitumen surfacing. The Engineer approving the item shall, after satisfying himself that the quantities claimed

are reasonable and within the limits specified in the HSR, approve the quantities accounted for. If the quantities are outside the specified limits, the approval of the Provincial Director should be obtained.

7. Cost of Binder and cover aggregate for seal coat treatment work shall be paid separately **only if specified**.
8. The basic rates for the Asphalt Concrete items **B0-361A, B0-362 and B0-362A** have been worked out taking 60/70 Penetration grade bitumen as the binder. For item **B0-365**, it is worked out with Cut-Back of 60/70 penetration grade Bitumen and for item **B0-366**, it is Bitumen Emulsion CSS-1.% Binder content used for different types of Asphalt Concrete is based on generally accepted mix designs specific to the plant location recommended by the R&D division of the RDA.

Different Bitumen penetration grades and or different binder contents may be specified for the asphalt concrete mixes for special cases. Then approved binder Type and the content as a % shall be included in the description of the item in such variations.

9. (i) **Densities of Asphalt Premix in compacted state** for general estimation purposes shall be as follows.

- a. **Wearing Course 2.450 m.t. per cu.m.**
- b. **Binder Course 2.430 m.t. per cu.m.**

For actual payments, design densities shall be adopted.

- (ii) Average density of Asphalt Premix in loose state shall be assumed as **1.48 m.ton per cu.m.**

10. The quantity of aggregate necessary for the production of 1 metric ton of Asphalt Premix (average for all six types considered in the HSR) by plant shall be taken as **0.6270 cubic meters**.
11. The transport of aggregate for the production of Premix shall be paid separately and shall be decided according to the location of the mixing plant.
12. The transport of Emulsion CSS-1 for the production of cold mix by plant shall be added to the rate per metric ton and shall be decided according to the location of the mixing plant. 59.17 liters of Emulsion CSS-1 are required for each metric ton of cold mix.

30. Road surface maintenance (S.S.C.M. 1100 - 1102)

1. Where method of patching per half a kilometer is adopted, the quantity of Bitumen per half a kilometer per month approved in the routine Maintenance Estimates, may be increased or decreased when necessary. But the rate payable to the contractor for the monthly maintenance of the road surface per half kilometer shall be the rate approved for that half kilometer by the Chief Engineer at the commencement of the Financial Year. The actual rate payable for patching with Bitumen will be according to the appropriate items.
2. All roads/sections of roads in the district for which 14, 21, 28, etc. liters per half kilometer per month have been approved shall be listed under groups 1,2, 3, etc., respectively in a schedule of roads, which will be approved by Chief Engineer, and shall become an attachment of the HSR after **Section xiv**.
3. If during the course of the year, there is considerable variation between the estimated quantity of Bitumen per half a kilometer per month and quantity actually used in respect of any road or section of road, the Executive Engineer will examine the reasons therefore and seek the Chief Engineer's approval to amend the rate payable for Bitumen patching of that road or section of road during the same and/or subsequent Financial Year and amend the schedule referred to in **General Note 30 Item 2.**, above.
4. The prior approval of the Chief Engineer should be obtained for extensive patching. Where extensive patching is carried out, no payment should be made for normal patching on the same half kilometer in the same month.

31. Patch sealing :(S.S.C.M. 1104)

Where the road surface shows signs of deficiency of Bitumen and pitted with numerous potholes, patch sealing shall be adopted.

32. Road side and drainage systems (S.S.C.M. 701 - 707, 1302)

1. The rates exclude the cost of loading, unloading and transporting but include spreading suitably in the vicinity unless otherwise directed.
2. Culvert inlets and outlets should be cleaned before and after the rains.

3. For cleaning choked culverts (item DR1-012) with head room/diameter less than 1 meter, day works rates shall be adopted.
4. Drains should be cleared before commencing any types of surfacing (S.S.C.M. 501 - 507).

33. Bridges, culverts, retaining walls, etc. (S.S.C.M. 1001 - 1010)

Note:

1. Concrete work

- i. The cost of shuttering is not included in the rates, 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 cofferdams, shoring, forming islands and de-watering shall be paid separately.
 - iv. For all concrete with 19mm aggregate, crusher plant materials shall be used unless otherwise directed.
2. Only sand of approved quality shall be used for cement mixes, mortars & concretes.
 3. The rates include the cost of transport up to 25 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.
 4. Transport of water beyond 25 meters shall be paid separately.
 5. Extra payment for scaffolding/staging where necessary is allowable if not included in the rate.
 6. To obtain the nominal mix of cement concrete 1:2:4 (19mm); batching of materials in the field under average conditions will be in the proportions 1:2 1/2:4 by volume. Cement concrete 1:3:6 (37.5 mm) and cement concrete 1:4:8 (50mm) may continue to be based on mm, nm, m,, m, batched by volume in the specified nominal proportions; cement should be by bags of 50 kg. and bags shall deem to be 0.035 cu. m. in volume.
 7. The quantities of the various materials for cement concrete and cement mortars required to yield an average workable mix shall be as follows.

| 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 | 9.87* | 0.6* | 0.91* |
| 2. Cement concrete | g 30(19 mm) | cu.m | 8.17* | 0.6* | 0.90* |
| 3. Cement concrete | g 25(19 mm) | cu.m | 6.35* | 0.6* | 0.90* |
| 4. Cement concrete | g 25(37.5mm+19mm) 70% 30% | cu.m | 5.86* | 0.6* | 37.5=0.54* 19.0=0.24* |
| 5. Cement concrete | g 20(19 mm) | cu.m | 6.04* | 0.53* | 0.79* |
| 6. Cement concrete | 1:1 1/2 :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(50 mm) | cu.m | 3.18 | 0.60 | 1.00 |
| 12. 12.5mm Cement render | 1:2 mix | sq.m | 0.15# | 0.013 | - |
| 13. 19.0mm Cement render | 1:2 mix | sq.m | 0.23# | 0.020 | - |
| 14. 12.5mm 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 | 1.77 | 0.40 | 1.10 |

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

* The above mix proportions for Grade concrete are given for estimation purposes. The actual proportions for Grade concrete shall be decided by mix designs at site and the rates shall be adjusted with the approval of the Provincial Director.

8. Ready mixed concrete:

Ready mix concrete shall be used only on the written approval of the Director/Provincial Director and for the procurement of the material government tender procedure as given under **General Notes Clause No. 18** to be followed. The contractor for ready mix concrete shall be a copious supplier having minimum of one year experience of supplying ready mix concrete to projects acceptable to the tender board and shall have sufficient transport & pumping facilities, laboratory facilities for quality control and a qualified staff.

9. Wedge stones shall mean stones that are wedged and squared on one face and roughly dressed on the other five faces to enable them to be laid in courses.

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

Generally for 74.5 sq.m. of **50 mm. thick compacted wearing surface**, the quantities of material required will be 3.5 cu.m. 19 mm to 3.2 mm. Graded aggregate, 2.3 cu.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.

11. Concrete pipe culverts (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 a distance of 25 m & 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.

34. Labour, plant and materials

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

35. Day works

- 1. **Day works shall be defined and adopted by the Engineer under exceptional circumstances.**
- 2. Labour rates fixed under **section xiv of the HSR (Surveying, Leveling and Day works)** shall be used in pricing day works. **In cases of very special labour**, such as skin divers etc., procurement of same shall be as per **General Notes clause 18**.
- 3. Rate for materials in day works shall be the **purchase price subject to the condition that procurement of same is done as per General Notes Clause No.18**.
- 4. It is necessary that **appropriate plant is used** and **works are programmed to minimize the costs to the satisfaction of the Engineer**.

36. Maintenance of road signs and markings: (S.S.C.M. 1501-1502)

All traffic signs, kerbs, parapets, guardrails, barricading and k.m. posts should be painted at least once a year unless otherwise directed by the Engineer.

37. Quality control work: (S.S.C.M. 1600)

- a. **The Engineer is responsible for carrying out tests on all works before recommending for payments and maintenance of records. In case of dispute, it may be referred to Provincial Director. /Director (R & D) for a final decision. (S.S.C.M. 1602)**
- b. **Special attention should be made to control the alignment, thickness and surface regularities of pavement layers as per section 1601 of the S.S.C.M. using geodetic levels, camber boards and 3-Meter straight edges.**

38. Piece rates and allowances:

The amounts allowed for the items under "piece rates and allowances" are the anticipated basic costs to cover the expenses to be incurred, during the execution of the work.

39. Labour Inputs

The labour inputs shown against the work items in this schedule do not include the Plant and Equipment Operator costs which are deemed to have been covered under the hire charges of the Plant and Equipment.

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

HSR - 2022
Engineering Division
Ministry of Highways

HSR - 2022
Engineering Division
Ministry of Highways

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|---|---|-------------|-------------------|
| LABOUR RATES (BASIC) | | | |
| B0-001 | SKILLED A - (SK 'A') * (Welders, Electricians, Carpenters, Masons, Miners, Painters. Hvy/Mach Operators, Ch.Hand) | DAY (8 HRS) | 2,500.00 |
| B0-002 | SKILLED B - (SK 'B') | DAY (8 HRS) | 2,000.00 |
| B0-003 | SEMI SKILLED - (S/SK) | DAY (8 HRS) | 1,950.00 |
| B0-004 | UNSKILLED - (U/SK) | DAY (8 HRS) | 1,850.00 |
| * Note: For works under Force Account in exceptional cases, Sk'A' labour at higher rates than above may be engaged on adhoc basis with DG/RDA's prior approval . See General Notes Section 6 . | | | |
| HIRE CHARGES (WET LEASE BASIS - INCLUDING OPERATOR UNLESS OTHERWISE)) | | | |
| B0-101 | TAR BOILER(HEATING WITH FIREWOOD)(Less Operator)# | DAY (8 HRS) | 100.00 |
| B0-102 | CONCRETE / ASPHALT MIXER (400 LTRS) | DAY (8 HRS) | 7,774.45 |
| B0-103 | BITUMEN SPRAYER (Less Operator)# | DAY (8 HRS) | 110.00 |
| B0-104 | WATER TANK + 50 MM. PUMP(Less Operator) # | DAY (8 HRS) | 1,379.68 |
| B0-105 | WELDING PLANT ENGIN DRIVEN: WITH WELDER | DAY (8 HRS) | 16,222.60 |
| B0-106 | PORKER VIBRATER (Less Operator) | DAY (8 HRS) | 2,524.23 |
| B0-107 | PLATE COMPACTOR (90 KG)(Less Operator) | DAY (8 HRS) | 4,756.32 |
| B0-108 | VIBRATING RAMMER (60 KG)(Less Operator) | DAY (8 HRS) | 4,818.50 |
| B0-109 | VIBRATING ROLLER (1/2 - 1 Ton) | DAY (8 HRS) | 7,482.11 |
| B0-110 | VIBRATING ROLLER (SMOOTH-10 TONS) | DAY (8 HRS) | 37,808.18 |
| B0-111 | SMOOTH/ROAD ROLLER (8 -10 TONS:STATIC) | DAY (8 HRS) | 17,600.00 |
| B0-112 | PNEUMATIC ROAD ROLLER (8 - 10 TONS) | HOURLY | 6,113.48 |
| B0-113 | MOTOR GRADER (65 HP) | DAY (8 HRS) | 34,560.00 |
| B0-114 | MOTOR GRADER (120 -140 HP) | DAY (8 HRS) | 59,520.00 |
| B0-115 | BACKHOE LOADER (JCB) | DAY (8 HRS) | 28,800.00 |
| B0-116 | WHEEL LOADER (1.4 CU,M) | DAY (8 HRS) | 34,560.00 |
| B0-116A | WHEEL LOADER (1.7 CU,M) | DAY (8 HRS) | 39,862.48 |
| B0-117 | TRACTOR & TRAILOR (3T) | DAY(8 HRS) | 6,791.31 |
| B0-118 | MATERIAL TRANSPORT BY LORRY/TIPPER/DT (EXCEEDING 10 KM DISTANCES). | KM/CU.M. | 28.86 |
| B0-118A | -Do- BY HIRED LORRY/TIPPER/DT (EXCEEDING 10 KM DISTANCES). | KM/CU.M. | 26.87 |
| B0-119 | -Do- BY LORRY/TIPPER/DT ((FOR MORE THAN 3 KM LESS THAN 10 KM. DISTANCES) | KM/CU.M. | 32.56 |
| B0-119A | -Do- BY HIRED LORRY/TIPPER/DT (FOR MORE THAN 3 KM LESS THAN 10 KM. DISTANCES) | KM/CU.M. | 30.54 |
| B0-120 | TRANSPORT OF PREMIX BY DUMP TRUCK | KM/M.TONNE | 20.75 |
| B0-120A | -Do- EMULSION PER 100 LITERS PER 1 KM | KM/100 LTRS | 3.79 |
| B0-120B | -Do- PREMIX BY HIRED DUMP TRUCK | KM/M.TONNE | 19.39 |
| B0-121 | SAND/CHIP SPREADER - PROPELLED | DAY (8 HRS) | 46,992.71 |
| B0-121A | SAND/CHIP SPREADER - TOWED | DAY (8 HRS) | 2,624.57 |
| B0-122 | FARM TRACTOR & BROOM | DAY (8 HRS) | 12,637.29 |
| B0-123 | EMULSION SPRAYER SELF PROP. (4000 LITRES) | DAY (8 HRS) | 29,686.56 |
| B0-124 | WHEEL LOADER (2.7 - 3.1 CU.M) | DAY (8 HRS) | 56,940.93 |
| B0-124A | WHEEL LOADER (2.0 - 2.3 CU.M) | DAY (8 HRS) | 49,586.30 |
| B0-125 | LORRY 3 TON(2.5 CU.M) * | KM | 47.58 |
| B0-126 | LORRY 5 TON(3.5 CU.M) * | KM | 59.75 |
| B0-127 | LORRY 7 TON(4.5 CU.M) * | KM | 69.28 |
| B0-128 | WATER BOWSER (6000 LITRES) | DAY (8 HRS) | 10,400.00 |
| B0-129 | ASPHALT PAVER (Crawler) | HOURLY | 8,749.47 |
| B0-129A | ASPHALT PAVER (Wheel) | HOURLY | 9,421.80 |
| B0-130 | TANKER ONLY(20,000 LITRES) | HOURLY | 355.17 |
| B0-130A | LOW BED TRAILER 30 TONS * | KM | 67.10 |
| B0-131 | PRIME MOVER OLD (FOR 20,000 L TANKER) | HOURLY | 4,164.85 |
| B0-131A | PRIME MOVER NEW (FOR 30 T TRAILER) TIME BASIS | HOURLY | 6,749.33 |
| B0-131B | PRIME MOVER NEW (FOR 30 TON TRAILER) DISTANCE BASIS * | KM | 306.79 |
| B0-132 | BABY DUMPER .75 cu.m (less Operator) | HOURLY | 1,375.97 |
| B0-133 | WATER PUMP 4" | HOURLY | 1,265.87 |
| B0-133A | WATER PUMP 2" (less Operator) | HOURLY | 300.92 |
| B0-134 | SLUDGE PUMP 4" | HOURLY | 1,691.76 |
| B0-135 | VIBRATING ROLLER (6 -7 TONS) TANDEM | HOURLY | 2,890.97 |
| B0-136 | CONCRETE MIXER WITH LOAD CELL WEIGH BATCHER 14/10 | DAY (8 HRS) | 13,203.63 |
| B0-137 | TROLLEY EMULSION (less Operator) | HOURLY | 124.74 |
| B0-138 | SPRAYER EMULSION HAND CART | HOURLY | 966.96 |
| B0-139 | ROAD MARKER HAND CART GAS HEATER | HOURLY | 1,700.00 |
| B0-140 | BITUMEN DISTRIBUTOR 750 LITRES | HOURLY | 1,791.37 |
| B0-141 | TANK TRUCK BITUMEN 10000 LTR | HOURLY | 4,937.49 |
| B0-142 | CRUSHER STONE 40T/H | HOURLY | 12,689.55 |
| B0-143 | TRACK DRILL CRAWLER | HOURLY | 1,936.19 |
| B0-144 | COMPRESSOR AIR 750 CFM | HOURLY | 7,450.74 |
| B0-145 | SLURRY SEALING MACHINE | HOURLY | 15,301.62 |
| B0-146 | MOBILE CRANE 25 TONS | HOURLY | 9,348.00 |
| B0-146A | MOBILE CRANE 30 TONS | HOURLY | 11,883.55 |
| B0-147 | ASPHALT PLANT 60T/H HOT MIX | HOURLY | 18,558.72 |
| B0-147A | COLD MIX PLANT 30 T/H | HOURLY | 11,065.64 |
| B0-148 | LORRY 10 TON * | KM | 109.90 |
| B0-149 | ITEM DELETED | | |
| B0-150 | FARM TRACTOR WITH WATER BOWSER | HOURLY | 849.23 |
| B0-151 | LORRY 17 TON SELF LOADING, WITH 10T CRANE - BOOM TRUCK (WET) * | KM | 194.04 |
| B0-151A | LORRY 17 TON SELF LOADING, WITH 10T CRANE - BOOM TRUCK (WET) * | HOURLY | 4,850.95 |

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|--|---|-------------|-------------------|
| HIRE CHARGES (WET LEASE BASIS - INCLUDING OPERATOR UNLESS OTHERWISE)(Continued) | | | |
| B0-152 | TRACTOR WITH EMULSION BOWSER | HOUR | 860.63 |
| B0-153 | EMULSION TANK TRUCK (8000 LITRES) * | KM | 148.70 |
| B0-154 | DOZER(CRAWLER TRACTOR) D-4,D-41(80-100 HP) | HOUR | 5,141.73 |
| B0-155 | EXCAVATOR MOBILE | HOUR | 7,932.68 |
| B0-156 | AIR COMPRESSOR 250 CFM | HOUR | 2,874.03 |
| B0-157 | HAND HELD BREAKER / DEMOLISHER) (Less Operator) | DAY | 654.73 |
| B0-158 | ROCK DRILL HAND HELD (LESS DRILL STEEL) | HOUR | 297.55 |
| B0-159 | TRUCK SNOOPER 750 KG (SKY LIFT) | HOUR | 2,617.60 |
| B0-160 | CHAINSAW (less Operator DRY LEASE) | DAY (8 HRS) | 3,000.00 |
| B0-161 | CHAINSAW (less Operator) | DAY (8 HRS) | 6,500.00 |
| B0-162 | ASPHALT CUTTER (with cutting blade) | HOUR | 3,750.00 |

* Cost of return trip not considered under this rate

**SUPPLY OF SOIL FROM BORROW PITS INCLUDING
LOADING.(FOR QUANTITIES MORE THAN 200 CU.M.)**

* SEE GENERAL NOTES FOR FURTHER DETAILS ON USING THIS RATE

| | | | |
|--------|---|------|--------|
| B0-201 | APPROVED SOIL TYPE I & II FOR SUB BASES & SHOULDERS | CU.M | 450.00 |
| B0-202 | APPROVED SOIL TYPE I & II FOR EMBANKMENTS | CU.M | 300.00 |

**AGGREGATE & RUBBLE (EX-QUARRY - BASIC)
INCLUDING BLASTING, LOADING & PILING**

NOTE * (ROYALTY / RENTAL TO BE ADDED SEPARATELY IN THE BOQ WITHOUT ADDING OVERHEADS, IF REQUIRED TO BE REIMBURSED.)

| | | | |
|--------|--|------|----------|
| B0-301 | (150MM - 225MM) RUBBLE - (VEHICLE MEASUREMENT, EXCLUDING PILING) | CU.M | 2,100.00 |
| B0-302 | (150MM - 225MM) RUBBLE PILED | CU.M | 2,506.95 |

MANUAL PRODUCTION

| | | | |
|--------|-------------------|------|----------|
| B0-303 | (100MM) AGGREGATE | CU.M | 1,590.11 |
| B0-304 | (75MM) AGGREGATE | CU.M | 1,413.43 |
| B0-305 | (50MM) AGGREGATE | CU.M | 1,643.11 |

PLANT PRODUCTION

| | | | |
|---------|---|------|----------|
| B0-308A | (19MM) AGGREGATE | CU.M | 2,850.00 |
| B0-309 | (12.5MM) AGGREGATE | CU.M | 2,550.00 |
| B0-310 | (37.5MM) - DO - , (S.S.C.M. TB : 1701-1 / 1701-4) | CU.M | 2,450.00 |
| B0-311 | (50MM) - DO - , (S.S.C.M. TB : 1701-4) | CU.M | 2,300.00 |
| B0-312 | CRUSHER FINES (6.3MM. DOWN WARDS) | CU.M | 2,255.91 |
| B0-313 | (37.5MM) GRADED (TABLE 1701.5 FOR ABC) | CU.M | 2,397.37 |

AGGREGATE FOR SEAL COAT TREATMENTS

(GRADING AS PER SSCM TABLE 1701-8)

| | | | |
|--------|-------------------|------|----------|
| B0-314 | AGGREGATE 19 MM | CU.M | 2,296.82 |
| B0-315 | AGGREGATE 12.5 MM | CU.M | 2,473.50 |
| B0-316 | AGGREGATE 9.5 MM | CU.M | 2,473.50 |

**SAND (RATE TO INCLUDE TRANSPORT UP TO 16 KM.)
(ADDITIONAL TRANSPORT TO BE PAID SEPARATELY)**

| | | | |
|--------|--|------|----------|
| B0-331 | RIVER SAND FOR ROAD SURFACE APPLICATIONS (SSCM TABLE 1701-9) | CU.M | 4,155.80 |
| B0-332 | RIVER SAND FOR CONCRETE AND MASONRY WORK (SSCM TABLE 1701-2) | CU.M | 4,155.80 |

NOTE: 1. IF THE SAND IS TRANSPORTED FROM ANOTHER DISTRICT, THE RATE GIVEN FOR THAT DISTRICT IS TO BE USED.

BRICKS (WITHOUT TRANSPORT)

| | | | |
|--------|---|-----------|-----------|
| B0-340 | COMMON BURNT CLAY BUILDING BRICKS (SLS 39:1978) | 1000 NOS. | 20,000.00 |
|--------|---|-----------|-----------|

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|-------------------------------------|--|-------------|-------------------|
| BITUMEN & EMULSION | | | |
| (TRANSPORT TO BE ADDED SEPARATELY) | | | |
| B0-351 | BITUMEN 80/100 *[DRUMS] (Purchases>25 drums) | LITRE | 143.00 |
| B0-351A | BITUMEN 60/70[DRUMS] (Purchases>25 drums) | LITRE | 143.00 |
| B0-352 | EMULSION - C.S.S. 1* (EXCLUDING TRANSP.) | LITRE | 113.16 |
| B0-353 | EMULSION - C.R.S. 1* (EXCLUDING TRANSP.) | LITRE | 112.44 |
| B0-354 | EMULSION - C.R.S. 2 * (EXCLUDING TRANSP.) | LITRE | 119.30 |
| B0-355 | BITUMEN 80/100 * [BULK] [with De-cant cost] | KG | 143.00 |
| B0-355A | BITUMEN 60/70 [BULK][with De-cant cost] | KG | 143.00 |
| B0-355B | BITUMEN 80/100* [BULK] | KG | 141.00 |
| B0-355C | BITUMEN 60/70 [BULK] | KG | 141.00 |
| B0-356 | CUTBACK BITUMEN - MC-30 | LITRE | 136.90 |
| B0-357 | POLYMER MODIFIED BITUMEN (PG 76-10) | LITRE | 222.22 |
| B0-358 | POLYMER MODIFIED BITUMEN EMULSION | LITRE | 148.15 |
| B0-359 | SLOW SETTING EMULSION USED FOR PRIME COAT | LITRE | 100.00 |

PREMIXED BITUMINOUS MATERIALS
(PRICE INCLUSIVE OF ALL RAW MATERIAL TRANSPORT AND ROYALTY ON AGGREGATE)

BINDER CONTENT IS TO BE DECIDED ACCORDING TO THE JOB MIX FORMULA OF THE PLANT. IF THE BINDER CONTENT OF JOB MIX FORMULA IS CHANGED FROM THE GIVEN % IN THE ITEM, THE RATE SHOULD BE ADJUSTED ACCORDING TO FOLLOWING EQUATION. ADDITIONAL COST = % OF BINDER CONTENT DIFFER FROM THE GIVEN BINDER % IN BO ITEM X 10 X BO 355A

| | | | |
|---------------------------|--|-----------------------|--|
| (FOR PROJECT USE)- | | | |
| B0-361A | ASPHALT CONCRETE: SURFACING MATERIAL- BINDER 60/70 BITUMEN @ 4.5% OF MIX | ITEM DELETED * | |
| B0-362 | ASPHALT/BITUMEN: BOUND BASE MATERIAL- BINDER 60/70 BITUMEN @ 3.5% OF MIX | ITEM DELETED * | |
| B0-362A | ASPHALT CONCRETE: BINDER COURSE MATERIAL- BINDER 60/70 BITUMEN @ 4.1% OF MIX | ITEM DELETED * | |

| | | | |
|--|---|-----------------------|--|
| (FOR PROJECTS & MAINTENANCE)- | | | |
| B0-365 | CUT BACK ASPHALT-AGGREGATE COLD MIX WITH 15% CUT BACK 60/70 @ 5.5% OF MIX (19 mm) | ITEM DELETED * | |
| B0-365A | CUT BACK ASPHALT-AGGREGATE COLD MIX WITH 16% CUT BACK 60/70 @ 5.5% OF MIX (12.5 mm) | ITEM DELETED * | |
| B0-366 | EMULSIFIED ASPHALT AGGREGATE COLD MIX WITH EMULTION CSS1 @ 6.67% OF AGGREGATE | ITEM DELETED * | |

- NOTE: 1. ABOVE RATES INCLUDE TRANSPORT COST FOR: AGGREGATES -50 KM ;DEISEL- 25 KM ; KOIL - 25 KM ;BINDER- 10 KM**
2. TRANSPORT COST FROM PLANT TO THE LAYING SITE TO BE PAID SEPARATELY.
*** ASPHALT PLANTS ARE NOT AVAILABLE WITHIN THE DISTRICT. USE EX PLANT BASIC PRICES SELECTED FROM THE TABLE GIVEN IN ANNEX I, RELEVANT TO THE MIXING PLANT CLOSEST TO THE SITE, DEPENDING ON THE AVAILABILITY OF THE REQUIRED TYPE AND THE MOST ECONOMICAL RATE WITH TRANSPORT.**

READY-MIX CONCRETE (EXCLUDING HANDLING COST)

| | | | |
|--------|-----------------------------|------|-----------|
| B0-380 | GRADE 15 / 20 /120mm | CU.M | 19,500.00 |
| B0-381 | GRADE 20 / 20 /120mm | CU.M | 20,400.00 |
| B0-382 | GRADE 25 / 20 /120mm | CU.M | 21,300.00 |
| B0-383 | GRADE 30 / 20 /120mm | CU.M | 22,200.00 |
| B0-384 | GRADE 35 / 20 /120mm | CU.M | 23,100.00 |
| B0-385 | GRADE 40 / 20 /120mm | CU.M | 24,000.00 |

- NOTE: 1. ABOVE RATES ARE CONSIDERED WITHIN 15KM FOR 120MM SLUMP AT SITE**
2. NOMINAL AGGREGATE SIZE 20MM

| | | | |
|--------|---|---------|----------|
| B0-386 | TRANSPORT OF READY MIX CONCRETE MORE THAN 15 KM RADIUS FROM THE PLANT | CU.M/KM | 90.00 |
| B0-387 | PLACING OF CONCRETE BY USING PUMP CAR (ALL INCLUSIVE) | CU.M | 1,100.00 |
| B0-388 | TRANSPORT OF PUMP CAR TO THE SITE | KM | 250.00 |

TIMBER & FIREWOOD (INCLUDING TRANSPORT COST)

| | | | |
|--------|---|-----------|----------|
| B0-391 | SAWN TIMBER CLASS 1 (LOCAL) | CU.DECI.M | 199.60 |
| B0-392 | SAWN TIMBER CLASS 2 (LOCAL) | CU.DECI.M | 97.95 |
| B0-393 | TIMBER ROUND JUNGLE - 100 MM (MINIMUM) TO 150 MM DIAMETER | METRE | 38.00 |
| B0-394 | TIMBER ROUND JUNGLE - 150 MM (MINIMUM) TO 200 MM DIAMETER | METRE | 50.00 |
| B0-395 | FIREWOOD | CU.M | 1,675.45 |
| B0-396 | PLYWOOD(MR) FOR FORMWORK - 15 MM THICK | SQ.M | 2,297.00 |
| B0-397 | BAMBOO TREE LENGTH GREATER THAN 8 METERS | NO. | 405.70 |

CEMENT (INCLUDING TRANSPORT COST)

| | | | |
|--------|-------------------------------|-------------|----------|
| B0-401 | PORTLAND CEMENT(FOR ALL WORK) | BAG (50.Kg) | 1,398.10 |
|--------|-------------------------------|-------------|----------|

STEEL AND STEEL ITEMS
(INCLUDING TRANSPORT COST)

| | | | |
|---------|---|----------|----------|
| B0-411 | MILD STEEL | KG | 249.80 |
| B0-411A | TOR STEEL | KG | 242.38 |
| B0-431 | BINDING WIRE | KG | 322.90 |
| B0-432 | WIRE NAILS, M.S.BOLTS & NUTS | KG | 354.95 |
| B0-433 | STAINLESS STEEL 20 MM DIA.(FOR DOWELS) | METER | 1,150.05 |
| B0-434 | GI PIPES, 50 MM DIAMETER: HEAVY DUTY TYPE | METER | 3,439.65 |
| B0-435 | M.S. SHEET, 2 MM THICK | SQ.METRE | 7,414.30 |

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|--|--|----------------------|-------------------|
| PRECAST CONCRETE ITEMS | | | |
| EX - FACTORY: AVERAGE PRICE EXCLUDING VAT | | | |
| REINFORCED CONCRETE PIPES & COLLARS | | | |
| | DIAMETER (M.M) | LENGTH (M.M) | |
| | ----- | ----- | |
| PIPES | | | |
| B0-441 | 153 (6") | 2438 (8') | 01 NO. 5,275.00 |
| B0-442 | 229 (9") | 2438 (8') | 01 NO. 7,400.00 |
| B0-443 | 305 (12") | 2438 (8') | 01 NO. 8,020.00 |
| B0-444 | 450 (1' 6") | 2438 (8') | 01 NO. 12,546.65 |
| B0-445 | 610 (2' 0") | 2438 (8') | 01 NO. 17,585.00 |
| B0-446 | 914 (3' 0") | 1219 (4') | 01 NO. 14,310.00 |
| B0-446A | 914 (3' 0") | 2438 (8') | 01 NO. 29,580.00 |
| B0-447 | 1219 (4' 0") | 1219 (4') | 01 NO. 21,912.50 |
| B0-447A | 1219 (4' 0") | 2438 (8') | 01 NO. 42,000.00 |
| COLLARS | | | |
| B0-441B | 153 (6") | | 01 NO. 1,170.00 |
| B0-442B | 229 (9") | | 01 NO. 1,080.00 |
| B0-443B | 305 (12") | | 01 NO. 1,480.00 |
| B0-444B | 450 (1' 6") | | 01 NO. 1,680.00 |
| B0-445B | 610 (2' 0") | | 01 NO. 2,175.00 |
| B0-446B | 914 (3' 0") | | 01 NO. 2,865.00 |
| B0-447B | 1219 (4' 0") | | 01 NO. 3,530.00 |
| PRECAST CONCRETE ITEMS | | | |
| B0-448 | STD ROAD KERB 125X250X900 G25 CONCRETE | | 01 NO. 1,043.35 |
| B0-449 | PAVING SLAB 450X450X50 MM G20 WITH R/F CONCRETE | | 01 NO. 633.35 |
| B0-449A | PAVING SLAB 450X450X50 MM G20 CONCRETE | | 01 NO. 388.35 |
| B0-450 | BRIDGE KERB 915 | | 01 NO. 2,376.65 |
| B0-451 | STD. UPRIGHTS FOR BRIDGES (NEW DESIGN) | | 01 NO. 2,975.00 |
| B0-452 | STD. HAND RAILS FOR BRIDGES (NEW DESIGN) | | 01 NO. 2,853.35 |
| B0-453 | COUPLING PAIRS FOR HAND RAILS | | 01 PAIR. 560.00 |
| B0-454 | RAIN WATER CHANNELS 609 MM LONG | | 01 NO. 258.00 |
| B0-455 | CEMENT SAND HOLLOW BLOCK 16"X8"X4" | | 01 NO. 85.00 |
| B0-456 | FACIA SLAB 4' X 2' | | 01 NO. 3,600.00 |
| B0-457 | GUARD STONES (STANDARD) | | 01 NO. 4,100.00 |
| B0-458 | KILOMETER POST (STANDARD) | | 01 NO. 6,900.00 |
| B0-459 | BOUNDARY MARKER (STANDARD) | | 01 NO. 2,900.00 |
| B0-460 | G25 CONCRETE PAVING BLOCK (220mm × 110mm × 80mm) | | 01 NO. 48.00 |
| B0-461 | G40 CONCRETE PAVING BLOCK (220mm × 110mm × 80mm) | | 01 NO. 55.00 |
| BLASTING MATERIALS (INCLUDING TRANSPORT COST) | | | |
| B0-501 | BLASTING POWDER | | KG. 631.90 |
| B0-502 | FUSE WIRE | | M. 413.20 |
| B0-503 | STEEL, JUMPER | | KG. 541.85 |
| B0-504 | ELECTRIC DETONATORS | | NO. 95.90 |
| B0-505 | DYNA CORD | | M. 74.80 |
| B0-506 | WATER GEL | | KG. 1,009.40 |
| B0-507 | AMMONIUM NITRATE | | KG. 196.70 |
| B0-508 | ORDINARY DETONATOR | | NO. 12.00 |
| PAINTS (INCLUDING TRANSPORT COST) | | | |
| B0-531 | BITUMINOUS EMULSION PAINT(CRS-2) | | LITRE 119.30 |
| B0-534 | GLUE | | KG 364.45 |
| B0-537 | LIME - BOILED | | KG 25.85 |
| B0-541 | PAINT-ENAMEL | | LITRE 1,012.15 |
| B0-542 | PAINT - ANTI COROSIVE | | LITRE 827.55 |
| B0-543 | DELETED | | - |
| B0-544 | PAINT - EMULSION | | LITRE 854.00 |
| B0-545 | RUST REMOVER | | LITRE 3,532.99 |
| B0-546 | EMULSION FOR EXTERIOR USE (WEATHERSHIELD) | | LITRE 1,313.66 |
| B0-547 | ROAD MARKING PAINTS (YELLOW) | | LITRE 1,195.02 |
| B0-548 | ROAD MARKING PAINTS (WHITE) | | LITRE 1,016.20 |
| FUEL, OILS & LUBRICANTS | | | |
| B0-601 | INDUSTRIAL KEROSENE OIL (COLOMBO) | | LITRE 110.00 |
| B0-602 | MOULD OIL | | LITRE 43.00 |
| B0-611 | LUBRICANT(OIL) | | LITRE 708.89 |
| B0-612 | AUTO DIESEL (COLOMBO) | | LITRE 121.00 |
| B0-613 | PETROL (COLOMBO) | | LITRE 177.00 |
| B0-614 | FURNACE OIL FOR BURNERS | | LITRE 110.00 |
| B0-615 | LP GAS | | KG 227.50 |
| B0-616 | LUBRICANT(GREASE)) | | KG 950.90 |

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|--------------------------------|--|-------------|-------------------|
| MISCELLANEOUS MATERIALS | | | |
| B0-631 | BASKETS (WITH TRANSPORT) | 01 NO. | 263.80 |
| B0-632 | GUNNY BAGS NEW(LARGE) (WITH TRANSPORT) | 01 NO. | 55.10 |
| B0-632A | POLY SACS (65 KG CAPACITY) (WITH TRANSPORT) | 01 NO. | 43.60 |
| B0-633 | COTTON WASTE (WITH TRANSPORT) | KG | 150.70 |
| B0-634 | SALT (WITH TRANSPORT) | KG | 75.00 |
| B0-635 | EMPTY TAR BARRELS (140 LTRS) WITH TRANSPORT) | NO | 90.55 |
| B0-636 | P.V.C. PIPE 110 MM DIA TYPE 250 PE (WITH TRANS.) | METRE | 730.30 |
| B0-636B | P.V.C. PIPE 110 MM DIA TYPE 400 PE (WITH TRANS.) | METRE | 1,177.05 |
| B0-636C | PVC PIPE 110MM DIA TYPE 600 PE (WITH TRANSPORT) | METER | 2,475.65 |
| B0-636D | PVC PIPE 110MM DIA TYPE 1000 PE (WITH TRANSPORT) | METER | 3,561.30 |
| B0-636E | PVC PIPE 110MM DIA TYPE 1000 PE BEND (WITH TRANSPORT) | NOS | 3,593.70 |
| B0-637 | P.V.C. PIPE 50 MM DIA TYPE 400 PE (WITH TRANS.) | METRE | 326.90 |
| B0-637A | P.V.C. PIPE 25 MM DIA TYPE 1000 PE (WITH TRANS.) | METRE | 269.30 |
| B0-637B | P.V.C. PIPE 90 MM DIA TYPE 400 PE (WITH TRANS.) | METRE | 1,197.85 |
| B0-637C | P.V.C. PIPE 90 MM DIA TYPE 600 PE (WITH TRANS.) | METRE | 1,795.10 |
| B0-637D | P.V.C. PIPE 160 MM DIA TYPE 250 PE (WITH TRANS.) | METRE | 2,017.30 |
| B0-637E | P.V.C. PIPE 160 MM DIA TYPE 400 PE (WITH TRANS.) | METRE | 3,150.80 |
| B0-637F | P.V.C. PIPE 160 MM DIA TYPE 600 PE (WITH TRANS.) | METRE | 4,568.25 |
| B0-637G | P.V.C. PIPE 160 MM DIA TYPE 1000 PE (WITH TRANS.) | METRE | 6,989.55 |
| B0-638 | HARD RUBBER 12MM THICK X 75 MM WIDE (WITH TRANS) | METRE | 1,464.16 |
| B0-639 | POLYTHENE 325 MM DIA GAUGE 300 (APPROX.14.0 METERS/KG) (TUBULAR FLAT WIDTH APP. 505 MM, WITH TRANS.) | KG | 615.00 |
| B0-639A | POLYTHENE 230 MM DIA GAUGE 300 (APPROX.19.5 METERS/KG) (TUBULAR FLAT WIDTH APP. 355 MM, WITH TRANS.) | KG | 615.00 |
| B0-639B | POLYTHENE 150 MM DIA GAUGE 300 (APPROX.28.0 METERS/KG) (TUBULAR FLAT WIDTH APP. 241 MM, WITH TRANS.) | KG | 615.00 |
| B0-640 | ALLUMINIUM SHEET 24 SWG (WITH TRANSPORT) | SQ.METRE | 2,259.60 |
| B0-641 | ANGLE IRON 50X50X6 MM (WITH TRANSPORT) | METRE | 1,308.90 |
| B0-642 | M.S. PLATE 12 MM THICK (WITH TRANSPORT) | SQ.M | 45,545.05 |
| B0-643 | ADHESIVE (WATER RESISSTANT) | KG | 5,787.15 |
| B0-644 | EMULSIFIER- CSS/CRS | KG | 500.00 |
| B0-645 | EARLY STRENGTH ADMIXER (Usage:300 ml per 50 kg Cement bag) | LTR | 193.30 |
| B0-646 | TRAFFIC CONES | NO. | 1,725.00 |
| B0-647 | 75 MM X 8 MM DIA NUTS AND BOLTS | NO. | 20.50 |
| B0-648 | SAW DUST (LOOSE) | CU.M | 127.55 |
| B0-649 | DRILL STEEL | METER | 125.05 |

PIECE RATES & ALLOWANCES

ALLOW FOR:

| | | | |
|--------|--|-------|----------|
| B0-704 | BARRICADING (SMALL WORK ITEMS) | ITEM | 1,000.00 |
| B0-705 | BARRICADING, LIGHTING, SIGNALLING ETCFOR100M (STATIONARY OPERATIONS) | DAY | 2,500.00 |
| B0-711 | CEMENT, SAND & WATER FOR JOINTING HUME [PIPES 152 MM DIAMETER | JOINT | 100.00 |
| B0-712 | - DO - 229 TO 610 MM DIAMETER | JOINT | 200.00 |
| B0-713 | - DO - 915 MM DIAMETER | JOINT | 400.00 |
| B0-714 | - DO - 1220 MM DIAMETER | JOINT | 700.00 |
| B0-715 | COIR ROPE (FOR SCAFFOLDING 93 SQ.M AREA) | ITEM | 500.00 |
| B0-716 | COIR STRING FOR CUTTING SIDE DRAINS (PER 2.83 CU.M) | ITEM | 75.00 |
| B0-717 | - DO - FIXING SCAFFOLDING (PER 93 SQ.M) | ITEM | 400.00 |
| B0-718 | MINOR REPAIRS OF PARAPETS WITH CEMENT, SAND & WATER (PER 9.29 SQ.M) | ITEM | 500.00 |
| B0-720 | FUEL *(FOR LOOSENING ROAD SURFACE IN MANUAL BREAKING 50 MM DEPTH X 307 SQ.M) | ITEM | 100.00 |
| B0-723 | FUEL, FORGE ETC.(PER 2.83 CU.M BLASTING) | ITEM | 200.00 |
| B0-732 | LADDERS (PER 93 SQ.M) | ITEM | 500.00 |
| B0-741 | PAINT (FOR LETTERING & NUMBERING ITEMS) | ITEM | 200.00 |
| B0-746 | PEGS (FOR TURFING IN 19 SQ.M AREA) | ITEM | 500.00 |
| B0-751 | SAND PAPER & COTT. WASTE (PER 9.29 SQ.M) | ITEM | 300.00 |
| B0-752 | SHARP. SCARIFIER TYNES (FOR 307 SQ.M) | ITEM | 100.00 |
| B0-761 | TIMBER PLANKS & BAMBOOS (FOR 93 SQ.M)) | ITEM | 1,300.00 |
| B0-762 | TIMBER POST, HORIZONTAL ETC. (FOR BARRICADING WORK IN 4 L.M.) | ITEM | 2,000.00 |

WATER FOR CONCRETING:

| | | | |
|--------|---|------|-------|
| B0-781 | ALLOW FOR WATER (FOR MIXING BY MACHINE) PER | CU.M | 50.00 |
| B0-782 | ALLOW FOR WATER (FOR MIXING MANUALLY) PER | CU.M | 50.00 |

WATER FOR COMPACTION & GENERAL USE

| | | | |
|--------|--|-------|--------|
| B0-784 | ALLOW FOR WATER (GRAVEL COMPACTION) PER | CU.M | 25.00 |
| B0-785 | ALLOW FOR WATER (AGGREGATE COMPACTION) PER | CU.M | 35.00 |
| B0-786 | ALLOW FOR WATER (MOISTENING ROAD SURFACE) | ITEM | 100.00 |
| B0-787 | ALLOW FOR WATER SUPPLY (BY BUCKET & COIR ROPE) | ITEM | 100.00 |
| B0-788 | WATER FOR GENERAL PURPOSES | LITRE | 25.00 |

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|--------------------------------------|--|-------------|-------------------|
| WHITE WASHING FOR BARRICADING | | | |
| B0-791 | WHITE WASHING EMPTY BARRELS (BITUMEN) | 01 NO. | 200.00 |
| B0-792 | WHITE WASHING TIMBER POSTS, HORIZONTALS, ETC. (IN 4 L.M. BARRICADING) | 01 ITEM | 75.00 |

FOLLOWING MATERIAL PRICES ARE FOR ESTIMATION ONLY
(PAYMENTS SHOULD BE BASED ON APPROVED TENDER PRICES)

| THERMOPLASTIC ROAD MARKING MATERIALS EXCLUDING TRANSPORT & VAT | | | |
|---|--|-------|----------|
| B0-800 | THERMO PLASTIC ROAD MARKING MATERIAL(WHITE) | KG | 171.00 |
| B0-801 | THERMO PLASTIC -DO- (YELLOW) | KG | 171.00 |
| B0-802 | GLASS BEADS | KG | 175.00 |
| B0-803 | CATS EYE (ALUMINIUM ROAD STUD, DOUBLE SIDED) | NO. | 2,250.00 |
| B0-804 | DELETED | | - |
| B0-805 | DELETED | | - |
| B0-806 | ZEBRA BARRICADING TAPE (POLYTHENE) | METRE | 44.12 |

P.C.C. BEAMS (Wires) EXCLUDING TRANSPORT & VAT

NOTE: Specifications of the beams should be in compliance to the national highways
RN indicates Rates are to be negotiated and decide

| | <u>BEAM LENGTH</u> | <u>FT.</u> | <u>M</u> | <u>WT.(Tonnes)</u> | | |
|---------|--------------------|------------|----------|--------------------|----------|------------|
| B0-810 | P.C.C BEAM | 11'0 | 3.35 | 0.89 | PER BEAM | RN |
| B0-811 | P.C.C BEAM | 14'0 | 4.26 | 1.13 | PER BEAM | RN |
| B0-812 | P.C.C BEAM | 17'0 | 5.18 | 1.57 | PER BEAM | RN |
| B0-813 | P.C.C BEAM | 20'0 | 6.09 | 2.08 | PER BEAM | RN |
| B0-814 | P.C.C BEAM | 23'0 | 7.01 | 2.26 | PER BEAM | 105,000.00 |
| B0-814A | P.C.C BEAM | 27'0 | 8.23 | 2.19 | PER BEAM | RN |
| B0-815 | P.C.C BEAM | 32'0 | 9.75 | 2.59 | PER BEAM | RN |
| B0-816 | P.C.C BEAM | 35'0 | 10.67 | 2.86 | PER BEAM | RN |
| B0-817 | P.C.C BEAM | 40'0 | 12.19 | 3.80 | PER BEAM | RN |
| B0-818 | P.C.C BEAM | 44'0 | 13.41 | 4.22 | PER BEAM | RN |
| B0-819 | P.C.C BEAM | 53'0 | 16.15 | 5.07 | PER BEAM | RN |

P.C.C. BEAMS(Strands) EXCLUDING TRANSPORT & VAT

NOTE: Specifications of the beams should be in compliance to the national highways

| | <u>BEAM LENGTH</u> | <u>FT.</u> | <u>M</u> | <u>WT.(Tonnes)</u> | | |
|--------|--------------------|------------|----------|--------------------|----------|------------|
| B0-830 | P.C.C BEAM | 31.16' | 9.5 | 2.32 | PER BEAM | 105,000.00 |
| B0-831 | P.C.C BEAM | 37.72' | 11.5 | 3.21 | PER BEAM | 142,000.00 |
| B0-832 | P.C.C BEAM | 44.28' | 13.5 | 4.20 | PER BEAM | 166,500.00 |
| B0-833 | P.C.C BEAM | 47.56' | 14.5 | 4.71 | PER BEAM | 200,500.00 |
| B0-834 | P.C.C BEAM | 50.84' | 15.5 | 5.44 | PER BEAM | 228,500.00 |
| B0-835 | P.C.C BEAM | 54.12' | 16.5 | 6.16 | PER BEAM | 240,000.00 |

GABION MESH EXCLUDING TRANSPORT & VAT

ZINC COATED GABION BOXES

| | | | |
|--------|---|---------|-----------|
| B0-850 | 1X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 5,000.00 |
| B0-851 | 2X1X0.5M INCLU. COATED TIE(BINDING) WIRE @ 5% OF GABION WEIGHT | PER BOX | 5,750.00 |
| B0-852 | 1.5X1X1M INCLU. COATED TIE (BINDING) WIRE @ 5% OF GABION WEIGHT | PER BOX | 6,450.00 |
| B0-853 | 2X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 8,400.00 |
| B0-854 | 3X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 12,800.00 |

PVC COATED GABION BOXES

| | | | |
|---------|---|---------|-----------|
| B0-850A | 1X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 7,750.00 |
| B0-851A | 2X1X0.5M INCLU. COATED TIE(BINDING) WIRE @ 5% OF GABION WEIGHT | PER BOX | 9,230.00 |
| B0-852A | 1.5X1X1M INCLU. COATED TIE (BINDING) WIRE @ 5% OF GABION WEIGHT | PER BOX | 9,800.00 |
| B0-853A | 2X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 13,850.00 |
| B0-854A | 3X1X1M INCLU. COATED TIE (BINDING)WIRE @ 5% OF GABION WEIGHT | PER BOX | 15,500.00 |

GEOTEXTILES EXCLUDING TRANSPORT & VAT

| | | | |
|--------|------------|------------|--------|
| B0-860 | GEOTEXTILE | PER 1 SQ.M | 249.33 |
|--------|------------|------------|--------|

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| <u>CODE</u> | | <u>UNIT</u> | <u>PRICE(RS.)</u> |
|--|---|-------------|-------------------|
| SIGNALIZATION EXCLUDING TRANSPORT AND VAT | | | |
| B0-900 | SIGNAL POLE 4M THICKNESS 5MM, DIA 125MM, OCTAGANAL STEEL POLE HOT DIPPED GALVANIZED, PLASTIC COATING INCLUDING WASHER NUT, WASHER PLATE 32MM NUTS AND BOLTS | NOS | 75,614.00 |
| B0-901 | 5M ARM WITH POLE, MATERIAL Q235, THICKNESS 5MM ,DIA. 230MM, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 456,000.00 |
| B0-902 | 6M ARM WITH POLE, MATERIAL Q235, THICKNESS 5MM , DIA. 230MM, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 466,800.00 |
| B0-903 | 7M ARM WITH POLE, MATERIAL Q235, THICKNESS 5MM ,DIA. 230MM, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 476,800.00 |
| B0-904 | 9M ARM WITH POLE, MATERIAL Q235, THICKNESS 5MM ,DIA. 230MM, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 699,900.00 |
| B0-905 | 10.5M ARM WITH POLE, MATERIAL Q235, THICKNESS 8MM , DIA. 230MM, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 731,700.00 |
| B0-906 | 12M ARM WITH POLE, MATERIAL Q235, THICKNESS 8MM , DIA 330MM BOTTOM, 280MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 802,500.00 |
| B0-907 | 7M DOUBLE ARM WITH POLE, MATERIAL Q235, THICKNESS 8MM ,DIA 330MM BOTTOM, 280MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 848,700.00 |
| B0-908 | 9M DOUBLE ARM WITH POLE, MATERIAL Q235, THICKNESS 8MM ,DIA 330MM BOTTOM, 280MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 963,500.00 |
| B0-909 | 12M DOUBLE ARM WITH POLE, MATERIAL Q235, THICKNESS 8MM ,DIA 330MM BOTTOM, 280MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 1,088,500.00 |
| B0-910 | 7M ARM WITH ROTATABLE ARM, MATERIAL Q235, THICKNESS 8MM, DIA 320MM BOTTOM, 219MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, AND THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 665,500.00 |
| B0-911 | 9M ARM WITH ROTATABLE ARM, MATERIAL Q235, THICKNESS 8MM ,DIA 230MM BOTTOM, 219MM TOP, OCTAGONAL CROSS SHAPE, HOT DIPPED GALVANIZED AFTER MANUFACTURED, THEN SPRAY PLASTIC WHITE COLOR, 6.3M POLE HEIGHT | NOS | 826,500.00 |
| B0-912 | 3 CORE ARMOURED CABLE 3NOSX1.5MM2 (CU/PVC/SWA/PVC) | METER | 326.00 |
| B0-913 | 4 CORE ARMOURED CABLE 4NOSX1.5MM2 (CU/PVC/SWA/PVC) | METER | 380.00 |
| B0-914 | 24/0.20 3 CORE FLEXIBLE CABLE (CU/PVC/PVC/FLEXIBLE) | METER | 115.00 |
| B0-915 | 24/0.20 4 CORE FLEXIBLE CABLE (CU/PVC/PVC/FLEXIBLE) | METER | 150.00 |
| B0-916 | SLT FIBER CABLE 4 CORE | NOS | 8,300.00 |
| B0-917 | 3 ASPECT SIGNAL HEAD 300MM DIA (LED DOUBLE COBWEB LENCE) WITH BRACKETS (IP 55 INCLUDING PLASTIC HOUSING) | NOS | 107,400.00 |
| B0-918 | 2 ASPECT SIGNAL HEAD 300MM DIA (LED) WITH RED & GREEN 230VAC WITH BRACKETS (IP 55 INCLUDING PLASTIC HOUSING) | NOS | 135,400.00 |
| B0-919 | 2 ASPECT SIGNAL HEAD WITH COUNTDOWN 300MM DIA (LED) WITH RED & GREEN 230VAC WITH BRACKETS | NOS | 117,400.00 |
| B0-920 | SINGAL ASPECT SIGNAL HEAD 300MM DIA (LED DOUBLE COBWEB LENSE) 230VAC WITH BRACKETS (IP 55 INCLUDING PLASTIC HOUSING) | NOS | 35,800.00 |
| B0-921 | COUNTDOWN RED AND GREEN 400MM DIA, 2DIGIT, LED, 230V INCLUDING BRACKETS, NUT AND BOLTS | NOS | 88,000.00 |
| B0-922 | COUNTDOWN RED 400MM DIA, 2 DIGIT, LED, 230V INCLUDING BRACKETS, NUT AND BOLTS | NOS | 88,000.00 |
| B0-923 | COUNTDOWN RED 400MM DIA, 3 DIGIT, LED, 230V INCLUDING BRACKETS, NUT AND BOLTS | NOS | 88,000.00 |
| B0-924 | LED PATHWAY LIGHTS (30W, 230VAC) | NOS | 25,107.00 |
| B0-925 | SIGNAL CONTROLLER INCLUDING SSR, SURGE ARRESTERS FOR JUNCTION (SIZE 500MM X 350MM X1200MM AND POWDER COATING, CONSIST WITH SIEMENS PLC + OUTPUT MODULE WITH SSR, 230VAC POWER, DC/RELAY, 1/0:14/10 INCLUDING CLOCK MODULE) | NOS | 795,200.00 |
| B0-926 | SIGNAL CONTROLLER INCLUDING SSR, SURGE ARRESTERS FOR PELICAN CROSSING (SIZE 500MM X 350MM X1200MM AND POWDER COATING, CONSIST WITH SIEMENS PLC + OUTPUT MODULE WITH SSR, 230VAC POWER, DC/RELAY, 1/0:14/10 INCLUDING CLOCK MODULE) | NOS | 497,000.00 |
| B0-927 | SIGNAL CONTROLLER INCLUDING SSR, SURGE ARRESTERS FOR FOR MULTIPLE COMBINED JUNCTIONS (SIZE 500MM X 350MM X1200MM AND POWDER COATING, CONSIST WITH SIEMENS PLC + OUTPUT MODULE WITH SSR, 230VAC POWER, DC/RELAY, 1/0:14/10 INCLUDING CLOCK MODULE) | NOS | 825,000.00 |
| B0-928 | PUSH BUTTON BOX WITH WAIT INDICATOR(320MM X 200MM DIE CAST ALUMINUM HOUSING WITH PRINTED PERSPEX TRANSPARENT SHEET, MACHANICLE PUSH BUTTON AND 24VDC LED WAIT INDICATOR, 24VDC SWITCHED) | NOS | 21,250.00 |
| B0-929 | PEDESTRIAN ILLUMINATION LIGHT BOX (POWDER COATED BOX WITH FRONT COVER MADE OF PRINTED TRANSPARENT PERSPECT BLUE COLOUR 750MM X 750MM X 130MM AND 230Vac TUBE LIGHTS) | NOS | 40,750.00 |
| B0-930 | ARROW SIGN BOARD 3M STICKER IN CLADDING SHEET WHITE AND GREEN | NOS | 5,950.00 |
| B0-931 | TARGET BOARD FOR 300MM 3 ASPECT SIGNAL HEAD (3MM, SS NUT & BOLT) | NOS | 3,715.00 |
| B0-932 | TARGET BOARD FOR 300MM 2 ASPECT SIGNAL HEAD (3MM, SS NUT & BOLT) | NOS | 3,590.00 |
| B0-933 | TARGET BOARD FOR 300MM SINGLE (1A) ASPECT SIGNAL HEAD (3MM, SS NUT & BOLT) | NOS | 2,800.00 |
| B0-165 | MOUNTING BRACKET | NOS | 1,800.00 |
| B0-934 | SOUND SYSTEM FOR BLIND PEDESTRIANS (MAX WORK POWER <18W, VOICE PROMPT RATE = 70±5 TIMES/MIN (RED), 700±5 TIMES/MIN (GREEN), AC 85V-AC230V) | NOS | 44,200.00 |
| B0-935 | SAFETY COVER FOR POLE FOOTING (FIBER MATERIAL) | NOS | 14,900.00 |
| B0-936 | COIL LOOP SYSTEM WITH RELAYS | NOS | 125,000.00 |
| B0-937 | SURGE ARRESTERS 230V | NOS | 23,000.00 |

H.S.R. - SCHEDULE OF INPUTS FOR THE YEAR 2022
MANNAR DISTRICT

| CODE | | UNIT | PRICE(RS.) |
|-------------|--|-------------|-------------------|
| B0-938 | POWER SUPPLY UNIT (12VDC, 4A) | NOS | 9,750.00 |
| B0-939 | POWER SUPPLY UNIT (24VDC, 4A) | NOS | 14,000.00 |
| B0-940 | CONTROL PANEL (FIBER HOUSING, IP64) | NOS | 127,000.00 |
| B0-941 | CCTV CAMERA FOR DETECTING PEDESTRIANS (24VAC - 230VAC, BLUETOOTH FACILITY, IP 65, MIN. AMBIENT LIGHTING 10 LUX, 180MA @ 24VAC, RELAY TYPE DIRECT OUTPUT, 3M TO 2M DETECTION ZONE) | NOS | 400,000.00 |

STRUCTURAL STEEL ITEMS EXCLUDING TRANSPORT AND VAT

NOMINAL SIZE (mmxmmxmm)

| H IRON | | | |
|---------------------------------|-------------------|-------|-----------|
| B0-1001 | 100x100x6-8 | METER | 6,183.33 |
| B0-1002 | 125x125x6.5-9 | METER | 8,683.33 |
| B0-1003 | 150x75x5-7 | METER | 4,841.67 |
| B0-1004 | 150x100x6-9 | METER | 7,733.33 |
| B0-1005 | 150x150x6.5-9 | METER | 11,300.00 |
| B0-1006 | 200x100x5.5-8 | METER | 9,433.33 |
| B0-1007 | 250x150x6.10-8.60 | METER | 11,258.33 |
| B0-1008 | 200x200x8-12 | METER | 18,050.00 |
| B0-1009 | 250x125x6-9 | METER | 10,150.00 |
| B0-1010 | 250x150x6.10-8.60 | METER | 11,516.67 |
| B0-1011 | 250x250x9-14 | METER | 26,666.67 |
| B0-1012 | 300x150x6.5-9 | METER | 12,597.92 |
| GALVANIZED IRON BOX BARS | | | |
| B0-1021 | 12x12x1.2 | METER | 190.91 |
| B0-1022 | 18x18x2 | METER | 409.09 |
| B0-1023 | 25x25x2 | METER | 536.36 |
| B0-1024 | 32x32x2 | METER | 654.55 |
| B0-1025 | 36x42x1.4 | METER | 472.73 |
| B0-1026 | 36x36x2 | METER | 831.82 |
| B0-1027 | 50x25x2 | METER | 836.36 |
| B0-1028 | 50x50x2 | METER | 1,136.36 |
| B0-1029 | 75x25x2 | METER | 1,154.55 |
| B0-1030 | 75x75x2 | METER | 1,709.09 |
| GALVANIZED IRON C PURLIN | | | |
| B0-1041 | 100x50x2 | METER | 1,250.00 |

* * *

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT (RS.) ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|--------------|---|--------------|--------------------------|--------------------------|--------------------------|
| | SECTION I ===== | | | | |
| | TRANSPORT ----- | | | | |
| | * SEE SECTION 23 OF GENERAL NOTES FOR SELECTION OF MODE OF TRANSPORT | | | | |
| T1-001 | TRANSPORT OF SOILS 25M TO 100M BY ANY MEANS (INCL. LOADING AND UNLOADING): | CU.M | 521.45 | 508.75 | 12.70 |
| T1-002 | TRANSPORT 100M TO 0.5 KM BY ANY MEANS (EXCLUDING LOADING): | CU.M | 271.65 | 0.00 | 271.65 |
| T1-003 | TRANSPORT 0.5 KM TO 1.0 KM BY ANY MEANS (EXCLUDING LOADING): | CU.M | 291.05 | 0.00 | 291.05 |
| T1-003A | TRANSPORT OF EACH SUBSEQUENT 1.0 KM FROM 1.0 - 8.0 KM. BY ANY MEANS : (EXCLUDING LOADING) | CU.M | 45.30 | 0.00 | 45.30 |
| T1-003B | TRANSPORT OF EACH SUBSEQUENT 1.0 KM BEYOND 8 KM. BY ANY MEANS: (EXCLUDING LOADING) | CU.M | 30.40 | 0.00 | 30.40 |
| | * T1-003A, T1-003B: 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 METRES): | CU.M | 97.70 | 0.00 | 97.70 |
| T1-007 | TRANSPORT OF MATERIAL IN BULK EXCLUDING LOADING (FROM 3 KM UPTO 10 KILO METRES DISTANCE): | CU.M/KM | 32.55 | 0.00 | 32.55 |
| T1-007A | TRANSPORT OF MATERIAL IN BULK EXCLUDING LOADING (FOR DISTANCE MORE THAN 10 KILO METRES): | CU.M/KM | 28.85 | 0.00 | 28.85 |
| | * T1-008 : CODE AMENDED AS T1-007A | | | | |
| T1-009 | TRANSPORT OF PREMIX IN BULK, EXCLUDING LOADING OTHER THAN AT MIXING PLANT | M.TON/KM | 20.75 | 0.00 | 20.75 |
| T1-010 | TRANSPORT OF BARRELS OF BITUMEN FOR FIRST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING): | NOS. | 42.95 | 4.74 | 38.21 |
| T1-010A | TRANSPORT OF BARRELS OF BITUMEN FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM. (EXCLUDING LOADING AND UNLOADING): | NOS. | 10.70 | 4.74 | 5.96 |
| T1-010B | TRANSPORT OF BARRELS OF BITUMEN FOR EACH SUBSEQUENT 1.0 KM BEYOND 8 KM. (EXCLUDING LOADING AND UNLOADING): | NOS. | 7.45 | 3.47 | 3.98 |
| | * T1-011 & T1-012 CODES CHANGED | | | | |
| T1-013 | LOADING BARRELS OF BITUMEN INCLUSIVE OF ROLLING UPTO 25M : | NOS. | 32.40 | 32.40 | 0.00 |
| T1-014 | UNLOADING BARRELS OF BITUMEN INCLUSIVE OF ROLLING AND STACKING : | NOS. | 13.90 | 13.90 | 0.00 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT (RS.) ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|--|---|--------------|--------------------------|--------------------------|--------------------------|
| T1-015 | TRANSPORT OF HUME PIPES 152MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 32.45 | 4.63 | 27.82 |
| 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 UNLOADING) : | L.M | 8.95 | 4.63 | 4.32 |
| T1-015B | TRANSPORT OF HUME PIPES 152MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 6.45 | 3.54 | 2.91 |
| * T1-016 & T1-017 CODES CHANGED | | | | | |
| T1-018 | TRANSPORT OF HUME PIPES 229 MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 36.50 | 5.21 | 31.29 |
| T1-018A | TRANSPORT OF HUME PIPES 229 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 10.10 | 5.21 | 4.89 |
| T1-018B | TRANSPORT OF HUME PIPES 229 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 7.25 | 3.98 | 3.27 |
| * T1-019 & T1-020 : CODES CHANGED | | | | | |
| T1-021 | TRANSPORT OF HUME PIPES 305 MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 48.70 | 6.95 | 41.75 |
| T1-021A | TRANSPORT OF HUME PIPES 305 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 13.45 | 6.95 | 6.50 |
| T1-021B | TRANSPORT OF HUME PIPES 305 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 9.65 | 5.31 | 4.34 |
| * T1-022 & T1-023: CODES CHANGED | | | | | |
| T1-024 | TRANSPORT OF HUME PIPES 457 MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 73.05 | 10.43 | 62.62 |
| T1-024A | TRANSPORT OF HUME PIPES 457 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 20.15 | 10.43 | 9.72 |
| T1-024B | TRANSPORT OF HUME PIPES 457 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 14.50 | 7.96 | 6.54 |
| * T1-025 & T1-026: CODES CHANGED | | | | | |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT (RS.) ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|---|--|--------------|--------------------------|--------------------------|--------------------------|
| T1-027 | TRANSPORT OF HUME PIPES 610 MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 97.40 | 13.90 | 83.50 |
| T1-027A | TRANSPORT OF HUME PIPES 610 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 26.90 | 13.90 | 13.00 |
| T1-027B | TRANSPORT OF HUME PIPES 610 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 19.35 | 10.61 | 8.74 |
| * T1-028 & T1-029: CODES CHANGED | | | | | |
| T1-030 | TRANSPORT OF HUME PIPES 915 MM DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 146.10 | 20.85 | 125.25 |
| T1-030A | TRANSPORT OF HUME PIPES 915 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 40.35 | 20.85 | 19.50 |
| T1-030B | TRANSPORT OF HUME PIPES 915 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 29.00 | 15.92 | 13.08 |
| * T1-031 & T1-032: CODES CHANGED | | | | | |
| T1-033 | TRANSPORT OF HUME PIPES 1220 MM DIA. DIA. FOR 1ST 1.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 333.90 | 83.40 | 250.50 |
| T1-033A | TRANSPORT OF HUME PIPES 1220 MM DIA. FOR EACH SUBSEQUENT 1.0 KM, FROM 1.0 - 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 122.35 | 83.40 | 38.95 |
| T1-033B | TRANSPORT OF HUME PIPES 1220 MM DIA. FOR EACH SUBSEQUENT 1.0 KM BEYOND 8.0 KM OF TRANSPORT (EXCLUDING LOADING AND UNLOADING) : | L.M | 89.10 | 62.93 | 26.17 |
| * T1-034 & T1-035: CODES CHANGED | | | | | |
| T1-036 | LOADING AND UNLOADING 152 MM DIA. 2.44 M LONG HUME PIPES : | NOS | 99.90 | 99.90 | 0.00 |
| T1-037 | LOADING AND UNLOADING 229 MM DIA. 2.44 M LONG HUME PIPES : | NOS | 116.55 | 116.55 | 0.00 |
| T1-038 | LOADING AND UNLOADING 305 MM DIA. 2.44 M LONG HUME PIPES : | NOS | 231.25 | 231.25 | 0.00 |
| T1-039 | LOADING AND UNLOADING 457 MM DIA. 2.44 M LONG HUME PIPES : | NOS | 384.80 | 384.80 | 0.00 |
| T1-040 | LOADING AND UNLOADING 610 MM DIA. 2.44 M LONG HUME PIPES : | NOS | 501.35 | 501.35 | 0.00 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT (RS.) ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|--------------|--|--------------|--------------------------|--------------------------|--------------------------|
| T1-041 | LOADING AND UNLOADING 915 MM DIA. 1.22 M LONG HUME PIPES : | NOS | 925.00 | 925.00 | 0.00 |
| T1-042 | LOADING AND UNLOADING 1220 MM DIA. 1.22 M LONG HUME PIPES : | NOS | 1,850.00 | 1850.00 | 0.00 |
| T1-043 | TRANSPORT OF PRECAST KERB STONES (ALL TYPES) FOR ROAD WORKS, INCLUDING LOADING AND UNLOADING : | L.M/KM | 1.60 | 0.19 | 1.41 |
| T1-044 | TRANSPORT OF PRECAST KERB STONES FOR BRIDGE WORKS, INCLUDING LOADING AND UNLOADING : | L.M/KM | 2.45 | 0.41 | 2.04 |
| T1-045 | TRANSPORT OF PRECAST CONCRETE HAND RAILS, UP-RIGHTS AND JOINTS FOR BRIDGE WORKS, INCLUDING LOADING AND UNLOADING : | L.M/KM | 3.65 | 0.49 | 3.16 |
| T1-046 | TRANSPORT OF PRECAST CONCRETE SLABS 450X450X50 MM FOR FOOT WALKS, INCLUDING LOADING AND UNLOADING : | SQ.M/KM | 4.35 | 0.56 | 3.80 |
| T1-047 | TRANSPORT OF PRECAST STANDARD BOUNDARY MARKERS, INCLUDING UNLOADING ONLY* : | NO./KM | 2.20 | 0.20 | 2.00 |
| | * SUPPLY RATE INCLUDE LOADING AT YARD. | | | | |
| T1-048 | TRANSPORT OF EMULSION RATE FOR 100 LITERS PER KILO METRE | 100L/KM | 3.75 | 0.00 | 3.75 |
| T1-049 | TRANSPORT OF GABION MESH 4 X 1 X1 M SIZE | NO./KM | 1.05 | 0.02 | 1.03 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--|---|--------------|------------------------|-------------------------|-------------------------|
| SECTION II ===== | | | | | |
| ROADWAY AND FOUNDATION / TRENCH EXCAVATION ----- | | | | | |
| (INCLUDING LOADING, UNLOADING AND TRANSPORTING WITHIN 25 METERS DISTANCE UNLESS OTHERWISE SPECIFIED) | | | | | |
| * NOTE FOR ROADWAY EXCAVATIONS INVOLVING MORE THAN 200 CU.M , MACHINE RATES SHOULD BE ADOPTED. ----- | | | | | |
| E1-001 | EXCAVATION IN LOOSE SOIL (DRY) [SSCM 301.2(IV)] : | CU.M | 701.10 | 653.71 | 47.39 |
| E1-002 | EXCAVATION IN LOOSE SOIL (WET) IN SLIPS [SSCM 301.3(0)] : | CU.M | 868.65 | 817.14 | 51.51 |
| E1-003 | EXCAVATION IN ORDINARY SOIL (CUTTING MEASUREMENT) [SSCM 301.2(V)] : | CU.M | 1,036.15 | 980.57 | 55.58 |
| E1-004 | EXCAVATION IN ORDINARY SOIL (VEHICLE MEASUREMENT) [SSCM 301.2(V)] : | CU.M | 932.55 | 882.51 | 50.04 |
| E1-005 | EXCAVATION IN MEDIUM SOIL (CUTTING MEASUREMENT) [SSCM 301.2(VI)] : | CU.M | 1,371.20 | 1,307.42 | 63.78 |
| E1-006 | EXCAVATION IN MEDIUM SOIL (VEHICLE MEASUREMENT) [SSCM 301.2(VI)] : | CU.M | 1,165.50 | 1,111.31 | 54.19 |
| E1-007 | EXCAVATION IN HARD SOIL (CUTTING MEASUREMENT) [SSCM 301.2(VII)] : | CU.M | 2,041.25 | 1,961.13 | 80.12 |
| E1-008 | EXCAVATION IN HARD SOIL (VEHICLE MEASUREMENT) [SSCM 301.2(VII)] : | CU.M | 1,735.05 | 1,666.96 | 68.09 |
| E1-009 | EXCAVATION IN UNCLASSIFIED SOIL (CUTTING MEASUREMENT) [SSCM 301.2(VII)] : | CU.M | 1,482.85 | 1,416.37 | 66.48 |
| NOTE: SEE CODE NOS. FROM E1-027 ON PAGE 13 FOR ROADWAY EXCAVATION USING MACHINERY | | | | | |
| E1-010 | EXCAVATION IN SOFT ROCK (CUTTING MEASUREMENT) [SSCM 301.2(VII)] : | CU.M | 2,208.75 | 2,124.56 | 84.19 |
| E1-010A | EXCAVATION IN MUD MARSHY MATERIAL (CUTTING MEASUREMENT) [SSCM 301.2(VII)] : | CU.M | 1,706.20 | 1,634.28 | 71.92 |
| E1-011 | EXCAVATION PIT/TRENCH FOR FOUNDATION IN ORDINARY SOIL NOT EXCEEDING 1.5 M. DEEP, INCLUDING LEVELLING AND RAMMING BOTTOM, EXCAVATED MATERIAL DEPOSITED AT SITE WITH IN 25 M OR AS DIRECTED. * (SHORING, DEWATERING IF NECESSARY SHALL BE PAID SEPERATELY) [SSCM 302.1-302.3] : | CU.M | 1,371.20 | 1,307.42 | 63.78 |
| * NOTE SEE GENERAL NOTES 24(2) FOR DETAILS REGARDING ADDITIONAL EXCAVATION REQUIRED FOR WORKING SPACE. | | | | | |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|--------------|---|--------------|------------------------|--------------------------|--------------------------|
| E1-012 | DITTO - MEDIUM SOIL, - DO - DO - : | CU.M | 1,706.20 | 1,634.28 | 71.92 |
| E1-013 | DITTO - HARD SOIL, - DO - DO - : | CU.M | 2,376.25 | 2,287.99 | 88.26 |
| E1-014 | DITTO - IN UNCLASSIFIED SOIL, - DO - DO - : | CU.M | 1,817.90 | 1,743.23 | 74.67 |
| E1-015 | DITTO - MUD/MARSHY MATERIAL, - DO - | DO CU.M | 2,041.25 | 1,961.13 | 80.12 |
| E1-016 | DELETED | | | | |
| E1-017 | DELETED | | | | |
| E1-018 | DELETED | | | | |
| E1-019 | EXCAVATING SOFT ROCK, NOT EXCEEDING 1.5 M DEPTH [SSCM 301.2(II)] : | CU.M | 2,711.30 | 2,614.84 | 96.46 |
| | * NOTE EXCAVATING ROCK FOR FOUNDATION TO BE PAID ON S.S.R. | | | | |
| E1-020 | DELETED | | | | |
| E1-021 | PILING AVAILABLE SOIL : | CU.M | 167.50 | 163.43 | 4.07 |
| E1-022 | LOADING AVAILABLE SOIL | CU.M | 221.10 | 215.72 | 5.38 |
| E1-023 | EXCAVATING ROCK, REQUIRING BLASTING, FOR ROADWAY AND AT QUARRY FOR BOULDERS (BANK MEASUREMENT - EXCLUDING DOZING AWAY) [SSCM 301.2(III) & 306.1 - 306.4] : | CU.M | 1,132.35 | 40.63 | 1,091.73 |
| E1-024 | BOULDERS SLEDGING, PILING, ETC.: | CU.M | 3,087.70 | 3,012.37 | 75.33 |
| E1-025 | ROCK REQUIRING BLASTING (BANK MEASUREMENT): | CU.M | 3,032.75 | 2,296.82 | 735.93 |
| E1-026 | ROCK REQUIRING BLASTING AND PILING (BANK MEASUREMENT) | CU.M | 4,028.80 | 3,268.55 | 760.25 |
| E1-027 | ROADWAY EXCAVATION IN UNCLASSIFIED SOIL USING MACHINERY EXCLUDING LOADING AND PILING. (CUTTING MEASUREMENT) | CU.M | 246.25 | 8.85 | 237.40 |
| E1-028 | LOADING MATERIAL BY MACHINERY IN ROADWAY EXCAVATIONS (CUTTING MEASUREMENT) | CU.M | 147.55 | 4.89 | 142.66 |
| E1-029 | TRIMMING / CAMBERING BY MOTOR GRADER (CUTTING MEASUREMENT) | CU.M | 56.20 | 1.78 | 54.42 |
| E1-029A | - DO - RATE PER 1 SQ.M | SQ.M | 11.25 | 0.36 | 10.89 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|---|--|--------------|------------------------|-------------------------|-------------------------|
| SECTION III ===== | | | | | |
| AGGREGATE/RUBBLE PILING INCLUDING LOADING ----- | | | | | |
| A1-001 | SLEDGING AVAILABLE ROCK 150-225 MM RUBBLE INCLUDING PILING & LOADING : | CU.M | 2,435.75 | 2,376.33 | 59.42 |
| A1-002 | BLASTING ETC. & PILING 150-225MM RUBBLE INCLUDING LOADING : | CU.M | 4,019.70 | 3,259.72 | 759.98 |
| A1-002A | BLASTING SLEDGING ETC. & PILING 150-225MM RUBBLE USING COMPRESSOR & HAND HELD DRILLS INCLUDING LOADING : | CU.M | 2,506.95 | 954.86 | 1,552.09 |
| A1-003 | BLASTING ETC. & PILING 100 MM AGGREGATE, INCLUDING LOADING : | CU.M | 1,590.11 | External Sources | |
| A1-004 | BLASTING ETC. & PILING 75 MM AGGREGATE INCLUDING LOADING : | CU.M | 1,413.43 | External Sources | |
| A1-005 | BLASTING ETC. & PILING 50 MM AGGREGATE INCLUDING LOADING : | CU.M | 1,643.11 | External Sources | |
| A1-006 | BLASTING ETC. & PILING 37.5 MM AGGREGATE INCLUDING LOADING :* | DELETED | | | |
| A1-007 | BLASTING ETC. & PILING 25 MM AGGREGATE INCLUDING LOADING :* | DELETED | | | |
| A1-008 | BLASTING ETC. & PILING 19 MM AGGREGATE INCLUDING LOADING : * | DELETED | | | |
| * NOTE | PRIOR APPROVAL OF THE P.DD. SHOULD BE OBTAINED FOR THE USE OF 19 MM, 25 MM AND 37.5 MM HAND BROKEN AGGREGATE. | | | | |
| A1-009 | 50 MM AGGREGATE, SINGLE SIZE, CRUSHER PRODUCTION INCLUDING PILING AND LOADING [SSCM404.1-406.1] : | CU.M | 2,300.00 | External Sources | |
| A1-010 | 37.5 MM AGGREGATE, SINGLE SIZE, CRUSHER PRODUCTION INCLUDING PILING AND LOADING [SSCM404.1-406.1] : | CU.M | 2,450.00 | External Sources | |
| A1-011 | 19 MM AGGREGATE, SINGLE SIZE CRUSHER PRODUCTION INCLUDING PILING AND LOADING [SSCM404.1-406.1] : | CU.M | 2,850.00 | External Sources | |
| A1-012 | 12.5 MM AGGREGATE, SINGLE SIZE CRUSHER PRODUCTION INCLUDING PILING AND LOADING FOR 1.0 CUBE : | CU.M | 2,550.00 | External Sources | |

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|--|--|--------------|------------------------|-------------------------|-------------------------|
| PLANT PRODUCED AGGREGATE FOR DENSE GRADED AGGREGATE BASE COURSE | | | | | |
| A1-013 | AGGREGATE 37.5 MM, DOWN GRADED (SSCM - TABLE 1701.5) INCLUDING PILING & LOADING : | CU.M | 2,397.35 | External Sources | |
| A1-014 | CRUSHER FINES 6.3 MM DOWN, INCLUDING PILING AND LOADING FOR 1.0 CUBE: | CU.M | 2,255.90 | External Sources | |
| A1-015 | AGGREGATE 19 MM FOR SEAL COAT TREATMENTS AS PER SSCM TABLE 1701-8 | CU.M | 2,296.80 | External Sources | |
| A1-016 | AGGREGATE 12.5 MM FOR SEAL COAT TREATMENTS AS PER SSCM TABLE 1701-8 | CU.M | 2,473.50 | External Sources | |
| A1-017 | BLENDED AGGREGATE FOR RECTIFICATION OVERLAY, WITH 37.5 MM SINGLE SIZE AGGREGATE AND 19 MM & 12.5 MM CRUSHED AGGREGATE MIXED IN THE VOLUME RATIO OF 7:2:1, INCLUDING MIXING, LOADING. (PILING TO PLAY SEPARATELY) :* * PRIOR APPROVAL OF THE P.DD SHOULD BE OBTAINED FOR THE USE OF BLENDED AGGREGATE IN RECTIFICATION OVERLAY CONSTRUCTION WORK. | CU.M | 2,690.85 | 0.00 | 2,690.85 |
| A1-018 | PILING AVAILABLE AGGREGATE: | CU.M | 176.55 | 172.26 | 4.29 |
| A1-019 | PILING AVAILABLE RUBBLE: | CU.M | 353.15 | 344.52 | 8.63 |
| A1-020 | LOADING AVAILABLE RUBBLE/AGGREGATE: | CU.M | 335.05 | 326.86 | 8.19 |

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| CODE | DESCRIPTION OF ITEM | UNIT | AMOUNT RS. | LABOUR INPUT | OTHER INPUTS |
|---|--|------|---------------|-----------------|-----------------|
| SECTION IV ===== | | | | | |
| APPROVED EARTH FILLING & COMPACTION ----- | | | | | |
| * NOTE | RATES FOR BORROW EARTH SUPPLY GIVEN UNDER ITEM CODES EW1-001 & EW1-011 IN THIS SCHEDULE IS BASED ON MANUAL EXCAVATION AND INTENDED FOR SMALL WORKS INVOLVING LESS THAN 200 CU.M . IN THE CASE OF BORROW EARTH SUPPLY EXCEEDS 200 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 PROCURAMENT PROCEDURE GIVEN IN " GENERAL NOTES ", SHALL BE FOLLOWED. | | | | |
| EW1-001 | APPROVED SOIL (TYPE I & II MATERIALS) EXCAVATION FOR SUB BASES & SHOULDER CONSTRUCTION INCLUDING LOADING AND PILING (LOOSE VOLUME) [SSCM 601.1 TO 601.4] : | CU.M | 1,971.70 | 1,882.69 | 89.01 |
| EW1-002 | SPREADING PILED GARVEL (LOOSE VOLUME): | CU.M | 235.50 | 204.19 | 31.31 |
| EW1-003 | * APPROVED SOIL SPREAD & ROLLED INCLUDING HIRE CHARGES, FUEL & WATERING (LOOSE VOLUME) [SSCM 601.1 TO 4] : | CU.M | 525.15 | 204.19 | 320.96 |
| | * SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME. | | | | |
| | * NOTE : THE ITEMS EW1-003 OR EW1-004 ON MANUAL SPREADING SHOULD BE ADOPTED ON APPROVAL BY PD / CE FOR SMALL WORKS ONLY. WHEN MACHINERY IS USED FOR SPREADING AND COMPACTION, EW1-003A SHALL BE ADOPTED. | | | | |
| EW1-003A | APPROVED SOIL SPREAD & ROLLED USING MACHINERY INCLUDING MOTOR GRADER & ROLLER HIRE CHARGES, FUEL & WATERING (LOOSE VOLUME) [SSCM 601.1 TO 4] : | CU.M | 293.60 | 0.00 | 293.60 |
| | * SEE GENERAL NOTES SECTION 26.4 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 HIRE CHARGES, FUEL & WATERING (LOOSE VOLUME) [SSCM 601.1 TO 4] : | CU.M | 633.65 | 204.19 | 429.46 |
| | * SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME. | | | | |
| EW1-005 | DELETED | | | | |
| EW1-006 | APPROVED SOIL SPREAD AND COMPACTED IN PLACES BEHIND ABUTMENTS AND STRUCTURES, SHOULDERS ABOVE SUB BASE LEVEL AND IN SERVICE LINE TRENCHES USING 1/2 - 1 TON VIBRATING ROLLER INCLUDING WATERING. (LOOSE VOLUME) : | CU.M | 591.40 | 264.29 | 327.11 |
| | * SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME. | | | | |

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|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| EW1-007 | APPROVED SOIL SPREAD AND COMPACTED USING MACHINE RAMMER IN NARROW PLACES. (LOOSE VOLUME) : | CU.M | 664.75 | 264.29 | 400.46 |
| EW1-008 | SPREADING, LEVELLING AND COMPACTING MANUALLY, USING STANDARD CAST IRON TAMPER OR EQUIVALENT AND FILLING IN 150-225 MM THICK LAYERS (LOOSE VOLUME) : | CU.M | 753.80 | 735.42 | 18.38 |
| EW1-009 | TRIMMING, LEVELLING AND COMPACTION OF ORIGINAL GROUND/SUBGRADE TO 100% STD. DENSITY. [SSCM 304.3(C)] : | SQ.M | 97.50 | 5.70 | 91.80 |
| EW1-010 | TRIMMING, LEVELLING AND COMPACTION OF ORIGINAL GROUND/SUBGRADE TO 95% STD. DENSITY. [SSCM 304.3(C)] : | SQ.M | 88.65 | 5.18 | 83.47 |
| EW1-011 | APPROVED SOIL EXCAVATION FOR EMBANKMENT FILLING INCLUDING LOADING AND PILING. (LOOSE VOLUME) [SSCM 601.1 TO 601.4] : | CU.M | 1,402.15 | 1,327.03 | 75.12 |
| EW1-012 | DELETED | | | | |
| EW1-013 | APPROVED SOIL(TYPE I & II MATERIALS) EXCAVATION USING MACHINERY FOR SUB BASES & SHOULDER CONSTRUCTION INCLUDING LOADING AND PILING. (LOOSE VOLUME) [SSCM 601.1 TO 604.4] | CU.M | 617.50 | 163.43 | 454.07 |
| EW1-014 | APPROVED SOIL(TYPE I & II MATERIALS) EXCAVATION USING MACHINERY FOR EMBANKMENT FILLING INCLUDING LOADING AND PILING. (LOOSE VOLUME) [SSCM 601.1 TO 604.4] | CU.M | 467.50 | 163.43 | 304.07 |
| EW1-015 | GRADING AND SPREADING BY MOTOR GRADER RATE PER CU.M (LOOSE) | SAY | 106.30 | 0.00 | 106.30 |

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HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| | SECTION V ===== | | | | |
| | RUBBLE PAVING ===== | | | | |
| | (RUBBLE TO BE PAID SEPARATELY) ----- | | | | |
| P1-001 | PITCHED PAVING 225 MM THICK: | SQ.M | 430.30 | 419.81 | 10.49 |
| P1-002 | PITCHED PAVING 150 MM THICK: | SQ.M | 322.75 | 314.85 | 7.90 |
| P1-003 | FLAT PAVING 225 MM THICK: | SQ.M | 286.15 | 279.17 | 6.98 |
| P1-004 | FLAT PAVING 150 MM THICK: | SQ.M | 215.15 | 209.90 | 5.25 |

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HSR - 2022
Engineering Division
Ministry of Highways

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--|---|--------------|------------------------|-------------------------|-------------------------|
| SECTION VI ===== | | | | | |
| AGGREGATE SPREADING & COMPACTION ----- | | | | | |
| COST OF WATERING TO BE DEDUCTED FROM RATE IF NOT CARRIED OUT UNDER THE RELEVANT ITEMS. | | | | | |
| NOTE: COST OF AGGREGATE SUPPLY AND TRANSPORT, NOT INCLUDED IN THE RATES FOR ITEMS: M1-001, M1-004,M1-007,M1-008 AND M1-009 | | | | | |
| M1-001 | SPREADING, WATERING & ROLLING 100 MM AGGREGATE INCLUDING HIRE CHARGES OF ROLLER. (LOOSE VOLUME) [SSCM 304.3(d),(e)]: | CU.M | 1,175.55 | 430.46 | 745.09 |
| M1-002 | BREAKING ROAD SURFACE TO 50 MM DEPTH BY HAND, SCREEN & REPLACE OLD AGGREGATE. : | SQ.M | 123.20 | 117.34 | 5.86 |
| M1-003 | SCARIFYING ROAD SURFACE TO 50 MM DEPTH BY MACHINERY, SCREEN, & REPLACE OLD AGGREGATE. : | SQ.M | 102.90 | 50.52 | 52.38 |
| M1 008A | 225X150MM RUBBLE FILLING FOR CHOCKING WITH AGGRGATE BASE COURSE FOR SOFT GROUND TREATMENT (INCLUDING LOADING, UNLOADING AND TRANSPORT OF MATRERIALS) | CU.M | 2,809.20 | 112.14 | 2,697.06 |
| M1-004 | SPREADING & COMPACTING 50-19 MM NEW AGGREGATE BY ROLLER INCLUDING WATERING HIRE, ETC.(LOOSE VOLUME)[SSCM 403.3(c)]: | CU.M | 1,726.15 | 822.40 | 903.75 |
| M1-005 | BREAKING 50 MM ADDITIONAL DEPTH BY HAND SCREENING & REPLACING OLD AGGREGATE. : | SQ.M | 73.70 | 69.07 | 4.63 |
| M1-006 | SCARIFYING 50 MM ADDITIONAL DEPTH WITH MACHINERY, SCREENING & REPLACING OLD AGGREGATE. : | SQ.M | 84.35 | 32.41 | 51.94 |
| M1-007 | SPREADING & COMPACTING 50-19 MM AGGREGATE IN EDGE CORRECTION USING ROLLER INCLUDING HIRE, ETC.(LOOSE VOLUME)[SSCM 1103.3]: | CU.M | 2,271.15 | 565.72 | 1,705.43 |
| M1-008 | SPREADING & COMPACTING 50-19 MM AGGREGATE IN STRIP CORRECTION USING ROLLER INCLUDING HIRE, ETC.(LOOSE VOLUME)[SSCM 1103.3]: | CU.M | 1,818.25 | 565.72 | 1,252.53 |
| M1-009 | SPREADING & COMPACTING 50-19 MM AGGREGATE BY D.ROLLER AFTER APPLYING TACK COAT IN OVERLAY. (LOOSE VOLUME)(TACK COAT PAID SEPARATELY) : | CU.M | 1,634.20 | 565.72 | 1,068.48 |
| 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 | 5,598.60 | 1,032.35 | 4,566.25 |
| 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)[SSCM 404.1]: | CU.M | 5,358.30 | 1,032.35 | 4,325.95 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| M1-012 | DELETED | | | | |
| 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)[SSCM 405.1]: | CU.M * | 2,921.17 | 0.00 | 2,921.17 |
| | * FOR THE RATE ON COMPACTED VOLUME, INCREASE THE 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] SPREADING, WATERING AND COMPACTING GRADED 37.5 MM AGGREGATE TO FORM A DENSE AGGREGATE BASE IN STRIPS OF AVERAGE WIDTH NOT EXCEEDING 1.2 M FOR ROAD WIDENING EXCLUDING TRANSPORT OF AGGREGATES (LOOSE VOLUME)[SSCM 405.1]: | CU.M * | 4,193.35 | 590.31 | 3,603.04 |
| | * FOR THE RATE ON COMPACTED VOLUME, INCREASE THE LOOSE VOLUME RATE BY 42%. IF MEASUREMENT IS ON END PRODUCT, PILING COST OF AGGREGATE AS PER A1-018 SHALL BE DEDUCTED. | | | | |
| | ** NOTE : THIS 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 | SPREADING WATERING AND COMPACTING GRADED 37.5 MM AGGREGATE IN STRIPS, AVERAGE WIDTH NOT EXCEEDING 1.2 METERS TO FORM A DENSE AGGREGATE BASE USING MACHINERY INCLUDING MOTOR GRADER & ROLLER HIRE CHARGES (TRANSPORT OF AGGREGATES TO BE PAID SEPARATELY) (LOOSE VOLUME)[SSCM 405.1]: | CU.M * | 3,038.90 | 57.50 | 2,981.40 |
| | * FOR THE RATE ON COMPACTED VOLUME, INCREASE THE LOOSE VOLUME RATE BY 42%. IF MEASUREMENT IS ON END PRODUCT, PILING COST OF AGGREGATE AS PER A1-018 SHALL BE DEDUCTED. | | | | |

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HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ----- | OTHER INPUTS ----- |
|---|--|--------------|------------------------|--------------------------|--------------------------|
| SECTION VII ===== | | | | | |
| ROAD SURFACE TREATMENT ----- | | | | | |
| (SAND TRANSPORT UP TO 16 KM INCLUDED IN THE RATES. TRANSPORT OF BITUMEN EMULSION / BITUMEN TO BE PAID SEPARATELY.) ----- | | | | | |
| S1-001 | BITUMEN(80/100) SURFACING FIRST COAT USING 2 LTR/SQ.M INCLUDING BLINDING WITH SAND AT THE RATE OF 125 SQ.M/CU.M [SSCM 503.1] : | SQ.M | 372.40 | 49.66 | 322.74 |
| S1-002 | BITUMEN(80/100) SURFACING FIRST COAT, USING 2 LTR/SQ.M, INCLUDING BLINDING WITH GRAVEL WHERE SAND IS NOT AVAILABLE WITHIN 16 KM. : | SQ.M | 361.05 | 49.66 | 311.39 |
| S1-003 | DOUBLE BITUMENOUS SURFACE TREATMENT WITH HOT BITUMEN (MANUAL) INCLUDING INTERNAL TRANSPORT (BINDER AND AGGREGATE PAID SEPARATELY) [SSCM 505.b1 - 505.b5 & TABLE 505-b1]: | SQ.M | 284.85 | 78.58 | 206.27 |
| S1-004 | SINGLE BITUMENOUS SURFACE TREATMENT WITH HOT BITUMEN (MANUAL) INCLUDING INTERNAL TRANSPORT (BINDER AND AGGREGATE PAID SEPARATELY) [SSCM 505.b1 - 505.b5 & TABLE 505-b1]: | SQ.M | 148.55 | 44.35 | 104.20 |
| S1-005 | DOUBLE BITUMENOUS SURFACE TREATMENT WITH EMULSION(CRS-2)(MANUAL) INCLUDING INTERNAL TRANSPORT (BINDER AND AGGREGATE PAID SEPARATELY): | SQ.M | 281.45 | 78.58 | 202.87 |
| S1-006 | SINGLE BITUMENOUS SURFACE TREATMENT WITH EMULSION(CRS-2)(MANUAL) INCLUDING INTERNAL TRANSPORT (BINDER AND AGGREGATE PAID SEPARATELY): | SQ.M | 145.90 | 44.35 | 101.55 |
| S1-007 | BITUMEN(80/100) SURFACING SUBSEQUENT COAT USING 0.75 LTR/SQ.M INCLUDING BLINDING WITH SAND @ 125 SQ.M/CU.M [SSCM 503.1 (b)] : | SQ.M | 174.25 | 31.32 | 142.93 |
| S1-008 | BITUMEN(80/100) SURFACING 1ST/SUBSEQUENT COAT USING 1.0 LTR/SQ.M INCLUDING BLINDING AT THE RATE OF 125 SQ.M/CU.M (NEW WORK)[SSCM 503.1(b)] : | SQ.M | 210.00 | 31.32 | 178.68 |
| S1-009 | BITUMEN(80/100) SURFACING 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)]: | SQ.M | 163.00 | 31.32 | 131.68 |
| S1-010 | BITUMEN(80/100) SURFACING 1ST/SUBSEQUENT COAT USING 1 LTR/SQ.M INCLUDING BLINDING WITH GRAVEL FREE OF CLAY WHERE SAND IS NOT AVAILABLE WITHIN 16 KM (NEW WORK) [SSCM 503.3(c)] : | SQ.M | 198.75 | 31.32 | 167.43 |
| S1-011 | BITUMEN EMULSION(CRS-1) SURFACE TREATMENT 1ST COAT WITH 3.5 LTR/SQ.M INCLUDING BLINDING WITH SAND, @ 125 SQ.M/CU.M (MANUAL): | SQ.M | 456.45 | 28.70 | 427.75 |

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| S1-012 | BITUMEN EMULSION(CRS-1) SURFACE TREATMENT 1ST COAT WITH 3.5 LTR/SQ.M (USING TROLLEY, EMULSION), INCLUDING BLINDING WITH SAND, @ 125 SQ.M/CU.M : | SQ.M | 440.80 | 11.92 | 428.88 |
| S1-013 | BITUMEN EMULSION(CRS-1) SURFACE TREATMENT SUBSEQUENT COAT USING 0.75 LTR/SQ.M, INCLUDING BLINDING WITH SAND @ 125 SQ.M/CU.M (MANUAL) : | SQ.M | 131.10 | 12.97 | 118.13 |
| S1-014 | BITUMEN EMULSION(CRS-1) SURFACE TREATMENT SUBSEQUENT COAT WITH 0.75 LTR/SQ.M (USING TROLLEY, EMULSION), INCLUDING BLINDING WITH SAND @ 125 SQ.M PER CU.M : | SQ.M | 125.50 | 5.99 | 119.51 |
| S1-015 | TACK COAT USING BITUMEN EMULSION(CSS-1) @ THE RATE OF 0.5 LTR/SQ.M INCLUSIVE OF BRUSHING, CLEANING ROAD SURFACE AND COST OF BITUMEN EMULSION (MANUAL) [SSCM 502.3]: | SQ.M | 73.45 | 16.46 | 56.99 |
| S1-016 | TACK COAT USING BITUMEN EMULSION(CSS-1) @ THE RATE OF 0.5 LTR/SQ.M INCLUSIVE OF BRUSHING, CLEANING ROAD SURFACE AND COST OF BITUMEN EMULSION (MANUAL) [SSCM 502.3]: | LITRE | 146.90 | 32.93 | 113.97 |
| S1-017 | TACK COAT USING BITUMEN EMULSION(CSS-1) @ THE RATE OF 0.75 LTR/SQ.M INCLUSIVE OF BRUSHING, CLEANING ROAD SURFACE AND COST OF BITUMEN EMULSION (MANUAL) [SSCM 502.1-503.3]: | SQ.M | 101.75 | 16.46 | 85.29 |
| S1-017A | TACK COAT USING BITUMEN EMULSION(CRS-1) @ THE RATE OF 0.5 LTR/SQ.M INCLUSIVE OF BRUSHING, CLEANING ROAD SURFACE AND COST OF BITUMEN EMULSION (MANUAL) [SSCM 502.1]: | SQ.M | 73.10 | 16.46 | 56.64 |
| S1-017B | TACK COAT USING BITUMEN EMULSION(CRS-1) @ THE RATE OF 0.75 LTR/SQ.M INCLUSIVE OF BRUSHING, CLEANING ROAD SURFACE AND COST OF BITUMEN EMULSION (MANUAL) [SSCM 502.1-503.1]: | SQ.M | 101.20 | 16.46 | 84.74 |
| S1-018 | TACK COAT WITH CUT BACK BITUMEN(MC 30) USING 0.5 LTR/SQ.M. INCLUDING BRUSHING AND CLEANING ROAD SURFACE (MANUAL): | SQ.M | 101.20 | 32.19 | 69.01 |
| S1-019 | DELETED | LITRE | - | - | - |
| S1-020 | TACK COAT WITH CUT BACK BITUMEN(80/100) USING 0.75 LTR/SQ.M INCLUDING BRUSHING AND CLEANING ROAD SURFACE (MANUAL)[SSCM 502.4] : | SQ.M | 134.80 | 32.19 | 102.61 |
| S1-021 | ROLLING OVER BLINDING MATERIAL SPREAD OVER SUBSEQUENT BITUMEN SURFACING USING DIESEL ROLLER (8-10 TONS) [SSCM 502.4]: | SQ.M | 15.80 | - | 15.80 |
| S1-022 | PRIME COAT WITH BITUMEN EMULSION(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 | 149.85 | 18.95 | 130.90 |
| S1-023 | PRIME COAT WITH BITUMEN EMULSION(CSS-1) USING 1 LTR/SQ.M WITHOUT BLINDING, BUT INCLUSIVE OF BRUSHING, CLEANING AND MOISTENING ROAD SURFACE : | SQ.M | 130.45 | 16.46 | 113.99 |
| S1-024 | PRIME COAT WITH CUT BACK BITUMEN(MC 30) 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 | 189.20 | 34.68 | 154.52 |

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| S1-025 | PRIME COAT WITH CUT BACK BITUMEN(MC 30) USING 1 LTR/SQ.M WITHOUT BLINDING BUT INCLUSIVE OF BRUSHING, CLEANING, AND MOISTENING ROAD SURFACE.: | SQ.M | 169.05 | 32.19 | 136.86 |
| S1-026 | SWEEPING OVER TARRERD SURFACE TO ARREST BLEEDING : | SQ.M | 5.20 | 4.97 | 0.23 |
| S1-027 | APPLICATION OF BITUMEN EMULSION FOR SURFACE TREATMENT USING CRS - 1 (USING PLANT) "RATE PER LITRE" | LITRE | 124.60 | 3.87 | 120.73 |
| S1-028 | BLINDING THE BITUMEN SURFACING WITH SAND AT THE RATE OF 125 SQ.M PER 1 CU.M USING MATERIAL FROM STOCK PILE: | SQ.M | 39.95 | 4.32 | 35.63 |
| S1-029 | SINGLE BITUMINOUS SURFACE TREATMENT WITH BITUMEN EMULSION(CRS-2) USING PLANT. (BINDER AND AGGREGATE PAID SEPARATELY) (RATE TO INCLUDE TRANSPORT COST OF AGGREGATE UP TO 16 KMS) [SSCM-505.3(d)]: | SQ.M | 84.00 | 10.19 | 73.81 |
| S1-030 | DOUBLE BITUMINOUS SURFACE TREATMENT WITH BITUMEN EMULSION(CRS-2) USING PLANT. (BINDER AND AGGREGATE PAID SEPARATELY) (RATE TO INCLUDE TRANSPORT COST OF AGGREGATE UP TO 16 KMS) [SSCM-505.3(e)]: | SQ.M | 173.20 | 20.37 | 152.83 |
| S1-030A | DELETED | | | | |
| S1-030B | DOUBLE BITUMINOUS SURFACE TREATMENT WITH HOT BITUMEN(80/100) USING 19 MM AND 9.5 MM SINGLE SIZE SELECTED AGGREGATES ON EXISTING BITUMINOUS SURFACES USING PLANT. RATE TO INCLUDE ALL LABOUR, MATERIAL, PLANT AND TRANSPORT COST OF AGGREGATE UP TO 16 KM. (TRANSPORT OF BINDER AND ADDITIONAL TRANSPORT OF AGGREGATE TO BE PAID SEPARATELY)[SSCM 505b.5(e)]: | SQ.M | 513.45 | 20.37 | 493.08 |
| NOTE: QUANTITIES OF AGGREGATES AND BINDER (PEN GRADE BITUMEN) FOR DBST [SSCM 505.5] | | | | | |
| | | AGGREGATE | BINDER | | |
| | | CU.M/100 M ² | LTR/SQ.M | | |
| | 1ST SEAL 19 MM AGGREGATE - BINDER PENGRADE BITUMEN | 1.3 - 1.7 | 0.65-0.85 | | |
| | 2ND SEAL 12.5 MM AGGREGATE - BINDER PENETRATION GRADE BITUMEN | 0.7-1.0 | 1.0-1.3 | | |
| | 1ST SEAL 12.5 MM AGGREGATE - BINDER PENGRADE BITUMEN | 1.0 - 1.3 | 0.5-0.7 | | |
| | 2ND SEAL 9.5 MM AGGREGATE - BINDER PENETRATION GRADE BITUMEN | 0.55-0.75 | 0.75-1.05 | | |

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| S1-031 | SUPPLY, LAY AND COMPACT ASPHALT CONCRETE (19 MM, 60/70 BINDER 4.7% **) - DENSE (PLANT MADE) IN WEARING SURFACE OF SMALL WORKS SUCH AS BRIDGE DECKING, REINSTATEMENT OF TRENCHES ETC. (TRANSPORT OF PREMIX TO BE PAID SEPARATELY.)[SSCM-506] | M.TON | 2,975.00 | 1,400.00 | 1,575.00 |
| | NOTE** (FOR BINDER CONTENTS SEE GENERAL NOTES - SECTION 29. 8 * AVERAGE 0.6270 CU.M OF AGGREGATE IS REQUIRED FOR 1.0 M.TON OF PREMIX. | | | | |
| S1-032 | SUPPLY, LAY AND COMPACT ASPHALT CONCRETE (37.5MM, 60/70 BINDER, 3.5% **) - BOUND BASE MATERIAL (PLANT MADE) IN SMALL WORKS SUCH AS BRIDGE DECKING, REINSTATEMENT OF TRENCHES ETC. (TRANSPORT OF PREMIX TO BE PAID SEPARATELY.)[SSCM-506] | M.TON | 2,975.00 | 1,400.00 | 1,575.00 |
| | NOTE** FOR BINDER CONTENTS SEE GENERAL NOTES - SECTION 29. 8 * AVERAGE 0.6270 CU.M OF AGGREGATE IS REQUIRED FOR 1.0 M.TON OF PREMIX. | | | | |
| S1-033 | SUPPLY, LAY AND COMPACT CUTBACK ASPHALT CONCRETE COLD MIX WITH MC30 (19 MM AGGREGATE, 15% CUT BACK 60/70 BINDER 5.5%**) DENSE (PLANT MADE) IN SMALL WORKS SUCH AS BRIDGE DECKING, REINSTATEMENT OF TRENCHES ETC. (TRANSPORT OF PREMIX TO BE PAID SEPARATELY.)[SSCM-507] | M.TON | 2,975.00 | 1,400.00 | 1,575.00 |
| | NOTE** (FOR BINDER CONTENTS SEE GENERAL NOTES - SECTION 29. 8 * AVERAGE 0.6270 CU.M OF AGGREGATE IS REQUIRED FOR 1.0 M.TON OF PREMIX. | | | | |
| S1-033A | LAY AND COMPACT IMULSIFIED ASPHALT CONCRETE COLD MIX WITH BITUMEN EMULSION CSS-1(6.67%** BY WGT OF AGG.) AND 19 MM AGGREGATE, DENSE (PLANT MADE) IN SMALL WORKS SUCH AS BRIDGE DECKING, REINSTATEMENT OF TRENCHES ETC. (SUPPLY AND TRANSPORT OF PREMIX(COLD MIX) TO BE PAID SEPARATELY.)[SSCM-507] | M.TON | 2,975.00 | 1,400.00 | 1,575.00 |
| | NOTE** (FOR BINDER CONTENTS SEE GENERAL NOTES - SECTION 29. 8 * AVERAGE 0.6270 CU.M OF AGGREGATE REQUIRED FOR 1.0 M.TON OF PREMIX. | | | | |
| S1-034 | LAY AND COMPACT ASPHALT CONCRETE USING PAVER.(COST OF SUPPLY AND TRANSPORT OF PREMIX TO BE PAID SEPARATELY.) : | M.TON | 1,453.85 | 350.53 | 1,103.33 |
| S1-034A | LAY AND COMPACT ASPHALT CONCRETE MANUALLY.(COST OF SUPPLY AND TRANSPORT OF PREMIX TO BE PAID SEPARATELY.) : | M.TON | 1,289.15 | 881.67 | 407.48 |
| S1-035 | SURFACING (SAND SEALING - MANUAL) USING BITUMEN EMULSION CRS-1, AT THE RATE OF 1 LTR/SQ.M INCLUDING PREPARING SURFACE, BLINDING WITH SAND AT THE RATE OF 4 CU.M/500 SQ.M AND PRESSING WITH IMPROVISED HAND ROLLERS : (PATCING POT HOLES IF NECESSARY & EXTERNAL TRANSPORT TO PAY SEPARATELY.) | SQ.M | 163.80 | 12.97 | 150.83 |
| S1-035A | PATCHING MINOR POT HOLES USING SAND, BITUMEN EMULSION MIX 1:8 WHERE NECESSARY, PRIOR TO SAND SEALING | SQ.M | 20.60 | 10.48 | 10.12 |

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| S1-036* | SAND SEALING WITH BITUMEN EMULSION CRS-1 AT THE RATE OF 1 LTR/SQ.M USING PLANT, INCLUDING BRUSHING, CLEANING BLINDING WITH SAND AT THE RATE OF 125 SQ.M/CU.M AND ROLLING WITH PNEUMATIC ROLLER & INTERNAL TRANSPORT [SSCM 504]: (PATCHING POT HOLES IF NECESSARY & EXTERNAL TRANSPORT TO PAY SEPARATELY.) | SQ.M | 183.45 | 9.75 | 173.70 |
| S1-036A* | CHIP SEALING WITH BITUMEN EMULSION CRS-1 AT THE RATE OF 1.25 LTR/SQ.M USING PLANT, INCLUDING BRUSHING, CLEANING BLINDING) (PATCHING POT HOLES IF NECESSARY & EXTERNAL TRANSPORT TO PAY SEPARATELY.) | SQ.M | 204.15 | 5.88 | 198.28 |
| S1-036B* | FOG SEALING WITH BITUMEN EMULSION CRS-1 AT THE RATE OF 1.5 LTR/SQ.M USING PLANT, INCLUDING BRUSHING, CLEANING BLINDING) (PATCHING POT HOLES IF NECESSARY & EXTERNAL TRANSPORT TO PAY SEPARATELY.) | SQ.M | 245.75 | 5.88 | 239.88 |
| S1-036C* | CRACK SEALING WITH BITUMEN EMULSION CSS-1 AT THE RATE OF 1.25 LTR/SQ.M USING PLANT, INCLUDING BRUSHING, CLEANING BLINDING) (PATCHING POT HOLES IF NECESSARY & EXTERNAL TRANSPORT TO PAY SEPARATELY.) | SQ.M | 214.60 | 5.88 | 208.73 |
| * NOTE : | THE ABOVE RATE IS APPLICABLE FOR PAYMENT ONLY IF CHIP SPREADER(SELF PROPELLED) AND PNEUMATIC ROLLER ARE USED FOR THE CONSTRUCTION. OTHERWISE APPROVED SSR SHOULD BE ADOPTED. | | | | |
| S1-037 | RECONSTRUCT BASE WITH PENETRATION MACADAM USING NOMINAL SIZE 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 | 191.60 | 93.79 | 97.81 |
| 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 75 MM, ON EXISTING PAVEMENTS. [SSCM 406] (COST OF BINDER, AND AGGREGATE INCLUDING TRANSPORT TO BE PAID SEPARATELY) : | SQ.M | 134.65 | 66.65 | 68.00 |
| S1-039 | CORRECTION OF CORRUGATIONS, DEPRESSIONS AND CAMBERING ROAD SURFACES USING ASPHALT CONCRETE COMPACTED BY VIBRATING ROLLER INCLUDING INTERNAL TRANSPORT. (APPLICATION OF TACK COAT AND SUPPLY OF ASPHALT CONCRETE TO BE PAID SEPARATELY) : | M.TON | 2,401.25 | 1,458.33 | 942.92 |
| S1-040* | SAND SEALING WITH BITUMEN EMULSION CRS-2 AT THE RATE OF 1.0 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 SHALL BE PAID SEPARATELY) | SQ.M | 186.85 | 8.09 | 178.76 |
| * NOTE : | THIS ITEM SHOULD BE USED ONLY FOR SAND SEALING ON ROAD SURFACE AFTER D.B.S.T. / S.B.S.T. WORK AND USE OF <u>PNEUMATIC ROLLER IS ESSENTIAL</u> . 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. | | | | |
| S1-041 | SLURRY SEALING TO A THICKNESS OF 6 MM, USING MACHINERY WITH EMULSION (USING CSS-1H) AS THE BINDER (TRANSPORT OF AGGREGATE TO PAY SEPARATELY: | SQ.M | 178.60 | 5.78 | 172.82 |
| S1-042 | SLURRY SEALING TO A THICKNESS OF 6 MM USING CONCRETE MIXTURE,MANUAL WITH EMULSION (USING CSS/ CSS-1H) AS THE BINDER (TRANSPORT OF AGGREGATE TO PAY SEPARATELY): | SQ.M | 551.50 | 130.00 | 421.50 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--|--|--------------|------------------------|-------------------------|-------------------------|
| SECTION VIII ===== | | | | | |
| ROAD SURFACE MAINTENANCE ----- | | | | | |
| INTERNAL TRANSPORT OF HOT BITUMEN UP TO 16 KM AND SAND TRANSPORT UP TO 16 KM INCLUDED IN THE RATES. ----- | | | | | |
| MN1-001 | PATCHING WITH HOT BITUMEN(60/70) USING 14 LITRES PER 1/2 KM (SSCM 1102.1 - 1102.3): | 1/2 KM | 3,914.80 | 1,252.93 | 2,661.87 |
| MN1-002 | PATCHING WITH HOT BITUMEN(60/70) USING 21 LTRS. PER 1/2 KM.: | 1/2 KM | 5,872.20 | 1,879.39 | 3,992.81 |
| MN1-003 | PATCHING WITH HOT BITUMEN(60/700) USING 28 LTRS. PER 1/2 KM.: | 1/2 KM | 7,829.60 | 2,505.86 | 5,323.74 |
| MN1-004 | PATCHING WITH HOT BITUMEN(60/70) USING 35 LTRS. PER 1/2 KM.: | 1/2 KM | 9,787.00 | 3,132.32 | 6,654.68 |
| MN1-005 | PATCHING WITH HOT BITUMEN(60/70) USING 42 LTRS. PER 1/2 KM.: | 1/2 KM | 11,744.45 | 3,758.79 | 7,985.66 |
| MN1-006 | PATCHING WITH HOT BITUMEN(60/70) USING 49 LTRS. PER 1/2 KM.: | 1/2 KM | 13,701.85 | 4,385.25 | 9,316.60 |
| MN1-007 | PATCHING WITH HOT BITUMEN(60/70) USING 56 LTRS. PER 1/2 KM.: | 1/2 KM | 15,659.25 | 5,011.72 | 10,647.53 |
| MN1-008 | EXTENSIVE PATCHING FOR EVERY ADDITIONAL 7 LTRS. HOT BITUMEN(60/70) | 1/2 KM | 1,957.40 | 626.46 | 1,330.94 |
| MN1-009 | PATCHING WITH BITUMEN EMULSION (CRS-1) USING 14 LTRS PER 1/2 KILO METRE: | 1/2 KM | 2,719.60 | 529.30 | 2,190.30 |
| MN1-010 | PATCHING WITH BITUMEN EMULSION CRS-1 USING 21 LTRS. PER 1/2 KM.: | 1/2 KM | 4,079.40 | 793.95 | 3,285.45 |
| MN1-011 | PATCHING WITH BITUMEN EMULSION CRS-1 USING 28 LTRS. PER 1/2 KM.: | 1/2 KM | 5,439.15 | 1,058.59 | 4,380.56 |
| MN1-012 | PATCHING WITH BITUMEN EMULSION CRS-1 USING 35 LTRS. PER 1/2 KM.: | 1/2 KM | 6,798.95 | 1,323.24 | 5,475.71 |
| MN1-013 | PATCHING WITH BITUMEN EMULSION CRS-1 USING 42 LTRS. PER 1/2 KM.: | 1/2 KM | 8,158.75 | 1,587.89 | 6,570.86 |
| MN1-014 | PATCHING WITH BITUMEN EMULSION CRS-1 USING 49 LTRS. PER 1/2 KM.: | 1/2 KM | 9,518.55 | 1,852.54 | 7,666.01 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|---------------------|--|---------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| MN1-015 | PATCHING WITH BITUMEN EMULSION, CRS-1 USING 56 LTRS. PER 1/2 KM.: | 1/2 KM | 10,878.35 | 2,117.19 | 8,761.16 |
| MN1-016 | EXTENSIVE PATCHING FOR EVERY ADDITIONAL 7 LTRS. BITUMEN EMULSION, CRS-1 : | 1/2 KM | 1,359.80 | 264.65 | 1,095.15 |
| MN1-017 | 50 MM - 19.5 MM AGGREGATE ROLLER PATCHING: | CU.M | 5,130.20 | 2,682.35 | 2,447.85 |
| MN1-018 | 50 MM - 19.5 MM AGGREGATE STAMPED PATCHING: | CU.M | 5,606.40 | 5,422.54 | 183.86 |

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|--|---|--------------|------------------------|-------------------------|-------------------------|
| SECTION IX ===== | | | | | |
| 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 | 931.05 | 852.47 | 78.58 |
| DR1-002 | CUTTING NEW SIDE DRAINS IN MED. SOIL :* | CU.M | 1,284.20 | 1197.00 | 87.20 |
| DR1-003 | CUTTING NEW SIDE DRAINS IN HARD SOIL :* | CU.M | 1,637.30 | 1541.52 | 95.78 |
| DR1-004 | CUTTING NEW SIDE DRAINS IN SOFT ROCK :* | CU.M | 1,813.90 | 1713.78 | 100.12 |
| DR1-005 | CUTTING NEW SIDE DRAINS IN UNCLASSIFIED SOIL :* | CU.M | 1,284.20 | 1197.00 | 87.20 |
| DR1-005A | CUTTING SIDE DRAINS OF STD. DIMENSIONS IN UNCLASSIFIED SOIL USING (BACK HOE J.C.B.) INCLUDING SHAPING, TRIMMING AND LEVELLING BOTTOM MANUALLY. | CU.M | 655.10 | 345.38 | 309.72 |
| DR1-006 | CUTTING NEW SIDE DRAINS IN ROCK :* | CU.M | 3,815.45 | 2884.28 | 931.17 |
| DR1-007 | TURFING (EXCLUDING ROYALTY, TRANSPORT AND WATERING AND MAINTENANCE) [SSCM 802.3a]: | SQ.M | 228.30 | 194.74 | 33.56 |
| DR1-008 | WATERING AND MAINTAINING TURF FOR THREE MONTHS INCLUDING TRANSPORT OF WATER : | SQ.M | 257.35 | 155.40 | 101.95 |
| DR1-009 | LEVELLING & TRIMMING EARTH :* | SQ.M | 26.80 | 25.00 | 1.80 |
| DR1-010 | CLEARING SILT ETC. FROM KERBS & CHANNELS (SSCM 12053) :* | L.M | 16.20 | 15.42 | 0.78 |
| DR1-011 | CUTTING SCUPPER DRAINS ON ANY SOIL OTHER THAN ROCK TO AN AVERAGE WIDTH OF .75 METRE, WITH PROPER GRADIENT AND AN AVERAGE DEPTH OF 100 MM (S.S.C.M. 1304.3) :* | L.M | 113.50 | 108.33 | 5.17 |
| DR1-012 | CLEANING AND DESILTING OF CULVERTS (SSCM 1303.3) :* | NO. | 330.70 | 308.33 | 22.37 |

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|---------------------|--|---------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| DR1-013 | CLEANING CHOKED CULVERTS (WITH HEAD ROOM > 1 M **) :* ** IF THE CULVERT HEAD ROOM IS LESS THAN 1 METRE, WORK SHALL BE CARRIED OUT ON DAY WORKS BASIS. | CU.M | 1,371.20 | 1307.42 | 63.78 |
| 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 100 M. :* | L.M | 40.10 | 38.56 | 1.54 |
| DR1-015 | CLEARING INLETS AND OUTLETS OF CULVERTS :* | NO. | 297.65 | 277.50 | 20.15 |

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|--|--|--------------|------------------------|-------------------------|-------------------------|
| SECTION X ===== | | | | | |
| BRIDGES, CULVERTS & RETAINING WALLS ETC. ----- | | | | | |
| ST1-001 | DEMOLISHING LEAN CONCRETE STRUCTURES INCLUDING STACKING OR LOADING. [SSCM 202.2]: | CU.M | 4,056.55 | 3,957.60 | 98.95 |
| ST1-002 | DEMOLISHING REINFORCED CONCRETE STRUCTURES INCLUDING STACKING OR LOADING.: | CU.M. | 4,726.60 | 4,611.31 | 115.29 |
| ST1-003 | DEMOLISHING RANDOM RUBBLE MASONRY IN CEMENT MORTAR INCLUDING STACKING OR LOADING.: | CU.M | 2,082.60 | 2,031.80 | 50.80 |
| ST1-003A | DEMOLISHING BRICK MASONRY IN CEMENT MORTAR INCLUDING STACKING OR LOADING.: | CU.M | 2,046.40 | 1,996.47 | 49.93 |
| ST1-004 | RANDOM RUBBLE MASONRY, 150-225 MM RUBBLE IN CEMENT SAND MORTAR 1:6 (EXCLUDING TRANSPORT OF RUBBLE & PILING) [SSCM 1006.3]: | CU.M | 13,164.20 | 6,254.42 | 6,909.78 |
| ST1-005 | RANDOM RUBBLE MASONRY, 150-225 MM RUBBLE IN CEMENT SAND MORTAR 1:5 (EXCLUDING TRANSPORT OF RUBBLE & PILING) [SSCM 1006.3]: | CU.M | 13,706.80 | 6,254.42 | 7,452.38 |
| ST1-006 | RANDOM RUBBLE MASONRY IN CEMENT SAND MORTAR 1:6 WITH AVAILABLE RUBBLE 150-225 MM : | CU.M | 10,797.30 | 6,254.42 | 4,542.88 |
| ST1-007 | RANDOM RUBBLE MASONRY IN CEMENT SAND MORTAR 1:5 WITH AVAILABLE RUBBLE 150-225 MM : | CU.M | 11,339.90 | 6,254.42 | 5,085.48 |
| ST1-008 | DRY MASONRY WITH AVAILABLE HEAVY RUBBLE OR BOULDERS (SSCM 1006.3 (B): | CU.M | 5,795.05 | 5,653.71 | 141.34 |
| ST1-009 | DRY RANDOM MASONRY WITH RUBBLE 150-225 MM (EXCLUDING TRANSPORT OF RUBBLE & PILING): | CU.M | 6,789.85 | 4,522.97 | 2,266.88 |
| ST1-010 | DRY RANDOM MASONRY WITH AVAILABLE RUBBLE 150-225 MM: | CU.M | 4,636.05 | 4,522.97 | 113.08 |
| ST1-011 | PACKING AVAILABLE RUBBLE AND AGGREGATE FILTER LAYERS BEHIND MASONRY WALLS: | CU.M | 1,203.65 | 1,143.99 | 59.66 |
| ST1-012 | CLAY PUDDLED & LAID BEHIND MASONRY WALLS (EXCL. TRANSPORT OF CLAY) (SSCM 705.3): | CU.M | 2,436.15 | 2,320.67 | 115.48 |
| ST1-013 | GROUTING COURSED STONE MASONRY JOINTS WITH CEMENT SAND MORTAR 1:3 (SSCM 804.2(C): | SQ.M | 522.50 | 336.84 | 185.66 |
| ST1-014 | GROUTING RUBBLE PAVING WITH CONCRETE CLASS C, 1:2:4(19 MM) (EXCL. TRANSPORT OF AGGR. FOR CONCRETE & PILING): | CU.M | 2,430.40 | 1,110.42 | 1,319.98 |
| ST1-015 | GROUTING RUBBLE PAVING WITH CEMENT SAND MORTAR (1:3): | SQ.M | 872.30 | 505.26 | 367.04 |

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|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| ST1-016 | FORMING WEEP HOLES IN MASONRY CONSTRUCTION (LABOUR ONLY) [SSCM 706.3] : | NO. | 427.10 | 416.67 | 10.43 |
| ST1-017 | FORMING WEEP HOLES USING P.V.C. PIPES OF INT. DIA. NOT LESS THAN 100 MM. COMPLETE WITH DRIPLEGE AND SURROUND FINISH SMOOTH: | METRE | 995.90 | 203.65 | 792.25 |
| ST1-018 | SHORING WITH 37.5 MM THICK CLASS II TIMBER PLANKS UP TO 3 M DEPTH.: | SQ.M | 1,131.80 | 447.22 | 684.58 |
| ST1-019 | SUPPLYING & FIXING CLASS II TIMBER STRUTS ETC. FOR SHORING UP TO 3 M DEPTH.: | CU.DECI.M | 88.55 | 68.89 | 19.66 |
| ST1-020 | SUPPLYING AND FIXING CLASS II TIMBER IN SHORING UP TO 3 M DEPTH | SQ.M | 1,351.90 | 618.42 | 733.48 |
| ST1-021 | LIFTING SOIL FOR EVERY 1.5 M BEYOND THE INITIAL 1.5 M : | CU.M / LIFT | 670.05 | 653.71 | 16.34 |
| ST1-022 | LIFTING WEDGE STONES EVERY 1.5 M BEYOND THE INITIAL 1.5 M : | CU.M / LIFT | 2,010.15 | 1,961.13 | 49.02 |
| ST1-023 | LIFTING RUBBLE OR CONCRETE EVERY 1.5 M BEYOND THE INITIAL 1.5 M : | CU.M / LIFT | 1,005.10 | 980.57 | 24.53 |
| ST1-024 | LOWERING WEDGED STONES EVERY 1.5 M BEYOND THE INITIAL 1.5 M : | CU.M / LOWER | 1,340.10 | 1,307.42 | 32.68 |
| ST1-025 | LOWERING RUBBLE OR CONCRETE FOR EVERY 1.5 M BEYOND THE INITIAL 1.5 M: | CU.M / LOWER | 670.05 | 653.71 | 16.34 |
| ST1-026 | RENDERING 12.5 MM THICK IN CEMENT SAND MORTAR 1:2 MIX (ROUGH): | SQ.M | 888.35 | 516.13 | 372.22 |
| ST1-027 | RENDERING 12.5 MM THICK IN CEMENT SAND MORTAR 1:2 MIX (SMOOTH FINISH): | SQ.M | 1,045.65 | 583.33 | 462.32 |
| ST1-028 | RENDERING 19 MM THICK IN CEMENT SAND MORTAR 1:2 MIX (ROUGH): | SQ.M | 1,255.75 | 688.17 | 567.58 |
| ST1-029 | RENDERING 19 MM THICK IN CEMENT SAND MORTAR 1:2 MIX (SMOOTH FINISH): | SQ.M | 1,413.05 | 755.38 | 657.67 |
| ST1-030 | RENDERING 12.5 MM THICK IN CEMENT SAND MORTAR 1:3 MIX (ROUGH): | SQ.M | 836.35 | 516.13 | 320.22 |
| ST1-031 | RENDERING 12.5 MM THICK IN CEMENT SAND MORTAR 1:3 MIX (SMOOTH FINISH): | SQ.M | 1,007.65 | 583.33 | 424.32 |
| ST1-032 | RENDERING 19 MM THICK IN CEMENT SAND MORTAR 1:3 MIX (ROUGH): | SQ.M | 1,180.25 | 688.17 | 492.08 |

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|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| ST1-033 | RENDERING 19 MM THICK IN CEMENT SAND MORTAR 1:3 MIX (SMOOTH FINISH): | SQ.M | 1,338.75 | 755.38 | 583.37 |
| ST1-034 * | 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 | 14,095.00 | 4,796.82 | 9,298.18 |
| ST1-035 * | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:4:8(50 MM) (VOLUME BATCHING) USING CRUSHER RUN AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING) (SSCM 1001.8-1001.9): | CU.M | 13,931.40 | 3,752.94 | 10,178.46 |
| ST1-036 * | 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 | 13,379.60 | 5,450.53 | 7,929.07 |
| ST1-037 * | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:4:8(50 MM) WITH 20% PLUMS(VOLUME BATCHING) USING CRUSHER RUN AGGREGATE.(EXCLUDING TRANSPORT OF AGGREGATE & PILING): | CU.M | 12,560.35 | 3,752.94 | 8,807.41 |
| ST1-038 * | 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 | 14,389.50 | 5,450.53 | 8,938.97 |
| ST1-039 * | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:3:6(37.5 MM) WITH 20% PLUMS(VOLUME BATCHING) USING CRUSHER RUN AGGREGATE.(EXCL.TRANSPORT OF AGGREGATE & PILING): | CU.M | 13,553.80 | 3,752.94 | 9,800.86 |
| ST1-040 * | 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 | 16,594.75 | 5,450.53 | 11,144.22 |
| ST1-041 * | 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 | 15,764.05 | 3,752.94 | 12,011.11 |
| | * NOTE: WHEN HAND BROKEN AGGREGATE(50 MM OR 37.5 MM) ARE USED, INPLACE OF CRUSHER RUN AGGREGATE, ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS. | | | | |
| ST1-042 | MIXING & LAYING MANUALLY, CEMENT CONCRETE 1:3:6(19 MM) (VOLUME BATCHING) USING CRUSHED AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING) (SSCM 1001.4): | CU.M | 16,882.85 | 5,450.53 | 11,432.32 |

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|---|---|--------------|------------------------|-------------------------|-------------------------|
| ST1-043 | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:3:6(19 MM) (VOLUME BATCHING) USING CRUSHED AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING): | CU.M | 15,925.05 | 3,752.94 | 12,172.11 |
| ST1-044 * | MIXING & LAYING MANUALLY CEMENT CONCRETE 1:2:4(37.5 MM) (VOLUME BATCHING) USING CRUSHER RUN AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING): | CU.M | 18,373.25 | 5,450.53 | 12,922.72 |
| ST1-045 * | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:2:4(37.5 MM) (VOLUME BATCHING) USING CRUSHER RUN AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING): ** ** (RATE INCLUDES VIBRATOR COST) | CU.M | 17,832.50 | 3,752.94 | 14,079.56 |
| * NOTE: WHEN HAND BROKEN AGGREGATE(50 MM OR 37.5 MM) ARE USED, INPLACE OF CRUSHER RUN AGGREGATE, ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS. | | | | | |
| ST1-046 | MIXING & LAYING MANUALLY CEMENT CONCRETE 1:2:4(19 MM) (VOLUME BATCHING) USING CRUSHER RUN AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING): | CU.M | 18,508.75 | 5,450.53 | 13,058.22 |
| ST1-047 | MIXING & LAYING USING CONCRETE MIXER, CEMENT CONCRETE 1:2:4(19 MM) (VOLUME BATCHING) USING CRUSHER RUN AGGREGATE (EXCL. TRANSPORT OF AGGREGATE & PILING): ** ** (RATE INCLUDES VIBRATOR COST) | CU.M | 17,959.40 | 3,752.94 | 14,206.46 |
| ST1-048 | MIXING & LAYING USING CONCRETE MIXER (W/BATCHING), CEMENT CONCRETE GRADE 25(19 MM) USING CRUSHER RUN AGGREGATES IN FOUNDATIONS AND FLOORS. (EXCLUDING TRANSPORT OF AGGREGATE & PILING): * SEE GENERAL NOTES: SECTION 33. 7 | CU.M | 19,585.00 | 3,752.94 | 15,832.06 |
| ST1-048A | MIXING & LAYING USING CONCRETE MIXER [W/BATCHING], CEMENT CONCRETE GRADE 25(70% 37.5 + 30% 19 MM) USING CRUSHER RUN AGGREGATES (EXCLUDING TRANSPORT OF AGGREGATE & PILING) :* * SEE GENERAL NOTES: SECTION 33. 7 | CU.M | 18,361.85 | 3,752.94 | 14,608.91 |
| ST1-049 | MIXING & LAYING USING CONCRETE MIXER (W/BATCHING) CEMENT CONCRETE GRADE 30(19 MM), WITH CRUSHER RUN AGGREGATE. (EXCLUDING TRANSPORT OF AGGREGATE & PILING): * SEE GENERAL NOTES: SECTION 33. 7 | CU.M | 22,070.05 | 3,752.94 | 18,317.11 |

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|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| ST1-050 | MIXING & LAYING USING CONCRETE MIXER(W/BATCHING), CEMENT CONCRETE GRADE 40(19 MM), WITH CRUSHER RUN AGGREGATE. (EXCLUDING TRANSPORT OF AGGREGATE AND PILING): * SEE GENERAL NOTES: SECTION 33. 7 | CU.M | 24,534.70 | 3,752.94 | 20,781.76 |
| ST1-051 | MIXING & LAYING CEMENT CONCRETE BY HAND : | CU.M | 5,698.95 | 5,450.53 | 248.42 |
| ST1-052 | MIXING & LAYING CEMENT CONCRETE BY POWER DRIVEN CONCRETE MIXER V/BATCHING: | CU.M | 4,873.50 | 3,752.94 | 1,120.56 |
| ST1-053 | CURING OF CONCRETE DECKS, SLABS, BEAMS, WALLS ETC. [SSCM 1011.11]: | SQ.M/DAY | 32.80 | 9.45 | 23.35 |
| ST1-054 | FABRICATE & LAY M.S. BARS AS REINFORCEMENT(INCL. TRANSPORT): | KG | 390.35 | 89.00 | 301.35 |
| ST1-055 | FABRICATE & LAY TOR STEEL AS REINFORCEMENT(INCL. TRANSPORT): | KG | 381.75 | 89.00 | 292.75 |
| ST1-056 | CUTTING & LAYING REINFORCEMENT FABRIC (EXCLUDING COST OF REINFORCEMENT FABRIC): | SQ.M | 248.55 | 240.54 | 8.01 |
| ST1-057 | SUPPLYING & FIXING 25 MM THICK PLANKS OF CLASS II TIMBER AS SHUTTERING, INCLUDING REMOVING [SSCM 1008.3 (b)]: | SQ.M | 1,399.75 | 467.74 | 932.01 |
| ST1-057A | SUPPLYING & FIXING 25 MM THICK PLANKS OF CLASS II TIMBER AS SHUTTERING FOR CONCRETE ROADS AND CURB FOR INTERLOCKING BLOCK PAVING ROADS INCLUDING REMOVING [SSCM 1008.3 (b)]: | SQ.M | 757.45 | 198.92 | 558.53 |
| ST1-058 | SUPPLYING & FIXING CLASS II TIMBER BEARERS, JOISTS, ETC. INCLUDING DISMANTLING IN SHUTTERING . [SSCM 1008.3(a)]: | CU.DECI M. | 68.80 | 46.11 | 22.69 |
| ST1-059 | 100 - 150 MM DIA. ROUND JUNGLE TIMBER SUPPLIED & FIXED AS PROPS.: | METRE | 99.75 | 89.14 | 10.61 |
| ST1-060 | 150 - 200 MM DIA. ROUND JUNGLE TIMBER SUPPLIED & FIXED AS PROPS.: | METRE | 102.35 | 89.14 | 13.21 |
| 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 | 3,263.50 | 1,417.35 | 1,846.15 |
| ST1-062 | FORMWORK SMOOTH FINISH WITH CLASS II TIMBER FOR BRIDGE COLUMN SHAFTS INCLUDING DISMANTLING. [SSCM 1008.3(b)]: | SQ.M | 2,996.65 | 1,429.40 | 1,567.25 |
| 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 | 3,230.55 | 2,041.09 | 1,189.46 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| 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 | 1,518.60 | 780.97 | 737.63 |
| ST1-065 | FORMWORK SMOOTH FINISH FOR GENERAL PURPOSES, USING 25 MM THICK PLANKS & STRUTS OF CLASS II TIMBER AND ROUND JUNGLE TIMBER PROPS 100-150 MM DIA., INCLUDING DISMANTLING : | SQ.M | 2,047.55 | 1,106.37 | 941.18 |
| ST1-066 | LAYING & JOINTING 153 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 3,269.70 | 742.26 | 2,527.44 |
| ST1-067 | LAYING & JOINTING 229 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 4,170.15 | 768.44 | 3,401.71 |
| ST1-068 | LAYING & JOINTING 305 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 4,601.80 | 835.04 | 3,766.76 |
| ST1-069 | LAYING & JOINTING 450 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 6,511.65 | 835.04 | 5,676.61 |
| ST1-070 | LAYING & JOINTING 610 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 9,567.70 | 1,670.08 | 7,897.62 |
| ST1-071 | LAYING & JOINTING 914 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 16,734.00 | 2,706.63 | 14,027.37 |
| ST1-072 | LAYING & JOINTING 1219 MM DIA. CONCRETE PIPES (TRANSPORT AND BEDDING MATERIAL PAID SEPARATELY) [SSCM 707.3(C)-707.4]: | METRE | 24,739.65 | 3,794.40 | 20,945.25 |
| ST1-073 | LAYING & JOINTING 153 MM DIA. AVAILABLE CONCRETE PIPES AND COLLARS: | METRE | 788.15 | 742.26 | 45.89 |
| ST1-074 | LAYING & JOINTING 229 MM DIA. AVAILABLE CONCRETE PIPES WITH COLLARS : | METRE | 842.30 | 768.44 | 73.86 |
| ST1-075 | LAYING & JOINTING 305 - 450 MM DIA. AVAILABLE CONCRETE PIPES AND COLLARS : | METRE | 910.55 | 835.04 | 75.51 |
| ST1-076 | LAYING & JOINTING 610 MM DIA. AVAILABLE CONCRETE PIPES AND COLLARS : | METRE | 1,766.50 | 1,670.08 | 96.42 |
| ST1-077 | LAYING & JOINTING 914 MM DIA. AVAILABLE CONCRETE PIPES AND COLLARS : | METRE | 3,047.50 | 2,706.63 | 340.87 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|---------------------|---|---------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| ST1-078 | LAYING & JOINTING 1219 MM DIA. AVAILABLE CONCRETE PIPES AND COLLARS : | METRE | 4,367.40 | 3,794.40 | 573.00 |
| ST1-079 | FIXING NEW BRIDGE PLANKS RUNNERS AND STACKING OLD PLANKS AVAILABLE [SSCM 1402.2(a)]: | NO. | 1,059.15 | 1,033.33 | 25.82 |
| ST1-080 | REMOVING & RE-SETTING OLD BRIDGE PLANKS.: | NO. | 662.00 | 645.83 | 16.17 |
| ST1-081 | SUPPLYING & FIXING NEW BRIDGE PLANKS OF CLASS I TIMBER.: | CU.DECI M. | 218.90 | 18.82 | 200.08 |
| ST1-082 | SUPPLYING & FIXING 31 MM THICK DECK PLANKS OF CLASS I TIMBER.: | SQ.M | 8,169.25 | 1,933.33 | 6,235.92 |
| ST1-083 | FIXING NEW CHEQUERED OR M.S. PLATES ON TIMBER - DECKED BRIDGE.[SSCM 1402.2(d)]: | METRE | 1,562.70 | 1,524.59 | 38.11 |
| ST1-084 | REMOVING & REFIXING CHEQUERED M.S. PLATES ON TIMBER - DECKED BRIDGE.: | METRE | 2,083.60 | 2,032.79 | 50.81 |
| ST1-085 | TIGHTENING BOLTS & NUTS OF CHEQUERED OR M.S. PLATES.: | METRE | 319.25 | 311.48 | 7.77 |
| ST1-086 | REMOVING & REFIXING 'U' CLIPS. ['SSCM 1402.2(b)]: | NO. | 222.95 | 217.50 | 5.45 |
| ST1-087 | CLEANING, WIRE BRUSHING & PAINTING STEELWORK, ONE COAT ENAMEL PAINT.: | SQ.M | 288.60 | 201.83 | 86.77 |
| ST1-088 | CLEANING, WIRE BRUSHING & APPLYING TAR ON STEELWORK, ONE COAT : | SQ.M | 221.30 | 201.83 | 19.47 |
| ST1-089 | CLEANING, WITH COTTON WASTE AND PAINTING STEEL WORK WITH ENAMEL PAINT, ONE COAT : | SQ.M | 167.60 | 82.88 | 84.72 |
| ST1-090 | CHIPPING TO BARE METAL ETC. & PAINTING WITH ANTICORROSIVE PAINT, ONE COAT : | SQ.M | 948.10 | 859.80 | 88.30 |
| ST1-091 | PAINTING WITH ONE COAT OF ENAMEL PAINT AFTER CLEANING, DERUSTING & APPLICATION OF ONE COAT ANTICORROSIVE PAINT. [SSCM 1401.3(c)]: | SQ.M | 654.70 | 493.81 | 160.89 |
| ST1-092 | PAINTING WITH TWO COATS OF ENAMEL PAINT, AFTER CLEANING, DERUSTING & APPLICATION OF ONE COAT ANTICORROSIVE PAINT : | SQ.M | 811.25 | 586.65 | 224.60 |
| ST1-093 | OILING STEEL CABLES ON SUSPENSION BRIDGES [SSCM 1405.3] : | SQ.M | 945.35 | 419.81 | 525.54 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| ST1-094 | CLEANING BOOMS OF STEEL BRIDGES INCLUDING SCAFFOLDING WHERE NECESSARY [SSCM 1401.3] : | METRE | 91.75 | 63.93 | 27.82 |
| ST1-095 | DEMOLISHING UNREINFORCED CEMENT CONCRETE INCLUDING CLEANING OF DEBRIS IN FOUNDATION AND SUPER STRUCTURE IN DRY CONDITION EXCLUDING UNDER WATER STRUCTURES [SSCM 202.2] : | CU.M | 3,497.80 | 3,321.55 | 176.25 |
| ST1-096 | DEMOLISHING REINFORCED CONCRETE AND DEBRIS CLEARED : | CU.M | 4,892.25 | 4,681.98 | 210.27 |
| ST1-097 | DEMOLISHING REINFORCED CONCRETE IN VERY HEAVY STRUCTURES BUILD UP OF GRADE 30 ABOVE CONCRETE IN WORK SUCH AS BRIDGE BEAMS & DECK SLABS, INCLUDING COLLECTING & REMOVING : | CU.M | 12,140.65 | 3,427.56 | 8,713.09 |
| 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 TO 0.3 M DEPTH IN FIXING : | NO | 902.30 | 485.71 | 416.59 |
| 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 TO 0.3 M DEPTH IN FIXING : | NO | 1,187.90 | 542.86 | 645.04 |
| ST1-099A | SUPPLYING & FIXING OF 400MM LONG , 20MM DIA. STAINLESS STEEL BARS AS DOWELS IN CAPPING BEAM AT FIXED END | NO | 535.95 | 74.06 | 461.89 |
| 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 TO 0.3 M DEPTH IN FIXING : | NO | 1,660.30 | 657.14 | 1,003.16 |
| ST1-101 | LAY STANDARD TYPE ROAD KERBS(125 MM WIDE X 900 MM LONG), SET ON 19 MM THICK 1:3 CEMENT SAND MORTAR LAYER ON 150 MM X 275 MM WIDE 1:2:4(19 MM) CONCRETE FOUNDATION WITH AVERAGE 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) : | METRE | 2,726.35 | 1,325.68 | 1,400.67 |
| | * QUANTITY OF AGGREGATE REQUIRED FOR CONCRETING IN 1 METER LENGTH IS EQUAL TO : 0.06 CU.M | | | | |
| ST1-102 | LAY STANDARD PRECAST BRIDGE KERBS [TYPE DRAWING NO. T/B/106 OF RDA] (COST OF PRECAST KERBS INCLUDING TRANSPORT TO BE PAID SEPARATELY) : | METRE | 589.65 | 550.00 | 39.65 |
| ST1-103 | CONSTRUCTING 150X50 MM THICK INSITU LOWER KERB IN GRADE 20(14 MM) CONCRETE FOR BRIDGES (AGGREGATE TRANSPORT TO BE PAID SEPARATELY): | METRE | 311.40 | 164.12 | 147.28 |
| ST1-104 | LAYING 450 X 450 X 50 MM PRECAST CONCRETE SLABS ON ON FOOT WALKS INCLUDING AVERAGE 40 MM THICK 1:3 CEMENT MORTAR BEDDING.(COST OF PRECAST SLABS AND TRANSPORT, TO BE PAID SEPARATELY) : | SQ.M | 1,952.50 | 1,077.33 | 875.17 |

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| ST1-105 | LAYING 450 X 450 X 50 MM PRECAST CONCRETE SLABS ON ON FOOT WALKS INCLUDING AVERAGE 40 MM THICK SAND BEDDING.(COST OF PRECAST SLABS AND TRANSPORT, TO BE PAID SEPARATELY) : | SQ.M | 1,215.95 | 990.00 | 225.95 |
| ST1-106 | FIXING PRECAST HAND RAILING AND UPRIGHTS USING GRADE 25(19 MM) CONCRETE INCLUDING FORMWORK FOR POCKETS.(COST OF THE PRECAST ITEMS INCLUDING TRANSPORT AND AGGREGATE* TRANSPORT, TO BE PAID SEPARATELY.) [TYPE DRAWING NO. T/B/102/B] | METRE | 1,655.15 | 1,173.05 | 482.10 |
| | * QUANTITY OF AGGREGATE REQUIRED FOR CONCRETING IN 1 METER LENGTH IS EQUAL TO : 0.017 CU.M | | | | |
| ST1-107 | CONSTRUCTION OF R.C.C. GRADE 25(19 MM) END PILLASTER, TYPE I (AGGREGATE* TRANSPORT AND IRON PILING TO BE PAID SEPARATELY) [TYPE DRAWING NO. T/B/106-REV 1] : | NO. | 56,009.20 | 16,674.81 | 39,334.39 |
| | * AGGREGATE QTY. REQUIRED PER PILLASTER: 37.5 MM - 0.08 CU.M 19 MM - 0.95 CU M | | | | |
| ST1-108 | CONSTRUCTION OF R.C.C. GRADE 25(19 MM) END PILLASTER, TYPE II (AGGREGATE* TRANSPORT AND IRON PILING TO BE PAID SEPARATELY) [TYPE DRAWING NO. T/B/106-REV 1] : | NO. | 61,803.95 | 18,892.89 | 42,911.06 |
| | * AGGREGATE QTY. REQUIRED PER PILLASTER: 37.5 MM - 0.09 CU.M 19 MM - 1.16 CU.M | | | | |
| ST1-109 | CONSTRUCTION OF R.C.C. GRADE 25(19 MM) END PILLASTER, TYPE III (AGGREGATE* TRANSPORT AND BUILTUP RUBBLE FOUNDATION TO BE PAID SEPARATELY) [TYPE DRAWING NO. T/B/106-REV 1] : | NO. | 35,985.00 | 10,491.89 | 25,493.11 |
| | * AGGREGATE QTY. REQUIRED PER PILLASTER: 19 MM - 0.70 CU.M | | | | |
| ST1-110 | CONSTRUCTION OF R.C.C. GRADE 25(19 MM) END PILLASTER, TYPE IV (AGGREGATE* TRANSPORT TO BE PAID SEPARATELY) [TYPE DRAWING NO. T/B/106-REV 1] : | NO. | 38,951.65 | 11,183.53 | 27,768.12 |
| | * AGGREGATE QTY. REQUIRED PER PILLASTER: 19 MM - 0.70 CU.M | | | | |
| ST1-111 | LAYING OF GRADE 20 CONCRETE PRECSAT PIN KERBS IN GRADE 20(19) CONCRETE FOUNDATION AS EDGING : (AGGREGATE TRANSPORT TO BE PAID SEPARATELY) | METRE | 918.30 | 479.35 | 438.95 |
| ST1-112 | SUPPLYING AND FIXING 25 MM THICK TONGUE AND GROOVED PLANKS WITH 50 X 50 MM STRUTS OF CLASS I TIMBER IN PANELS AS SMOOTH SHUTTERING FOR CONCRETE DRAINS (12 USES) : | SQ.M | 1,633.70 | 806.92 | 826.78 |
| ST1-113 | SUPPLY AND PACKING 50-200 MM DRY STONE LINING BEHIND ABUTMENTS AND WING WALLS : (AGGREGATE TRANSPORT PAID SEPARATELY) | CU.M | 3,085.15 | 1,143.99 | 1,941.16 |

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|--|---|--------------|------------------------|-------------------------|-------------------------|
| ST1-114 | LAYING GEOTEXTILE ON PREPARED SURFACE (SUPPLY AND TRANSPORT OF GEOTEXTILE TO BE PAID SEPARATELY): | SQ.M | 66.60 | 64.96 | 1.64 |
| ST1-115 | CONSTRUCTION OF GABION WALL USING 4X1X1 M MESH INCLUDING LACING WIRE ON PREPARED GROUND (SUPPLY AND TRANSPORT OF GABION MESH TO BE PAID SEPARATELY): | CU.M | 6,733.25 | 4,008.03 | 2,725.22 |
| ST1-116 | CONSTRUCTION OF GABION WALL USING 4X1X.5 M MESH INCLUDING LACING WIRE ON PREPARED GROUND (SUPPLY AND TRANSPORT OF GABION MESH TO BE PAID SEPARATELY): | CU.M | 7,234.85 | 4,497.42 | 2,737.43 |
| ST1-117 | CONSTRUCTION OF KERB INLET TYPE: K1 / T1 WITH COVER SLABS AS PER AS PER R.D.A. DRAWING AGGREGATE TRANSPORT TO PAY SEPARATELY. | NO. | 12,900.50 | 4,268.10 | 8,632.40 |
| * NOTE: EARTH EXCAVATION TO BE CONSIDERED BY THE 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 ITEM CODES ST1-038 TO ST1-050, DEPENDING ON THE STRUCTURAL LOCATION. | | | | | |
| ST1-118 | ADDITIONAL LABOUR FOR POURING, COMPACTING AND LEVELLING CONCRETE IN SCREED UNDER FOUNDATION SLAB | CU.M | 962.50 | 962.50 | 0.00 |
| ST1-119 | ADDITIONAL LABOUR FOR POURING, COMPACTING CONCRETE IN ABUTMENTS, WINGWALLS, CAPPING BEAMS OF PIERS AND FOOTWALKS OF BRIDGES | CU.M | 294.10 | 294.10 | 0.00 |
| ST1-120 | ADDITIONAL LABOUR FOR POURING, COMPACTING AND LEVELLING INFILLER CONCRETE BETWEEN BRIDGE BEAMS INCLUDING SCREED OF BRIDGE BEAMS | CU.M | 1,435.50 | 1,435.50 | 0.00 |
| ST1-121 | LAYING READY MIXED GRADE CONCRETE INCLUDING VIBRATION* (SUPPLY OF CONCRETE TO BE PAID SEPARATELY) | CU.M | 2,051.55 | 1,711.76 | 339.79 |
| ST1-122 | SUPPLYING AND LAYING APPROVED HARD RUBBER BEARING PADS 75 X12 MM OVER CAPPING BEAMS AND UNDER THE APPROACH SLABS | L.M | 1,577.90 | 110.97 | 1,466.93 |
| ST1-123 | BITUMENOUS SEALING MATERIAL SUPPLIED AND LAID UNDER BEAM ENDS TO PREVENT GROUT LEAK ON TO CAPPING BEAM INCLUSIVE OF TRANSPORT OF EMULSION. | L.M | 158.45 | 97.50 | 60.95 |
| ST1-124 | 150 MM DIA. POLYTHENE DISPLACERS SUPPLIED AND FILLED WITH SAW DUST OR SIMILAR LIGHT MATERIAL IN DECK. TRANSPORT OF SAW DUST TO PAY SEPARATELY: | L.M | 57.80 | 23.13 | 34.68 |
| ST1-125 | 230 MM DIA. POLYTHENE DISPLACERS SUPPLIED AND FILLED WITH SAW DUST OR SIMILAR LIGHT MATERIAL IN DECK. (TRANSPORT OF SAW DUST TO PAY SEPARATELY). | L.M | 95.80 | 46.25 | 49.55 |

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| ST1-126 | 325 MM DIA. POLYTHENE DISPLACERS SUPPLIED AND FILLED WITH SAW DUST OR SIMILAR LIGHT MATERIAL IN DECK. (TRANSPORT OF SAW DUST TO PAY SEPARATELY). | L.M | 147.55 | 74.00 | 73.55 |
| ST1-127 | PCC BEAMS 16.15M LONG LAUNCHED INTO POSITION | BEAM | 18,455.15 | 4,325.00 | 14,130.15 |
| ST1-128 | PCC BEAMS 13.41M AND 12.19M LONG LAUNCHED INTO POSITION | BEAM | 13,152.00 | 1,237.50 | 11,914.50 |
| ST1-129 | PCC BEAMS 10.67M, 9.75M AND 8.23M LONG LAUNCHED INTO POSITION | BEAM | 9,811.80 | 2,162.50 | 7,649.30 |
| ST1-130 | PCC BEAMS 7.01M, 6.09M, 5.18M, 4.26M AND 3.35M LONG LAUNCHED INTO POSITION | BEAM | 7,504.90 | 1,621.88 | 5,883.03 |
| ST1-131 | EXPANSION JOINTS WITH M.S. ANGLE IRON AND HARD RUBBER AS PER DRAWING NO. T/B/107 REV.1 | L.M | 10,002.50 | 4,110.04 | 5,892.46 |
| ST1-132 | TRANSPORT OF 355 X355X9144 MM R.C.C. PILES TO THE SITE (EXCLUDING UNLOADING AND STACKING) | PER NO./KM | 93.45 | 0.00 | 93.45 |
| ST1-133 | STACKING OF 355 X355X9144 MM R.C.C. PILES | NO | 5,622.15 | 925.00 | 4,697.15 |
| ST1-134 | TRANSPORT OF 305 X200X6100 MM R.C.SHEET PILES TO THE SITE (EXCLUDING UNLOADING AND STACKING) | PER NO./KM | 24.40 | 0.00 | 24.40 |
| ST1-135 | STACKING OF 305 X200X6100 MM R.C.SHEET PILES | NO | 2,709.40 | 616.67 | 2,092.73 |
| ST1-136 | DRIVING 305 X200X6100 MM R.C.SHEET PILES USING HAND MONKEY | METRE | 8,712.50 | 8,500.00 | 212.50 |
| ST1-137 | SATURATED SAND FILLING | CU.M | 4,589.10 | 217.65 | 4,371.45 |
| ST1-138 | STACKING OF P.S.C.BEAM 16.15M (53' 0") LONG | BEAM | 11,244.25 | 1,850.00 | 9,394.25 |
| ST1-139 | TRANSPORT OF P.S.C.BEAM 16.15M (53' 0") LONG TO THE SITE | PER BEAM /KM | 186.95 | 0.00 | 186.95 |
| ST1-140 | STACKING OF P.S.C.BEAM 13.41M (44' 0") OR 12.19M (40' 0") LONG | BEAM | 8,128.25 | 1,850.00 | 6,278.25 |
| ST1-141 | TRANSPORT OF P.S.C.BEAM 13.41M (44' 0") OR 12.19M (40' 0") LONG TO THE SITE | PER BEAM /KM | 124.65 | 0.00 | 124.65 |
| ST1-142 | STACKING OF P.S.C.BEAM 10.63M (35' 0"), 9.75M (32' 0") OR 8.23M (27' 0") LONG | BEAM | 6,096.20 | 1,387.50 | 4,708.70 |
| ST1-143 | TRANSPORT OF P.S.C.BEAM 10.63M (35' 0"), 9.75M (32' 0") OR 8.23M (27' 0") LONG TO THE SITE | PER BEAM /KM | 93.45 | 0.00 | 93.45 |
| ST1-144 | STACKING OF P.S.C.BEAM 7.01M (23' 0") LONG | BEAM | 4,064.15 | 925.00 | 3,139.15 |

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|---------------------|--|---------------------|--------------------------------------|--|--|
| ST1-145 | TRANSPORT OF P.S.C.BEAM 7.01M (23' 0") LONG TO THE SITE | PER BEAM /KM | 62.30 | 0.00 | 62.30 |
| ST1-146 | 50mm THICK COVER SLABS FOR SERVICE DUCTS IN GRADE 25(20) CONCRETE INCLUSIVE OF LIGHT REINFORCEMENT | SQ.M | 3,268.10 | 137.04 | 3,131.06 |
| ST1-147 | 110mm Ø TYPE 400 P.V.C. SERVICE DUCT SUPPLYING AND FIXING IN DECK | L.M | 1,400.00 | 217.50 | 1,182.50 |
| ST1-148 | 110mm Ø TYPE 250 P.V.C. RAIN WATER OUTLETS SUPPLIED AND FIXED THROUGH DECK | L.M | 1,179.40 | 402.50 | 776.90 |
| ST1-149 | 50mm Ø TYPE 400 P.V.C. DRAIN PIPES SUPPLIED AND FIXED THROUGH DECK | L.M | 623.75 | 268.33 | 355.42 |
| ST1-150 | 25mm Ø TYPE 1000 P.V.C. DRAIN PIPES SUPPLIED AND FIXED THROUGH DECK | L.M | 495.80 | 201.25 | 294.55 |
| ST1-151 | SUPPLYING & LAYING 110 MM DIAMETER PVC PIPE (GAUGE 600) UNDER THE ELECTRICAL LINE INSTALATION ON CENTER MEDIAN | L.M | 15,000.00 | 0.00 | ##### |

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|--|--|--------------|------------------------|-------------------------|-------------------------|
| SECTION XI ===== | | | | | |
| KILOMETER POSTS AND GUARD STONES ----- | | | | | |
| RF1-001 | WHITE WASHING, TWO COATS TO GUIDE/GUARD STONES: | NO. | 76.65 | 66.50 | 10.15 |
| RF1-002 | WHITEWASHING TWO COATS K.M. STONES INC. NUMBERING & TAR SKIRTING: | NO. | 808.10 | 760.00 | 48.10 |
| RF1-003 | PAINTING WHITE BACK GROUND ON PARAPETS ETC. & STENCILLING NOS.: | NO. | 303.00 | 266.00 | 37.00 |
| RF1-004 | FIXING GUARD STONES IN ANY SOIL: | NO. | 237.05 | 231.25 | 5.80 |
| RF1-005 | CASTING STD. K.M. STONES WITH R.C.C [1:2:4(19 MM) & CEMENT 282.5 KG/CU.M], FOR "A" AND "B" CLASS ROADS : | NO. | 7,067.40 | 4,012.80 | 3,054.60 |
| RF1-006 | CASTING STD. K.M. STONES WITH R.C.C [1:2:4(19 MM) & CEMENT 282.5 KG/CU.M], FOR "C" AND "D" CLASS ROADS : | NO. | 4,778.20 | 2,719.14 | 2,059.06 |
| RF1-007 | FIXING STANDARD TYPE K.M. STONES IN ANY SOIL: | NO. | 1,756.55 | 1,708.33 | 48.22 |
| RF1-008 | FIXING NEW OR REFIXING GUARD STONES IN 225 MM THICK CEMENT CONCRETE [1:3:6(37.5 MM) AND CEMENT 219 KG/CU.M] WITH MINIMUM COVER 75 MM X 300 MM DEPTH : | NO. | 909.10 | 452.00 | 457.10 |
| RF1-009 | CASTING STANDARD TYPE GUARD STONES IN CONCRETE [1:2:4(19 MM) & CEMENT 282.5 KG/CU.M] : | NO. | 2,336.20 | 1,371.19 | 965.01 |
| RF1-009A | CASTING STANDARD TYPE GUARD STONES IN IN CONCRETE GRADE 20(19) AS PER DRAWING NO. T/B/100-REV.1 FOR BRIDGES & CULVERTS | NO. | 3,740.90 | 1,312.05 | 2,428.85 |
| * NOTE : 19 MM AGGREGATE PER GUARD STONE IS 0.058 CU.M. | | | | | |
| RF1-010 | ROUTE NUMBERING WITH REFLECTIVE PAINT ON 2 SIDES: | NO. | 680.65 | 625.00 | 55.65 |
| RF1-011 | CASTING STANDARD BOUNDARY MARKERS IN R/F CONCRETE[1:2:4(19MM) WITH ADMIXTURES, INCLUDING 14 DAYS CURING AND LOADING TO VEHICLES AT YARD. (AGGR. TRANSPORT TO PAY SEPARATELY) * : | NO. | 2,541.25 | 1,030.76 | 1,510.49 |
| * NOTE : 19 MM AGGREGATE PER BOUNDARY MARKER IS 0.039 CU.M. | | | | | |

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HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|---|--|--------------|------------------------|-------------------------|-------------------------|
| SECTION XII ===== | | | | | |
| 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(37.5 MM) AND CEMENT 219 KG/CU.M], (EXCLUDING TRANSPORT OF AGGREGATE): | NO. | 1,678.30 | 1,027.41 | 650.89 |
| RS1-002 | CLEANING & WHITEWASHING 2 COAT TOWN NAME BOARDS (INC. TAR SKIRT) | NO. | 427.35 | 332.50 | 94.85 |
| RS1-003 | CLEANING, PAINTING ONE COAT & RELETTERING ETC. TRFFIC SIGN BOARDS INC. PAINT POST IN B/W | NO. | 2,385.80 | 2,175.00 | 210.80 |
| RS1-004 | CLEANING AND PAINTING 1 COAT ON NOTICE BOARD | NO. | 353.15 | 262.38 | 90.77 |
| RS1-005 | LETTERING & NUMBERING BELOW 50 MM | NO. | 57.55 | 52.08 | 5.47 |
| RS1-006 | LETTERING & NUMBERING 50 MM - 75 MM | NO. | 69.05 | 62.50 | 6.55 |
| RS1-007 | LETTERING & NUMBERING 75 MM - 150 MM | NO. | 86.35 | 78.13 | 8.23 |
| RS1-008 | LETTERING & NUMBERING 150 MM - 225 MM | NO. | 115.10 | 104.17 | 10.93 |
| RS1-009 | PAINTING 2 COATS CONTINUOUS CENTRE LINE, 100 MM WIDE WITH ENAMEL PAINT | METRE | 153.35 | 108.75 | 44.60 |
| RS1-010 | PAINTING 1 COAT CONTINUOUS CENTRE LINE, 100 MM WIDE WITH ROAD MARKING PAINT(WHITE) : | METRE | 158.30 | 114.79 | 43.51 |
| RS1-011 | PAINTING 2 COATS BROKEN CENTRE LINE, 100 MM WIDE WITH ENAMEL PAINT | METRE | 145.15 | 108.75 | 36.40 |
| RS1-012 | PAINTING 1 COAT BROKEN CENTRE LINE, 100 MM WIDE WITH ROAD MARKING PAINT(WHITE) : | METRE | 150.50 | 114.79 | 35.71 |
| RS1-013 | BARRICADING WITH EMPTY (HOT TAR) BARRELS INCLUDING WHITE WASHING, TRANSPORTING AND COST OF BARRELS : | NO. | 423.30 | 178.18 | 245.12 |
| RS1-014 | REVTMENT TO BANKS ETC. WITH EMPTY BARRELS IN HORIZONTAL TIERS WITH VERTICAL BATTER(1:8), INCLUDING TRANSPORT OF BARRELS : | NO. | 687.65 | 545.37 | 142.28 |

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| RS1-015 | ROAD MARKING, CONTINUOUS CENTRE LINE 100 MM WIDTH, USING THERMOPLASTIC PAINT (WHITE) INCLUSIVE BARRICADING (PAINT MATERIAL AND REFLECTIVE GLASS BEADS TO PAY SEPARATELY); | SQ.M | 311.25 | 149.00 | 162.25 |
| | NOTE * 1 KG OF THERMO PLASTIC 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 (YELLOW), INCLUSIVE BARRICADING (PAINT MATERIAL AND REFLECTIVE GLASS BEADS TO PAY SEPARATELY); | SQ.M | 304.45 | 235.00 | 69.45 |
| | NOTE * 1 KG OF THERMO PLASTIC PAINT COVERS 0.28 SQ.M AREA AT 1.5 MM THICKNESS 25 KG OF GLASS BEADS WILL COVER 100 SQ.M AREA | | | | |

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HSR - 2022
Engineering Division
Ministry of Highways

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE | DESCRIPTION OF ITEM | UNIT | AMOUNT RS. | LABOUR INPUT | OTHER INPUTS |
|---------|--|-------|---------------|-----------------|-----------------|
| | SECTION XIII ===== | | | | |
| | MISCELLANEOUS ----- | | | | |
| MS1-001 | PREPARING, STOCK PILING PREMIX USING 80/100 PEN. GRADE BITUMEN(EXCL. TRANSPORT OF AGGREGATE) (SITE MADE): | CU.M | 20,066.95 | 4,823.32 | 15,243.63 |
| MS1-002 | PATCHING SHALLOW POT HOLES, DEPTH LESS THAN 20 MM USING 80/100 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 INCLUDES COST OF BITUMEN AND MATERIALS) (EXCL. TRANSPORT OF AGGREGATE & BITUMEN): | SQ.M | 319.30 | 82.80 | 236.50 |
| MS1-003 | PATCHING SHALLOW POT HOLES, DEPTH LESS THAN 20 MM USING MC30 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 INCLUDES COST OF BITUMEN AND MATERIALS) (EXCL. TRANSPORT OF AGGREGATE AND BITUMEN): | SQ.M | 321.40 | 92.98 | 228.42 |
| 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 OF EMULSION TO SITE ETC. (RATE INCLUDES COST OF EMULSION AND OTHER MATERIALS)(EXCL. TRANSPORT OF AGGREGATE): | SQ.M | 280.20 | 82.80 | 197.40 |
| MS1-005 | PATCHING POT HOLES OF MEDIUM DEPTH OF 20-75 MM WITH PREMIX MATERIAL (SITE MADE) USING CUT BACK 80/100 BITUMEN 10-20% AT THE RATE OF 83.5 LITRES PER CU. METRE OF 19 MM AND DOWN GAUGE STONE AGGREGATE, INCLUDING PREPARATION OF SURFACE, TACK COAT WITH EMULSION (CSS-1) 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): | SQ.M | 2,119.30 | 988.78 | 1,130.52 |
| MS1-006 | PATCHING POTHOLES USING PLANT MADE BITUMEN BOUND BASE (WITH 60/70 BINDER) INCLUDING SEALING THE PATCHING WITH EMULSION(CRS-1) PAINTING @ 7.3 LTR/M.TON, COVER WITH SAND (SUPPLY AND TRANSPORT OF PREMIX TO BE PAID SEPARATELY): | M.TON | 5,225.45 | 3,800.00 | 1,425.45 |
| MS1-007 | PATCHING POT HOLES OF MEDIUM DEPTH OF 20-75 MM USING GRADED AGGREGATE 19 -12.5 MM USING HOT BITUMEN(80/100) @ 2 LTR/SQ.M COVERED WITH BLOTTON MATERIAL AT THE RATE OF 1 CU.M/125 SQ.M INCLUDING PREPARATION OF SURFACE, TACK COAT WITH (CSS-1) AT .75 LTR/SQ.M, TRIMMING SIDES, LAYING AGGREGATE, TAMPING ETC. COMPLETE. (RATE INCLUSIVE OF AGGREGATE & TACK COAT BUT EXCL. TRANSPORT OF AGGREGATE & BITUMEN): | SQ.M | 1,281.95 | 667.80 | 614.15 |
| MS1-008 | PATCHING DEEP POT HOLES DEEPER THAN 75 MM WITH 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 DOWN GRADED AGGREGATE INCL. PREPARATION OF SURFACE, TACK COAT WITH EMULSION (CSS-1) .75 LTR/SQ.M., TRIMMING SIDES, LAYING PREMIX, TAMPING ETC. COMPLETE (RATE INCLUSIVE OF PREMIX MADE AT SITE AND TACK COAT) (EXCL. TRANSPORT OF AGGREGATE & BITUMEN): | SQ.M | 1,194.10 | 591.60 | 602.50 |

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| 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 INCLUDING LAYING, WATERING, SPREADING GRAVEL OF APPROVED QUALITY AND TAMPING AS DIRECTED. (AGGREGATE AND GRAVEL WILL BE PAID SEPARATELY): | SQ.M | 63.75 | 61.83 | 1.92 |
| MS1-010 | PATCHING RUTS AND DEPRESSIONS UPTO 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 EMULSION (CSS-1) .75 LTR/SQ.M., (EXCL. TRANSPORT OF AGGREGATE): | SQ.M | 1,932.15 | 806.20 | 1,125.95 |
| MS1-011 | PATCHING RUTS AND DEPRESSIONS UPTO 75 MM DEPTH USING PLANT MADE COLD MIX(60/70 CUT BACK) MATERIAL WITH THE SURFACE AND EDGE PREPARED AS PER SPECIFICATIONS AND APPLICATION OF TACK COAT WITH EMULSION (CSS-1) @ .75 LTR/SQ.M (COLD MIX SUPPLY AND TRANSPORT TO BE PAID SEPARATELY): | SQ.M | 531.30 | 435.57 | 95.73 |
| MS1-012 | PATCHING RUTS AND DEPRESSIONS DEEPER THAN 75 MM THE SURFACE AND EDGES PREPARED AS PER SPECIFICATION TACK COAT WITH EMULSION(CSS-1) @ .75 LTR/SQ.M, TRIMMING SIDES, 50 MM DOWN GAUGE AGGREGATED LAID AND COMPACTED AND THE TOP 40 MM LAID AND COMPACTED WITH SITE MADE COLD MIX(CUT BACK) MATERIAL (AGGREGATE 50 MM DOWN GAUGE AND TRANSPORT WILL BE PAID SEPARATELY) : | SQ.M | 1,546.90 | 932.32 | 614.58 |
| MS1-013 | PATCHING RUTS AND DEPRESSIONS UPTO 75 MM DEPTH THE SURFACE AND EDGES PREPARED AS PER SPECIFICATION AND APPLICATION OF TACK COAT WITH EMULSION(CSS-1) AT .75 LTR/SQ.M 50 MM DOWN GAUGE AGGREGATED LAID AND COMPACTED, USING HOT BITUMEN(80/100) @ 2 LTR/SQ.M COVERED WITH BLOTTON MATERIAL (SAND) AT THE RATE OF 1 CU.M/125 SQ.M (AGGREGATE WILL BE PAID SEPARATELY): | SQ.M | 1,190.75 | 762.23 | 428.52 |
| MS1-014 | PATCHING RUTS AND DEPRESSIONS DEEPER THAN 75 MM DEPTH THE SURFACE AND EDGES PREPARED AS PER SPECIFICATION AND APPLICATION OF TACK COAT WITH EMULSION(CSS-1) @ .75 LTR/SQ.M 50 MM DOWN GAUGE AGGREGATED LAID AND COMPACTED, USING HOT BITUMEN(80/100) @ 2 LT/SQ.M COVERED WITH BLOTTON MATERIAL (SAND) AT THE RATE OF 1 CU.M/125 SQ.M (AGGREGATE WILL BE PAID SEPARATELY): | SQ.M | 1,332.15 | 898.66 | 433.49 |
| MS1-015 | CORRECTING & STRENGTHENING THE EDGES OF ROAD WITH SITE MADE COLD MIX 40MM 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 EMULSION AT .75 LTR/SQ.M LAID OVER 50 MM AND DOWN GAUGE AGGREGATE LAID, ON POSITION WATERED 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) : | SQ.M | 1,860.70 | 1,230.95 | 629.75 |

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|--------------|---|--------------|------------------------|-------------------------|-------------------------|
| MS1-016 | CORRECTING & STRENGTHENING THE EDGES OF ROAD WITH SITE MADE COLD MIX 40 MM THICK PREPARED USING CUTBACK BITUMEN 10-20% AT THE RATE OF 83.5 LTR/CU.M OF 19 AND DOWN GAUGE AGGREGATE OVER A TACK COAT WITH EMULSION 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 100 MM, 50 MM DOWN GAUGE AND TRANSPORT WILL BE PAID SEPARATELY): | SQ.M | 2,145.55 | 1,501.27 | 644.28 |
| MS1-017 | PATCH SEALING WITH EMULSION PAINTING THE SURFACE BY SPRAY OF CRS-1 AT THE RATE OF .75 LTR/SQ.M SQUEEGING THE EMULSION AND SPREADING THE BLOTTON MATERIAL (SAND) AT THE RATE OF 1 CU.M/125 SQ.M : | SQ.M | 156.20 | 31.27 | 124.93 |
| MS1-018 | PATCH SEALING WITH HOT BITUMEN PAINTING THE SURFACE BY USING .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): | SQ.M | 180.80 | 31.27 | 149.53 |
| MS1-019 | PATCH SEALING OF PITTED SURFACE USING HOT SAND BITUMEN MIX 104 LTR/CU.M OF SAND SPREAD AND HAND TAMPED INCLUDING BRUSHING AND CLEANING THE SURFACE BEFORE APPLICATION (EXCLUDING TRANSPORT OF BITUMEN): | SQ.M | 417.10 | 124.01 | 293.09 |
| MS1-020 | PATCH SEALING OF PITTED SURFACES 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: | SQ.M | 405.50 | 89.19 | 316.31 |
| 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 | 32.40 | 31.25 | 1.15 |
| 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 | 3.95 | 3.83 | 0.12 |
| MS1-023 | CLEARING MEDIUM 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 | 5.50 | 5.34 | 0.16 |
| MS1-024 | CLEARING 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 | 7.00 | 6.85 | 0.15 |
| MS1-025 | REPAIRS TO DAMAGE OF SHOULDERS VERGES AND EMBANKMENTS SLOPES INCLUDING MAKING GOOD DEPRESSIONS, RUTS, HOLES AND ERROSION PATH WITH APPROVED GRAVELLY SOIL AND COMPACTING THE SAME WITH ROLLER (8-10 TON) AS DIRECTED (GRAVELLY SOIL TO BE PAID SEPARATELY IF BROUGHT FROM OUTSIDE) [SSCM 1201.3]: | CU.M | 661.50 | 326.86 | 334.64 |

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|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| MS1-026 | REGRADING AND REGRAVELLING OF SHOULDERS WITH GRAVEL OF APPROVED QUALITY, DULY COMPACTED WITH ROLLER(8-10TONS) AS DIRECTED FOR REPAIRING HIGH SIDES CAUSED BY HEAVINGS DEPOSITS AND CONSTRUCTION DEBRIS, TO REQUIRED LEVELS BY USING A GRADER(120-140 HP) (GRAVEL TO BE PAID SEPARATELY)[SSCM 1201.3(b)]: | CU.M | 401.35 | 0.00 | 401.35 |
| MS1-027 | REGRADING AND REGRAVELLING OF SHOULDERS WITH GRAVEL OF APPROVED QUALITY, DULY COMPACTED WITH ROLLER(8-10TONS) AS DIRECTED FOR REPAIRING HIGH SIDES CAUSED BY HEAVINGS DEPOSITS AND CONSTRUCTION DEBRIS, TO REQUIRED LEVELS MANUALLY (GRAVEL(LOOSE VOLUME) TO BE PAID SEPARATELY) [SSCM 1201.3(b)]: | CU.M | 731.40 | 373.74 | 357.66 |
| MS1-028 | REPLACING THE DAMAGE CRACKED CONCRETE SLABS IN THE FOOT WALKS WITH PRECAST/CAST INSITU CEMENT CONCRETE 1:2:4(19MM) USING 19 MM & DOWN GAUGE STONE AGGREGATE TO A MINIMUM THICKNESS OF 50 MM INCLUDING FIXING/LAYING IN POSITION WITH CEMENT MOTAR 1:3 JOINTS OVER A COMPACTED BED ETC. EXCLUDING TRANSPORT OF AGGREGATE. [SSCM 1204.3] : | SQ.M | 2,552.00 | 1,659.44 | 892.56 |
| MS1-029 | CUTTING AND REMOVING FALLEN TREES UPTO 600 MM GIRTH INCLUDING CUTTING INTO REQUIRED NUMBER OF PIECES INCLUDING DISPOSAL AS DIRECTED. MINIMUM PIECES SHALL NOT BE LESS THAN 2.5 M LENGTH [SSCM 1203.2] | NO. | 829.60 | 809.38 | 20.23 |
| MS1-030 | CUTTING AND REMOVING FALLEN TREES 600-900 MM GIRTH INCLUDING CUTTING INTO REQUIRED NUMBER OF PIECES INCLUDING DISPOSAL AS DIRECTED. MINIMUM PIECES SHALL NOT BE LESS THAN 2 M LENGTH [SSCM 1203.2] | NO. | 1,185.15 | 1,156.25 | 28.90 |
| MS1-031 | WEEDING MASONRY CULVERTS SMALL BRIDGES AND RETAINING WALLS [SSCM 1303.3]: | NO. | 299.90 | 195.00 | 104.90 |
| MS1-032 | MASONRY RANDOM RUBBLE WITH BOULDERS INCLUDING COLLECT[SSCM 1006.3(b)]: | CU.M | 1,550.45 | 1,482.35 | 68.10 |
| MS1-033 | FIXING CATS EYES IN TAR MACADAM INCLUDING BREAKING ROAD SURFACE, BARRICADE ETC. [SSCM 810.3(C)]: | NO. | 424.70 | 377.50 | 47.20 |
| MS1-034 | REDUCING HIGH SIDES IN ORDINARY SOIL [SSCM 301.3/1201.3 (c)]: | CU.M | 716.65 | 653.71 | 62.94 |
| MS1-035 | REDUCING HIGH SIDES IN MEDIUM SOIL: | CU.M | 1,051.70 | 980.57 | 71.13 |
| MS1-036 | REDUCING HIGH SIDES IN HARD SOIL: | CU.M | 1,386.70 | 1,307.42 | 79.28 |
| MS1-037 | REDUCING HIGH SIDES IN SOFT ROCK: | CU.M | 1,721.75 | 1,634.28 | 87.47 |
| MS1-038 | REDUCING HIGH SIDES IN ROCK REQUIRING BLASTING : | CU.M | 3,508.60 | 2,014.13 | 1,494.47 |
| MS1-039 | WHITE WASHING 1 COAT TO PARAPETS OF BRIDGES AND CULVERTS.[SSCM 1403.3(e)]: | SQ.M | 53.00 | 40.86 | 12.14 |

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| MS1-040 | WHITE WASHING 2 COATS TO PARAPETS OF BRIDGES AND CULVERTS: | SQ.M | 88.35 | 71.51 | 16.84 |
| MS1-041 | WHITE WASHING 1 COAT TO PARAPETS OF BRIDGES AND CULVERTS AFTER CLEANING ATTENDING TO MINOR REPAIRS: | SQ.M | 107.35 | 41.40 | 65.95 |
| MS1-042 | WHITE WASHING 2 COATS TO PARAPETS OF BRIDGES AND CULVERTS AFTER CLEANING ATTENDING TO MINOR REPAIRS: | SQ.M | 143.10 | 72.45 | 70.65 |
| MS1-043 | PAINTING WITH EMULSION 1 COAT TO PARAPETS OF BRIDGES AND CULVERTS, GUARD STONES AND K.M. POSTS AFTER CLEANING AND ATTENDING TO MINOR REPAIRS.[SSCM 1501.3(a)-(v)]: | SQ.M | 252.15 | 94.73 | 157.42 |
| MS1-044 | PAINTING WITH ENAMEL 1 COAT TO PARAPETS OF BRIDGES AND CULVERTS, GUARD STONES AND K.M. POSTS AFTER CLEANING AND ATTENDING TO MINOR REPAIRS.[SSCM 1501.3(a)-(v)]: | SQ.M | 267.10 | 94.73 | 172.37 |
| MS1-045 | PAINTING WITH ENAMEL 2 COATS TO PARAPETS OF BRIDGES AND CULVERTS, GUARD STONES AND K.M. POSTS AFTER CLEANING AND ATTENDING TO MINOR REPAIRS.[SSCM 1501.3(a)-(v)]: | SQ.M | 410.90 | 176.53 | 234.37 |
| MS1-046 | PAINTING WITH EMULSION 2 COATS TO PARAPETS OF BRIDGES AND CULVERTS, GUARD STONES AND K.M. POSTS AFTER CLEANING AND ATTENDING TO MINOR REPAIRS: | SQ.M | 395.75 | 176.53 | 219.22 |
| 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 | 198.35 | 94.73 | 103.62 |
| 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 | 175.90 | 81.81 | 94.09 |
| 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.[S.S.C.M. 1501.3 (b)(v)]: | SQ.M | 185.10 | 81.81 | 103.29 |
| MS1-050 | CLEANING & PAINTING 100 MM WIDE STRIPE FOR SKIRTING TO GUARD STONES. [SSCM 1501.3(b)(v)]: | METRE | 96.75 | 93.44 | 3.31 |
| MS1-051 | PAINTING 2 COATS STANDARD PEDESTRIAN CROSSING FOR CARRIAGEWAY. [SSCM 810.2(c)]: | METRE | 2,397.25 | 1,634.22 | 763.03 |
| MS1-052 | PAINTING 1 COAT STANDARD PEDESTRIAN CROSSING FOR CARRIAGEWAY USING ROAD MARKING PAINTS. [SSCM 810.2(c)]: | METRE | 2,589.85 | 1,782.79 | 807.06 |
| 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]: | METRE | 777.80 | 252.73 | 525.07 |
| 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 | 152.60 | 125.81 | 26.79 |

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| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|--------------|--|--------------|------------------------|-------------------------|-------------------------|
| MS1-055 | ROUGHNING EXISTING SMOOTH TARRED METALLED CARRIAGEWAY BY HAND FOR BONDING, COLLECTING DISPOSAL OF ALL LOOSE MATERIALS.[SSCM 403.3(b)]: | SQ.M | 21.50 | 20.97 | 0.53 |
| MS1-056 | SUPPLY OF DIESEL FOR MACHINERIES: (EX-FILLING STATION): | LITRE | 121.00 | 0.00 | 121.00 |
| 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 TAMPING. (SUPPLY OF PREMIX(LOOSE VOL.) PAID SEPARATELY) [SSCM 1102.3(b)(i)]: | CU.M | 6,878.45 | 4,699.65 | 2,178.80 |
| MS1-058 | PATCHING ROAD WITH PREMIX AFTER PREPARING SURFACE WITH EMULSION(CSS-1) AT .75 LTR/SQ.M AS TACK COAT, INCLUDING INTERNAL TRANSPORT AND STAMPING WITH MACHINE.(SUPPLY OF PREMIX PAID SEPARATELY) [SSCM 1102.3(b)(i)]: | M.TON | 6,981.60 | 4,385.71 | 2,595.89 |
| MS1-059 | PAINTING TWO COATS ENAMAL PAINT ON KERBS, AFTER CLEANING AND PREPARING SURFACE. | SQ.M | 396.20 | 246.23 | 149.97 |
| MS1-060 | PREPARING AND STOCK PILING PREMIX AT SITE USING 12.5 MM AGGREGATE AND EMULSION CSS-1. (EXCLUDING TRANSPORT OF AGGREGATE) : | CU.M | 18,078.05 | 3,303.89 | 14,774.16 |
| MS1-061 | BREAKING MANUALLY ASPHALT LAYER 2"-3" THICK ON THE CARRIAGEWAY FOR KERB LAYING | L.M | 526.40 | 513.54 | 12.86 |
| MS1-062 | CUTTING AND REMOVING TREES 300-600MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 5,512.50 | 471.88 | 5,040.63 |
| MS1-063 | CUTTING AND REMOVING TREES 600-1200MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 6,660.00 | 712.50 | 5,947.50 |
| MS1-064 | CUTTING AND REMOVING TREES 1200-2000MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 7,926.10 | 1,068.75 | 6,857.35 |
| MS1-065 | CUTTING AND REMOVING TREES OVER 2000MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 21,837.65 | 2,887.50 | 18,950.15 |
| MS1-066 | CUTTING AND REMOVING OF OVERHANGING BRANCHES 300-600MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 986.55 | 962.50 | 24.05 |
| MS1-067 | CUTTING AND REMOVING OF OVERHANGING BRANCHES 600-1200MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 3,613.15 | 3,525.00 | 88.15 |
| MS1-068 | CUTTING AND REMOVING OF OVERHANGING BRANCHES OVER 1200MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 4,817.50 | 4,700.00 | 117.50 |
| MS1-069 | REMOVING OF STUMPS 300-600MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 3,718.50 | 115.63 | 3,602.88 |
| MS1-070 | REMOVING OF STUMPS 600-1200MM GIRTH INCLUDING DISPOSAL AS DIRECTED | NO | 5,518.50 | 115.63 | 5,402.88 |
| MS1-071 | REMOVING STRINGS OF BARBED WIRE FENCE | L.M | 6.30 | 6.17 | 0.13 |

* * *

HIGHWAY SCHEDULE OF RATES - SUMMARY 2022
MANNAR DISTRICT

| CODE ---- | DESCRIPTION OF ITEM ----- | UNIT ---- | AMOUNT RS. ----- | LABOUR INPUT ---- | OTHER INPUTS ---- |
|---|--|---------------------|--------------------------------------|---------------------------------------|---------------------------------------|
| SECTION XIV ===== | | | | | |
| SURVEYING, LEVELLING AND DAYWORKS ----- | | | | | |
| SV1-001 | SUPPLY OF UNSKILLED LABOUR: | DAY | 1,850.00 | 1,850.00 | 0.00 |
| SV1-002 | SUPPLY OF SEMISKILLED LABOUR: | DAY | 1,950.00 | 1,950.00 | 0.00 |
| SV1-003 | SUPPLY OF SKILLED 'A' GRADE LABOUR: | DAY | 2,500.00 | 2,500.00 | 0.00 |
| SV1-004 | SUPPLY OF SKILLED 'B' GRADE LABOUR: | DAY | 2,000.00 | 2,000.00 | 0.00 |
| SV1-005 | CLEARING JUNGLE (LIGHT) TO A WIDTH OF 1.22 METRES FOR SURVEY WORK: | K.M | 7,066.75 | 6,894.41 | 172.34 |
| SV1-006 | CLEARING JUNGLE (MEDIUM) TO A WIDTH OF 1.22 METRES FOR SURVEY WORK: | K.M | 9,422.35 | 9,192.55 | 229.80 |
| SV1-007 | CLEARING JUNGLE (HEAVY) TO A WIDTH OF 1.22 METRES FOR SURVEY WORK: | K.M | 14,133.55 | 13,788.82 | 344.73 |
| SV1-008 | SUPPLY OF LABOUR FOR CHAINING AND CUTTING PEGS AND PEGGING: | K.M | 1,862.20 | 1,816.77 | 45.43 |
| SV1-009 | LEVELLING CHAINING AND PEGGING AND ESTABLISHING BENCH MARKS ON CONCRETE ROCK OR PEGS AND CHECKING BACK LEVELS: | K.M | 3,724.40 | 3,633.54 | 90.86 |
| SV1-010 | SURVEYING INCLUDING FIXING PICKETS & TAKING ANGLES: | K.M | 3,724.40 | 3,633.54 | 90.86 |
| SV1-011 | CHANGING TRAVERSE LINES AND TAKING OFF-SETS: | K.M | 4,965.85 | 4,844.72 | 121.13 |

* * *

**EX-PLANT BASIC PRICES OF ASPHALT CONCRETE MATERIALS PRODUCED AT MIXING PLANTS
LOCATED IN THE DISTRICTS : HSR-2022**

- NOTE:** 1. TRANSPORT COST OF ALL RAW MATERIALS AND ROYALTY INCLUDED IN THE GIVEN PRICES.
2. PRICES FROM THE ASPHALT CONCRETE MIXING PLANT CLOSEST TO THE WORK SITE, WHICH IS ABLE TO SUPPLY THE REQUIRED TYPE (HOT/COLD) SHALL BE CONSIDERED.
3. ADD PREMIX TRANSPORT FROM MIXING PLANT TO THE WORK SITE, SEPARATELY
4. BINDER % OF B0-361A, B0-362, B0-362A AND B0-365 ARE BY TOTAL MIX WEIGHT AND BINDER % OF B0-366 IS BY TOTAL WEIGHT OF AGGREGATE

| DISTRICT | | | PRICE : EX-PLANT COST RS. PER M.Ton | | | | | | | | | | | |
|------------------|-----------|----------|-------------------------------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|------------|-----------|
| | | | COLOMBO | | GAMPAHA | | KALUTARA | | GALLE | | MATARA | | HAMBANTOTA | |
| CODE | AGG. SIZE | UNIT | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE |
| B0-361 | 19 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-361A | 19 mm | PER M.T. | 4.50 | 11,238.00 | 4.50 | 11,203.00 | 4.50 | 10,986.00 | 4.50 | 11,126.00 | 4.50 | 11,065.00 | 4.50 | 11,065.00 |
| B0-362 | 37.5 mm | PER M.T. | 3.50 | 9,761.00 | 3.50 | 9,751.00 | 3.50 | 9,522.00 | 3.50 | 9,841.00 | 3.50 | 9,762.00 | 3.50 | 9,762.00 |
| B0-362A | 19 mm | PER M.T. | 4.10 | 10,647.00 | 4.10 | 10,614.00 | 4.10 | 10,391.00 | 4.10 | 10,756.00 | 4.10 | 10,696.00 | 4.10 | 10,696.00 |
| B0-365 * | 19 mm | PER M.T. | 5.50 | 12,311.00 | 5.50 | 12,287.00 | 5.50 | 12,088.00 | 5.50 | 12,478.00 | 5.50 | 12,428.00 | 5.50 | 12,428.00 |
| B0-365A** | 19 mm | PER M.T. | 5.50 | 12,319.00 | 5.50 | 12,297.00 | 5.50 | 12,115.00 | 5.50 | 12,523.00 | 5.50 | 12,444.00 | 5.50 | 12,444.00 |
| B0-366*** | 19 mm | PER M.T. | - | - | - | - | - | - | - | - | - | - | - | - |

- * Binder for B0-365 is 15% cut-back with Bitumen 60/70 penetration grade; 19mm Aggregate
** Binder for B0-365A is 16% cut-back with Bitumen 60/70 penetration grade; 12.5 Aggregate
*** Binder for B0-366 is Emulsion CSS-1

ANNEX I

**EX-PLANT BASIC PRICES OF ASPHALT CONCRETE MATERIALS PRODUCED AT MIXING PLANTS
LOCATED IN THE DISTRICTS : HSR-2022**

- NOTE:** 1. TRANSPORT COST OF ALL RAW MATERIALS AND ROYALTY INCLUDED IN THE GIVEN PRICES.
2. PRICES FROM THE ASPHALT CONCRETE MIXING PLANT CLOSEST TO THE WORK SITE, WHICH IS ABLE TO SUPPLY THE REQUIRED TYPE (HOT/COLD) SHALL BE CONSIDERED.
3. ADD PREMIX TRANSPORT FROM MIXING PLANT TO THE WORK SITE, SEPARATELY
4. BINDER % OF B0-361A, B0-362, B0-362A AND B0-365 ARE BY TOTAL MIX WEIGHT AND BINDER % OF B0-366 IS BY TOTAL WEIGHT OF AGGREGATE

| DISTRICT | | | PRICE : EX-PLANT COST RS. PER M.Ton | | | | | | | | | | | | | |
|------------------|-----------|----------|-------------------------------------|-----------|----------|-----------|------------|-----------|------------|-----------|----------|-----------|------------|-----------|----------|-----------|
| | | | KANDY | | MATALE | | NUWARAEIYA | | KURUNEGALA | | PUTTALAM | | MONARAGALA | | BADULLA | |
| CODE | AGG. SIZE | UNIT | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE |
| B0-361 | 19 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-361A | 19 mm | PER M.T. | 4.50 | 11,295.00 | 4.50 | 11,434.00 | 4.50 | 11,261.00 | 4.50 | 11,267.00 | 4.50 | 11,211.00 | 4.50 | 11,293.00 | 4.50 | 11,616.00 |
| B0-362 | 37.5 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-362A | 19 mm | PER M.T. | 4.10 | 10,725.00 | 4.10 | 10,878.00 | 4.10 | 10,682.00 | 4.10 | 10,674.00 | 4.10 | 10,616.00 | 4.10 | 10,701.00 | 4.10 | 11,092.00 |
| B0-365 * | 19 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-365A** | 19 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-366*** | 19 mm | PER M.T. | 6.67 | 10,226.00 | 6.67 | 10,333.00 | 6.67 | 10,188.00 | 6.67 | 10,647.00 | 6.67 | 10,598.00 | 6.67 | 10,214.00 | 6.67 | 10,510.00 |

- * Binder for B0-365 is 15% cut-back with Bitumen 60/70 penetration grade; 19mm Aggregate
** Binder for B0-365A is 16% cut-back with Bitumen 60/70 penetration grade; 12.5 Aggregate
*** Binder for B0-366 is Emulsion CSS-1

ANNEX I

**EX-PLANT BASIC PRICES OF ASPHALT CONCRETE MATERIALS PRODUCED AT MIXING PLANTS
LOCATED IN THE DISTRICTS : HSR-2022**

- NOTE:**
1. TRANSPORT COST OF ALL RAW MATERIALS AND ROYALTY INCLUDED IN THE GIVEN PRICES.
 2. PRICES FROM THE ASPHALT CONCRETE MIXING PLANT CLOSEST TO THE WORK SITE, WHICH IS ABLE TO SUPPLY THE REQUIRED TYPE (HOT/COLD) SHALL BE CONSIDERED.
 3. ADD PREMIX TRANSPORT FROM MIXING PLANT TO THE WORK SITE, SEPARATELY
 4. BINDER % OF B0-361A, B0-362, B0-362A AND B0-365 ARE BY TOTAL MIX WEIGHT AND BINDER % OF B0-366 IS BY TOTAL WEIGHT OF AGGREGATE

| | | | PRICE : EX-PLANT COST RS. PER M.Ton | | | | | | | |
|------------------|-----------|----------|-------------------------------------|-----------|-------------|-----------|------------|-----------|----------|-----------|
| DISTRICT | | | ANURADHAPURA | | POLONNARUWA | | RATHNAPURA | | KEGALLE | |
| CODE | AGG. SIZE | UNIT | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE | % BINDER | PRICE |
| B0-361 | 19 mm | PER M.T. | - | NIL | - | NIL | - | NIL | - | NIL |
| B0-361A | 19 mm | PER M.T. | 4.50 | 11,351.00 | 4.50 | 11,312.00 | 4.50 | 11,076.00 | 4.50 | 11,219.00 |
| B0-362 | 37.5 mm | PER M.T. | 3.50 | 9,906.00 | 3.50 | 9,874.00 | - | NIL | - | NIL |
| B0-362A | 19 mm | PER M.T. | 4.10 | 10,759.00 | 4.10 | 10,745.00 | 4.10 | 10,516.00 | 4.10 | 10,640.00 |
| B0-365 * | 19 mm | PER M.T. | 5.50 | 12,550.00 | 5.50 | 12,527.00 | - | NIL | - | NIL |
| B0-365A** | 19 mm | PER M.T. | 5.50 | 12,474.00 | 5.50 | 12,421.00 | - | NIL | - | NIL |
| B0-366*** | 19 mm | PER M.T. | 6.67 | 11,031.00 | 6.67 | 10,997.00 | - | NIL | - | NIL |

* Binder for B0-365 is 15% cut-back with Bitumen 60/70 penetration grade; 19mm Aggregate

** Binder for B0-365A is 16% cut-back with Bitumen 60/70 penetration grade; 12.5 Aggregate

*** Binder for B0-366 is Emulsion CSS-1

ANNEX I

**SPECIFICATIONS RELATED TO THE HSR ITEMS
HSR-2022**

1. EARTHWORKS:**a) Embankment Construction- SSCM section 304:**Type I material MDD \geq 1600kg/m³Type II material MDD \geq 1500kg/m³HSR items : **EW1-011, EW1-014****b) Soil for road shoulders and gravel surfacing- SSCM section 409 & 601:**

Table 1708-1

| Sieve size mm | Percentage passing |
|------------------|-----------------------|
| 37.5 | 100 |
| 20 | 77 -100 |
| 5 | 41 -100 |
| 2.36 | 30 - 80 |
| 0.6 | 18 - 50 |
| 0.075 | 05 - 25 |

Table 1708-2 - Consistency limits for road shoulder materials and gravel surfacings.

| Climatic Zone | LL | PI |
|---------------|------|--------|
| Wet zone | <55 | 4 -25 |
| Dry Zone | < 55 | 6 - 25 |

c) Sub Base :CBR \geq 20%LL \leq 40PI \leq 15HSR items : **EW1-001, EW1-013****2. Aggregates :****a) Single size aggregate bases - 50, 37.5, 19, & 12.5 mm - SSCM section 403 :**

Table 1701-4

| Sieve Size mm | Percentage passing | | | |
|------------------|--------------------|----------|----------|----------|
| | Nominal size in mm | | | |
| | 50 | 37.5 | 19 | 12.5 |
| 63 | 100 | - | - | - |
| 50 | 85 - 100 | 100 | - | - |
| 37.5 | 0 - 30 | 85 - 100 | - | - |
| 28 | 0 - 7 | 0 - 30 | 100 | - |
| 20 | 0 - 2 | 0 - 7 | 85 - 100 | 100 |
| 14 | - | 0 - 2 | 0 - 35 | 85 - 100 |
| 10 | - | - | 0 - 7 | 0 - 35 |
| 5 | - | - | - | 0 - 5 |
| 2.36 | - | - | 0 - 2 | 0 - 2 |

AIV \leq 30%FI \leq 35%HSR items : **M1-004, M1-007, M1-008, M1-009, A1-005 TO A1-012**

SPECIFICATIONS RELATED TO THE HSR ITEMS

HSR-2022

b) Water bound macadam and Dry bound macadam - SSCM section 404 :
(50 or 63 mm and crusher fines)

Table 1701-6

| Sieve Size | Percentage passing | | |
|------------|-------------------------------|----------|---------------|
| | Nominal max size of agg in mm | | Crusher fines |
| | 63 | 50 | |
| mm | | | |
| 75 | 100 | - | - |
| 63 | 90 - 100 | 100.0 | - |
| 50 | 30 - 70 | 90 - 100 | - |
| 37.5 | 0 - 15 | 30 - 70 | - |
| 28 | - | 0 - 15 | - |
| 20 | 0 - 5 | - | - |
| 14 | - | 0 - 5 | - |
| 10 | - | - | 100.0 |
| 5 | - | - | 85 - 100 |
| 0.150 | - | - | 10 - 30 |

AIV <= 30%

FI <= 35%

HSR items : M1-010, M1-011

c) Penetration macadam base - SSCM section 406 :

Table 1701-7

| Sieve Size | Percentage passing | | | |
|------------|--------------------|-------|-------|-------|
| | Nominal size in mm | | | |
| | 50 | 37.5 | 20 | 14 |
| mm | | | | |
| 63 | 100 | - | - | - |
| 50 | - | 100 | - | - |
| 37.5 | 50-73 | - | - | - |
| 28 | - | 46-72 | 100 | - |
| 20 | 7-26 | - | 52-68 | 100 |
| 14 | - | 7-27 | - | 63-88 |
| 10 | - | - | 7-25 | - |
| 5 | - | - | - | 6-35 |
| 2.36 | 0-3 | 0-3 | 0-3 | 0-3 |
| 1.18 | - | - | - | - |

AIV <= 30%

FI <= 35%

HSR items : S1-037, S1-038

d) Dense Graded Aggregate Bases : SSCM section 405

(ABC construction)

Table 1701-5

| Sieve Size | Percentage passing | | |
|------------|--------------------|-------|--------|
| | Nominal size in mm | | |
| | 37.5 | 28 | 20 |
| mm | | | |
| 50 | 100 | - | - |
| 37.5 | 95-100 | 100 | - |
| 28 | - | - | 100 |
| 20 | 60-80 | 70-85 | 90-100 |
| 10 | 40-60 | 50-65 | 60-75 |
| 5 | 25-40 | 35-55 | 40-60 |
| 2.36 | 15-30 | 25-40 | 30-45 |
| 0.425 | 7-19 | 12-24 | 13-27 |
| 0.75 | 5-12 | 5-12 | 5-12 |

AIV <= 30%

FI <= 35%

CBR >=80%

HSR items : M1-012, M1-013

**SPECIFICATIONS RELATED TO THE HSR ITEMS
HSR-2022**

e) Aggregate grading, binder content and thickness requirements - SSCM section 407 :

Table 407-1

| Mix Classification no. | 1 | 2 | 3 | 4 |
|---|---------------------------|-------------|--------------|-------------|
| Nominal maximum size of aggregate in mm | 37.5 | 37.5 | 19 | 19 |
| Course | Dense graded | Open graded | Dense graded | Open graded |
| Thickness mm - Max | 100 | 100 | 50 | 40 |
| - Min | 60 | 60 | 30 | 30 |
| Sieve size mm | Total % by weight passing | | | |
| 50 | 100 | 100 | - | - |
| 37.5 | 95 -100 | 95 -100 | - | - |
| 28 | 80-95 | 53-75 | 100 | 100 |
| 20 | - | - | 80-98 | 96-100 |
| 14.0 | 62-77 | 10-27 | - | 50-75 |
| 10.0 | - | - | 49-67 | 22-42 |
| 5.00 | - | - | 29-44 | - |
| 2.36 | 30 - 45 | 0 - 10 | 18-30 | 5 - 20 |
| 1.180 | - | - | 13-24 | 0-2 |
| 300 | - | - | 5-14 | - |
| Percent binder content by total weight of mix | 3.0 - 4.0 | 2.5 - 3.5 | 3.5-4.5 | 3.0 - 4.0 |

AIV <= 30%

FI <= 35%

HSR items : B0-362, S1-032

3 Surfacing :

a) Asphalt concrete - SSCM section 506 :

Table 506-1

| Mix Classification No. Course | Binder Course | Wearing Course Type - 1 | Wearing Course Type - 2 |
|---|--|-------------------------|-------------------------|
| Thickness mm - Max | 75 | 75 | 75 |
| Min | 35 | 35 | 35 |
| Sieve size mm | Total % by weight passing including filler if used | | |
| 28 | 100 | 100 | - |
| 20 | 90-100 | 85-100 | 100 |
| 14.00 | - | - | 82-92 |
| 10.0 | 56-82 | 66-94 | 61-81 |
| 5.00 | 36-58 | 46-74 | 41-66 |
| 2.36 | 21-38 | 35-58 | 27-48 |
| 1.18 | 15-32 | 26-48 | 20-40 |
| 0.600 | 10-26 | 18 - 38 | 15-35 |
| 0.300 | 6-20 | 11-28 | 10-25 |
| 0.150 | 3-13 | 07-20 | 7-17 |
| 0.075 | 1-7 | 3-12 | 5-9 |
| Percent binder content by total weight of mix | 3.5 - 4.5 | 4.0-6.5 | 4.0-6.0 |

AIV <= 30%

FI <= 35%

LAAV <= 40%

HSR items : B0-361, S1-031, B0-362A

SPECIFICATIONS RELATED TO THE HSR ITEMS

HSR-2022

b) Seal Coat treatments (Surface dressing) - SSCM section 505 :

Table 1701-8

| Sieve Size mm | Percentage passing Nominal size in mm | | | |
|------------------|--|----------|----------|----------|
| | 19 | 12.5 | 9.5 | 6.3 |
| 25 | 100 | - | - | - |
| 19 | 85 - 100 | 100 | - | - |
| 12.5 | 0 - 25 | 85 - 100 | 100 | - |
| 9.5 | 0 - 7 | 0 - 25 | 85 - 100 | 100 |
| 6.3 | - | - | 0 - 25 | 85 - 100 |
| 4.75 | - | 0 - 7 | 0 - 10 | - |
| 2.36 | 0 - 2 | 0 - 2 | 0 - 2 | 0 - 10 |
| 0.075 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 | 0 - 0.5 |

AIV <= 30%

FI <= 35%

LAAV <= 40%

HSR items : S1-003, S1-004, S1-005, S1-006, S1-029, S1-030

c) Cold mix surfacings - SSCM section 507 :

Table 507.1

| Grading type Nominal max size of aggregate | Dense graded | | Open graded | |
|--|------------------------------------|-----------|-------------|-----------|
| | 19 mm | 12.5 mm | 19 mm | 12.5 mm |
| Sieve size mm | Total percentage passing by weight | | | |
| 25 | 100 | - | 100 | - |
| 19 | 90 - 100 | 100 | 90 - 100 | 100 |
| 12.5 | - | 90 - 100 | 60 - 80 | 85 - 100 |
| 9.5 | 56 - 80 | - | - | - |
| 4.75 | 35 - 65 | 44 - 74 | 18 - 35 | 35 - 50 |
| 2.36 | 23 - 49 | 28 - 56 | - | 15 - 30 |
| 0.300 | 05 - 20 | 05 - 22 | - | - |
| 0.075 | 0 - 05 | 0 - 08 | 0 - 03 | 0 - 03 |
| Percent binder as % of wgt of Aggregate | | | | |
| (a) Cutback Bitumen | 4.5 - 5.5 | 5.0 - 6.0 | 4.5 - 5.0 | 4.5 - 5.0 |
| (b) Emulsion | 5.0 - 6.0 | 5.5 - 6.5 | 4.5 - 5.5 | 5.0 - 6.0 |

AIV <= 30%

FI <= 35%

LAAV < 40%

HSR items : B0-365, B0-366, S1-033, S1-033A

4. Binder for Surface applications

a) Prime coat - CSS-1 emulsion - SSCM section 1702.3 : shall conform to ASTM D2397-98

Cutback bitumen(20-45%) or MC-30, MC-70 or MC-250 or MC-800 : SSCM section 1702.2

HSR items : B0-352, S1-022, S1- 023, S1-024, S1-025

b) Sand seal - CRS-1 emulsion - SSCM section 1702.3 : HSR items : B0-353, S1-011, S1-012, S1-013,
Tack coat - shall conform to ASTM D2397-98 S1-014, S1-027, S1-035, S1-036

Cutback bitumen (8 - 12%) - SSCM section 1702.2

Bitumen 80 - 100 penetration grade bitumen - SSCM section 1702.1

c) Surface dressing - CRS-2 emulsion - SSCM section 1702.3

Residue on distillation minimum 65% shall conform to ASTM D2397-98

Viscosity min. 100 Saybolt furol seconds

HSR items : B0-354, S1-029, S1-030

| Formula for Earth excavation using machinery for HSR-2022 | | | | | | | | | | | |
|---|---|-------------|-------------------|----------|----------|---------------------|----------|----------|----------|-----------|-----------|
| Dozer HP and Blade Dimensions received from DGM(mech)/RC&DC | | | | | | | | | | | |
| A. Excavation : | | Unit | | | | | | | | | |
| i | Dozer type : | | | D4 - H | | D4 - E | | D7 - G | | D8 -10 | |
| | Horse power | HP | | 95 | | 80 | | 200 | | 300 | |
| | Hire charge for Dozer | Rs. | per Hour (wet) | 5,141.73 | 5,141.73 | 5,141.73 | 5,141.73 | 9,221.69 | 9,221.69 | 13,000.31 | 13,000.31 |
| ii Cutting Blade Details : | | | | | | | | | | | |
| | Length of Load(Blade length) | L | m | 2.636 | 2.636 | 3.12 | 3.12 | 4.27 | 4.27 | 4.965 | 4.965 |
| | Blade height | H | m | 1.085 | 1.085 | 1 | 1 | 0.97 | 0.97 | 1.174 | 1.174 |
| iii Assumptions : | | | | | | | | | | | |
| | Slope of cut * | S | ratio | 2 :1 | | | | | | | |
| | Width of Load | W=2XH | m | 2.17 | 2.17 | 2 | 2 | 1.94 | 1.94 | 2.348 | 2.348 |
| | Haul distance | D | m | 30 | 60 | 30 | 60 | 30 | 60 | 30 | 60 |
| | Average Forward speed | | km/h | 2.25 | 2.25 | 2.25 | 2.25 | 2.70 | 2.70 | 2.70 | 2.70 |
| | Average time for forward push | =A | minutes | 0.8 | 1.6 | 0.8 | 1.6 | 0.67 | 1.33 | 0.67 | 1.33 |
| | Average Reverse speed | | km/h | 2.85 | 2.85 | 3.50 | 3.50 | 3.50 | 3.50 | 2.50 | 2.50 |
| | Average time for return | =B | minutes | 0.63 | 1.26 | 0.51 | 1.03 | 0.51 | 1.03 | 0.72 | 1.44 |
| | Ave. time loading and changing Gears | =C | minutes per cycle | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| | Efficiency of Operater | E | % | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| | Break for rest in each hour | R | minutes | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | Average cycle time for Pushing, | | | | | | | | | | |
| | Returning, Changing gears etc. | T=(A+B+C) | minutes | 1.78 | 3.21 | 1.66 | 2.98 | 1.53 | 2.71 | 1.74 | 3.12 |
| | Bulking factor | B | % | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| iv Moldboard capacity : | | | | | | | | | | | |
| | Volume(Bank) of Cut (LxHxW)/S | | cu.m(bank) | 3.10 | 3.10 | 3.12 | 3.12 | 4.02 | 4.02 | 6.84 | 6.84 |
| v | Net loose volume per cycle | V | cu.m(loose) | 3.57 | 3.57 | 3.59 | 3.59 | 4.62 | 4.62 | 7.87 | 7.87 |
| | Probable cycle output per hour | | | | | | | | | | |
| | Cycle output per Hour C=((60-R)/T)xV/100 | | cycles/Hr | 21.07 | 11.68 | 22.59 | 12.58 | 24.51 | 13.84 | 21.55 | 12.02 |
| vi | Net loose volume per hour | v=CxV | cu.m(bulked) | 75.22 | 41.7 | 81.1 | 45.16 | 113.24 | 63.94 | 169.6 | 94.6 |
| | Net loose volume per day (5 hours) | | | 376.1 | 208.5 | 405.5 | 225.8 | 566.2 | 319.7 | 848 | 473 |
| | Considering the time for Servicing, | | | 427.85 | | | | | | | |
| | Fuelling & Cleaning as | | hours/day | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Working time | t | hours/day | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | Output per 6 Hours | =txV | cu.m per day | 451.32 | 250.2 | 486.6 | 270.96 | 679.44 | 383.64 | 1017.6 | 567.6 |
| vii | Average cost per Cu.m Loose | | Rs. | 68.36 | 123.30 | 63.40 | 113.86 | 81.43 | 144.22 | 76.65 | 137.42 |
| | Average for each dozer | | | 95.83 | | 88.63 | | 112.83 | | 107.04 | |
| B. Loading : | | | | | | | | | | | |
| i | Hire Charge for wheel loader 2.7 cu.m | | hour(wet) | 7,117.62 | | B0-124 | | | | | |
| | One way haul distance up to : | d | m | 10 | | | | | | | |
| | The Maximum time for loading cycle | t | minutes | 1.2 | | | | | | | |
| | Capacity of loader bucket | v | cu.m | 2.7 | | | | | | | |
| | Assume working time per hour | T | minutes | 50 | | | | | | | |
| | Assume loading bucket efficiency | E | | 0.8 | | | | | | | |
| | Assume machine operator efficiency | e | | 0.75 | | | | | | | |
| ii | No of loads per hour | n | | 41.66667 | | [(T/t) | | | | | |
| iii | Loading capacity per hour | V | cu.m | 67.5 | | [v x n x e x E] | | | | | |
| | Assume 5 hours working for loader due to | | | | | | | | | | |
| | Queuing and delays in transport vehicles | | hours | 5 | | | | | | | |
| iv | Out put per day (Loose) | | cu.m | 337.5 | | | | | | | |
| v | Cost of loading per Cu.m (Loose) | | Rs. | 105.45 | | per cu.m | | | | | |
| | Sub Total cost of excavation & loading | | | 201.28 | | 194.07 | | 218.28 | | 212.48 | |
| C. For excavation of Base, Sub Base & Shoulder materials : | | | | | | | | | | | |
| | Allow for borrow pit establishment and | | | | | | | | | | |
| | site maintenance % | | 25 | | | | | | | | |
| D. For excavation of Embankment fill materials : | | | | | | | | | | | |
| | Allow for borrow pit establishment and | | | | | | | | | | |
| | site maintenance % | | 10 | | | | | | | | |
| Total cost of excavation and supply of Soil for | | | | | | | | | | | |
| | Sub Bases, Bases and Shoulders | Cu.m(loose) | | 251.59 | | 242.59 | | 272.84 | | 265.61 | |
| | Embankment fill material | Cu.m(loose) | | 221.40 | | 213.48 | | 240.10 | | 233.73 | |
| | Sub Bases, Bases and Shoulders, Average | total cost | | 258.16 | per cu.m | Excluding overheads | | | | | |
| | Embankment fill material, Average | total cost | | 227.18 | per cu.m | Excluding overheads | | | | | |
| | Say, For Bases, Sub Bases and Shoulders | Rate Rs. | | 258.20 | per cu.m | 730.59 | per cube | B0-201 | | | |
| | Say, For Embankment filling | Rate Rs. | | 227.20 | per cu.m | 642.92 | per cube | B0-202 | | | |
| | | | | | | | | | | | |
| | | with 28% | | 330.50 | per cu.m | 935.30 | per cube | | | | |
| | | | | 290.82 | per cu.m | 823.01 | per cube | | | | |

Cu.m Transport cost on KM distance involving small quantities

| | |
|--|--------|
| Cost of Transport from 0.5 km up to 1 km pe (T1-003) | 291.05 |
| Rate for each subsequent km from 1 km up i (T1-003A) | 45.30 |
| Rate for each subsequent km beyond 8th km (T1-003B) | 30.40 |

| Distance/km | Cost/Cu.m/Trip Rs. | Distance/km | Cost/Cu.m/Trip Rs. |
|-------------|-----------------------|-------------|-----------------------|
| 0.5 up to 1 | 291.05 | 43 | 1,672.15 |
| 2 | 336.35 | 44 | 1,702.55 |
| 3 | 381.65 | 45 | 1,732.95 |
| 4 | 426.95 | 46 | 1,763.35 |
| 5 | 472.25 | 47 | 1,793.75 |
| 6 | 517.55 | 48 | 1,824.15 |
| 7 | 562.85 | 49 | 1,854.55 |
| 8 | 608.15 | 50 | 1,884.95 |
| 9 | 638.55 | 51 | 1,915.35 |
| 10 | 668.95 | 52 | 1,945.75 |
| 11 | 699.35 | 54 | 2,006.55 |
| 12 | 729.75 | 56 | 2,067.35 |
| 13 | 760.15 | 58 | 2,128.15 |
| 14 | 790.55 | 60 | 2,188.95 |
| 15 | 820.95 | 62 | 2,249.75 |
| 16 | 851.35 | 64 | 2,310.55 |
| 17 | 881.75 | 66 | 2,371.35 |
| 18 | 912.15 | 68 | 2,432.15 |
| 19 | 942.55 | 70 | 2,492.95 |
| 20 | 972.95 | 72 | 2,553.75 |
| 21 | 1,003.35 | 74 | 2,614.55 |
| 22 | 1,033.75 | 76 | 2,675.35 |
| 23 | 1,064.15 | 78 | 2,736.15 |
| 24 | 1,094.55 | 80 | 2,796.95 |
| 25 | 1,124.95 | 82 | 2,857.75 |
| 26 | 1,155.35 | 84 | 2,918.55 |
| 27 | 1,185.75 | 86 | 2,979.35 |
| 28 | 1,216.15 | 88 | 3,040.15 |
| 29 | 1,246.55 | 90 | 3,100.95 |
| 30 | 1,276.95 | 92 | 3,161.75 |
| 31 | 1,307.35 | 94 | 3,222.55 |
| 32 | 1,337.75 | 96 | 3,283.35 |
| 33 | 1,368.15 | 98 | 3,344.15 |
| 34 | 1,398.55 | 100 | 3,404.95 |
| 35 | 1,428.95 | 102 | 3,465.75 |
| 36 | 1,459.35 | | |
| 37 | 1,489.75 | | |
| 38 | 1,520.15 | | |
| 39 | 1,550.55 | | |
| 40 | 1,580.95 | | |
| 41 | 1,611.35 | | |
| 42 | 1,641.75 | | |

Transport and Paving of Interlocking Blocks-2022

1. **Transport of Interlocking Concrete Paving Block per km transport (short distance - within the province)**

Transport cost (Rs.) . = 0.15 per Block/ km

2. **Paving of Interlocking Concrete Blocks. inclusive 50 mm sand bedding and compaction. Supply and transport of Blocks and bedding material to be paid separately.**
(Depending on the design, Construction of side kerbs and ABC layer and sub grade preparation to be paid separately.)

Total cost of paving of interlocking blocks excluding the cost of side kerbs (Rs.) . = 281.25 per Sq.m

HSR - 2022
Engineering Division
Ministry of Highways