	" திடிக்கு 67 சுது கூறைக் குறை காத காதுகது" குடுதான தெயலாளர் அலுவலகம் - மேல் மாகாணம் OFFICE OF THE CHIEF SECRETARY - WESTERN PROVINCE	51.51 150 9001
	204, ඩෙන්සිල් කොබබසකඩුව මාවත, බත්තරමුල්ල. 204. ඩෙන්න්බ බොටමයක්වන ගැනத்නத. பத்தரமுல்ல. 204, Denzil Kobbekaduwa Mawatha, Battaramulla. ලබාහ ලෝකම් ලෝකමන් (බළුකොටෙයුරු Telephone - 011 - 2092599 කොටෙයුරු දී	SLAB
	Gauss cause and a set a	ISO/IEC: 17921 QMS-001-01
இசுவீ மேலை எனது இலக்கம் My No.	CSWP/ENG-CON/5-2/FI/1 彼母辺 彼の母の 生態強 微敏を防 Your No. 2000 金融資 Your No. 2000 金融資 りの中のの 文書のの 公式	2020.09.09

පළාත් ගොඩනැහිලි අධාාක්ෂ/ පළාත් වාරිමාර්ග අධාාක්ෂ,

සහපති, පළාත්බද මාර්ග සංවර්ධන අධිකාරිය(බ.ප.),

පළාත් පාලන කොමසාරිස් සහ සියලුම පළාත් පාලන ආයතන ලේකම්වරුන්,

බස්නාහිර පළාතේ සියලුම පුාදේශීය ලේකම්වරුන්,

සියලුම පුාදේශීය ඉංජිනේරුවරුන්

<u>මාර්ග ගාස්තු උපලේඛණය -2020/2021</u>

2020.09.01 දින සිට නැවත දැනුම් දෙන තුරු ඉදිකිරීම් ඇස්තමේන්තු පිළියෙල කර ගැනීමට උපයෝගී කරගත යුතු මාර්ග ගාස්තු උපලේඛනයේ පිටපතක් මේ සමහ එවමි.

02. මෙම රේට් මිල ගණන් පිළියෙල කිරීමේදී එකතු කළ අගය මත බදු (VAT) ,රේට් මිල ගණන් වලට අඩංගු කර නැත. ඇස්තමේන්තු පිළියෙල කිරීමේදී එකතු කල අගය මත බදු ,පුමාණ බිල්පතේ මුළු එකතුවට අමතර මුදලක් වශයෙන් එකතු කළ යුතුය.

03. ලේඛනයේ සඳහන් රේට් මිල ගණන් සකසා ඇත්තේ බස්නාහිර පළාතේ දිස්තික් තුනම ආවරණය වන පරිදි හා විවෘත වෙළඳපලේ පවතින මූලික දුවාා මිල ගණන් වල සාමානාා අගයන් පදනම් කර ගැනීමෙනි.කෙසේ වුවද,මෙහි සඳහන් දුවාා වල මිල හා ඔබගේ බල පුදේශය තුල පවතින මිල ගණන් අතර සැලකිය යුතු වෙනස්කම් තිබේනම් ,ඒ පිළිබදව මා වෙත දැන්වීමට පියවර ගන්න.එවැනි විශේෂ අවස්ථාවකදී යම් බල පුදේශයකට පමණක් සීමාවන පරිදි මිල ගණන් සංශෝධනය කිරීමට පියවර ගත හැක.

04. ඇස්තමේන්තු පිළියෙල කිරීමේදී භාවිතා කිරීම සඳහා මෙම ලේඛනයේ පිටපත් අදාළ කාර්මික නිලධාරීන් වෙත කරුණාකර නිකුත් කරන්න.

05. රසායනාගාර පරීක්ෂණ සඳහා සඳහන් කර ඇති රේට් මිල ගණන් ඇස්තමේන්තු සැකසීමේදී පිරිචිතරයේ සඳහන් පරීක්ෂණ වලට අමතරව අවශා වන්නේ නම් පමණක් පුමාණ බිල්පතට ඇතුළු කිරීමට සනිටුහන් කර

න්තෙරපත සුධාන ලේකම් බාල්ට වැනුන මාශකෝ	esiyes ⊜itaraii Administration	606 ல குழகு ஆண்டி மற்றம் பரிற்சி Personal & Training	ффъ 1890 Firanzo	கைஞ்ஜ® திட்டமிடம் Planning	ඉංජිගේරු Gurghubuo) Enginaering	hádw gurðnó danu dynn 1hund amdarúaraj Chieffaterad daditer	
Deputy Chief Secretary	Tel : 0112092606 ?ax : 0112092609 dcsadmin@cs.wpc.gov.ik	Tel : 0112092631 Fax : 0112092647 dapt@cs.wpc.goz.lk	Tel: 0112092640 Fax: 0112092636 dcsfnanca@cs.wpc.gov.lk	Tel : 0112092532 Fax : 0112092533 diplan@cs.wpc.gov.lk	Tel : 0112092501 Fax : 0112092505 dss@eng.wpc.gov.lk	Tel : 0112092628 Fax : 0112092625 clagcs.wpc.gov.lk	

ගත යුතුය. කිසිදු හේතුවක් නිසා පිරිචිතරයේ සඳහන් අවම වශයෙන් සිදු කළ යුතු රසායනාගාර පරීක්ෂණ වෙනුවෙන් ගෙවීම් කිරීම සිදු නොකළ යුතු වේ.

06. මෙම රේට් මිල ගණන් පිළියෙල කර ඇත්තේ මාර්ග දුවා වල ගුණාත්මක බව (material quality) සහ ඉදිකිරීම නිමාව (Workmanship) ශ්‍රී ලංකා (SLS) ,බ්තානා (BS) සහ (A.S.T.M) පුමිතීන්ට අනුකූලව සහ ICTAD පිරිවිතර SCA/3/1,SCA/3/2,SCA/3/3, SCA/4(VOL–I),SCA/4(VOL - II), SCA/5,SCA/8 යන පුකාශනවල සඳහන් ගුණාංගයන් සපුරාලන බව උපකල්පනය කරමිනි. ඒ අනුව මෙම මිල ගණන් උපයෝගී කර ගැනීමේදී ඉහත පුකාශනවල අඩංගු පුමිතීන්ට අනුකූලව ඉදිකිරීම් සිදුවිය යුතු බව අවධාරණය කරනු කැමැත්තෙමි.

ඒ.ඒ.පී.එස්.කේ.කරුණාරත්න,

නියෝජාා පුධාන ලේකම් (ඉංජිනේරු),

බස්නාහිර පලාත.

පිටපත්:

- 1. ප්‍රධාන ලේකම් (බ.ප.)
 : කරු.දැ.ස.

 2. බස්නාහිර පලාතේ සියලුම අමාතාහංශ ලේකම්වරුන්
 : කරු.දැ.ස.

 3. අධාක්ෂ (අභාන්තර විගණන)
 : කරු.දැ.ස.

 4. විගණන අධිකාරි
 : කරු.දැ.ස.
- **ඒ. ඒ. පී. එස්. කේ. කරුණාරත්න** මධාන ලේකම් (ඉංජිනේරු) කම් කාර්යාලය (බ.ප.) නාල, අංක 204, යල් කොබබෑකඩුව මාවත, නාතරමුල්ල.

HIGH WAY SCHEDULE OF RATES -2020/2021

ALL RATES ARE COMMON TO COLOMBO, GAMPAHA & KALUTARA DISTRICTS (Rates effective from 01.09.2020 until further notice)



PROVINCIAL ENGINEERING ORGANIZATION WESTERN PROVINCE - PROVINCIAL COUNCIL

Issue No.01

Rev.No.00

DOI: 2020-09-01

HSR Summary - 2020/2021 (Western Province) <u>CONTENTS</u>

		CONTENTS	DACE
1.	GENERAL NOTES		PAGE I-XII
2.	BASIC RATES		1 -9
3.	SECTION - I	TRANSPORT	10-11
4.	SECTION - II	ROADWAY/ FOUNDATION/ TRENCH EXCAVATION	12-13
5.	SECTION - III	AGGREGATE/ RUBBLE PILING INCLUDING LOADING	14
6.	SECTION - IV	APPROVED EARTH FILLING AND COMPACTION	15
7.	SECTION - V	RUBBLE PITCHING/ PAVING	16
8.	SECTION - VI	AGGREGATE SPREADING AND COMPACTION	17-18
9.	SECTION - VII	ROAD SURFACE TREATMENT	19-22
10.	SECTION - VIII	ROAD SURFACE MAINTENANCE	23
11.	SECTION - IX	ROAD SIDE DRAINAGE SYSTEM	24
12.	SECTION - X	BRIDGES, CULVERTS AND RETAINING WALLS ETC.	25-31
13.	SECTION - XI	KILOMETER POSTS AND GUARD STONES	32
14.	SECTION - XII	NOTICE BOARDS AND SIGN BOARDS	33
15.	SECTION -XIII	MISCELLANEOUS	34-40
16.	SECTION - XIV	SURVEYING	41
17.	SECTION - XV	LABORATORY TESTING	42-44
18.	ANNEX - II	SPECIFICATIONS RELATED TO HSR ITEMS	
19.	ANNEX - IV	TABLE OF TRANSPORT COST PER CU.M/KM(Ref.General Notes 23.2)	
20.	ANNEX - V	ANALYSIS FOR LABOUR RATES	
21.	ANNEX - VII	TABLE OF HIRE CHARGES FOR MACHINERY AND EQUIPMENT (PRDA)	

CONFIDENTIAL

PROVINCIAL ROAD DEVELOPMENT AUTHORITY – HSR ANALYSIS (METRIC) <u>GENERAL NOTES</u>

- **1.** This **Highway Schedule of Rates (HSR)** becomes operative from **01.09.2020.** 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 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.R.R. 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 <u>exceptional cases</u>, Sk "A" labour at higher rates than that given in this schedule may be engaged on <u>adhoc basis</u> with the GM/PRDA' s prior approval only. See Annex –V for net daily wages payable to labour.
- **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 SLS.

- **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.R.R. and day works items** shall be approved by the DGM on the CE's recommendation , subjected to the following conditions :
 - (a) Any S.S.R. where the amount of respective B.O.Q. item does not exceed **Rs. 100,000/-**, irrespective of whether the S.S.R. is based on HSR, or not.
 - (b) All the **S.S.R.R**. 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 Chief Secretary 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 3cu.m, unless otherwise directed. Weigh batch mixers shall be used for all concrete specified on Grade 30 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 PRDA schedule of hire charges for Machinery & Equipment given as annex-VII(Board approved rates). 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-2020 prices prepared by the Chief Secretaries Office, 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 <u>recovery cost.</u>**

18. <u>Procurement:</u>

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.**

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 **EE/CE** 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 Executive Engineer/Chief Engineer. 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 DGM.

All such works, supplies, services or sub-contracts carried out by order of **Executive Engineer/Chief Engineer** 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 Chief Engineer/DGM/GM 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 Chief Engineer 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 Executive Engineer 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 2019** 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.

22. 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, DGM/GM 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/DGM/GM. 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 coded T1-006 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 supply where the estimated quantity **exceeds 200 cu.m** (for the whole project,) the rates given under **BO-201**, **BO-202 or item codes EW1-013 & EW1-014** shall be adopted. Similarly for Roadway **Excavations with quantities more than 200cu.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 GM under recommendation of CE/DGM.

2. The rates include for excavation and loading or depositing up to 25meters. Transport of excavated material more than 25meters shall be paid separately unless otherwise directed. In case of foundation excavation for structures, backfilling and compaction to be considered separately unless otherwise specified.

- 3. Additional excavation required for working space shall be decided by the Engineer and shall be paid at the same rate applicable to the item.
- 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.R.R 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.R.R. 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. <u>Aggregate/rubble</u> (including loading & piling)

Note:

- **1.** Except where other wise 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 DGM, followed by the CE's recommendation.
- **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 CE/DGM 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 GM, 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, 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 DGM.

- 5. Transport of water beyond 25 Meters shall be paid separately.
- 6. (i) The normal out put 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 1.5meters, the output of earth compaction using 8-10ton Roller shall be considered as 50 cubic meters per day.

- Use of small compaction equipment shall be allowed only if the space is restricted for operating 10- ton Road Rollers or equivalent.
- 27. **<u>Rubble paving</u>** (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:
 - (1) for pitch paving 225 mm thick 0.26 cu. m. of rubble per square Meter.
 - (11) for pitch paving 150 mm thick 0.17 cu. m. of rubble per square Meter.
 - (111) for flat paving 225 mm thick 0.21 cu. m. rubble per square Meter.
 - (1V) for flat paving 150 mm thick 0.15 cu. m. rubble per 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:
 - (1) 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.

(11) For construction of new bases and for edge correction 100sq.m. shall be compacted with 8.5 – 10.0cu.m. of new 50mm aggregate spread in two layers to 100mm loose thickness.

2. Edge correction shall be 0.6 m (approx.) in width and edge strengthening shall be 1.2m (approx.) in width, using 100, 50 & 19mm aggregate conforming to S.S.C.M. 1103.

- 3. <u>Strip metaling shall be considered only when the surface sections to be metaled are in narrow strips less than 1.2m in width.</u>
- 4. For construction of new bases, where aggregate compaction of the 19mm and 50mm is required 1.0cu.m of 19mm aggregate is adequate for compacting with 10cu.m. of 50mm.

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, 9.9cu.m per day.

6. The average rate of travelling of Oil/Diesel Roller is 20km 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 0.3m 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.

VII

11. Transport of water beyond 25meters shall be paid separately.

29. <u>Road surface treatment</u> (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 16km shall be paid for separately. One cu.m. of binding material is allowable for 125sq.m of Bitumen surfacing.
- 3. The rates include the cost of internal transport of Bitumen up to 16km from contractors yard.
- 4. Approved sand shall be used for blinding.
- **5.** The aggregate quantities and binder required per sqr.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 GM 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 **BO-361A,BO-362 and BO-362A** have been worked out taking 60/70 Penetration grade bitumen as the binder. For item **BO-365**, it is worked out with Cut-Back of 60/70 penetration grade Bitumen and for item **BO-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.

Different Bitumen penetration grades and or different binder contents may be specified for the asphalt concrete mixers 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 Course2.450m.t.per cu.m.

b. Binder Course 2.430m.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 **1.48m.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. <u>Patch sealing</u> : (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.

31. <u>Road side and drainage systems (</u>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 1meter, day works rates shall be adopted.
- 4. Drains should be cleared before commencing any types of surfacing (S.S.C.M. 501 507).

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

Note :

1. <u>Concrete Work</u>

- 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 mixers, mortars & concretes.
- **3.** The rates include the cost of transport up to 25meters on level ground in the relevant items. Any vertical transport required in excess of first 1.5meters 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 1:2¹/₂:4 by volume. Cement concrete 1:3:6 (37.5mm) and cement concrete 1:4:8 (50mm) may continue to be batched by volume in the specified nominal proportions; cement should be by bags of 50kg. 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	Propotion (Norminal Mix) or Grade	Yield Unit	Cement in 50Kg	Sand (Cu.m)	Aggregate /Rubble (Cu.m)
1. Cement Concrete	G 40 (19mm)	Cu.m	9.87*	0.6*	0.91*
2. Cement Concrete	G 30(19mm)	Cu.m	8.17*	0.6*	0.9*
3. Cement Concrete	G 25(19mm)	Cu.m	6.35*	0.6*	0.9*
4. Cement Concrete	G25(37.5mm+19mm) 70% 30%	Cu.m	5.86*	0.6*	37.5=0.54* 19.0=0.24*
5. Cement Concrete	G20(19mm)	Cu.m	6.04*	0.53*	0.79*
6. Cement Concrete	1:1 ½:3 (19mm)	Cu.m	8.12	0.60	0.91
7. Cement Concrete	1:2:4 (19mm)	Cu.m	5.65	0.60	0.90
8. Cement Concrete	1:2:4 (37.5mm)	Cu.m	5.65	0.60	1.00
9. Cement Concrete	1:3:6 (19mm)	Cu.m	4.38	0.60	0.91
10. Cement Concrete	1:3:6 (37.5mm)	Cu.m	4.38	0.60	1.00
11. Cement Concrete	1:4:8 (50mm)	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 masonary 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 smoothening 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 CE/DGM.

8. <u>Ready mixed Concrete:</u>

Ready mix concrete shall be used only on the written approval of the GM/DGM 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 **50mm. thick compacted wearing surface**, the quantities of material required will be 3.5cu.m. 19mm to 3.2mm. Graded aggregate, 2.3cu.m. sand and 381 liters Bitumen and 91 liters of kerosene. If Emulsion is used , the quantity of material required is 500 liters of Emulsion and 273 liters of water.

11. Concrete pipe culverts (S.S.C.M. 1403)

- i. The diameter of pipes indicated refers to the internal diameter.
- ii. The rates included the cost of pipe, collars, rolling up to a distance of 25m & 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 a 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. <u>Maintenance of road signs and markings:</u> (S.S.C.M. 1501 – 1502)

All traffic signs, kerbs, parapets, guardrails, barricading and km 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 SE(Mat.)/DGM(Const.) 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. <u>Piece rates and allowances:</u>

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.

Rev.No.01

HIGHWAY SCHEDULE OF RATES - YEAR 2020/2021 WESTERN PROVINCE

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
	LABOUR RATES (BASIC)		
B0-001	Labour Skilled A (SK 'A')*	Day(8Hrs)	2,400.00
B0-002	Labour Skilled B (SK 'B')	Day(8Hrs)	2,100.00
B0-003	Labour Semi Skilled (S/SK)	Day(8Hrs)	2,100.00
B0-004	Labour Unskilled (U/SK)	Day(8Hrs)	1,900.00
NOTE*	For works under Force Account in Exceptional cases , Sk''A'' labour at higher rates than above may be engaged on adhoc basis with DGM/PRDA'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	100.00
B0-102	Concrete / asphalt mixer (400 liters)	Day	7,256.00
B0-103	Bitumen sprayer (Less Operator)	Day	110.00
B0-104	Water tank+50mm pump (Less Operator)	Day	1,253.00
B0-105 B0-106	Welding plant engine driven w/welder Porker vibrator (Less Operator)	Day	14,236.58
		Day	2,156.28
30-107	Plate Compactor(90 kg) (Less Operator)	Day	4,065.71
30-108	Vibrating rammer (60kg)(Less Operator)	Day	3,963.07
30-109	Vibrating roller (1/2-1 ton)	Day	6,865.13
30-110	Vibrating roller (smooth-10 tons)	Day	33,543.23
B0-111	Smooth/road roller (8-10 tons) static	Day	12,144.62
B0-112	Pneumatic road roller (8-10 tons)	hour	4,142.10
B0-113	Motor grader (65 HP)	Day	23,920.88
B0-114	Motor grader (120-140 HP)	Day	49,797.36
B0-115	Backhoe loader (JCB)	Day	25,577.04
B0-116	Wheel loader (1.4 cu.m)	Day	24,476.16
B0-116A	Wheel Loader (1.7 cu.m)	Day	29,366.24
30-117	Tractor & trailor (3 Ton)	Day	6,464.75
B0-118	Material Transport by Lorry /Tipper/ Dump truck (exceeding 10 km)	KM/Cu.m	26.18
B0-118A	Do-by hired Lorry /Tipper/ Dump truck (exceeding 10 km)	KM/Cu.m	24.53
B0-119	Do-by Lorry /Tipper/ Dump truck (for more than 3Km less than 10Km Distances)	KM/Cu.m	29.72
B0-119A	Do-by hired by Lorry /Tipper/ Dump truck (for more than 3Km less than 10Km Distances)	KM/Cu.m	27.88
30-120	Transport of premix by dump truck	KM/MT	18.89
30-120A	Do- Emulsion per 100 liters per 1Km	km /100ltr	3.79
B0-120B	Do- premix by hired dump truck	KM/MT	17.71
B0-121	Sand/chip spreader-propelled	Day	42,180.27
B0-121A	Sand/chip spreader-towed	Day	2,533.53
B0-122	Farm tractor & broom	Day	11,599.15
B0-123	Emulsion sprayer self prop.(4000 liters)	Day	26,495.56
B0-123	Wheel loader (2.7-3.1 cu.m)	Day	41,689.76

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-124A	Wheel loader (2.0-2.3 cu.m)	Day	36,454.80
B0-125	Lorry 3 ton (2.5cu.m)*	km	43.12
B0-126	Lorry 5 ton (3.5 cu.m)*	km	54.13
B0-127	Lorry 7 ton (4.5 cu.m)*	km	62.73
B0-128	Water bowser (6000 liters)	Day	10,000.00
B0-129	Asphalt paver (crawler)	hour	7,839.00
B0-129A	Asphalt paver (Wheel)	hour	8,724.90
B0-130	Tanker only (20000 liters)	hour	311.85
B0-130A	Low bed trailer 30 ton*	km	57.85
30-131	Prime mover old (for 20000 L tanker)	hour	3,727.22
B0-131A	Prime mover new (for 30 T trailer)Time Basis	hour	5,928.16
30-131B	Prime mover new (for 30 T trailer) Distance basis*	Km	269.46
30-132	Baby dumper .75 cu.m (Less Operator)	hour	1,257.71
30-133	Water pump 4"	hour	1,175.26
30-133A	Water pump 2" (less operator)	hour	269.19
30-134	Sludge pump 4"	hour	1,576.00
30-135	Vibrating Roller (6-7 tons) tandem	hour	2,585.83
30-136	Concrete mixer with Load Cell weigh batcher 14/10 *	Day	11,925.04
30-137	Trolley emulsion (less operator)	hour	114.77
30-138	Sprayer emulsion hand cart	hour	815.91
30-139	Road marker hand cart gas heater	hour	1,700.00
30-140	Bitumen distributor 750 liters	hour	1,682.80
30-141	Tank truck bitumen 10000 Ltr	hour	4,442.95
30-142	Crusher stone 40t/h	hour	11,493.26
30-143	Track drill crawler	hour	1,808.50
30-144	Compressor air 750 CFM	hour	6,656.18
30-145	Slurry sealing Machine	hour	13,399.51
30-146	Mobile crane 25 tons	hour	8,341.80
30-146A	Mobile crane 30 tons	hour	10,549.76
30-147	Asphalt plant 60T/h hot mix	hour	20,618.02
30-147A	Cold mix plant30T/h	hour	10,651.02
30-148	Lorry 10 Ton*	Km	98.66
30-149	Pick up truck 2 WD*	km	26.93
30-150	Farm tractor with water bowser	hour	808.46
30-151	Lorry 17 ton Self Loading (wet)*	km	173.15
30-152	Tractor with Emulsion Bowser	hour	818.76
30-153	Emulsion Tank Truck (8000litres)*	km	134.37
30-154	Dozer (Crawler Tractor)D-4 D-41(80-100Hp)	hour	4,571.07
30-155	Excavator Mobile	hour	6,760.51
B0-156	Air Compressor 250 CFM	hour	2,586.06

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-157	Hand held Breaker (Demolisher) (less operator)	Day	506.65
B0-158	Rock Drill Hand Held (Less Drill Steel)	Hour	296.17
B0-159	Truck Snooper 750kg(sky lift)	Hour	2,400.54
	* Cost Return trip not considered under this rate		
	SUPPLY OF SOIL FROM BORROW PITS INCLUDING LOADING.(FOR QUANTITIES MORE THAN 200CU.M.)		
	*SEE GENERAL NOTES FOR FURTHER DETAILS ON USING THIS RATE, ROYALTY IS INCLUDED		
B0-201	Approved soil type I & II for bases & shoulders	Cu.m	912.00
B0-202	Approved soil type I & II for embankments	Cu.m	612.00
	AGGREGATE & RUBBLE (EX-QUARRY-BASIC) INCLUDING BLASTING,PILING, LOADING)		
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	1,237.00
B0-302	(150mm -225mm) rubble piled	Cu.m	1,952.47
	MANUAL PRODUCTION		
B0-303	Manually Production (100mm) Aggregate	Cu.m	1,448.76
30-304	Manually Production (75mm) Aggregate	Cu.m	1,510.60
30-305	Manually Production (50mm) Aggregate	Cu.m	1,572.44
	PLANT PRODUCTION		
B0-308A	Crusher Production (19mm) Aggregate	Cu.m	2,049.00
30-309	Crusher Production (12.5mm) Aggregate	Cu.m	1,943.46
B0-310	Crusher Production (37.5mm)-do-(S.S.C.M.T:1701.4)	Cu.m	1,696.00
30-311	Crusher Production (50MM)-do-(S.S.C.M.T:1701.4)	Cu.m	1,484.00
B0-312	Crusher fines (6.3mm downwards)	Cu.m	1,767.00
B0-313	Crusher Produced (37.5mm)graded (table 1701.5 for ABC)	Cu.m	1,967.02
	AGGREGATE FOR SEAL COAT TREATMENTS (GRADING AS PER SSCM TABLE 1701.8)		
B0-314	Aggregate for seal coat 19mm (SSCM table 1701-8)	Cu.m	2,367.49
30-315	Aggregate for seal coat 12.5mm (SSCM table 1701-8)	Cu.m	1,943.46
B0-316	Aggregate for seal coat 9.5 mm (SSCM table 1701-8)	Cu.m	1,943.46
	SAND (RATE TO INCLUDE TRANSPORT UP TO 16KM) ADDITIONAL TRANSPORT TO BE PAID SEPARATELY)		
B0-331	River sand for road surface (SSCM table 1701-9)	Cu.m	5,159.00
B0-332	River sand for concrete and masonry work (SSCM table 1701-2)	Cu.m	5,159.00
	BRICKS (WITHOUT TRANSPORT)		
B0-340	Common burnt clay building bricks (SLS 39:1978)	1000No	12,000.00
	BITUMEN & EMULSION - (TRANSPORT TO BE ADDED SEPARATELY)		
B0-351	Bitumen 80/100[drums] (purchase> 25drums)	liter	86.00
B0-351A	Bitumen 60/70 (drums)(purchase> 25drums)	liter	86.00
B0-352	Emulsion -C.S.S.1(Excluding transp.)	liter	60.52
B0-353	Emulsion -C.R.S.1(Excluding transp.)	liter	59.37

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-354	Emulsion -C.R.S.2 (Excluding transp.)	liter	65.52
B0-355	Bitumen 80/100 [bulk] (with De-cant cost)	kg	88.00
B0-355A	Bitumen 60/70 (Bulk) (with De-cant cost)	Kg	88.00
B0-355B	Bitumen 80/100[Bulk]	Kg	75.50
B0-355C	Bitumen 60/70[Bulk]	Kg	75.50
B0-356	Cut back bitumen -MC 30	liter	90.74
B0-357	Polymer Modified bitumen(PG76-10)	liter	137.52
B0-358	Polymer Modified bitumen Emulsion	liter	98.00
B0-359	Slow setting Emulsion used for prime coat	liter	88.00
	PREMIXED BITUMINOUS MATERIALS (PRICE INCLUSIVE OF ALL RAW MATERIAL TRANSPORT AND ROYALTY ON AGGREGATE)		
	(FOR PROJECT USE)		
B0-361A	Asphalt Concrete Surfacing Material binder 60/70 bitumen @ 4.7% Mix	M.ton	8,159.00
B0-362	Asphalt concrete bound base material binder 60/70 bitumen @ 3,50% MIX	M.ton	7,261.00
B0-362A	Asphalt concrete binder course material: binder 60/70 bitumen @ 4.1% mix	M.ton	7,838.00
B0-362B	Asphalt concrete binder course material: binder 60/70: 3.53% mix-dense (19mm) Ex plant	M.ton	
B0-362B	Asphalt Concrete Cut Back (19 mm)	M.ton	
	(FOR PROJECTS & MAINTENANCE)		
B0-365	Cut Back Asphalt - aggregate cold mix with 15% cut back 60/70 @ 5.5% of Mix (19mm)	M.ton	9,277.00
B0-365A	Cut Back Asphalt - aggregate cold mix with 16% cut back 60/70 @ 5.5% of Mix (12.5mm)	M.ton	9,231.00
B0-366	Cold mixed asphalt with emulsion CSS-1 (6.67% by weight of agg.) &19mm Aggregate Explant	M.ton	
NOTE:	1. ABOVE RATES INCLUDE TRANSPORT COST FOR: AGGREGATES - 50KM;DEISEL-25KM;KOIL-25KM;BINDER-10KM		
	2. ROYALTY ON AGGREGATE MATERIALS : NIL		
	3. FOR DIFFERENT PERCENTAGES OF BINDER, % CUTBACK SEE GENERAL NOTES: SECTION 29		
	4. TRANSPORT COST FROM PLANT TO THE LAYING SITE TO BE PAID SEPARTELY.		
	READY - MIX CONCRETE (EXCLUDING HANDLING COST)		
B0-380	GRADE 15 /20/120mm	Cu.m	12,600.00
B0-381	GRADE 20//20/120mm	Cu.m	13,800.00
B0-382	GRADE 25 /20/120mm	Cu.m	14,250.00
B0-383	GRADE 30 /20/120mm	Cu.m	14,950.00
B0-384	GRADE 35 /20/120mm	Cu.m	15,850.00
B0-385	GRADE 40 /20/120mm	Cu.m	15,900.00
NOTE:	1. ABOVE RATES ARE CONSIDERED WITHIN 15KM FOR 120MM SLUMP AT SITE 2. NOMINAL ACCRECATE SIZE 20MM		
	2. NOMINAL AGGREGATE SIZE 20MM TIMBER & FIREWOOD (INCLUDING TRANSPORT COST)		
B0-391	Sawn timber class 1 (local)	Cu.dm	109.45
/ / 1		Juluin	107.15

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-392	Sawn timber class 2 (local)	Cu.dm	77.20
B0-393	Timber round jungle-100mm(minimum) to 150 mm diameter	L.m	34.00
B0-394	Timber round jungle-150mm minimum to 200 mm diameter	L.m	67.00
B0-395	Firewood	Cu.m.	1,620.30
B0-396	Plywood (Ordinary) for formwork-15 mm thick	Sq.m	678.00
30-397	Bamboo tree length greater than 8 meters	Nr.	379.40
	CEMENT (INCLUDING TRANSPORT COST)		
B0-401	Portland cement(50kg)	bag (50kg)	955.00
	STEEL AND STEEL ITEMS (INCLUDING TRANSPORT COST)		
30-411	Mild steel	kg	148.00
B0-411A	Tor steel	kg	148.00
B0-431	Binding wire	kg	161.00
B0-432	Wire nails m.s.bolts & nuts	kg	168.80
B0-433	Stainless steel 20 mm dia.(for dowels)	L.m	913.30
30-434	GI Pipes 50mm Dia.heavy duty type	L.m	1,430.15
30-435	M.S. Plate 2mm thick	Sq.m	2,365.50
	PRECAST CONCRETE ITEMS EX-FACTORY: MINIMUM PRICE EXCLUDING VAT		
	REINFORCED CONCRETE PIPES & COLLARS		
B0-441	Reinforce concrete Pipe dia.(153mm)length(2438 mm)	Nr.	3,300.00
B0-441B	Reinforce concrete Collar dia.(153mm)	Nr.	350.00
B0-442	Reinforce concrete Pipe dia.(229mm)length(2438 mm)	Nr.	5,300.00
B0-442B	Reinforce concrete Collar dia.(229mm)	Nr.	512.50
B0-443	Reinforce concrete Pipe dia.(305mm)length(2438 mm)	Nr.	5,950.00
B0-443B	Reinforce concrete Collar dia.(305mm)	Nr.	717.50
B0-444	Reinforce concrete Pipe dia.(450mm)length(2438 mm)	Nr.	8,275.00
30-444B	Reinforce concrete Collar dia.(450mm)	Nr.	988.75
B0-445	Reinforce concrete Pipe dia.(610mm)length(2438 mm)	Nr.	11,987.50
B0-445B	Reinforce concrete Collar dia.(610mm)	Nr.	1,132.50
30-446	Reinforce concrete Pipe dia.(914mm)length(1219 mm)	Nr.	9,237.50
30-446A	Reinforce concrete Pipe dia.(914mm)length(2438 mm)	Nr.	18,475.00
30-446B	Reinforce concrete Collar dia.(914mm)	Nr.	1,487.50
30-447	Reinforce concrete Pipe dia.(1219mm)length(1219 mm)	Nr.	14,000.00
30-447A	Reinforce concrete Pipe dia.(1219mm)length(2438 mm)	Nr.	28,000.00
30-447B	Reinforce concrete Collar dia.(1219mm)	Nr.	2,200.00
	PRECAST CONCRETE ITEMS		
B0-448	Standard road kerb 125x250x900 G25 concrete	Nr.	712.50
B0-449	Paving slab 450x450x50mm G20 concrete with R/f conc.	Nr.	467.50
B0-449A	Paving slab 450x450x50mm G20 concrete	Nr.	287.50
B0-450	Bridge kerb 915	Nr.	1,650.00

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-451	Standard uprights for bridges (new design)	Nr.	2,162.50
B0-452	Standard Hand rails for bridges (new design)	Nr.	1,950.00
B0-453	Coupling pairs for hand rails	Pair	665.00
B0-454	Rain water channels 609 mm long	Nr.	215.00
B0-455	Cement sand Hollow block16"x8"x4"	Nr.	53.00
B0-456	Facia Slab 4'x2'	Nr.	2,550.00
B0-457	Guard stones (Standard)	Nr.	3,131.25
B0-458	Kilometer Post (Standard)	Nr.	4,725.00
B0-459	Boundary Marker(Standard)	Nr.	2,100.00
B0-460	G25 Concrete Paving Block(220mmx110mmx80mm)	Nr.	34.00
B0-461	G40 Concrete Paving Block(220mmx110mmx80mm)	Nr.	38.50
	BLASTING MATERIAL (INCLUDING TRANSPORT COST)		
B0-501	Blasting powder	kg	593.50
B0-502	Fuse wire	L.m	388.00
B0-503	Steel Jumper	kg	226.35
B0-504	Electric detonators	Nr.	93.30
B0-505	Dyna cord	L.m	51.00
B0-506	Gelignite/(Water Gel)	kg	675.00
B0-507	Ammonium nitrate	kg	162.20
B0-508	Ordinary Detonator	Nr.	11.70
	PAINTS (INCLUDING TRANSPORT COST)		
B0-531	Bituminous emulsion paint (CRS-2)	liter	65.52
B0-534	Glue	kg	328.00
B0-537	Lime - Boiled	kg	23.60
B0-541	Enamel paint	liter	1,111.00
B0-542	Paint-anti corrosive	liter	808.00
B0-544	Paint-emulsion	liter	875.00
B0-545	Rust remover	liter	508.75
B0-546	Emulsion for exterior use (weather shield)	liter	1,155.00
B0-547	Road marking paints (yellow)	liter	883.15
B0-548	Road marking paints (white)	liter	692.39
	FUEL,OILS & LUBRICANTS		
B0-601	Industrial kerosene oil (Colombo)	liter	110.00
B0-602	Mould oil (used engine oil)	liter	40.00
B0-611	Lubricant (Oil)	liter	472.59
B0-612	Auto Diesel (Colombo)	liter	104.00
B0-613	Petrol (Colombo)	liter	137.00
B0-614	Furnace oil for burners	liter	96.00
B0-615	LP Gas	Kg	119.65
B0-616	Lubricant (Grease)	kg	711.95

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
	MISCELLANEOUS MATERIALS		
B0-631	Baskets (with t'port)	Nr.	375.00
B0-632	Gunny bags (large) (with t'port)	Nr.	57.80
B0-632A	Poly sacs (65 kg capacity) (with t'port)	Nr.	46.10
B0-633	Cotton waste (with t'port)	kg	40.00
B0-634	Salt (with t'port)	kg	75.00
B0-635	Empty tar barrels (140 liters) (with t'port)	Nr.	90.55
B0-636	P.V.C.Pipe 110 mm dia type 250 PE (with trans.)	L.m	393.25
B0-636B	P.V.C.Pipe 110 mm dia type 400 PE (with trans.)	L.m	662.85
B0-637	P.V.C.Pipe 50 mm dia type 400 PE (with trans.)	L.m	208.15
B0-637A	P.V.C.Pipe 25 mm dia type 1000 PE (with trans.)	L.m	123.25
B0-637B	P.V.C.Pipe 90 mm dia type 400 PE (with trans.)	L.m	615.00
B0-637C	P.V.C.Pipe 90 mm dia type 600 PE (with trans.)	L.m	904.85
B0-637D	P.V.C.Pipe 160 mm dia type 250 PE (with trans.)	L.m	1,206.30
B0-637E	P.V.C.Pipe 160 mm dia type 400 PE (with trans.)	L.m	1,993.25
B0-637F	P.V.C.Pipe 160 mm dia type 600 PE (with trans.)	L.m	2,462.85
B0-637G	P.V.C.Pipe 160 mm dia type 1000 PE (with trans.)	L.m	3,780.20
B0-638	Hard rubber 12 mm thick x 75 mm wide (with t'port)	L.m	1,331.05
B0-639	Polythene 325 mm dia gauge 300(Approx. 14.0meters/kg) (Tubular flat width App. 505mm with trans.)	kg	350.45
B0-639A	Polythene 230 mm dia gauge 300 (Approx. 19.5meters/kg)(Tubular flat width App. 355mm, with trans.)	kg	350.45
B0-639B	Polythene 150 mm dia gauge 300 (Approx.28.0meters/kg)(Tubular flat width app.241mm, with trans.)	kg	350.45
B0-640	Aluminium sheet 24 SWG (with t'port)	Sq.m	847.35
B0-641	Angle Iron 50x50x6mm (with t'port)	L.m	687.95
B0-642	M.S. Plate 12mm thick (with t'port)	Sq.m	14,122.50
B0-643	Adhesive (water resistant)	kg	1,358.15
B0-644	Emulsifier-stabrium MS-03(CSS/CRS)	kg	500.00
B0-645	Pazzolith (usage: 300ml per 50kg Cement bag)Early strength admixtures	Ltr	143.40
B0-646	Traffic cones	Nr.	2,100.00
B0-647	75mm x8 mm Dia Nuts & Bolts	Nr.	9.65
B0-648	Saw dust (loose)	Cu.m.	127.55
B0-649	Drill Steel	Lm	113.68
	PIECE RATES & ALLOWANCES		
	ALLOW FOR:		
B0-704	Barricading (small work items)	Item	43.80
B0-705	Barricading, Lighting, Signaling etc for 100m(Stationary operations)	Day	1,785.15
B0-711	Cement sand & water for jointing hume pipes 152 mm diameter	Joint	23.05
B0-712	Cement sand & water for jointing hume pipes 229 to 610 mm diameter	Joint	95.70
B0-713	Cement sand & water for jointing hume pipes 915 mm diameter	Joint	251.00

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-714	Cement sand & water for jointing hume pipes 1220 mm diameter	Joint	448.60
B0-715	Coir rope (for scaffolding 93 sq.m area)	Item	62.50
B0-716	Coir string for cutting side drains (per 2.83 cu.m)	Item	25.05
B0-717	Coir string for for fixing scaffolding (per 93 square meters)	Item	156.15
B0-718	Minor repairs of parapets with cement sand and water (per 9.29 sq. meters)	Item	102.05
B0-720	Fuel(for loosening road surface for manual breaking, 50mm depth x 307 sq.m)	Item	35.35
B0-723	Fuel Forge etc.(per 2.83 Cu.M. blasting)	Item	44.45
	Ladders (per 93 square meters)	Item	138.20
B0-741	Paint (for lettering and numbering items)	Item	112.30
B0-746	Pegs (for turfing in 19 sq m area)	Item	41.55
B0-751	Sand paper and Cotton waste (per 9.29 sq meters)	Item	133.70
B0-752	Sharpening Scarifier Tines (for 307 sq. meters)	Item	45.60
B0-761	Timber planks & Bamboos (for 93 sqm)	Item	934.90
B0-762	Timber posts horizontal etc (for barricading work in 4 linear meters)	Item	374.45
	WATER FOR CONCRETING		
B0-781	Allow for water for mixing by machine	Cu.m.	26.90
B0-782	Allow for water for mixing concrete manually	Cu.m.	21.50
	WATER FOR COMPACTION & GENERAL USE		
B0-784	Allow water for Gravel Compaction	Cu.m.	16.15
B0-785	Allow water for Aggregate Compaction	Cu.m.	21.50
B0-786	Allow water for moistening road surface	Item	64.65
B0-787	Allow for moistening road surface(by bucket &coir rope)	Item	26.90
B0-788	Water for general purposes	liter	1.15
	WHITE WASHING FOR BARRICADING		
B0-791	White washing empty barrels (Bitumen)	Nr.	46.40
B0-792	White washing timber posts horizontals ETC. (in 4 l.m barricading)	Item	17.35
	FOLLOWING MATERIAL PRICES ARE FOR ESTIMATION ONLY (Payments should be based on approved tender prices)		
	THERMOPLASTIC ROAD MARKING MATERIALS (EXCLUDING TRANSPORT & VAT)		
B0-800	Thermo plastic road marking material (white)	kg	138.17
B0-801	Thermo plastic road marking material (yellow)	kg	138.50
B0-802	Glass Beads	kg	141.42
B0-803	Cats eye (Aluminium rd stud, Double sided)	Nr.	2,250.00
B0-806	Zebra barricading tape (polythene)	Lm	38.56
	P.C.C. BEAMS (Wires) EXCLUDING TRANSPORT & VAT		
NOTE:	Specification of the beams should be in compliance to the national highways RN indicates Rates are to be negotiated and decide		
B0-810	P.C.C Beam 3.35m(11 ft)	Nr.	25,750.00

Item No	Description	Unit	2020/2021 Approved Rates (Rs.)
B0-811	P.C.C Beam 4.26m(14 ft)	Nr.	32,300.00
B0-812	P.C.C Beam 5.18m(17 ft)	Nr.	40,600.00
B0-813	P.C.C Beam 6.09m(20ft)	Nr.	52,700.00
B0-814	P.C.C Beam 7.01m(23ft)	Nr.	61,200.00
B0-815	P.C.C Beam 9.5m	Nr.	RN
B0-816	P.C.C Beam 11.5m(38ft)	Nr.	RN
B0-818	P.C.C Beam 13.5m(45ft)	Nr.	RN
B0-819	P.C.C Beam 16.5m(55ft)	Nr.	RN
	P.C.C. BEAMS (Standards) EXCLUDING TRANSPORT & VAT		
NOTE:	Specification of the beams should be in compliance to the national highways		
B0-830	P.C.C Beam 9.5m(31.16ft)	Nr.	72,000.00
B0-831	P.C.C Beam 11.5m(37.72ft)	Nr.	98,050.00
B0-832	P.C.C Beam 13.5m(44.28ft)	Nr.	116,850.00
B0-833	P.C.C Beam 14.5m(47.56ft)	Nr.	125,750.00
B0-834	P.C.C Beam 15.5m(50.84ft)	Nr.	148,700.00
B0-835	P.C.C Beam 16.5m(54.12ft)	Nr.	158,750.00
	GABION MESH EXCLUDING TRANSPORT & VAT)		
	*(Zinc Coated Gabion Boxes)		
B0-850	1 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	3,500.00
B0-851	2 x 1 x .5 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	4,400.00
B0-852	1.5 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	4,650.00
B0-853	2 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	5,600.00
B0-854	3 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	9,100.00
	*(PVC COATED BOXES)		
B0-850A	1 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	4,299.00
B0-851A	2 x 1 x .5 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	5,600.00
B0-852A	1.5 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	5,637.50
B0-853A	2 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	7,050.00
B0-854A	3 x 1 x 1 m Gabions inclusive of Coated tie wire @ 5% of gabion weight	Box	10,400.00
	GEOTEXTILES * EXCLUDING TRANSPORT & VAT		
B0-860	Geotextiles	Sq.m	172.22

HIGHWAY SCHEDULE OF RATES - SUMMARY YEAR 2020/2021

WESTERN PROVINCE

Item No.	Description	Unit	APPROVED RATES 2020/2021
	<u>SECTION - I</u>		
	TRANSPORT		
NOTE	SEE SECTION 23 OF GENERAL NOTES FOR SELECTION OF MODE OF TRANSPORT		
T1-001	Transport of soil 25m to 100 m by any means(including loading and unloading)	Cu.m	643.00
T1-002	Transport 100m to 0.5km by any means(Excluding loading)	Cu.m	310.00
T1-003	Transport 0.5km to 1.0km by any means (Excluding loading)	Cu.m	332.00
T1-003A	Transport of each subsequent 1km to 8 km by any means (Excluding loading)	Cu.m	52.00
T1-003B	Transport of each subsequent 1km beyond 8km by any means (Excluding loading)	Cu.m	35.00
T1-006	Transport of material in bulk excluding loading (for distance less than or equal 3 kilometers)	Cu.m	107.00
T1-007	Transport of material in bulk excluding loading (from 3km upto 10km Distance)	Cu.mkm	36.00
T1-007A	Transport of material in bulk excluding loading (for distance more than 10 km Distance)	Cu.mkm	31.00
T1-009	Transport of premix in bulk, excluding loading other than at mixing plant	M.TonKm	23.00
T1-010	Transport of barrels of bitumen for first 1.0km of transport (Excluding loading and unloading)	Nr.	49.00
T1-010A	Transport of barrels of bitumen for each subsequent 1.0km, from 1.0 - 8.0km, (Excluding loading and unloading)	Nr.	13.00
T1-010B	Transport of barrels of bitumen for each subsequent 1.0km beyond 8.0km (Excluding loading and unloading)	Nr.	9.00
T1-013	loading barrels of bitumen inclusive of rolling upto 25m	Nr.	40.00
T1-014	Unloading barrels of bitumen inclusive of Rolling and stacking	Nr.	17.00
T1-015	Transport of hume pipes 152mm diameter for 1st 1.0km of transport(Excluding loading and unloading)	L.m	38.00
T1-015A	Transport of hume pipes 152mm diameter for each subsquent 1.0km, from1.0 - 8.0km of transport(Excluding loading and unloading)	L.m	11.00
T1-015B	Transport of hume pipes 152mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	8.00
T1-018	Transport of hume pipes 229 mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.m	42.00
T1-018A	Transport of hume pipes 229mm diameter for each subsequent 1.0km from 1.0 - 8.0 km of transport(Excluding loading and unloading)	L.m	12.00
T1-018B	Transport of hume pipes 229mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	9.00
T1-021	Transport of hume pipes 305mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.m	56.00
T1-021A	Transport of hume pipes 305mm diameter for each subsequent 1.0km, form 1.0 - 8.0 km of Transport(Excluding loading and unloading)	L.m	16.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
T1-021B	Transport of hume pipes 305mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	12.00
T1-024	Transport of hume pipes 457mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.m	84.00
T1-024A	Transport of hume pipes 457mm diameter for each subsequeent 1.0km from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.m	24.00
T1-024B	Transport of hume pipes 457mm diameter for each subsequeent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	17.00
T1-027	Transport of hume pipes 610mm for first 1.0km of transport(Excluding loading and unloading)	L.m	113.00
T1-027A	Transport of hume pipes 610mm diameter for each subsequeent 1.0km from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.m	32.00
T1-027B	Transport of hume pipes 610mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	23.00
T1-030	Transport of hume pipes 915mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.m	169.00
T1-030A	Transport of hume pipes 915mm diameter for each subsequent1.0km, from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.m	48.00
T1-030B	Transport of hume pipes 915mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	35.00
T1-033	Transport of hume pipes 1220mm diameter for first 1.0km of transport(Excluding loading and unloading)	L.m	389.00
T1-033A	Transport of hume pipes 1220mm diameter for each subesquent 1.0km, from 1.0 - 8.0km of transport(Excluding loading and unloading)	L.m	147.00
T1-033B	Transport of hume pipes 1220mm diameter for each subsequent 1.0km beyond 8.0km of transport(Excluding loading and unloading)	L.m	107.00
	Loading and unloading 152mm diameter 2.44m long hume pipes	Nr.	123.00
T1-037	Loading and unloading 229mm diameter 2.44m long hume pipes	Nr.	144.00
T1-038	Loading and unloading 305mm diameter 2.44m long hume pipes	Nr.	285.00
T1-039	Loading and unloading 457mm diameter 2.44m long hume pipes	Nr.	474.00
T1-040	Loading and unloading 610mm diameter 2.44m long hume pipes	Nr.	618.00
T1-041	Loading and unloading 915mm diameter 1.22m long hume pipes	Nr.	1,140.00
T1-042 T1-043	Loading and unloading 1220mm diameter 1.22m long hume pipes Transport of precast kerb stones (All types) for road works, including loading and unloading	Nr. L.mKm	2,280.00 2.00
T1-044	Transport of precast kerb stones for bridge works, including loading and unloading	L.mKm	3.00
T1-045	Transport of precast concrete hand rails, up rights and joints for bridge works, including loading and unloading	L.mKm	4.00
T1-046	Transport of precast concrete slabs450x450x50 mm for foot walks, includingloading and unloading	SqmKm	5.00
T1-047	Transport of precast concrete standard boundary markers including unloading only	NrKm	2.00
T1-048	Transport of emulsion	100ltr km	4.00
T1-049	Transport of gabion mesh 4x1x1 meters	Nr km	1.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - II		
	ROADWAY AND FOUNDATION / TRENCH EXCAVATION		
	(INCLUDING LOADING , UNLOADING AND TRANSPORTING WITHIN 25 METRES DISTANCE UNLESS OTHERWISE SPECIFIED)		
NOTE	FOR ROADWAY CONSTRUCTIONS INVOLVING MORE THAN 200CU.M. , MACHINE RATES SHOULD BE ADOPTED.		
E1-001	Excavation in Loose soil(Dry)[SSCM 301.2(iv)]	Cu.m	878.00
E1-002	Excavation in Loose soil (Wet) in slips [SSCM 301.3(0)]	Cu.m	1,085.00
E1-003	Excavation in ordinary soil (Cutting measurement)[SSCM 301.2(v)]	Cu.m	1,291.00
E1-004	Excavation in ordinary soil[Vehicle measurement][SSCM 301.2(v)]	Cu.m	1,162.00
E1-005	Excavation in medium soil (Cutting measurement)[SSCM 301.2(vi)]	Cu.m	1,704.00
E1-006	Excavation in medium soil (Vehicle measurement) [SSCM 301.2(vii)]	Cu.m	1,448.00
E1-007	Excavation in hard soil (Cutting measurement)[SSCM 301.2(vii)]	Cu.m	2,530.00
E1-008	Excavation in hard soil (Vehicle measurement) [SSCM 301.2(vii)]	Cu.m	2,150.00
E1-009	Excavation in unclassified soil(Cutting measurement)[SSCM 301.2 a(1)]	Cu.m	1,842.00
NOTE	SEE CODE NOS. FROM E1-027 FOR ROADWAY EXCAVATION USING MACHINERY		
E1-010	Excavation in soft rock (Cutting measurement)[SSCM 301.2(vii)]	Cu.m	2,736.00
E1-010A	Excavation in mud/marshy material (Cutting measurement) [SSCM 301.2(vii)]	Cu.m	2,117.00
E1-011	Excavation pit\trench for foundation in ordinary soil not Exceeding 1.5m deep, including Levelling and ramming bottom, Exc.material Deposited within 25m or as Directed. (Shoring dewatering if necessary shall be paid seperaely) [SSCM 301.1- .3]	Cu.m	1,704.00
NOTE	SEE GENERAL NOTES 24(3) FOR DETAILS REGARDING ADDITIONAL EXCAVATION REQUIRED FOR WORKING SPACE.		
E1-012	Excavation pit/trench in foundation in medium soil not exceeding 1.5m deep, including levelling and ramming bottom, exc.material Deposited within 25m or as Directed. (Shoring, Dewatering if necessary shall be paid)[SSCM 301.13]	Cu.m	2,117.00
E1-013	Excavation pit\trench in foundation in hard soil not exceeding 1.5m deep, including levelling and ramming bottom, exc.material Deposited within 25m or as Directed. (Shoring, Dewatering if necessary shall be paid)[SSCM	Cu.m	2,943.00
E1-014	Excavation pit\trench in foundation in unclassified soil not exceeding 1.5m deep, including Levelling and ramming bottom, exc.material Deposited within 25m or as Directed.[SSCM	Cu.m	2,255.00
E1-015	Excavation pit\trench in foundation in mud/marsh not Exceeding 1.5m deep, including Levelling and ramming bottom, Exc.material Deposited within 25m or as Directed.[SSCM	Cu.m	2,530.00
E1-019	Excavation soft rock not exceeding 1.5m depth[SSCM 301.2(ii)]	Cu.m	3,356.00
NOTE	EXCAVATING ROCK FOR FOUNDATION TO BE PAID ON S.S.R.		
E1-021	Piling available soil	Cu.m	206.00
E1-022	Loading available soil to a tractor or equivalent	Cu.m	273.00
E1-023	Excavating rock requiring blasting, for roadway for boulders, excluding Dozing away[SSCM 301.2(iii) & 306.1-306.4]	Cu.m	1,110.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
E1-024	Boulders, sledging piling etc	Cu.m	3,846.00
E1-025	Rock requiring blasting	Cu.m	3,518.00
E1-026	Rock requiring blasting and piling (Bank measurement)	Cu.m	4,757.00
E1 027	Roadway excavation in unclassified soil using machinery excluding loading and piling (Cutting measurement)	Cu.m	258.00
E1-028	Loading materials by machinery in roadway excavations (Cutting measurement)	Cu.m	132.00
E1-029	Trimming / cambering by motor grader (Cutting measuremet)	Cu.m	57.00
E1-029A	Trimming / cambering by motor grader (Cutting measurement)	Sq.m	11.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - III		
	AGGREGATE / RUBBLE PILING INCLUDING LOADING)		
A1-001	Sledging available rock 150-225mm rubble including piling and loading	Cu.m	3,064.00
A1-002	Blasting etc and piling 150-225mm rubble including loading	Cu.m	4,757.00
A1-002A	Blasting sledging etc. and piling 150-225mm rubble using compressor and hand held drills including loading	Cu.m	2,682.00
A1-003	Blasting etc. and piling 100mm aggregate including loading	Cu.m	1,739.00
A1-004	Blasting etc and piling 75mm aggregate including loading	Cu.m	1,813.00
A1-005	Blasting etc and piling 50mm aggregate including loading	Cu.m	1,887.00
A1-009	50 mm aggregate, single size crusher production including piling and loading[SSCM 404.1-406.1 : table 1701-4	Cu.m	1,781.00
A1-010	37.5 mm aggregate, single size crusherproduction including piling andloading[SSCM 404.1-406.1 : table 1701-4	Cu.m	2,035.00
A1-011	19 mm aggregate, single size crusher production including piling and loading[SSCM 404.1-406.1]	Cu.m	2,459.00
A1-012	12.5 mm aggragate, single size crusher production including piling and loading for 1.0 Cu.m	Cu.m	2,332.00
	PLANT PRODUCED AGGREGATE DENSE GRADED AGGREGATE BASE COURSE		
A1-013	Aggregate 37.5 mm Down graded (SSCM-table 1701.5) including piling and loading	Cu.m	2,360.00
A1-014	Crusher fines 6.3 mm down, including piling and loading for 1.0 cu.m	Cu.m	2,120.00
A1-015	Aggregate 19 mm for seal coat treatments as per SSCM table 1701-8, including piling and loading	Cu.m	2,841.00
A1-016	Aggregate 12.5 mm for seal coat treatments as per SSCM table 1701-8, including piling and loading	Cu.m	2,332.00
A1-017	Blended aggregate for rectification overlay, with 37.5 mm single size aggregate and 19mm &12.5 mm crushed aggregated mixed in the volume ratio of 7:2:1: including mix. & loading(piling to pay separatly)	Cu.m	2,205.00
A1-018	Piling available aggregate	Cu.m	228.00
A1-019	Piling available rubble	Cu.m	456.00
A1-020	Loading available aggregate / rubble	Cu.m	413.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - IV		
	APPROVED EARTH FILLING & COMPACTION		
NOTE	RATES FOR BORROW EARTH SUPPLY GIVEN UNDER ITEM CODES EW1-001 & EW1-011 IN THIS SHEDULE 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 BO-201,BO- 202,EW1-013 OR EW1-014 SHALL BE ADOPTED. FOR ANY DEVIATIONS THE PROCUREMENT PROCEDURE GIVEN IN GENERAL NOTES , SHALL BE FOLLOWED.		
EW-001	Approved soil (Type i & ii materials) excavation for bases & shoulder construction including loading and piling (Loose volume)[SSCM 601.1 to 601.4]	Cu.m	2,450.00
EW-002	Spreading piled approved soil (Loose volume)	Cu.m	303.00
EW-003	Approved soil spread & rolled including roller hire charges, fuel & watering (loose volume) [SSCM 601.1 - 4] (including roller hire)	Cu.m	541.00
	*SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
NOTE	THE ITEMS EW1-003 OR EW1-004 ON MANUAL SPREADING SHOULD BE ADOPTED FOR SMALL WORKS ONLY. WHEN MACHINERY IS USED FOR SPEADING AND COMPACTION, EW1-003A SHALL BE ADOPTED.		
EW-003A	Approved soil spread & rolled using machinery including motor grader & roller hire charges, fuel & watering (Loose volume)[SSCM 601.1 - 4] (including roller hire)	Cu.m	300.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
EW-004	Approved soil spread & rolled in strips where average width is less than 1.2 metres for road widening including roller hire charges, fuel & watering (Loose volume)[SSCM 601.1 - 4] (including roller hire)	Cu.m	631.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
EW-006	Approved soil spread & compacted in places behind abutments and structures, shoulders above sub bases level and service line trenches, using 1/2 to 1 ton vibrating roller including watering (Loose volume)[SSCM 601.1 - 4]	Cu.m	696.00
	SEE GENERAL NOTES SECTION 26.4 FOR RATE ON COMPACTED VOLUME.		
EW-007	Approved soil spread & compacted in 150 to 225 mm thick layers using machine rammer at narrow places (Loose volume)	Cu.m	738.00
EW-008	Spreading , levelling and compacting manually using standard cast iron stamper or equivalent and filling in 150-225 mm thick layers (Loose volume)	Cu.m	929.00
EW-009	Trimming , levelling and compaction of original ground/subgrade to 100 % STD Density [SSCM 304.3(c)] (including roller hire)	Sq.m	104.00
EW-010	Trimming , levelling and compaction of original ground/subgrade to 95 % STD Density [SSCM 304.3(c)] (including roller hire)	Sq.m	94.00
EW-011	Approved soil excavation for embankment filling including loading and piling (Loose volume)[SSCM 601.1 to 601.4]	Cu.m	1,748.00
EW-013	Approved soil (Type i & ii materials) excavation using machinery for bases & shoulder construction including loading and piling(Loose volume)[SSCM 601.1 - 4]	Cu.m	1,301.00
EW-014	Approved soil (Type i & ii) excavation using machinery for embankment filling including loading and piling(Loose volume)[SSCM 601.1 - 4]	Cu.m	941.00
EW-015	Grading and spreading by motor grader	Cu.m	107.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - V		
	RUBBLE PAVING		
	(RUBBLE TO BE PAID SEPARATELY)		
P1-001	Pitched paving 225 mm thick	Sq.m	556.00
P1-002	Pitched paving 150 mm thick	Sq.m	417.00
P1-003	Flat paving 225 mm thick	Sq.m	370.00
P1-004	Flat paving 150 mm thick	Sq.m	278.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	<u>SECTION - VI</u>		
	AGGREGATE SPREADING AND COMPACTION		
	COST OF WATERING TO BE DEDUCTED FROM RATE IF NOT CARRIED OUT UNDER THE RELEVENT ITEMS		
NOTE	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	1,216.00
M1-002	Breaking road surface to 50 mm Depth by hand , screen & replace old aggregate	Sq.m	153.00
M1-003	Scarifying road surface to 50 mm Depth by roller, screen, & replace old aggregate. (including roller hire)	Sq.m	109.00
M1-004	Spreading & compaction 50-19 mm new aggregate by roller including watering hire, etc. (loose volume) [SSCM 403.3(c)] (Including roller hire)	Cu.m	1,874.00
M1-005	Breaking 50 mm additional Depth by hand screening & replacing old aggregate	Sq.m	92.00
M1-006	Scarifying 50 mm additional Depth with roller, Screening & replacing old aggregate (including hire charges)	Sq.m	86.00
M1-007	Spreading watering & compacting 50-19 mm aggregate in edge correction using roller including hire, etc. (loose volume) [SSCM 1103.3] (including hire charges)	Cu.m	2,218.00
M1-008	Spreading watering & compacting 50-19 mm aggregate in strip correction using roller including hire ,etc (loose volume) [SSCM 1103.3] (including hire charges)	Cu.m	1,843.00
M1-009	Spreading & compacting 50-19 mm aggregate by 8-10 ton roller after applying track coat in overlay (loose volume) (Tack coat paid separately) (including hire charges)	Cu.m	1,687.00
M1-010	Water bound macadam spreading water & comp 50-25 mm aggregate & filling the voids to refusal with crusher fines by watering & rolling to form a water bound macadam base .(loose volume (SSCM 404.1) (including hire charges)	Cu.m	5,283.00
M1-011	Dry bound macadam spread, water & comp. 50-25 mm aggregate & filling voids to refusal with crusher fines by rolling with vibrating roller to form a Dry bound macadam base (Loose volume) [404] (including hire charges)	Cu.m	5,010.00
M1-012A	Dense graded agg. base (Agg. base course) supplying.pilling, loading, spreading water and comp. graded 37.5 mm agg to form a Dense agg. base using machinery including motor grader & roller hire charges. (Loose volume)(Transport of agg. to be paid separately)	Cu.m	2,909.00
	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.		

Item No.	Description	Unit	APPROVED RATES 2020/2021
M1-013	Dense graded agg.base [ABC],supplying.pilling, loading, spreading water and comp spreading watering and Compacting graded 37.5mm aggregate to form a Dense aggregate base in strips, avg width not exceeding 1.2m for road widening (Loose volume)[SSCM 405.14](including hire charges)(Transport of agg. to be paid separately)	Cu.m	4,157.00
	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 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	Graded 37.5 ABC material supplying.pilling, loading, spreading water and comp spread and rolled in strips, average width not exceeding 1.2m using machinery incl motor graders and roller hire charges fuel and watering(Loose vol)[SSCM 405.1- .4] (including hire charges) (Transport of agg. to be paid separately)	Cu.m	2,985.00
	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.		

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - VII		
	ROAD SURFACE TREATMENT		
	(SAND TRANSPORT UP TO 16 KM INCLUDED IN THE RATES)		
	TRANSPORT OF BITUMEN EMULSION/ BITUMEN TO BE PAID SEPERATELY		
S1-001	Bitumen surface 1st coat using 2ltr/sq.m including blinding with sand @ the rate of 125 sq.m/cu.m[SSCM 503.1] (including cost of bitumen)	Sq.m	324.00
S1-002	Bitumen surfacing 1st coat using 2ltr/sq.m including blinding with gravel where sand is not available within 20km.(including cost of bitumen)	Sq.m	302.00
	Double bituminous surface treatment with hot bitumen(Manual) including internal		
S1-003	transport(Binder and aggregate paid separately)[SSCM 505.15 and table 505.1] including roller hire)	Sq.m	278.00
S1-004	Single bituminous Surface treatment with hot bitumen (Manual, including internal transport)(binder and aggregate paid separately)[SSCM 505.15 and table 505.1] (including roller hire))	Sq.m	147.00
S1-005	Double bituminous surface treatment with emulsion (CRS-1) (Manual including internal transport)(Binder and aggregate paid separately) (including roller hire))	Sq.m	275.00
S1-006	Single bituminous surface treatment with emulsion (CRS-1) (manual including internal transport)(Binder and aggregate paid separately) (including roller hire)	Sq.m	144.00
S1-007	Bitumen surfacing subsequent coat using 0.75ltr/sq.m including blinding with sand @ 125 sq.m/cu.m [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	170.00
S1-008	Bitumen surfacing 2nd/subsequent coat using 1.0ltr/sq.m including blinding with sand @ rate of 125 sq.m/cu.m (New work) [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	196.00
S1-009	Bitumen surfacing subsequent coat using 0.75ltr/sq.m including blinding with gravel free of clay where sand is not available within 16 km [SSCM 503.1(b)] (including cost of bitumen)	Sq.m	148.00
S1-010	Bitumen surfacing 2nd/subsequent coat using 1.0ltr/sq.m including blinding with gravel free of clay where sand is not available within 16km (New work) [SSCM 503.4(c)] (including cost of bitumen)	Sq.m	174.00
S1-011	Emulsion/cold bitumen(CRS-1) surface treatment 1 st coat with 3.5 ltr/sq.m including blinding with sand, @ 125 sq.m/cu.m (manual)(incld cost of emulsion)	Sq.m	337.00
S1-012	Emulsion/cold bitumen(CRS-1) surface treatment 1st coat with 3.5 ltr/sq.m(using trolly,emulsion) including blinding with sand, @ 125 sq.m/cu.m(incld cost of emulsion)	Sq.m	317.00
S1-013	Emulsion/cold bitumen(CRS-1) surface treatment subsequent Coat with .75 ltr/sq.m including blinding with sand, @ 125 sq.m/Cu.m (Manual)(incld cost of emulsion)	Sq.m	120.00
S1-014	Emulsion/Cold bitumen(CRS-1) surface treatment subsequent coat with .75 ltr/sq.m (using trolley, emulsion) including blinding with sand, @ 125 sq.m/cu.m(incld cost of emulsion)	Sq.m	113.00
S1-015	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/Sq.m inclusive of brushing, cleaning road surface and cost of emulsion (manual) [SSCM 502.3]	Sq.m	57.00
S1-015A	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/sq.m(incld cost of emulsion)	Sq.m	50.00
S1-015B	Brushing and cleaning road surface for tack coat	Sq.m	8.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
S1-016	Tack coat using emulsion (CRS-1) @ the rate of 0.5 ltr/sq.m inclusive of brushing, cleaning road surface and cost of emulsion (Manual) [SSCM 502.3]	Ltr	114.00
S1-017	Tack coat using emulsion (CRS-1) @ the rate of 0.75 ltr/sq.m inclusive of brushing, cleaning road surface and cost of emulsion (Manual) [SSCM 502.1-503.3] (including cost of emulsion)	Sq.m	75.00
S1-018	Tack coat with 30% cut back bitumen using 0.5 ltr/sq.m including brushing and cleaning road surface (Manual))(including cost of bitumen)	Sq.m	100.00
S1-018A	Tack coat with 30% cut back bitumen using 0.5 ltr/sq.m Excluding brushing and cleaning road surface (Manual) data for 372 sq.m tack coat (part1) (Excluding cost of bitumen)	Sq.m	57.00
S1-019	Tack coat with 30% cut back bitumen(80/100) using 0.5 ltr/sq.m including brushing and cleaning road surface (Manual) (Excluding cost of bitumen)	Ltr	200.00
S1-020	Tack coat with 30% cut back bitumen using 0.75 ltr/sq.m including brushing and cleaning road surface (Manual) [SSCM 503.4(d)](including cost of bitumen)	Sq.m	129.00
S1-021	Rolling over blinding material spread over subsequent bitumen surfacing using diesel roller (8-10 Tones) [SSCM 503.4(d)]	Sq.m	13.00
S1-022	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m/cu.m and brushing cleaning and moistening road surface : (including cost of emulsion)	Sq.m	123.00
S1-022A	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m including blinding with sand at the rate of 250 sq.m/cu.m(including cost of emulsion)	Sq.m	115.00
S1-022B	Brushing, cleaning and moistening road surface(Manual)	Sq.m	8.00
S1-023	Prime coat with emulsion/cold bitumen(CSS-1) using 1 ltr/sq.m without blinding, but inclusive of brushing, cleaning and moistning road surface(including cost of emulsion)	Sq.m	94.00
S1-024	Prime coat with 30% cut back bitumen using 1 ltr/ sq.m including blinding with sand at the rate of 250 sq.m/cu.m and brushing, cleaning and mostening road surface (including cost of bitumen)	Sq.m	187.00
S1-025	Prime coat with 30% cut back bitumen using 1 ltr/ sq.m without blinding but inclusive brushing, cleaning and mostening road surface (including cost of bitumen)	Sq.m	157.00
S1-026	Sweeping over tarred surface to arrest bleeding.	Sq.m	6.00
S1-027	Application of asphalt emulsion for surface treatment using CRS-1 (using plant) "rate per litre"(including cost of emulsion)	litre	85.00
S1-028	Blinding the bitumen surfacing with sand at the rate of 125 sq.m1 cu.m using material from stock pile	Sq.m	58.00
S1-029	Single bituminous surface treatment with emulsion (CRS2) using plant.(Binder and aggregate paid separately) (Rate to include transport cost of aggregate up to 16kms) [SSCM 505(b).	Sq.m	88.00
S1-030	Double bituminous surface treatment with emulsion(CRS-2) using plant.(Binder and aggregate paid separately) (Rate of including transport cost of aggregate up to 16 kms) [SSCM 505.5(e)]	Sq.m	177.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
S1-030A	Double bituminious surface treatment with hot bitumen(80/100) using 19mm and 12.5mm single size selected aggregates on existing bituminous surface using plant. Rate to include all labour, material, plant and transport cost of aggregate up to 16Km.(Transport of Binder and Additional transport of aggregate to be paid	Sq.m	463.00
	separately)[SSCM505.5(e)]:		
S1-030B	Double bituminious surface treatment with hot bitumen(80/100) using 19mm and 9.5mm single size selected aggregates on existing bituminous surface using plant. Rate to include all labour, material, plant and transport cost of aggregate up to 16Km.(Transport of Binder and Additional transport of aggregate to be paid	Sq.m	427.00
	separately)[SSCM505.5(e)]:		
NOTE	QUANTITIES OF AGGREGATES AND BINDER (PEN GRADE BITUMEN) FOR DBST(SSCM 505.5)		
		AGGREGATE CUM/100SQ.M	BINDER LTR/SQ.M
	IST SEAL 19MM AGGREGATE - BINDER PENGRADE BITUMEN	1.3 - 1.7	0.65 - 0.85
	2nd SEAL 12.5MM AGGREGATE - BINDER PENETRATION GRADE BITUMEN	0.7 - 1.0	1.0 - 1.3
	1ST SEAL 12.5MM AGGREGATE - BINDER PENGRADE BITUMEN	1.0 - 1.3	0.5 - 0.7
	2nd SEAL 9.5MM AGGREGATE - BINDER PENETRATION GRADE BITUMEN	0.55 - 0.75	0.75 - 1.05
S1-031	Suupply, lay & compact asphalt concrete (19mm, binder(60/70) 4.7%mix **) - Dense(Plant made) in wearing surface of small workS such as bridge Decking, reinstatement of trenches etc.(transport of premix to be paid separately)[SSCM 506] (including roller hire)	M.ton	12,862.00
S1-032	Suply,lay, comp. asp. bound premix(37.5mm, binder(60/70) 3.5%**mix -bound base mat(Plant made) in small works(bridge Decking, reinstatement of trenches)(Tra. of premix to be paid separately)[SSCM 506](including roller hire)	M.ton	11,784.00
S1-033	Supply, lay & compt. Cut back asplt conc. cold mix with MC30 (19mm 15% cutback with binder(60/70)5.5% mix**) dense plant made in small wrks. suc. as brdg. decking reinst. of treches(Transpt.of premix to be paid separately)(SSCM 507)(including roller hire)	M.ton	14,203.00
S1-033A	Supply.lay & compt. Imulsified asplt contrt. cold mix with bitumen emul CSS.1(6.67% wt of agg. 19mm dense plant made) in small wrks. suc. as brdg. decking reinstatement of trenches etc(Transpt.of premix to be paid separately.(SSCM 507)(including roller hire)	M.ton	3,071.00
NOTE **	FOR BINDER CONTENTS SEE GENERAL NOTES SECTION 29.8		
	*AVERAGE 0.6270CUM OF AGGREGATE IS REQUIRED FOR 1.0MTON OF PREMIX		
S1-034	Lay and compact asphalt concrete using paver (Cost of premix and premix transport to site paid separately)	M.ton	1,532.00
S1-034A	Lay and compact asphalt concrete manually (Cost of premix and premix transport to site paid separately)	M.ton	1,537.00
S1-035	Bitumen surfacing (Sand sealing -manl) using emulsion (CRS 1) @ 1 ltr. /sq.m including preparing surface, blinding with sand @ 4 cu.m/500 sq.m & pressing with hand rollers.(patching pot holes if necsry & externel transport to paid separately.(including cost of emulsion)	Sq.m	143.00
S1-035A	Patching minor pot holes using sand emulsion mix 1:8 where necessary, prior to sand sealing. Incld cost of emulsion	Sq.m	25.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
S1-036*	Sand sealing with emulsion CRS-1 at the rate of 1ltr,sq.m using plant.incd.brushing,cleaning, blinding. with sand@ 125 sq.m and rollin g. with pneumtc. roller & internel transport.[SSCM 504](including roller hire)	Sq.m	161.00
S1-036A*	Chip Sealing with Bitumen Emulsion CRS -1 at the rate of 1.25Ltr/Sqm Using plant including Brushing, cleaning, blinding (Patching pot holes if necessary & external transport to pay separately)	Sq.m	152.00
S1-036B*	Fog sealing with Bitumen emulsion CRS-1 at the rate of 1.5ltr,sq.m using plant.incd.brushing,cleaning, blinding. With patching pot holes if necessary & external transport to pay separately	Sq.m	204.00
\$1-036C*	Crack Sealing with Bitumen emulsion CRS -1 at the rate of 1.25ltr/sqm using plant including brushing, cleaning, blinding (pacthing pot holes if necessary & external transport to pay separately)	Sq.m	183.00
*NOTE	THE ABOVE RATES IS APPLICABLE FOR PAYMENT ONLY IF CHIP SPREADER (SELF PROPELLED) AND PNEUMATIC ROLLER ARE USED FOR THE CONSTRUCTION. OTHERWISE APPROVED SSR SHOULD BE ADOPTED.		
S1-037	Reconstruct base with penetration macadam using nominal size 50mm aggregate and 19mm key aggregate from stock piles, to accomplish 75mm on existing pavements[SSCM 406] (Binder, aggregate, transport paid separately)	Sq.m	209.00
S1-038	Reconstruct base with penetration macadam using nominal size 37.5 mm aggregate and 12.5 mm key aggregate from stock piles, to a compacted thickness of 55mm on existing pavements [SSCM 406] cost of aggregate including transport to be paid separately	Sq.m	147.00
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	2,855.00
S1-040*	Sand sealing with emul CRS-2 at the rate of .8 ltr/sq.m using plant ,& blinding with sand at rate 125sq.m/cu.m on D.B.S.T./S.B.S.T. (Triple seal) incl. internal trport (SSCM 504) binder trnport to site to pay separately (including cost of emulsion & roller hire)	Sq.m	165.00
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 PNEUMATIC ROLLER IS ESSENTIAL. IF EMULSION AND/OR THE RATE OF APPLICATION OR THE METHOD OF SAND SPREADING TO BE CHANGED, S.S.R. SHALL BE PREPARED AND APPROVED.		
S1-041	Slurry sealing to a thickness of 6mm using machinery with modified emulsion (using CSS -1) as the binder (Including cost of emulsion, transport of aggregate to pay seperately)	Sq.m	138.00
S1-042	Slurry sealing to a thickness of 6mm using concrete mixture manual with emulsion using CSS - 1 as the binder (Transport of Aggregate to pay separately)	Sq.m	566.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - VIII		
	ROAD SURFACE MAINTENANCE		
	INTERNAL TRANSPORT OF HOT BITUMEN UP TO 16 KM AND SAND TRANSPORT UP TO 16 KM INCLUDING IN THE RATES		
MN-001	Patching with hot bitumen(80/100) using 14 litres per 1/2 km(SSCM 1102.1-3)	1/2 K.m	3,982.00
MN-002	Patching with hot bitumen using 21 ltrs. per 1/2 k.m.	1/2 K.m	5,973.00
MN-003	Patching with hot bitumen using 28 ltrs. per 1/2 k.m.	1/2 K.m	7,965.00
MN-004	Patching with hot bitumen using 35 ltrs. per 1/2 k.m.	1/2 K.m	9,956.00
MN-005	Patching with hot bitumen using 42 ltrs. per 1/2 k.m.	1/2 K.m	11,947.00
MN-006	Patching with hot bitumen using 49 ltrs. per 1/2 k.m.	1/2 K.m	13,938.00
MN-007	Patching with hot bitumen using 56 ltrs. per 1/2 k.m.	1/2 K.m	15,929.00
MN-008	Extensive Patching for every additional 7 ltrs. hot bitumen	1/2 K.m	1,991.00
MN-009	Patching with cold bitumen (CRS-1) using 14 ltrs per 1/2 k.m.	1/2 K.m	2,543.00
MN-010	Patching with cold bitumen (CRS-1) using 21 ltrs. per 1/2 k.m.	1/2 K.m	3,814.00
MN-011	Patching with cold bitumen (CRS-1) using 28 ltrs. per 1/2 k.m.	1/2 K.m	5,086.00
MN-012	Patching with cold bitumen (CRS-1) using 35 ltrs. per 1/2 k.m.	1/2 K.m	6,357.00
MN-013	Patching with cold bitumen (CRS-1) using 42 ltrs. per 1/2 k.m.	1/2 K.m	7,629.00
MN-014	Patching with cold bitumen (CRS-1) using 49 ltrs. per 1/2 k.m.	1/2 K.m	8,900.00
MN-015	Patching with cold bitumen (CRS-1) using 56 ltrs. per 1/2 k.m.	1/2 K.m	10,171.00
MN-016	Extensive patching for every additional 7 ltrs. cold bitumen, CRS-1:	1/2 K.m	1,271.00
MN-017	50 mm-19mm aggregate roller patching(including roller hire)	Cu.m	5,568.00
MN-018	50 mm - 19mm aggregate stamped patching	Cu.m	7,185.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - IX		
	ROAD SIDES AND DRAINAGE SYSTEM (SSCM 701.3)		
	(*RATE TO INCLUDE SPREADING THE RESULTING MATERIALS SUITABLY IN THE VICINITY UNLESS OTHERWISE DIRECTED.)		
DR-001	Cutting new side Drains in ord. soil	Cu.m	1,182.00
DR-002	Cutting new side Drains in Med. soil	Cu.m	1,639.00
DR-003	Cutting new side Drains in hard soil	Cu.m	2,095.00
DR-004	Cutting new side Drains in soft soil	Cu.m	2,323.00
DR-005	Cutting new side Drains in unclassified soil	Cu.m	1,639.00
DR-005A	Cutting side drains of std. Dimensions in unclassified soil using machine (Back hoe J.C.B) including shipping trimming and levelling bottom manually	Cu.m	776.00
DR-006	Cutting new side Drains in rock	Cu.m	4,522.00
DR-007	Turfing (Excluding royalty, transport and watering maintenance) [SSCM 802.3 (a)]	Sq.m	253.00
DR-008	Watering and maintaining turf for Three months including transport of water	Sq.m	307.00
DR-009	Levelling & trimming earth	Sq.m	34.00
DR-010	Clearing silt etc. from kerbs & channels (SSCM 12053)	L.m	20.00
DR-011	Cutting scupper Drains on any soil other than rock to and average width of 0.75 m with proper gradient and ave. Depth of 100 mm (SSCM 1304.3)	L.m	148.00
DR-012	Clearing and Desilting of culverts (SSCM 1303.3)	No	414.00
DR-013	Clearing choked culverts (With head room > 1m.)	Cu.m	1,705.00
DR-014	Cleaning desilting existing side drains and lead up drains to proper shape and gradient and transport of excavated materials from road side up to 100m	L.m	50.00
DR-015	Clearing inlets and outlets of culverts	No	373.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION -X		
	BRIDGES,CULVERTS & RETAINING WALLS ETC.		
ST-001	Demolishing Dry coursed masonry including stacking or loading,(SSCM 202.2)	Cu.m	5,042.00
ST-002	Demolishing coursed masonry in cement mortar including stacking or loading	Cu.m	5,867.00
ST-003	Demolishing random rubble masonry in cement mortar including stacking or loading	Cu.m	2,651.00
ST-004	Random rubble masonry, 150-225 mm rubble in approved cement & sand mortar 1:6 (Excluding transport of rubble & piling) [SSCM 1006.3]	Cu.m	13,404.00
ST-005	Random rubble masonry, 150-225 mm rubble in approved cement & sand mortar 1:5 (Excluding transport of rubble) [SSCM 1006.3]	Cu.m	13,812.00
ST-006	Random rubble masonry, in approved cement & sand mortar 1:6 with available rubble 150-225mm	Cu.m	11,518.00
ST-007	Random rubble masonry in approved cement & sand mortar 1:5 with available rubble 150-225 mm.	Cu.m	11,925.00
ST-008	Dry masonry with available heavy rubble or boulders(SSCM 1006.3)	Cu.m	7,171.00
ST-009	Dry masonry with rubble 150-225 mm (Excluding transport of rubble & piling)	Cu.m	7,624.00
ST-010	Dry masonry with available rubble 150-225mm	Cu.m	5,737.00
ST-011	Packing available rubble and aggregate filter layers behind masonry walls.	Cu.m	1,498.00
ST-012	Clay puddled & laid behind masonry walls(Excluding transport of clay) [SSCM 705.3]	Cu.m	3,029.00
ST-013	Grouting coursed stone masonry joints with approved cement & sand mortar 1:3 (SSCM 804.2(C))	Sq.m	566.00
ST-014	Grouting rubble paving with concrete class C, 1:2:4(19 mm) (Excluding transport of aggr. for concrete)	Cu.m	2,639.00
ST-015	Grouting rubble paving with approved cement & sand mortar (1:3)	Sq.m	918.00
ST-016	Forming weep holes in masonry construction (Labour only)[SSCM 706.3]	Nr.	492.00
ST-017	Forming weep holes using PVC pipes of internal diameter. not less than 100mm complete with Drip ledge and surround finish smooth.	L.m	782.00
ST-018	Shoring with 37.5 mm thick class II timber planks up to 3 m Depth	Sq.m	1,190.00
ST-019	Supplying & fixing class II timber struts etc. for shoring up to 3m Depth	Cu.dm	102.00
ST-020	Supplying and fixing class II timber in shoring up to 3m Depth (Rate per area basis)	Sq.m	1,443.00
ST-021	Lifting soil for every 1.5 m beyond the initial 1.5m	Cu.m lift	826.00
ST-022	Lifting wedge stones for every 1.5 m beyond the initial 1.5m	Cu.m lift	2,477.00
ST-023	Lifting rubble or concrete every 1.5 m beyond the initial 1.5m	Cu.m lift	1,239.00
ST-024	Lowering wedged stones every 1.5m beyond the initial 1.5 m beyond the initial 1.5 m	Cu.m lwr	1,652.00
ST-025	Lowering rubble or concrete every 1.5m beyond the initial 1.5 m	Cu.m lwr	826.00
ST-026	Rendering 12.5 mm thick in cement sand mortar 1:2 mix (Rough)	Sq.m	914.00
ST-027	Rendering 12.5 mm thick in cement sand mortar 1:2 mix (Smooth finish)	Sq.m	1,041.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
ST-028	Rendering 19 mm thick in cement sand mortar 1:2 mix (Rough)	Sq.m	1,270.00
ST-029	Rendering 19 mm thick in cement sand mortar 1:2 mix (Smooth finish)	Sq.m	1,396.00
ST-030	Rendering 12.5 mm thick in cement sand mortar 1:3 mix (Rough)	Sq.m	897.00
ST-031	Rendering 12.5mm thick in cement sand mortar 1:3 mix (Smooth finish)	Sq.m	1,035.00
ST-032	Rendering 19 mm thick in cement sand mortar 1:3 mix (Rough)	Sq.m	1,247.00
ST-033	Rendering 19mm thick in cement sand mortar 1:3 mix (Smooth finish)	Sq.m	1,373.00
ST-034*	Mixing & laying manually, cement concrete 1:4:8 (50 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling) [SSCM 1001.4]	Cu.m	15,306.00
ST-035*	Mixing & laying using concrete mixer, cement concrete 1:4:8 (50 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling) (SSCM 1001.8 - 9)	Cu.m	14,903.00
ST-036*	Mixing & laying manually cement concrete 1:4:8 (50 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	14,727.00
ST-037*	Mixing & laying using concrete mixer, cement concrete 1:4:8 (50 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	13,513.00
ST-038*	Mixing & laying manually cement concrete 1:3:6 (37.5 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl . transport of aggregate & Ex. piling)	Cu.m	15,659.00
ST-039*	Mixing & laying using concrete mixer, cement concrete 1:3:6 (37.5 mm) with 20% plums (Volume batching) using crusher run aggregate (Excl. transport of aggregate & piling)	Cu.m	14,428.00
ST-040*	Mixing & laying manually cement concrete 1:3:6 (37.5 mm) (Volume batching) using crusher run aggregate (Excl . transport of aggregate & piling)[SSCM 1001.4]	Cu.m	17,764.00
ST-041*	Mixing & laying using concrete mixer, cement concrete 1:3:6 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	16,537.00
*NOTE	WHEN HAND BROKEN AGGREGATE (50MM OR 37.5MM) ARE USED INPLACE OF CRUSHER RUN AGGREGATE , ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS		
CT 042	Mixing & laying manually cement concrete 1:3:6 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	18,202.00
ST-043	Mixing & laying using concrete mixer, cement concrete 1:3:6 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	16,761.00
CT 044*	Mixing & laying manually cement concrete 1:2:4 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	19,222.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
ST-045*	Mixing & laying using concrete mixer, cement concrete 1:2:4 (37.5 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex.	Cu.m	18,293.00
	**(RATE INCLUDES VIBRATOR COST)		
*NOTE	WHEN HAND BROKEN AGGREGATE (50MM OR 37.5MM) ARE USED INPLACE OF CRUSHER RUN AGGREGATE , ON APPROVAL BY PD/CE SSRR TO BE PREPARED BASED ON THE SAME NORMS		
ST-046	Mixing & laying manually cement concrete 1:2:4 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	19,425.00
ST-047	Mixing & laying using concrete mixer, cement concrete 1:2:4 (19 mm) (Volume batching) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)**	Cu.m	18,484.00
	**(RATE INCLUDES VIBRATOR COST)		
ST-048	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 25 (19 mm) using crusher run aggregate in foundation and floors. (Excl. transport of aggregate & Ex. piling)	Cu.m	19,952.00
	SEE GENERAL NOTES SECTION 33.7		
ST-048A	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 25 (70% 37.5 + 30% 19 mm) using crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	18,893.00
ST-049	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 30 (19 mm) with crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	21,990.00
ST-050	Mixing & laying using concrete mixer(w/batching), cement concrete for Grade 40 (19 mm) with crusher run aggregate (Excl. transport of aggregate & Ex. piling)	Cu.m	24,017.00
ST-051	Mixing & laying using concrete by hand	Cu.m	7,216.00
ST-052	Mixing & laying using concrete by power Driven concrete mixer V/batching	Cu.m	5,996.00
ST-053	Curing of concrete Decks, slabs, beams, walls etc. [SSCM 1011.11]	Sq.m/day	38.00
ST-054	Fabricate & lay M.S bars as reinforcement (Including transport & wastage)	Kg	327.00
ST-055	Fabricate & lay tor steel as reinforcement (Including transport& wastage)	Kg	327.00
ST-056	Cutting & laying reinforcement fabric (Excluding cost of reinforcement fabric)	Sq.m	300.00
ST-057	Supplying & fixing 25 mm thick planks of class II timber as shuttering, including removing [1008.3(b)]	Sq.m	1,434.00
ST-057A	Supplying & fixing 25 mm thick planks of class II timber as shuttering for concrete roadandkerbforinterlockingblockpavingroadincluding removing(SSCM1006.3(b))	Sq.m	772.00
ST-058	Supplying & fixing class ii timber bearers, joists , Etc. including Dismantling in shuttering (SSCM 1008.3 (a))	Cu.dm	76.00
ST-059	100-150 mm Dia. round jungle timber supplied & fixed as props	L.m	117.00
ST-060	150-200 mm Dia. round jungle timber supplied & fixed as props	L.m	126.00
ST-061	Formwork smooth finish with class II timber for bridge beams, bridge deck under sides and sides including Dismantling (SSCM 1008.3(b))	Sq.m	3,478.00
ST-062	Formwork smooth finish with class II timber for bridge column shafts including dismantling (SSCM 1008.3(b))	Sq.m	3,183.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
ST-063	Formwork smooth finish, using plywood(Shutter 15 mm) and class ii timber bearers, joists and jungle timber props for bridge abutments, wing walls etc.	Sq.m	3,312.00
ST-064	Supplying & fixing 25mm thick planks and struts of class ii timber as formwork rough finish, in foundation etc. including removing (SSCM 1008.3(b))	Sq.m	1,625.00
ST-065	Formwork smooth finish for general purposes, using 25mm thick planks & struts of class ii timber and round jungle timber props 100 - 150 mm Dia. including Dismantling	Sq.m	2,225.00
ST-066	Laying & jointing 152mm Dia. concrete pipes (transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	2,675.00
ST-067	Laying & jointing 229mm Dia. concrete pipes (transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	3,764.00
ST-068	Laying & jointing 305mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	4,239.00
ST-069	Laying & jointing 457mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	5,471.00
ST-070	Laying & jointing 610mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	8,390.00
ST-071	Laying & jointing 915mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	13,910.00
ST-072	Laying & jointing 1220mm Dia. concrete pipes (Transport and bedding material paid separately) [SSCM 707.3 - 4]	L.m	20,705.00
ST-073	Laying & jointing 152 mm Dia. available concrete pipes and collars	L.m	937.00
ST-074	Laying & jointing 229 mm Dia. available concrete pipes and collars	L.m	989.00
ST-075	Laying & jointing 305-450 mm Dia. available concrete pipes and collars	L.m	1,077.00
ST-076	Laying & jointing 610 mm Dia. available concrete pipes and collars	L.m	2,123.00
ST-077	Laying & jointing 915 mm Dia. available concrete pipes and collars	L.m	3,604.00
ST-078	Laying & jointing 1220 mm Dia. available concrete pipes and collars	L.m	5,131.00
ST-079	Fixing new bridge planks runners and stacking old planks (Available) [SSCM 1402.2(a)]	Nr.	1,271.00
ST-080	Removing & re-setting old bridge planks	Nr.	794.00
ST-081	Supplying & fixing new bridge planks of class I timber	Cu.dm	154.00
ST-082	Supplying & fixing 31 mm thick Deck planks of class I timber	Sq.m	6,422.00
ST-083	Fixing new chequered or M.S. plates on timber - decked bridge [SSCM 1402.2(d)]	L.m	1,875.00
ST-084	Removing & refixing chequered M.S. plates on timber-decked bridge	L.m	2,500.00
ST-085	Tightening bolts & nuts of chequered of M.S. plates	L.m	403.00
ST-086	Removing & refixing "U" clips. [SSCM 1402.2(b)]	Nr.	264.00
ST-087	Cleaning, wire brushing & painting steelwork, one coat enamel paint	Sq.m	366.00
ST-088	cleaning, wire brushing & applying tar on steelwork, one coat	Sq.m	268.00
ST-089	Cleaning, with cotton waste and painting steel work with enamel paint, one coat	Sq.m	214.00
ST-090	Chipping to bare metal etc. & painting with anticorrosive paint, one coat	Sq.m	1,207.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
ST-091	Painting with one coat of enamel paint after cleaning, de-rusting & application of one coat anticorrosive paint[SSCM 1401.3(C)]	Sq.m	828.00
ST-092	Painting with two coats of enamel paint, after cleaning, de-rusting & application of one coat anticorrosive paint	Sq.m	1,024.00
ST-093	Oiling steel cables on suspension bridges [SSCM 1405.3]	Sq.m	968.00
ST-094	Cleaning booms of steel bridges including scaffolding where necessary [SSCM 1401.3]	L.m	97.00
ST-095	Demolishing unreinforced cement concrete including cleaning of Debris in foundation and superstructure in dry condition excluding under water structures [SSCM 202.2]	Cu.m	4,375.00
ST-096	Demolishing reinforced concrete and debris cleared	Cu.m	6,113.00
ST-097	Demolishing reinforced concrete in very heavy structures build up of grade 30 above concrete in work such as bridge beams & deck slabs, including collecting and removing	Cu.m	13,684.00
ST-098	Supplying and fixing M.S. dowels spliced and dove tailed with wedge at one end, 16mm dia, and 1m long, boring holes to 0.3m depth in fixing	Nr.	915.00
ST-099	Supplying and fixing M.S. dowels, spliced and dove tailed with wedge at one end, 20mm dia, and 1m long, boring holes to 0.3m depth in fixing.	Nr.	1,150.00
ST-100	Supplying & fixing M.S.dowels, spliced and Dove tailed with wedge at one end, 25mm dia, and 1m long. boring holes to 0.3m depth in fixing.	Nr.	1,550.00
ST-101	Lay standard type road kerbs(125mmX900mm) set on19mm thick 1:3 cement mortar layer on 150mm X 275mm 1:2:4(19) concrete foundation with av. 157mm X 150mm wide backing with same concrete including excavation and shuttering (cost of kerb stones including transport and aggregate* transport to pay separately)	L.m	3,010.00
	* QUANTITY OF AGGREGATE REQUIRED FOR CONCRETING IN 1METER LENGTH IS EQUAL TO 0.06CUM		
ST-102	Lay standard precast bridge kerbs [Type Drawing No T/B/106-rev 1 of RDA](Cost of precast kerbs including transport to be paid separately)	L.m	705.00
ST-103	Constructing 150 X 50 mm thick insitu lower kerb in grade 20 (14 mm) concrete for bridges: (Excl. Aggregate transport)	L.m	340.00
ST-104	Laying 450 X 450 X 50 mm precast concrete slabs on foot walks including av. 40mm thick 1:3 cement Mortar bedding (Cost of pre cast sabs & transport, to be paid separately)	Sq.m	2,193.00
ST-105	Laying 450 x 450 x 50 mm precast concrete slabs on foot walks including av.40mm thick sand bedding (Cost of precast slabs and transport, to be paid separately)	Sq.m	1,506.00
ST-106	Fixing precast hand railing and uprights using grade 25(19) concrete including formworks for pockets (Cost of the precast items including transport and aggregate* transport to be paid separately)[Type Dwg No T/B/102/B]	L.m	1,869.00
	*QUANTITY OF AGGREGATE REQUIRES FOR CONCRETING IN 1METER LENGTH IS EQUAL TO 0.017CUM		
ST-107	Construction of RCC grade 25(19mm) end pillaster, type 1(Excl. Agg*. Transport and iron piling) [Type Dwg No T/B/106-Rev 1]	Nr.	54,755.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	*AGGREGATE QTY. REQUIRED PER PILLASTER: 37.5MM - 0.08CUM / 19MM - 0.95CUM		
ST-108	Construction of RCC Grade 25(19mm) end pillaster, type ii (Excl. Agg.* Transport and iron piling) [type Dwg No T/B/106-Rev 1]	Nr.	61,099.00
	*AGGREGATE QTY. REQUIRED PER PILLASTER: 37.5MM - 0.09CUM / 19MM -1.16CUM		
ST-109	Construction of RCC grade 25(19mm) end pillaster, type iii (Excl. Agg*. Transport and builtup rubble foundation) [Type Dwg No T/B/106-Rev 1]	Nr.	35,230.00
	*AGGREGATE QTY. REQUIRED PER PILLASTER: 19MM -0.07CUM		
ST-110	Construction of RCC grade 25(19mm) end pillaster, type iv (Excl. Agg. transport) [Type Dwg No T/B/106-Rev 1]	Nr.	37,774.00
	*AGGREGATE QTY. REQUIRED PER PILLASTER: 19MM -0.07CUM		
ST-111	Laying of grade 20 concrete precast pin kerbs in grade 20(19) concrete foundation as edging (Excl . Agg. transport)	L.m	1,026.00
ST-112	Supplying and fixing 25mm thick tongue and grooved planks with 50x50mm struts of Class 1 timber in panels as smooth shuttering for concrete Drains	Sq.m	1,573.00
ST-113	Supply and packing 50-200 mm Dry stone lining behind abutments and wind walls (Excl. Aggregate transport)	Cu.m	3,305.00
ST-114	Laying geotextile on prepared surface supply and transport to pay separately	Sq.m	83.00
ST-115	Construction of gabion wall using 4x1x1m mesh including lacing wire on prepared ground.(supply and transport of gabion mesh to be paid separately);	Cu.m	6,977.00
ST-116	Construction of gabion wall using $4x1x0.5$ m mesh including lacing wire on prepared ground (Supply and transport of gabion mesh to be paid separately)	Cu.m	7,598.00
ST-117	Construction of kerb inlet as per Drawing type - k1/t1 with cover slabs. Excl transport of aggre.(rate per 1kerb inlet pit with 1.2m length)	No	13,080.00
NOTE	EARTH EXCAVATION TO BE CONSIDERED BY THE ENGINEER AS PER SITE CONDITION AND ADD SEPERATELY IF REQUIRED.		
	ITEM RESERVED FOR BRIDGE WORKS ONLY		
	THE RATES IN THE FOLLOWING ITEMS FROM ST1-118 TO ST1-120 SHOULD BE ADDED TO THE CONCRETE RATE SELECTED FROM ITEM CODES ST1- 038 TO ST1-050 , DEPENDING ON THE STRUCTURAL LOCATION.		
ST-118	Additional labour for pouring, compacting and levelling concrete in screed under foundation slabs	Cu.m	1,200.00
ST-119	Additional labour for pouring, compacting concrete in abutments, wing walls, capping beams of piers and foot walks of bridges	Cu.m	339.00
ST-120	Additional labour for pouring, compacting and levelling infiller concrete between bridge beams including screed of bridge Decks.	Cu.m	1,703.00
ST-121	Laying ready mixed grade concrete including vibration * (suppl;y of concrete to be paid seperately)	Cu.m	2,461.00
ST-122	Supplying and laying approved hard Rubber bearing pads 75mm x 12mm over capping beams and under the approach slabs	L.m	1,732.00
ST-123	Bitumenous sealing material supplied and laid under beam ends to prevent grout leak on to capping beam. transport of emulsion not included. (including cost of emulsion)	L.m	189.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
ST-124	230mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	56.00
ST-125	230mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	97.00
ST-126	325mm Dia. polythene Displacers supplied and filled with saw Dust or similar light material in Deck. transport of saw Dust to be paid separately	L.m	153.00
ST-127	PCC beams 16.15m long launched into position	Nr.	20,427.00
ST-128	PCC beams 13.41m and 12.19m long launched into position	Nr.	14,197.00
ST-129	PCC beams 10.67m, 9.75m and 8.23m long launched into position	Nr.	10,839.00
ST-130	PCC beams 7.01m, 6.09m, 5.18m and 4.26m long launched into position	Nr.	8,286.00
ST-131	M.S. angle iron and hard rubber expnsion joints as per Drawing No T/B/107 Rev. 1	L.m	9,940.00
ST-132	Transport of 355 X 355 X 9144 mm R.C. sheet piles to the site excluding unloading and stacking	Nr/km	98.00
ST-133	Stacking of 355 X 355 X 9144 mm R.C. sheet piles	Nr.	6,174.00
ST-134	Transport of 305 X 200 X 6100 mm R.C. sheet piles to the site excluding unloading and stacking	Nr/km	26.00
ST-135	Stacking of 305 X 355 X 6100 mm R.C. sheet piles	Nr.	3,003.00
ST-136	Driving 305 X 200 X 6100 mm R.C. sheet piles using hand monkey	L.m	10,699.00
ST-137	Saturated sand filling	Cu.m	6,779.00
ST-138	Stacking of P.S.C. beam 16.15m (53 inch) long	Nr.	12,347.00
ST-139	Transport of PSC Beams 16.15m(53inch)long to the site	per beam/km	196.00
ST-140	Stacking of P.S.C. beam 13.41m (44 inch) and 12.19m (40 inch) long	Nr.	9,010.00
ST-141	Transport of PSC Beams 13.41m(44inch) or 12.19m (40inch)long to the site	per beam/km	131.00
ST-142	Stacking of P.S.C. beam 10.63m (35 inch) and 9.75m (32 inch) or 8.23m (27 inch) long	Nr.	6,758.00
ST-143	Transport of PSC Beams 10.63m(35inch) or 9.75m (32inch)or 8.23m(27inch)long to the site	per beam/km	98.00
ST-144	Stacking of P.S.C. beam 7.01m (23 inch) long	Nr.	4,505.00
ST-145	Transport of PSC Beams 7.01m(23inch) long to the site	per beam/km	65.00
ST-146	50mm thick cover slabs for service ducts in grade 25(20) concrete inclusive of light reinforcement	Sq.m	2,943.00
ST-147	100mm 0 type 400 PVC service duct supplying and fixing in Deck	L.m	1,060.00
ST-148	110mm 0 type 250 PVC rain water outlets supplying and fixed through deck	L.m	994.00
ST-149	50mm 0 type 400 PVC Drain pipes supplying and fixed through deck	L.m	599.00
ST-150	25mm 0 type 1000 PVC Drain pipes supplying and fixed through deck	L.m	408.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - XI		
	KILOMETER POSTS AND GUARD STONES		
RF1-001	White washing, Two coats to guide / guard stones	Nr.	95.00
RF1-002	Whitewashing Two coats k.m. stones inc. numbering & Tar skirting.	Nr.	1,014.00
RF1-003	Painting white back ground on parapets etc. & stencilling nos.	Nr.	384.00
RF1-004	Fixing guard stones in any soil	Nr.	292.00
RF1-005	Casting STD k.m. stones with R.C.C. [1:2:4(19 mm) & cement 282.5 kg/cu.m] including curing, for "A" and "B" class roads	Nr.	7,592.00
RF1-006	Casting STD k.m. stones with R.C.C. [1:2:4(19 mm) & cement 282.5 kg/cu.m] including curing, for "C" and "D" class roads	Nr.	5,070.00
RF1-007	Fixing standard type k.m. stones in any soil	Nr.	2,184.00
RF1-008	Fixing new or refixing type guard stones in cement concrete [1:3:6(37.5mm) and cement 219 kg/cu.m] with min. cover 75mmx 300 mm Deph	Nr.	1,014.00
RF1-009	Casting standard type guard stones in concrete [1:2:4(19mm) & cement 282.5 kg / cu.m]	Nr.	2,616.00
RF1-009A	Casting standard type guard stones in concrete grade 20(19) as per drawing no. T/B/100-REV.1 for bridges and culverts	Nr.	3,471.00
NOTE	19MM AGGREGATE PER GUARD STONE IS 0.058CUM		
RF1-010	Route numbering with reflective paint on 2 sides	Nr.	765.00
	Casting standard boundary markers in reinforced concrete [1:2:4(19mm)] with admixtures, including 14 days curing and loading to vehicle at yard(excl; Agg. transport)	Nr.	2,548.00
NOTE	19MM AGGREGATE PER BOUNDARY MARKER IS 0.039 CU.M.		

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - XII		
	NOTICE BOARDS AND 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 and traffic signs boards etc. fixed in concrete [1:3:6] 37.5mm and cement219 kg/cu.m (excluding transport of aggregate)	Nr.	1,884.00
RS1-001A	Warning and Regulatiory traffic signs etc. fixed in place using concrete [1:3:6] 37.5mm and cement 219 kg/cu.m. Complete including all labour, materials and plant.	Nr.	4,874.00
RS1-002	Cleaning and White washing 2coat town name boards(inc Tar Skirt)	Nr.	525.00
RS1-003	Cleaning, painting one coat & relettering etc.traffic sign boards inc. paint post in B/W	Nr.	2,850.00
RS1-004	Cleaning and painting 1 coat on notice board	Nr.	458.00
RS1-005	lettering & numbering below 50 mm	Nr.	64.00
RS1-006	Lettering and numbering 50mm-75mm	Nr.	77.00
RS1-007	lettering & numbering 75 mm - 150 mm	Nr.	96.00
RS1-008	lettering & numbering 150 mm - 225 mm	Nr.	129.00
RS1-009	Painting 2 coats continuous centre line,100 mm wide with enamel paint	L.m	176.00
RS1-010	Painting 1 coats continuous centre line,100 mm wide with road marking paint (White)	L.m	174.00
RS1-011	Painting 2 coats broken centre line, 100 mm wide with enamel paint	L.m	165.00
RS1-012	Painting 1 coats continuous centre line (Without reflective studs),100 mm wide, at 3 metre intervals with road marking paint (White)	L.m	167.00
RS1-013	Barricading with empty (Hot tar) barrels including white washing, transporting and cost of barrels	Nr.	327.00
RS1-014	Revetment to banks etc. with empty barrels in horizontal tiers with vertical batter(1:8) including transport of barrels	Nr.	835.00
RS1-015	Road marking continuous centre line 100 mm width, using thermoplastic paint (White) , inclusive barricading.(Paint materials & reflective glass beads to pay separately)	Sq.m	365.00
NOTE	1 KG OF THERMO PLASTIC PAINT COVERS 0.14 SQ.M. AREA AT 3.0MM THICKNESS 25KG OF GLASS BEADS WILL COVER 100 SQ.M. AREA		
RS1-016	Road marking standard pedestrian crossing, using thermoplastic paint (White), inclusive barricading.(Paint materials & reflective glass beads to pay separately)	Sq.m	342.00
NOTE	1 KG OF THERMO PLASTIC PAINT COVERS 0.14SQ.M. AREA AT 3.0MM THICKNESS 25KG OF GLASS BEADS WILL COVER 100 SQ.M. AREA		

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - XIII		
	MISCELLANEOUS		
MS1-001	Preparing stock piling premix using 807100pen, Grade bitumen (Excl . transport of aggregate)(Site made) (including cost of bitumen)	Cu.m	20,002.00
MS1-002	Patching shallow pot holes. Depth less 20mm using 80/100hot bitumen 1.2ltr/sq.m & 12.5mm chips single size rate @ 13.75 cudec m/sq.m include. hand tamping rat. including cost of bitumen & material exclu ding transpt. of aggregate & Bitumen)	Sq.m	297.00
MS1-003	Patching shallow potholes, Depth less than 20mm using MC30 bitumen 1.2ltr/sq.m and 12.5mm chips, single size at the rate of 13.75 cuDeci m/sq.m including hand tamping(rate includes cost of bitumen and materials & excl. transport of aggregate and bitumen	Sq.m	316.00
MS1-004	Patching shallow pot holes,depth less than 20mm using emulsion (CRS1) @the rate of 1.2ltr/sq.m & 12.5mm chips single size at the rate of 13.75 cu.deci m/sqm includig hand tamping transport of emulsion to site etc. rate includes cost of emulsion and incl other materials)(Excl. t ransprt of aggregate)	Sq.m	255.00
MS1-005	Patching potholes, of medium Depth 20-75mm with premix material (site made) using cut back 80/100 bitumen 10-20% @ the rate of 83.5lit per cu.m of 19mm and down gauge stone aggregate, including preparation of surface tack coat with emulsion(CSS1) at .75ltr/Sqm,trimming sides,laying premix and tamping etc.(rate inclusive of premix made at site & tack coat)(Excl . transport of aggregate)	Sq.m	2,261.00
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 (rate is inclusive of premix transport to be paid separately)	M.ton	14,917.00
MS1-007	Patching potholes of medium Depth 20-75mm using graded aggregate 19-12.5mm with hot bitumen 80/100 @2 ltr/sq.m covered with blot. material at the rate of 1 cu.m/125 sq.m including preparation of surface ,tack coat with (CSS1)@ 0.75ltr/sqm. Trimming sides, laying aggregate, tamping etc. complete, (rate inclusive of aggregate & tack coat but excl. transport of aggregate & bitumen)	Sq.m	1,345.00
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 (CSS1) 0.75ltr/sqm, trimming sides, laying premix, tamping etc. complete (rate inclusive of premix made at site and tack coat) (excl. transport of aggregate & bitumen	Sq.m	1,280.00
MS1-009	patching pot hols more then 75mm deep with water bound gravel material using 50mm or 12.5 mm single size aggregate along with useable old aggregate obtain from picking and preparation of surface inc. laying watering spreading gravel of approved quality and tamping as directed(aggregate and gravel will be paid separately)	Sq.m	81.00
MS1-010	Patching ruts and Depressions upto 75mm Depth using site made cold mix(Cut back) material with the surface and edge prepared as per specifications .75ltr/sq.m tack coat (include cost of emulsion CSS1 0.75ltr/sqm excl transport of aggregate)	Sq.m	2,030.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-011	Patching ruts and Depressions upto 75mm 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) @00.75Ltr/Sqm (Rate inclusive of cold mix but transport to be paid separately)	Sq.m	1,720.00
MS1-012	Patching ruts and Depressions Deeper than 75mm the surface and edges prepared as per specification tack coat with emulsion (CSS1)@ .75ltr/sq.m trimming sides, 50mm down gauge aggreagated laid compacted and the top 40mm laid and compacted with site made cold mix(cutback) material (Aggregate 50mm down gauge and transport will be paid separately	Sq.m	1,736.00
MS1-013	Patching ruts and Depressions upto 75mm depth the surface and edges prepared as per specification tack coat with emulsion (CSS1)@ .75ltr/sq.m 50mm down gauge aggreagated laid compacted using hot bitumen 80/100 @ 2ltr/sqm covered with blotton material sand at the rate of 1cum/125sqm (aggragate will be paid separately)	Sq.m	1,314.00
MS1-014	Patching ruts and Depressions Deeper than 75mm depth the surface and edges prepared as per specification and application of tack coat with emlsion (CSS1)@ 0.75ltr/sqm 50mm down gauge aggregated laid and compacted, using hot bitumen (80/100) @ 2ltr/sqm covered with blotten material sand at the rate of 1cum/125 sqm.(aggregate will be paid separetely)	Sq.m	1,498.00
MS1-015	Correcting and strengthening the edges of road with site made cold mix 40mm thick prepared using cut back bitumen 10-20% at the rate of 83.5ltr/cum of 19mm and down gauge aggregate over a tack coatusing with emulsion at 0.75ltr/sqm laid over 50mm and down gauge aggregate laid, on position watered and compacted including earth owrk excavation to a width of 225mm and depth of 125mm. (Cost of aggregate and transport to be paid separately)	Sq.m	2,137.00
MS1-016	Correcting & strengthening the edges of road with site made cold mix 40mm thick prepared using cutback bitumen 10-20% at the rate if 83.5ltr/cum of 19 and down gauge aggregate over a tack coat with emulsion at 0.75ltr/sqm laid over 50mm 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 width if225mm and depth of 225mm(aggregate 100mm, 560mm down gauge and transport will be paied separately)	Sq.m	2,502.00
MS1-017	Patch sealing with emulsion painting the surface by spray of CRS-1 @ .75ltr/sq.m squeeging the emulsion and spreading the blotting material (Sand) at the rate of 1 cu.m/125 sq.m. (including cost of emulsion)	Sq.m	153.00
MS1-018	Patch sealing with hot bitumen painting the surface by using .75ltr/sq.m squeeging the bitumen and spreading the blotting material (Sand) at the rate of 1 cu.m/125 sq.m (Transport of bitumen paid separately) (including cost of bitumen)	Sq.m	179.00
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 of surface before application .(Excluding transport of bitumen)	Sq.m	419.00
MS1-020	Patch sealing of pitted surfaces with a emulsion sand slurry ysing CRS1 or 2 at the rate of 136.5ltr/cum of sand mix properly laid, levelled & squeeged including brushing and cleaning the surface before application	Sq.m	380.00
MS1-021	General upkeep of road sides including maintaining the right of way in a neat condition by trimming, weeding & clearing of the road sides, Drains , Drainage structures, scupper Drains & cleaning minor slips	Sq.m	40.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-022	Cleaning ordinary jungle including removing high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed (SSCM 1203.2)	Sq.m	5.00
MS1-023	Cleaning medium jungle including removing high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed	Sq.m	7.00
MS1-024	Cleaning heavy jungle including removing all high growing plants and trees of girth < 300 mm other than those designated to remain by uprooting or by cutting and then uprootin the stumps or by cutting only as Directed	Sq.m	9.00
MS1-025	Repairs to Damage of shoulders verges & embkments slopes incl making good depressions,ruts,holes & erosion path with apprved gravelly soil & compact same with roller(8-10 ton)as Directed(gravel soil paid separetly if broughtfrom outside (including roller hire)	Cu.m	697.00
MS1-026	Regrade & regravellig of shoulders with gravel of approved quality, duly compacted with roller (8-10 ton) as directed for repairing high sides caused by heavings deposits and construction debries, to required levels by using motor grader (120-140hp).(gravel to be paid separately)	Cu.m	355.00
MS1-027	Regrade and regravel of shoulders with gravel of approved quality, duly compacted with roller (8-10 ton) as directed for repairing high side causd by heavng deposit & constructon debrie, to required level manually gravel(loose volume) to be paid separately	Cu.m	786.00
MS1-028	Replacing Damage cracked concrete slabs with precast/cast insitu cement concrete 1:2:4 (19 mm) using 19 mm & down guage stone minimum thickness 50 mm including fixing laying with cement mortar 1:3 joints over compacted bed etc.[SSCM 1204.3]excl. transport of aggr.	Sq.m	2,900.00
MS1-029	Cutting and removing fallen trees upto 600 mm girth including cutting into required number of pieces including Disposal as Directed. minimum piece shall not be less than 2m(SSCM 1203.2)length	Nr.	1,022.00
MS1-030	Cutting and removing fallen trees 600 - 900 mm girth including cutting into required number of pieces including Disposal as Directed. minimum piece shall not be less than 2m(SSCM 1203.2)	Nr.	1,461.00
MS1-031	Weeding masonry culverts small bridges and retaining walls (SSCM 1303.3)	Nr.	264.00
MS1-032	Masonry random rubble with boulders including collect (SSCM 1006.3(b))	Cu.m	1,905.00
MS1-033	Fixing cats eyes in tar macadam including breaking road surface, barricade etc.[SSCM 8103(c)]	Nr.	527.00
MS1-034	Reducing high sides in ordinary soil [SSCM 301.3/1201.3(c)]	Cu.m	905.00
MS1-035	Reducing high sides in medium soil	Cu.m	1,318.00
MS1-036	Reducing high sides in hard soil	Cu.m	1,731.00
MS1-037	Reducing high sides in soft rock	Cu.m	2,144.00
MS1-038	Reducing high sides in rock requiring blasting	Cu.m	4,249.00
MS1-039	Reducing high sides in rock requiring blasting	Sqm	61.00
MS1-040	White washing 2 coat to parapets of bridges and culverts	Sq.m	105.00
MS1-041	White washing 1 coat to parapets of bridges and culverts after cleaning attending to minor repairs	Sq.m	74.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-042	White washing 2 cote to parapets of bridges and culverts after cleaning attending to minor repairs	Sq.m	118.00
MS1-043	Painting with emulsion 1 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	238.00
MS1-044	Painting with enamel 1 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	263.00
MS1-045	Painting with enamel 2 coats to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	448.00
MS1-046	Painting with emulsion 2 coat to parapets of bridges and culverts, guard stones and km posts after cleaning and attending to minor repairs [SSCM 1501.3(a)-(v)]	Sq.m	417.00
MS1-047	Painting with emulsion 1 coat to parapets of bridges and culverts, guard stones and km posts including preparing surface of old work [SSCM 1501.3(b)-(v)]	Sq.m	224.00
MS1-048	Painting sub coat emulsion to parapets of bridges and culverts, guard stones and km posts including preparing surface [SCM 1501.3(b)-(v)]	Sq.m	196.00
MS1-049	Painting 1 coat emulsion paint to parapets of bridges and culverts, guard stones and km posts including preparing surface of new work [SSCM 1501.3(b)-(v)]	Sq.m	208.00
MS1-050	Cleaning & painting 100 mm wide stripe for skirting to guard stones.(SSCM 1501.3(b)(v)] :	L.m	122.00
MS1-051	Painting 2 coats standard pedestrian crossing for carriageway [SSCM 810.2(c)]	L.m	2,591.00
MS1-052	Painting 1 coat standard pedestrian crossing for carriageway using road marking paints [SSCM 810.2(c)]	L.m	2,616.00
MS1-053	Erecting, barricading in jungle timber 75-100 mm Dia, vertical posts at .9m centres and 1.2 above ground including white washing. [SSCM 1709]	L.m	437.00
MS1-054	Temporary scaffolding for painting or tarring bridges and for weeding on bridges or retaining wall including Dismantling after work. [SSCM 1008.3(a)]	Sq.m	182.00
MS1-055	Roughening existing Smooth tarred metalled carriageway by hand for bonding, collecting Disposal of all loose materials [SSCM 03.3(b)]	Sq.m	28.00
MS1-056	Supply of Diesel for machineries	litre	125.00
MS1-057	Patching road with premix(Loose volume) after prep, surface with emulsion (CSS- 1) at .75 ltr/sq.m at tack coat including internal transport and hand stamping. (Supply of premix (Loose volume) paid separately) [SSCM 1102.3(b)] (including cost of emulsion)	Cu.m	8,033.00
MS1-058	Patching road with premix after preparing surface with emulsion (CSS-1) at .75 ltr/sq.m as tack coat, including internal transport and stamping with machine (Supply of premix paid separately) [SSCM 1102.3(b)(i)] (including cost of emulsion)	M.ton	7,885.00
MS1-059	Painting two coats enamel paint on kerbs, after cleaning and preparing surface	Sq.m	505.00
MS1-060	Preparing and stock piling premix at site using 12.5 mm aggregate and emulsion (CSS-1) (Including transport of aggregate) :(including cost of emulsion)	Cu.m	14,965.00
MS1-061	Breaking manually asphalt layer 2"-3" thick on the carriageway for kerb laying	L.m	677.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-062 (SSR)	Supplying and fixing of 1/2" thick regiform sheets as directed by Engineer	Sq.m	322.00
MS1-063 (SSR)	Supplying and fixing of Gauge 1000 polythene damp proof membrane with 6" laps laid under floors as directed by Engineer	Sq.m	57.00
MS1-064 (SSR)	Curing of Concrete for Road Surfaces	Sq.m/day	5.00
	From Item No. MSI-065 to MSI-067, Transport cost from plant to the laying site to be paid separately.		
MS1-065 (SSR)	Asphalt Concrete wearing course binder 60/70 bitumen 4.7% Mix-Dense (19mm) Ex-plant	M.ton	9,791.00
MS1- 066(SSR)	Asphalt concrete binder course binder bitumen 4.1% MIX-dense [19mm] - Ex- plant	M.ton	9,406.00
MS1- 067(SSR)	Asphalt Concrete Cut Back (19 mm)	M.ton	11,132.00
	Paving Blocks		
	Natural Colour Blocks - Item No. MS1-068 - MS1-075		
MS1-068	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,975.00
MS1-069	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,683.00
MS1-070	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 25 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,593.00
MS1-071	Supply & paving 60mm thick Rectangular (Approx. size 200mm x 100mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,384.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-072	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) natural colour precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,830.00
MS1-073	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) natural colour precast interlocking paving blocks of 30 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.		2,533.00
MS1-074	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) natural colour precast interlocking paving blocks of 25 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,434.00
MS1-075	Supply & paving 60mm thick Non-Rectangular (Approx. size 220mm x 110mm) natural colour precast interlocking paving blocks of 15 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,311.00
	Coloured Blocks - Item No. MS1-076 - MS1-083		
MS1-076	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	3,399.00
MS1-077	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,981.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
MS1-078	Supply & paving 80mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 25 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,862.00
MS1-079	Supply & paving 60mm thick Rectangular (Approx. size 200mm x 100mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength , on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,653.00
MS1-080	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 40 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	3,668.00
MS1-081	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 30 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,805.00
MS1-082	Supply & paving 80mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 25 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the high volume traffic areas. Paving blocks and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,657.00
MS1-083	Supply & paving 60mm thick Non-Rectangular (Approx. size 220mm x 110mm) coloured precast interlocking paving blocks of 15 N/mm ² compressive strength, on 2" thick compacted Quarry dust laid on top of a levelled and well compacted earth sub base for the Low volume traffic areas or Pedestrian areas. Paving blocks should confirming to S.L.S 1425 : Part I & II and subject to the approval of the quality & colour including transport and laying. Rate shall include hire charges of 1/2 - 1 ton vibrating roller.	Sq.m	2,533.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - XIV		
	SURVEYING		
SV1-001	Supply of unskilled labour	Days	2,280.00
SV1-002	Supply of semiskilled labour	Days	2,520.00
SV1-003	Supply of skilled "A" Grade labour	Days	2,880.00
SV1-004	Supply of skilled "B" Grade labour	Days	2,520.00
SV1-005	Clearing jungle (Light) to a width of 1.22 metres for survey work	km	8,709.00
SV1-006	Clearing jungle (Medium) to a width of 1.22 metres for survey work	km	11,612.00
SV1-007	Clearing jungle (Heavy) to a width of 1.22 metres for survey work	km	17,419.00
SV1-008	Supply of labour for chaining and cutting Pages and Pegging	km	2,407.00
CV1 000	Levelling Chaining and Pegging and establish bench marks on Concrete rock or pegs and Checking back levels	km	4,813.00
SV1-010	Surveying includign fixing pickets & taking angles	km	4,813.00
SV1-011	Changing traverse lines and taking off-sets	km	6,417.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
	SECTION - XV		
	NOTE ON LABORATORY TESTING OF ROAD CONSTRUCTION WORK		
	THE FOLLOWING LABORATORY TEST RATES ARE APPLICABLE WHEN IT IS NECESSARY TO DIRECT ADDITIONAL TESTING OVER AND ABOVE THE MINIMUM TESTING SPECIFIED IN THE SPECIFICATIONS.		
	PLEASE NOTE THAT NO PAYMENT SHOULD BE MADE FOR TESTING MENTIONED IN SPECIFICATION.		
	WHEN TESTS ARE CARRIED OUT IN THE FIELD, TRANSPORT CHARGES SHALL BE ADDED IN ADDITION TO THE TESTING CHARGES.		
	TESTING OF BITUMINOUS MATERIALS		
SSR	Penetration Test (ASTM D-5-97)	Item	2,900.00
SSR	Extraction and gradation test for Asphalt Mixes (ASTM D - 2172.05)	Item	5,103.00
SSR	Marshall Stability and Flow test (ASTM D - 1559-89)	Item	3,451.00
SSR	Marshall Density Test (3 Mould)	Item	2,785.00
SSR	Specific gravity of Bitumen (ASTM D - 70)	Item	2,020.00
SSR	Insitu Density of Asphalt Concrete (ASTM D - 2726-96)	Item	1,248.00
SSR	Cutting of Asphalt Concrete cores - 100mm	Item	3,500.00
SSR	Tray Test	Item	1,296.00
SSR	Softening Point Test (ASTM D -36-95)	Item	2,544.00
SSR	Distilation of Cut Back Bitumen/ Emulsion Test (ASTM D-402-91/D24499)	Item	3,856.00
SSR	Asphalt Concrete Mix Design	Item	89,122.00
SSR	Density of Asphaltic Concrete up to 3Nos.	Item	1,269.00
SSR	Extraction Test	Item	5,103.00
SSR	Ductility Test	Item	2,992.00
SSR	Flash point/ Fire point Test	Item	2,706.00
SSR	Kinematic Viscosity	Item	4,315.00
SSR	Loss on Heating	Item	3,683.00
SSR	Solubility Test	Item	2,830.00
	TESTING OF ROAD MARKING		
SSR	Road marking for 1 sample	Item	204.00
	TESTING OF CONCRETE		
SSR	Slump test of Concrete	Item	843.00
SSR	Casting of Concrete Cubes (3Cubes)	Item	1,960.00
SSR	Compressive Strength of Concrete Cubes	Item	810.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
SSR	Cutting Concrete Cores (100mm)	Item	4,065.00
SSR	Rental for casting mould (1mould)	Item	268.00
SSR	Cutting & Capping of Concrete Cores	Item	
SSR	Cost for Cutting 100mm dia. Core - Single Side	Item	934.00
SSR	Cost for Cutting 100mm dia. Core - Both Side	Item	1,438.00
SSR	Cost for Capping 100mm dia. Core - Both Side	Item	1,124.00
SSR	Concrete Mix Design	Item	67,414.00
SSR	Rebound Hammer Test (Per Unit)	Item	1,280.00
SSR	Compressive Strength of Concrete Core	Item	832.00
SSR	Cutting Concrete Cores (150mm)	Item	4,256.00
SSR	End Preparation of Cores 50mm dia. Core both side	Item	677.00
SSR	Concrete Core Capping both side 50mm	Item	719.00
SSR	End Preparation of Cores 50mm dia. Core Single side	Item	362.00
SSR	End Preparation of Cores 100mm dia. Core both side	Item	719.00
SSR	End Preparation of Cores 100mm dia. Core Single side	Item	362.00
SSR	End Preparation of Cores 150mm dia. Core both side	Item	719.00
SSR	End Preparation of Cores 150mm dia. Core single side	Item	362.00
SSR	Concrete Core Capping both side 100mm	Item	978.00
SSR	Concrete Core Capping both side 150mm	Item	978.00
	TESTING OF CONCRETE PAVING BLOCK		
SSR	Compressive Strength of Concrete Paving Block	Item	772.00
	TESTING OF AGGREGATE		
SSR	Paricle Size Distribution (Sieve Analysis)	Item	2,268.00
SSR	Field Density	Item	2,804.00
SSR	Modified Compaction Test	Item	5,880.00
SSR	Standard Compaction Test	Item	5,619.00
SSR	Aggregate Impact Value (AIV)	Item	3,408.00
SSR	Los Angales Abrassion Value Test (LAAV)	Item	5,217.00
SSR	Flakiness Index Test for Aggregate (FI)(Including Sieve Analysis Test)	Item	3,996.00
SSR	Elongation Index Test for Aggregate (Excluding Sieve Analysis Test)	Item	1,731.00
SSR	Relative Density & Water Absorption in Aggregate	Item	4,146.00
SSR	Bulk Density of Aggregate	Item	1,766.00
	TESTING OF SOIL		
SSR	Particle Size Distribution (Sieve Analysis)	Item	2,274.00

Item No.	Description	Unit	APPROVED RATES 2020/2021
SSR	Consistency Limit Test	Item	3,456.00
SSR	Field Density	Item	2,063.00
SSR	California Bearing Ratio (CBR)	Item	4,731.00
SSR	Modified Compaction Test	Item	4,461.00
SSR	Standard Compaction Test	Item	4,229.00
SSR	Dynamic Cone Penetration Test (DCP)	Item	2,879.00
SSR	Hand Auguring for 1st 1.0m	Item	1,308.00
SSR	Hand Auguring for 2nd 1.0m	Item	3,078.00
SSR	Hand Auguring for 3rd 1.0m	Item	2,987.00
SSR	Each Subsequent 1.0m from 3.0m	Item	1,494.00
	WHEN TESTS ARE CARRIED OUT IN THE FIELD, TRANSPORT CHARGES SHALL BE ADDED IN ADDITION TO THE TESTING CHARGES.		
SSR	Transport charges for testing.	Per km	45.90

ANNEXTURE - II

SPECIFICATION RELATED TO THE HSR ITEMS

1. EARTH WORK

- A). EMBANKMENT CONSTRUCTION: SSCM SECTION 304: TYPE I MATERIAL MDD>=1600KG/M^A3 TYPE II MATERIAL MDD>=1500KG/ M^A3 HSR 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	
20.0	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	LL	Pl
ZONE		
WET ZONE	<55	4-25
DRY ZONE	<55	6-25

C) SUB BASE :

CBR>=20%

LL<=40

PL<=15

HSR ITEMS: EW1-001, EW1-013

Rev.No.01

ANNEXTURE - II

2. AGGREGATES :

A) SINGLE SIZE AGGREGATE BASES : 50, 37.5, 19 & 12.5 MM - SSCM SECTION 403 : TABLE 1701-4

		PERCENTA	GE PASSING	
SIEVE SIZE		NOMINAL	SIZE IN MM	
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<=30% FL<=35%

HSR ITEMS: M1-004, M1-007, M1-008, M1-009, A1-005 TO A1-012

B). WATER BOUND MACADAM AND DRY BOUND MACADAM - SSCMSECTION 404 : (50 OR 63 MM AND CRUSHER FINES)

TABLE 1701-6			
	PEF	CENTAGE PASSI	NG
SIEVE SIZE MM	NOMINAL MAX	CRUSHER	
	63	50	FINES
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%

FL<=35%

HSR ITEMS: M1-010, M1-011

ANNEXTURE - II

C). PENETRATION MACADAM BASE - SSCM SECTION 406:

TABLE 1/01-/				
SIEVE SIZE			GE PASSING SIZE IN MM	
MM	50	37.5	20	14
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			-	-

TABLE 1701-7

AIV <= 30%

FL<=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			
MM	37.5	28	20	
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%

FL <= 35%

CBR>=80%

HSR ITEMS: M1-012, M1-013

<u>ANNEXTURE - II</u>

E) AGGREGATE GRADING, BINDER CONTENT AND THICKNESS REQUIREMENTS: SSCM SECTION 407:

ГАВLE 407-1				
MIX CLASSIFICATION	1	2	3	4
NO.				
NOMINAL MAXIMUM				
SIZE OF AGGREGATE	37.5	37.5	19	19
IN MM				
	DENSE	OPEN	DENSE	OPEN
COURSE	GRAD	GRAD	GRADE	GRADED
	ED	ED	D	GRADED
THICKNESS MM - MAX	100	100	50	40
- MIN	60	60	30	30
SIEVE SIZE MM	TOT	AL % BY	WEIGHT PA	ASSING
50	100	100	-	-
37.5	95-100	95-100	-	-
28	80-95	53-75	100	100
20	-	-	80-98	96-100
14	62-77	10-27	-	50-75
10	-	-	49-67	22-42
5	-	-	29-44	-
2.36	30-45	0-10	18-30	5-20
1.18	-	-	13-24	0-2
0.300	-	-)	5-14	-
PERCENT BINDER				
			2515	3.0-4.0
CONTENT BY TOTAL	3.0-4.0	2.5-3.5	3.5-4.5	5.0-4.0

TABLE 407-1

AIV<=30%

FL<=35%

HSR ITEMS: B0-362, S1-032

ANNEXTURE - II

3. SURFACING :

ASPHALT CONCRETE: SSCM SECTION 506: A)

TABLE 506-1

TABLE 500-1			
MIX CLASSIFICATION	BIND	WEARING	WEARING
NO. COURSE	ER	COURSE	COURSE
	COUR	TYPE-1	TYPE-2
	SE		
THICKNESS MM - MAX	75	75	75
- MIN	35	35	35
CIEVE CIZE MM	TOTAL	% BY WEIG	HT PASSING
SIEVE SIZE MM	INCL	UDING FILLI	ER IF USED
28	100	100	-
20	90-100	85-100	100
14	-	-	82-92
10	56-82	66-94	61-81
5	36-58	46-74	41-66
2.36	21-38	35-58	27-48
1.18	15-33	26-48	20-40
0.600	10-26	18-38	15-35
0.300	06-20	11-28	10-25
0.150	03-13	07-20	07-17
0.075	01-07	03-12	05-09
PERCENTAGE BINDER			
CONTENT BY TOTAL	3.5-4.5	4.0-6.5	4.0-6.0
WEIGHT OF MIX			

AIV<=30% FL<=35%

LAAV<=40%

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

B)

SEAL COAT TREATMENTS (SURFACE DRESSING) SSCM SECTION 506: TABLE 1701-8

INDEE 1701	0				
SEIVE	PERCENTAGE PASSING				
SIZE		NOMINAL S	IZE IN MM		
ММ	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%

FL<=35%

LAAV<=40%

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

V Rev.No.01

<u>ANNEXTURE – II</u>

C) COLD MIX SURFACINGS: SSCM SECTION 507: TABLE 507/1

GRADING	DENSE (GRADED	OPEN G	RADED
TYPE NOMINAL MAX SIZE OF AGGREGATE	19MM	12.5MM	19MM	12.5MM
SIEVE SIZE MM	TOTAI	L PERCENTAGE	PASSING BY W	EIGHT
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%

FL<=35%

LAAV<=40%

HSR ITEMS:

BO-365, BO-366, S1-033, S1-033A

<u>ANNEXTURE – II</u>

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 : BO-352, S1-022, S1-023, S1-024, S1-025

b). Sand Seal – CRS-1 emulsion – SSCM section 1702.3: Shall conform to ASTM D2397-98 Cutback bitumen (8-12%) : SSCM section 1702.2 Bitumen 80-100 penetration grade bitumen : SSCM section 1702.1 HSR items : BO-353, S1-011, S1-012, S1-013, S1-014, S1-027, S1-035, S1-036

c). Surface dressing – CRS-2 emulsion – SSCM section 1702.3: Shall conform to ASTM D2397-98

Residue on distillation minimum 65% Viscosity min. 100 Saybolt furol seconds HSR items : BO-354, S1-029, S1-030

Rev.No.01

ANNEX - IV

Cu.m Transport cost on KM distance involving small quantities

Cost of Transport from 0.5Km up to 1 km per cu.m	(T1-003)	332.00
Rate for each subsequent km from 1km up to 8 th km	(T1-003A)	52.00
Rate for each subsequent km beyond 8 th km	(T1-003B)	35.00

Distance	Distance/km	Cost/Cu.m/Trip (Rs.)	Distance/km	Cost/Cu.m/Trip (Rs.)
0.5 Up to	1	332.00	43	1,921.0
	2	384.00	44	1,956.0
	3	436.00	45	1,991.0
	4	488.00	46	2,026.0
	5	540.00	47	2,061.0
	6	592.00	48	2,096.0
	7	644.00	49	2,131.0
	8	696.00	50	2,166.0
	9	731.00	51	2,201.0
	10	766.00	52	2,236.0
	11	801.00	54	2,306.0
	12	836.00	56	2,376.0
	13	871.00	58	2,446.
	14	906.00	60	2,516.
	15	941.00	62	2,586.
	16	976.00	64	2,656.
	17	1,011.00	66	2,726.
	18	1,046.00	68	2,796.
	19	1,081.00	70	2,866.
	20	1,116.00	72	2,936.
	21	1,151.00	74	3,006.
	22	1,186.00	76	3,076.
	23	1,221.00	78	3,146.
	24	1,256.00	80	3,216.
	25	1,291.00	82	3,286.
	26	1,326.00	84	3,356.
	27	1,361.00	86	3,426.
	28	1,396.00	88	3,496.
	29	1,431.00	90	3,566.
	30	1,466.00	92	3,636.
	31	1,501.00	94	3,706.
	32	1,536.00	96	3,776.
·	33	1,571.00	98	3,846.
	34	1,606.00	100	3,916.
	35	1,641.00	102	3,986.0
	36	1,676.00		
	37	1,711.00		
	38	1,746.00		
	39	1,781.00		
	40	1,816.00		1
	41	1,851.00		
	42	1,886.00		

ANNEX - V

Daily Labour Rates for year 2020/2021 HSR

	Basic Salary	Cost Of Living Allowance	RDA Allowances	Exrta Work Allowance 15%	Matching Allowances	Sub Total	12% EPF Rs.	3% ETF Rs.	Total/Day Rs.	Rate For 2020/2021
1 UnSkilled Labour	825.00	260.00	104.76	56.86	81.50	1,328.12	159.37	39.84	1,527.34	1,900.00
2 Semi Skilled Labour	858.33	260.00	104.76	62.41	91.00	1,376.50	165.18	41.30	1,582.98	2,100.00
3 Skilled Labour ''B''	876.33	260.00	104.76	66.54	98.00	1,405.63	168.68	42.17	1,616.47	2,100.00
4 Skilled Labour "A"	912.33	260.00	104.76	74.41	112.00	1,463.50	175.62	43.91	1,683.03	2,400.00

1

ANNEXTURE - VII

Machine Hire Rates 2020/2021

Provincial Road Development Authority (W/P)

S.No.	Machine	Capacity	Unit	Wet Rate with 20% Overhead & Profit (Rs.)	Dry Rate with 20% Overhead & Profit (Rs.)
1	Asphalt Paver	2.6 - 4.5 m Wheel	Per Hour	10,470.00	9,345.00
		2.6 - 4.5 m Crawler		9,410.00	8,285.00
2	Pneumatic Tyre Roller	8-10 Ton	Per Hour	4,970.00	4,220.00
3	Static Roller Chinese	8-10 Ton	Per Hour	3,475.00	2,975.00
4	Air Compressor	250 CFM	Per Hour	4,270.00	2,770.00
5	Emulsion Sprayer	200 L	Per Hour	1,900.00	1,670.00
6	Vibrating Roller	8-10 Ton	Per Hour	5,030.00	3,780.00
7	Hydraulic Excavator	215 Hp	Per Hour	3,750.00	2,600.00
8	Hydraulic Excavator	135 Hp	Per Hour	2,860.00	2,100.00
9	Prime mover with Low Bed Trailer	30 Ton	Per Km	350.00	270.00
10	Prime mover with Low Bed Trailer	40 Ton	Per Km	400.00	300.00
11	Motor Grader	10 or 12 Ft Blade	Per Hour	7,470.00	5,970.00
12	Backhoe Loader	2WD or 4WD	Per Hour	3,840.00	2,965.00
13	Wheel Loader	1.7 m ³ Capacity	Per Hour	4,400.00	3,150.00
14	Bulldozer D4 Class	(80 - 85 Hp)	Per Hour	3,150.00	2,200.00
15	Bulldozer D3 Class	(60 - 65 Hp)	Per Hour	2,770.00	2,000.00
16	Vibrating Roller	1 Ton	Per Day	7,050.00	6,050.00
17	Tippers	1.5 Cubes	Per Km	125.00	90.00
18	Trucks	1.5 Cubes	Per Km	110.00	80.00
19	Plate Compactor	90/60 Kg	Per Hour	610.00	450.00
20	Tractor & Trailer		Per Day	7,760.00	6,260.00
21	Skid Steer Loader		Per Hour	1,840.00	1,340.00
21	Broom Attachment		Per Hour	2,900.00	-
22	Motor Grader	10 Ft Blade (60-80 Hp) Champion	Per Hour	3,590.00	2,840.00
23	Bitumen Distributor	6000 L	Per Hour	5,475.00	3,700.00
-	Truck		Per Km	125.00	90.00
24	Asphalt Tanker	Capacity 10,000 liters	Per Km	260.00	215.00
25	Diesel Tanker	Capacity 8,000 liters	Per Km	175.00	140.00
26	Crane Truck	10 Ton, travelling	Per Km	160.00	130.00
20	Boom Attachment	3 Ton	Per Hour	1,500.00	-

Machine Hire Rates 2020/2021

Provincial Road Development Authority (W/P)

S.No.	Machine	Capacity	Unit	Wet Rate with 20% Overhead & Profit (Rs.)	Dry Rate with 20% Overhead & Profit (Rs.)
27	Crane Truck	10 Ton, travelling	Per Km	210.00	150.00
27	Boom Attachment	5 Ton	Per Hour	1,500.00	-
28	Tippers	3 Cubes	Per Km	165.00	125.00
29 S	Street Sweeper Truck		Per hour	7,500.00	6,000.00
	Sheet Sweeper Truck		Per Km	125.00	90.00
30	Concrete Paver		Per Hour	11,000.00	9,750.00
31	Water Bowser	10000 ltrs	Per Day	16,350.00	12,650.00
32	Amphibious Excavator		Per Hour	6,000.00	5,000.00

* Rates with 20% Over heads and profits and without taxes

* minimum 4 hours per day will be charged