



Government of Andhra Pradesh

DRAFT

**COMMON SCHEDULE OF RATES
FOR THE YEAR 2019-20
(Effective from 1st June, 2019)**

R&B Department, AP

ROAD & BRIDGE WORKS

INDEX
PART-II
ROAD & BRIDGE WORKS

Sl. No.	Description	Page No.	
		From	To
1	Preamble	1	4
2	Labour Rates	5	8
3	Material & Work Item Rates	9	18
4	Hire Charges of Plant & Machinery for Road & Bridge Works	19	22

PREAMBLE

1.0 AREA ALLOWANCES:

A) CORPORATIONS & MUNICIPALITIES:

- a) (i) 25% extra over the rates on labour component of works is allowed in all Municipal Corporation Limits of Andhra Pradesh except Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation (Upto a belt of 12 kms from Municipal corporation limits) and other Municipal Corporations as notified by the Government from time to time.
- (ii) 40% extra over the rates on labour component of works for Greater Visakhapatnam and Vijayawada Municipal Corporation limits (Upto a belt of 12 kms from Municipal corporation limits)
- (iii) 40% extra over the rates on labour component of works for Amaravati Capital City area (217 Sq. Km) as declared by the Govt. vide GO MS No. 141 MA&UD (M2) Dept., dt. 9.6.2015 (This is introduced as per the Govt. instructions issued in Govt. Memo No. 668755/ Reforms/ 2017 dt. 14.7.2017).
- b) Allow 20% extra over basic rates on labour component of works in all District Headquarters and the remaining Municipal limits (up to a belt of 12 Kms. from Municipal limits)
- c) For works at Tirumala Hills in Chittoor District, 40% extra over the basic rates of labour component is allowed.
- d) For works at Horsely hills in Chittoor District, 30% extra over the basic rates of labour component is allowed.
- e) For works located inside Tirumala Temple, 20% extra over the basic rate of labour component specified for Tirumala Hills is allowed.
- f) For Works located inside T.T.D Temples of Sri Padmavathi Ammavari Temple, Tiruchanoor, Sri Govindaraja Swamy Temple at Tirupathi, Sri Kapileswara Swamy Temple, Kapilatheertham, Tirupathi and Sri Kalyana Venkateswara Swamy Temple, Srinivasa Mangapuram , 20% extra over the basic rates of labour component for Tirupathi Municipal Corporation is allowed.

B) JAIL COMPOUNDS:

20% extra is allowed over labour rates for the works in the Jail compounds. Only equivalent number of Man Mazdoor shall be provided in the Jail premises and no Women Mazdoor are allowed inside.

C) INDUSTRIAL AREA:

- a. 20% Extra over basic rates on labour component works allowed for works situated within 10 Kms belt of Industrial area of Ibrahimpatnam, Vuyyuru, Jaggaiahpetta in Krishna District, Macherla, Gurajala, Challapalli in Guntur District, Garividi in Vijayanagaram District, Renigunta in Chittoor District, Yerraguntla & Mangampet in Kadapa District, Hindupur, Tadipatri, Anantapur, Guntakal, Rayalcheruvu, Yadiki of Anantapur District, Adoni, Dhone, Cement Nagar, Nandyal, Kurnool, Yemmiganur & Bethamcherla of Kurnool District and Anakapally of Vishakhapatnam District.

D) AGENCY / TRIBAL AREAS:

- a) 25% extra allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located with in & upto 16 KMs from any all weather route inside Agency / Tribal.
- b) 40% extra allowed for the works located with in the interior Agency / Tribal limits, i.e. for the works located beyond 16 KMs from any all weather route inside Agency / Tribal.

- NOTE:**
1. No extra percentage is permissible in respect of Forest produce such as Bamboo, Rellu grass and for all materials obtained from outside the Agency / Tribal.
 2. The extra percentage under Agency / Tribal areas allowance may be allowed on the labour component and on the labour charges in the rates for conveyance of materials.
 3. The extra percentage on cost of materials in Agency / Tribal areas can be allowed on the labour component only, if they are manufactured in the Agency / Tribal areas itself except Forest produce.

E) GHAT ROADS:

For Ghat Roads steeper than 1 in 20, the length of the road may be taken as 1.5 times the existing length of the road for the purpose of leads only for conveyance of materials based on the certificate for the Ghat Road given by the Superintending Engineer concerned.

Note: Under compelling circumstances, the concerned Chief Engineer can adopt the equivalent length of road as 2 ½ times of actual length.

Note for area allowances:

If more than one area allowance (such as those) for (1) Municipalities (2) Agency / Tribal areas (3) Industrial areas are applicable for a particular situation, only the maximum out of the allowable percentages is to be allowed.

2.0 WATER LEADS:

The following labour is allowed for conveyance of water for every ½ Kilometer lead or part there of over the initial lead of ½ kilometer.

- | | | |
|--------------------|---|----------------------------|
| a) Cement concrete | : | 1.5 Women Mazdoor / Cum. |
| b) Masonry | : | 1.0 Woman Mazdoor/ Cum. |
| c) Plastering | : | 0.5 Woman Mazdoor/ 10 Sq.m |

Note:- For Water leads of over 2 KMs, specific approval of Chief Engineer concerned is necessary.

3.0 EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

I) EXCAVATION OF TRIAL TRENCHES, TRIAL PITS AND EXCAVATION IN RESTRICTED PLACES: -

A. TRIAL TRENCHES:

- 1) Trial trenches of not more than 2 metres in width ...25% extra

B. TRIAL PITS:

- 1) Up to 2 Metres depth ... 25% extra
- 2) 2 Metres to 4 Metres depth ... 50% extra

- 3) 4 Metres to 6 Metres depth ... 75% extra
- 4) 6 Metres to 8 Metres depth ... 100% extra
- 5) 8 Metres to 9 Metres depth ... 150% extra
- 6) More than 9 Metres depth ... 200% extra

II) EXCAVATION IN RESTRICTED PLACES:-

- I) Foundation of Buildings 75% extra
- II) For pipe lines where the depth is less than 1.5 times the width 75% extra
- III) For pipe lines where the depth is 1.5 times or more than the width 120% extra
- IV) Silt removal in restricted areas such as U. T's., Culverts and Syphons. ... 120% extra
- V) Excavation of field channels ... 75% extra
- VI) For narrow trenches not more than 2 meters in width and depth not less than twice the width and for excavation of road boundary drains, model sections of canals. ... 75% extra
- VII) High berm cutting of not more than 150 mm average thickness and Sectioning for roads ... 50% extra

- Note:** 1) The extra percentage is allowed over rate for corresponding soil. It includes the charges for all lifts and initial lead but does not include dewatering charges if any in respect of all the items under (A) and (B) above.
- 2) The above extra percentages in respect of excavation in hard rock for restricted places are to be allowed for (2/3) rd of the cost and shall not to be allowed in respect of items involving blasting component which may be taken as 1/3 of the cost.

4.0 Proportion of First class and 2nd class workmen under Skilled Labour:

30% of the skilled labour provided in the data may be taken as 1st Class and the remaining 70% as 2nd Class.

5.0 Revetment and apron works:

- I) The size of stone for the volume range (0.015 to 0.030 Cum) shall not be less than (0.30 X 0.30 X 0.15 to 0.30 X 0.225 X 0.225m)
- II) The size of stone for the volume range (0.011 to 0.015 Cum) shall not be less than (0.30 X 0.225 X 0.15 to 0.225 X 0.225 X 0.225 m)
- III) The rate of labour component as per the standard data book is to be adopted for revetment work only. However for apron work Rs. 3.00 per cum. should be deducted.

6.0 Deep cuts:

Deep cuts are defined as reaches of canal where excavation in all soils is for a depth of excavation 6m and more. The following increase over normal rates is permitted in deep cuts on a graded basis.

- I) Up to 6 m excavation: The S. S. R. of corresponding classification of earth work excavation is applicable.
- II) Beyond 6 m and up to 9 m excavation - 9% extra
- III) Beyond 9 m and up to 12 m excavation - 12% extra

IV)	Beyond 12 m and up to 16 m excavation	-	15% extra
V)	Beyond 16 m and up to 30 m excavation	-	20% extra
VI)	Beyond 30 m excavation	-	40% extra

NOTE : 1) The extra percentage is only on basic rate. 2) The above percentage are not applicable for “LEADS & LIFTS”. 3) The above extra percentages are to be allowed only on items excluding the blasting component which may be taken as 1/3 of the rate.

7.0 The conveyance of bitumen for bulk and packed may be admitted as follows:

Packed -- Rs. 1.75 per Km/ MT
Bulk -- Rs. 1.65 per Km/ MT (round the trip)

8.0 SEIGNIORAGE CHARGES:

Seigniorage charges for materials as fixed by the Government in G.O.Ms.No.100 (Industries and commerce department) Dt. 31.10.2015 may be added in the data of rates in the estimate. The Provision towards Contractor's Profit and Overhead charges **should not be operated** on the Seigniorage Charges while adding Seigniorage Charges to the data in the estimate. In case of revision, the revised rates as fixed by Mines and Geology Department have to be adopted.

9.0 *Earthwork excavation rate for Trench cutting, formation of embankment & shoulders, foundations, removal of unserviceable soil etc., is to be arrived based on the Machinery adopted in the MoRTH Standard data book for excavation of soil.*

10.0 All the Materials and Machinery Hire charges are excluding Taxes.

11. 0 *The cost of Borrow earth in Krishna and Guntur districts for Earth work embankment at twice the rates of the same in other districts as per Si. No. M092 of SoR Part-I considering extreme scarcity of Borrow earth due to the developmental works for the New Capital Amaravathi.*

LABOUR RATES

Si. No	S.S. Item No.	Description	Unit (Per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks
1	2	3	4	5	6	7
		(A) SKILLED WORKMEN				
		First Class				
1	a	Mason and stone cutter	Day	490	588	20.00%
2	b	Brick Layer	Day	475	570	20.00%
3	c	Carpenter	Day	550	660	20.00%
4	d	Painter	Day	550	660	20.00%
5	e	Plumber	Day	550	660	20.00%
6	f	Welder	Day	490	588	20.00%
7	g	Fitter	Day	520	624	20.00%
8	h	Electrician	Day	555	666	20.00%
9	1	Cook	Day	450	540	20.00%
10	2	Mechanic	Day	510	612	20.00%
11	3	Rigger	Day	515	618	20.00%
12	4	Rigger Syrang	Day	515	618	20.00%
13	5	Well Sinker	Day	515	618	20.00%
14	6	Blaster	Day	550	660	20.00%
15	3	Bar bender	Day	600	720	20.00%
16	7	Tipper and Heavy Vehicle Driver above 12 T	Day	550	660	20.00%
17		Tanker and medium Vehicle driver (7.5 T to 12 T)	Day	513	615	19.88%
18		Tanker and Light Vehicle driver up to 7.5 T	Day	396	475	19.95%
19		Wagon Drill Operator upto 7.5 T	Day	512	614	19.92%
20	8	Lorry and Heavy Vehicle Driver above 12 T	Day	543	651	19.89%
21		Road Roller Driver (7.5 T to 12 T)	Day	490	588	20.00%
22		Road Roller Driver 7.5 T	Day	Deleted		
23	9	Tractor Driver above 12 T	Day	Deleted		
24		Tractor Driver (7.5 T to 12 T)	Day	Deleted		
25		Tractor Driver 7.5 T	Day	494	593	20.04%
		<u>Operator</u>				
26	10	Pan Mixer	Day	530	636	20.00%
27		Concrete Mixer	Day	490	588	20.00%
28		Vibrator	Day	490	588	20.00%
29		Compressor	Day	493	591	19.88%
30		Jack Hammer	Day	490	588	20.00%
31		Driller	Day	550	660	20.00%
32		Boring Maistry	Day	474	569	20.04%
33	11	Pump operator	Day	490	588	20.00%
34	12	Turner Grade-I	Day	515	618	20.00%

Si. No	S.S. Item No.	Description	Unit (Per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks
1	2	3	4	5	6	7
35	13	Wireless Operator	Day	550	660	20.00%
36	14	Assistant Wireless Operator	Day	470	564	20.00%
37	15	Jeep Driver	Day	545	654	20.00%
38	16	Work Inspector with I.T.I qualification	Day	560	672	20.00%
39	17	Work Inspector with LCE, LME,L.E.E qualification	Day	725	870	20.00%
40	18	Work Inspector with B.E (Civil, Mechanical and Electrical) qualification	Day	935	1122	20.00%
41	19	Work Inspector with Non-technical qualification SSLC/SSC/HSC	Day	550	660	20.00%
42	20	Mason Spl. Grade for Mossaic and Polished shahabad stone floor	Day	508	609	19.88%
43	21 a(i)	Typist / Job Typist	Day	550	660	20.00%
	a (ii)	Computer operator	Day	610	732	20.00%
	b	CAD Operator with Diploma in Engineering /General degree with CAD certificate	Day	750	900	20.00%
		(B) SEMI –SKILLED WORKMEN				
		SECOND CLASS				
44	a	Mason	Day	440	528	20.00%
45	b	Brick Layer and Stone Cutter	Day	440	528	20.00%
46	c	Carpenter	Day	440	528	20.00%
47	d	Painter	Day	440	528	20.00%
48	e	deleted		deleted		
49	f	Blacksmith	Day	475	570	20.00%
50	g	Welder	Day	451	541	19.96%
51	h	Fitter	Day	451	541	19.96%
52	i	Electrician	Day	451	541	19.96%
53	2	Caulker	Day	451	541	19.96%
54	4	Tinker	Day	451	541	19.96%
55	5	Sawyer	Day	451	541	19.96%
56	6	Brick-Moulder	Day	451	541	19.96%
57	7	Pot-tile turner	Day	451	541	19.96%
58	8	Pan-tile turner	Day	451	541	19.96%
59	9	Brick and Lime Kiln man/Glazier	Day	451	541	19.96%
60	10	Telephone Operator	Day	550	660	20.00%
61	11	Hand Driller	Day	452	542	19.91%
62	12	Quarry Man	Day	452	542	19.91%
63	13	Hammer Man	Day	440	528	20.00%
64	14	Thatcher	Day	451	541	19.96%
65	15	Fireman	Day	451	541	19.96%

Si. No	S.S. Item No.	Description	Unit (Per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks
1	2	3	4	5	6	7
66	16	Cleaner/Helper	Day	451	541	19.96%
67	17	Stone Packer	Day	451	541	19.96%
68	18	Jawali	Day	451	541	19.96%
69	19	Ex-Service man/Goorkha watchman	Day	451	541	19.96%
70	20	Ratton Worker	Day	451	541	19.96%
71	21	Mate	Day	451	541	19.96%
72	1	Head Mazdoor (Mukaddar)	Day	440	528	20.00%

(C) UNSKILLED WORKMEN

73	2	Man Mazdoor	Day	400	480	20.00%
74	3	Watch Man	Day	400	480	20.00%
75	5	Woman Mazdoor	Day	400	480	20.00%
76	6 (b)	Helper/Cleaners/Sweepers/Scavengers/Choukidars/Security Guards/Office Boys	Day	400	480	20.00%
77	<i>Note : Whenever unskilled workmen are engaged for cleaning of Sewers & Septic Tanks, they may be paid double the above wages.</i>					
78	1	Single bullock with driver and cart	Day	465	558	20.00%
79	2	Bullock pair with driver	Day	516	619	19.96%
80	3	Bullock pair with driver and cart	Day	500	600	20.00%
81	4	Bullock pair with driver and cart with pneumatic tyres	Day	575	690	20.00%
82	5	Bullock pair driver and kapila	Day	Deleted		
83	6	Nava with crew	Day	440	528	20.00%
84	7	Punt thundal	Day	385	462	20.00%
85	8	Punt lascar	Day	385	462	20.00%
	Note:	1) The wage should not be less than the minimum wages of schedule of employment, subject to out turn.				
		2) 25% extra over the corresponding labour rates in respect of the work to be done during night time subject to issue of certificate accordingly by the concerned estimate sanctioning authority for providing in the data and by the concerned Executive Engineer in charge of the work for payment. The night time allowance is applicable only to the works done under Greater Visakhapatnam Municipal Corporation and Vijayawada Municipal Corporation only.				

MATERIAL & WORK ITEM RATES

RATES OF MATERIALS & WORK ITEMS

RATES OF MATERIALS & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
		(A) STONE AND ROAD MATERIALS				
		ROUGH STONE QUARRIED INCLUDING WEDGING, BREAKING, BURNING, SPLITTING.				
1	22.a	For R.R Masonry Work (other than Granite, Dolomite and Trap)	1 cum	171.45	171.45	0%
2	b.i	For SS Revetment work 225 mm	1 cum	138.00	138.00	0%
3	b.ii	For SS Revetment work 300 mm	1 cum	156.00	156.00	0%
4	b.iii	For SS Revetment work 450 mm	1 cum	148.55	148.55	0%
5	c	Jeddy Stone above 450 mm to 600 mm	1 cum	196.20	196.20	0%
6	d i	Laterite for revetment 225 mm	1 cum	129.50	129.50	0%
7	d ii	Laterite for revetment 300 mm	1 cum	151.43	151.43	0%
8	d iii	Granite for SS revetment 225 mm	1 cum	168.55	168.55	0%
9	d iv	Granite for SS revetment 300 mm	1 cum	163.80	163.80	0%
		Note:- Only when other granite is not available				
10	e	Laterite for masonry	1 cum	148.55	148.55	0%
11	f	Cyclopean stones above 0.2 cum	1 cum	278.10	278.10	0%
12	g	For R.R.Masonry works (granite, dolomite and trap variety)	1 cum	240.00	240.00	0%
13		NOTE:- For items 22(a) to 22© and 22(g) add extra Rs /cum, wherever quarrying is done by blasting	1 cum	70	70	0%
		COURSED RUBBLE STONE QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING FOR SS FIRST SORT WORKS				
14	23.a	Granite, Dolomite and trap	1 cum	274.30	274.30	0%
15	23.b	For other varieties	1 cum	197.15	197.15	0%
16	27	Granite stone slabs for culverts, lintels and copings (3 faces dressed coarsed rubble masonry)	1 cum	1810.50	1810.50	0%
17		NOTE: - For items 23(a), 23(b) and 27 add extra Rs. Per Cum, wherever quarrying is done by blasting	1 cum	82.00	82.00	0%
18	28	Bond stones (600 x 200 x 200 mm)	each	47.60	47.60	0%
19	B	Chainage stones and Centre line stones (750x150x150 mm)	each	47.60	47.60	0%
20	31	Demarcation Stones (900 x 150 x 150 mm)	each	85.70	85.70	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
21	32.a	Guard Stones (1200 x 200 x 200 mm)	each	144.75	144.75	0%
22	B	Guide Stones (800 x 150 x150 mm)	each	97.15	97.15	0%
23	C	Carving letters and figures in stone up to 100 mm size	each	9.50	9.50	0%
24	D	Carving letters and figures in stone above 100 mm size	each	10.50	10.50	0%
		HARD BROKEN STONE OF GRANITE, TRAP AND DOLERITE FREE FROM DUST OBTAINED BY QUARRYING, WEDGING, BREAKING, BURNING AND SPLITTING				
25	33.a	- do - 6mm size (SS 5)	1 cum	506.40	750.00	48.10%
26	b	- do - 10mm size (SS 5)	1 cum	659.20	976.00	48.06%
27	c	- do - 12mm size (SS 5)	1 cum	782.40	1162.00	48.52%
28	d	- do - 20mm size (SS 5)	1 cum	986.40	1465.00	48.52%
29	e	- do - 25mm size (SS 5)	1 cum	947.20	1405.00	48.33%
30	f	- do - 40mm size (SS 5)	1 cum	590.40	875.00	48.20%
31	g	- do - 50mm size (SS 5)	1 cum	434.30	434.30	0%
32	h	- do - 60mm size (SS 5)	1 cum	399.05	399.05	0%
33	i	- do - 65mm size (SS 5)	1 cum	360.95	360.95	0%
34	j	- do - 75mm size (SS 5)	1 cum	289.50	289.50	0%
35	k	- do - 75 to 100mm size (SS 5)	1 cum	236.20	236.20	0%
36		NOTE:- (1) Add extra Rs. /- per cum for items 33 (a) to 33 (k) if the metal is obtained by blasting	1 cum	70	70	0%
37		(2) Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	25%	0%
38		(3) Deduct Rs. /- per cum if the metal or rubble is obtained from surface stone and boulders.	1 cum	9.9	9.9	0%
39		(4) Add Rs. /- per cum for selection of stones and boulders from excavated spoil dumps for items 33 a to 33 k, when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum mentioned under Note (3) above should invariably be made.	1 cum	17	17	0%
			1 cum	9.9	9.9	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
		SOFT BROKEN STONE SCREENED AND FREE FROM DUST				0%
40	33.l	- do - 40 mm size (SS 5)	1 Cum	117.15	117.15	0%
41	33.m	- do - 50 mm size (SS 5)	1 Cum	105.70	105.70	0%
42	33.n	- do - 60 mm size (SS 5)	1 Cum	82.85	82.85	0%
43	33.o	- do - 65 mm size (SS 5)	1 Cum	74.30	74.30	0%
44	33.p	- do - 75 mm size (SS 5)	1 Cum	69.50	69.50	0%
		HARD BROKEN STONE OF GRANITE TRAP DOLERITE AND DOLAMITE FREE FROM DUST OBTAINED BY QUARRYING WEDGING, BREAKING, BURNING AND SPLITTING (QUARTZITE AND BASALT WITH AGGREGATE IMPACT OF LESS THAN 20)				
45	33a	-do- 2.36 to 5 mm size (IRC&MORTH)	1 cum	293.35	500.00	70.44%
46	b	-do- 5 to 7mm size (IRC&MORTH)	1 cum	480.00	600.00	25.00%
47	c	-do- 9.5 to 11.2mm size (IRC&MORTH)	1 cum	624.75	781.00	25.01%
48	d	-do- 12mm to 14 mm size (IRC and MORTH)	1 cum	742.85	929.00	25.06%
49	e	-do- 19 mm to 22 mm size (IRC and MORTH)	1 cum	937.15	1172.00	25.06%
50	f	-do- 25 mm to 27 mm size (IRC and MORTH)	1 cum	899.05	1124.00	25.02%
51	g	-do- 40 mm to 45 mm size (IRC and MORTH)	1 cum	560.00	700.00	25.00%
52	h	-do- 50 mm to 55 mm size (IRC and MORTH)	1 cum	434.30	478.00	10.06%
53	i	-do- 60 mm to 63 mm size (IRC and MORTH)	1 cum	399.05	500.00	25.30%
54	j	-do- 65 mm size (IRC and MORTH)	1 cum	360.95	360.95	0%
55	k	-do- 75 mm size (IRC and MORTH)	1 cum	289.50	289.50	0%
56	1	NOTE:- Add extra Rs. /- per cum for items 33 (a) to 33 (j) if the metal is obtained by blasting	1 cum	70	70	0%
57	2	Add 25% extra per cum if the metal is obtained by machine crushing excluding cost of blasting.	1 cum	25%	25%	0%
58	3	Deduct Rs. /- per cum if the metal or rubble is obtained from surface stones and boulders	1 cum	9.9	9.9	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
59	4	Add Rs. /- per cum for selection of stones and boulders from excavated soil dumps for items 33 (a) to 33 (k), when this addition of Rs. /- per cum allowed deduction of Rs. /- per cum mentioned under note (3) above should invariably be made	1 cum	17	17	0%
				9.9	9.9	0%
		HARD BROKEN STONE OTHER THAN GRANITE SUCH AS QUARTZ, QUARTZ-NAPA AND BASALT SCREENED AND FREE FROM DUST				
60	33.q	- do - 10 mm size (SS 5)	1 Cum	367.60	367.60	0%
61		-do- 9.5 mm to 11.2 mm size (IRC and MORTH)	1 Cum	367.60	367.60	0%
62	r	- do - 12 mm size (SS 5)	1 Cum	344.75	344.75	0%
63		-do- 12mm to 14 mm size (IRC and MORTH)	1 Cum	344.75	344.75	0%
64	S	- do - 20 mm size (SS 5)	1 Cum	279.05	279.05	0%
65		-do- 19 mm to 22 mm size (IRC and MORTH)	1 Cum	279.05	279.05	0%
66	T	- do - 25 mm size (SS 5)	1 Cum	273.35	273.35	0%
67	U	- do - 40 mm size (SS 5)	1 Cum	161.90	161.90	0%
68		-do- 40 mm to 45 mm size (IRC and MORTH)	1 Cum	161.90	161.90	0%
69	V	- do - 50 mm size (SS 5)	1 Cum	142.85	142.85	0%
70		-do- 50 mm to 55 mm size (IRC and MORTH)	1 Cum	142.85	142.85	0%
71	33.w	- do - 65 mm size (SS 5)	1 Cum	135.25	135.25	0%
72		-do- 60 mm to 65 mm size (IRC and MORTH)	1 Cum	135.25	135.25	0%
73	X	- do - 75 mm size (SS 5)	1 Cum	111.45	111.45	0%
74		- do - 75 mm size (IRC &MORTH)	1 Cum	111.45	111.45	0%
75	Y	- do - 75 to 100 mm size (SS 5)	1 Cum	87.60	87.60	0%
76		- do - 75 to 100 mm (IRC& MORTH)	1 Cum	87.60	87.60	0%
		OTHER ITEMS				0%
77	33.z1	Laterite 40 to 75 mm (ring)	1 Cum	96.20	96.20	0%
78	z2	kankar, hard broken kankar 40 to 75 mm (ring)	1 Cum	71.45	71.45	0%
79	z3	Soling stone of 150 mm size of granite, trap and Dolomite varieties.	1 Cum	90.50	90.50	0%
80		NOTE:- (1) Add extra for items to 33(z3) Rs /- Per cum, wherever quarrying is done by blasting. (2) Wherever controlled blasting is resorted to the Chief Engineer concerned shall approve the observed data in support of SS item No. 22 a to 22 c , 22g, 23	1 Cum	70	70	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	So Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
81	z4	Soling stone of 150 mm size other than granite variety	1 Cum	72.40	72.40	0%
82	z5	Soling Stone laterite, Kankar 150mm, surface stone	1 Cum	44.75	44.75	0%
83	z6	Field picked metal unbroken 20 mm size	1 Cum	58.10	58.10	0%
84	z7	- do - 25 mm size	1 Cum	43.80	43.80	0%
85	z8	- do - 40 mm size	1 Cum	50.50	50.50	0%
86	z9	- do - 50 mm size	1 Cum	43.80	43.80	0%
87	z10	- do - 60 mm size	1 Cum	38.10	38.10	0%
88	z11	- do - 80 mm size	1 Cum	33.35	33.35	0%
89	NOTE:- Add Rs. /- Per Cum for selection of stone and boulders from excavated spoil dumps for items 33 (Q) TO 33 Z , when this addition of Rs. /- per Cum is allowed, deduction of Rs. /- per Cum should invariably be made towards the metal or rubble if it is obtained from surface stone and boulders.			17	17	0%
90	34	Gravel	1 Cum	110.00	250.00	127.27%
91	35 a	Quarry rubbish	1 Cum	84.75	84.75	0%
92	B	HBG Stone Chips 2.36mm and below	1 Cum	333.00	367.00	10.21%
93	36.a	Fine aggregate / Sand (un-screened) for Concrete & Filtering items) (excluding Seigniorage charges)	1 Cum	100	As per the present Sand policy of the Government	
94	b.	Fine aggregate / Sand (unscreened) for filling (excluding Seigniorage charges)	1 cum	100		
95	c	Fine aggregate / Sand (screened) for Mortar, Plastering items and Sand blasting items (excluding Seigniorage charges) (Rs. 70/- is added towards screening charges)	1 Cum	182		
96	37	Clay for puddle and masonry Items 38 (a) to 39 (h) As per local prevailing rates based on competitive quotations.	1 Cum	38.00	38.00	0%
(C) LIME AND CEMENT						
97	40 to 41(c)			As per local prevailing rates based on competitive rates		
98	42	Cement excluding cost of empty cement bags	1 MT	Monthly rates will be communicated by Govt		
NOTE: (1) The rates are exclusive of GST 2) The price of cement will be reviewed and fixed on monthly basis and rates will be communicated separately.						

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
99	C	Grinding lime mortar or Surkhi mortar	1 Cum	95.25	95.25	0%
100	D	Shell lime slaked and screened	1 Cum	940.00	940.00	0%
101	E	White cement	1 Kg.	27.95	27.95	0%
102		(D) MORTARS				
103	43 to 45	Items 43 to 45				
		(E) METAL AND IRON WORKS				
104		Mild steel rods 6mm dia.	1 MT	Monthly rates communicated by Govt		
105		Mild steel flats	1 MT			
106		Mild Steel, Structural Steel, I.e., Angles, Channels and I sections.	1 MT			
107		High Yield Strength Deformed Bars/TMT bars	1 MT			
108		Mild steel plates	1 MT			
		NOTE: (1) The rates are exclusive of GST 2) The prices of steel will be reviewed and fixed on monthly basis and rates will be communicated separately .				
		III RATES OF WORKS				
		(A) CLEARING SITE				
109	1.a	Clearing heavy Jungle	1 Sqm	3.20	3.20	0%
110	B	Clearing light Jungle	1 Sqm	2.80	2.80	0%
111	C	Clearing Scrub Jungle	1 Sqm	2.80	2.80	0%
112	D	Clearing Juliflora (Prosafis) jungle including up-rooting and removing of Juliflora stumps.	1 Sqm	4.40	4.40	0%
113	2.a.I	Cutting and removing Palmyrah trees including stacking of girth 30 to 100 cm.	Each	21.00	21.00	0%
114	ii	- do - 100 to 200 cm.	Each	48.00	48.00	0%
115	2.b.I	Uprooting and removing Palmyrah stumps including stacking of girth 30 to 100 cm.	Each	51.00	51.00	0%
116	ii	- do - 100 to 200 cm.	Each	53.00	53.00	0%
117	2.c.I	Cutting and removing date trees including stacking of girth 30 to 100 cm	Each	26.00	26.00	0%
118	ii	- do - 100 to 200 cm	Each	39.00	39.00	0%
119	d.I	Uprooting and removing stumps of date trees including stacking of girth 30 to 100 cm.	Each	26.00	26.00	0%
120	ii	- do - 100 to 200 cm	Each	33.00	33.00	0%
121	e I	Cutting and removing other kind of trees including stacking of girth 30 to 100 cm	Each	33.00	33.00	0%
122	ii	- do - 100 to 200 cm	Each	51.00	51.00	0%
123	iii	- do - above 200 cm	Each	83.00	83.00	0%
124	f.I	Uprooting and removing stumps of other kind of trees including stacking of girth	Each	26.00	26.00	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
		30 to 100 cm.				
125	ii	- do - 100 to 200 cm	Each	36.00	36.00	0%
126	iii	- do - above 200 cm	Each	45.00	45.00	0%
127	3.a	Uprooting and clearing prickly pear jungle	1 Sqm	2.50	2.50	0%
128	B	- do - under 2.5 meters height including burning and burrying as directed.	1 Sqm	3.30	3.30	0%
129	C	- do - over 2.5 meters height including burning and burrying with an initial lead of conveyance	1 Sqm	3.90	3.90	0%
130	4.a	Removing of natchu, goobi, thooti etc., from drains, channels including clearance if not more than 1 metre depth of water with an initial lead of 10 metres and lift of 2 metres.	1 Sqm	2.10	2.10	0%
131	b.I	Clearing alchi, tilla	1 Sq.m	4.20	4.20	0%
132	b.ii	Removal of Jammu	1 Sq.m	3.60	3.60	0%
133	c.I	Removal of imponea, cornea	1 Sq.m	4.00	4.00	0%
134	c.ii	Removal of water hyacinth upto 30 cm thick.	1 Sqm	4.10	4.10	0%
135	c.iii	- do - more than 30 cm thick	1 Sq.m	5.50	5.50	0%
136	D	Removal of natchu, goobi, thooti etc., for every extra lead or lift over the initial lead or lift.	1 Sqm	1.50	1.50	0%
		(B) DISMANTLING				
	5	DISMANTLING, CLEARING AWAY MATERIALS USEFUL FOR REUSE.				
137	n.(i)	Dry rough stone revetment for aprons and stacking within 40 metres	1 cum	65.60	65.60	0%
	7	Drilling holes in hard granite or sheet rock				
	a)	Manually (Hand)				
138	I)	20 mm dia meter	1 RM	136.00	136.00	0%
139	ii)	25 mm dia meter	1 RM	144.00	144.00	0%
140	iii)	36 mm dia meter	1 RM	166.00	166.00	0%
141	b)	Pneumatic Compressor				
142	I)	20 mm dia meter	1 RM	154.00	154.00	0%
143	ii)	25 mm dia meter	1 RM	167.00	167.00	0%
144	iii)	36 mm dia meter	1 RM	182.00	182.00	0%
	8	Grouting the holes with neat cement slurry excluding cost of steel				
145	I)	20 mm dia meter	1 RM	97.00	97.00	0%
146	ii)	25 mm dia meter	1 RM	122.00	122.00	0%
147	iii)	36 mm dia meter	1 RM	152.00	152.00	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
		White Washing and Painting works				
148	A I	White washing and colour banding for guard and guide stones including cost of materials	each	10.00	10.00	0%
149	B 1	Screening sand and gravel	1 cum	10.50	10.50	0%
150	B 2	Screening chips and metal	1 cum	17.60	17.60	0%
151	C 1	Removing and refixing Hectometre or Demarcation stones	each	12.65	12.65	0%
		(S) ROAD WORK ITEMS				
		PICKING OLD METALLED SURFACE TO DEPTH OF 40 TO 100 mm SPREADING OLD METAL AND NEW METAL SECTIONING INCLUDING EDGE BUNDS AND SUBGRADE ROLLING, SPREADING METAL INCLUDING BLINDAGE OF GRAVEL WATERING WITH AN INITIAL LEAD OF 2 HECTOMETERS AND HAND ROLLER (1.5 TO 2 TONNES) ROLLING ETC., INCLUDING BARRICADING, DIVERSION OF TRAFFIC AND WETTING THE NEW CONSOLIDATION FOR A FORTNIGHT COMPLETE				
		(For a compact thickness)				
	1 (I)	HARD METAL				
152	A	40 mm thickness	10 sqm	70.00	70.00	0%
153	B	50 mm thickness	10 sqm	74.00	74.00	0%
154	C	75 mm thickness	10 sqm	80.30	80.30	0%
155	D	100 mm thickness	10 sqm	87.00	87.00	0%
156	1 (ii)	(For compact thickness of soft metal)				
157	A	50 mm thickness	10 sqm	53.80	53.80	0%
158	B	75 mm thickness	10 sqm	63.90	63.90	0%
159	C	100 mm thickness	10 sqm	70.10	70.10	0%

RATES OF MATERIAL S & WORK ITEMS SSI No.	S.S. Item No.	Description	Unit (per)	S o Rate for 2018-19 in Rs.	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / increase in %
1	2	3	4	5	6	7
	5	Picking old metal surface to a depth of 40 to 100 mm and spreading metal including watering with an initial lead of 2 Hectometers and rolling with power rollers watering and spreading gravel for blindage and power roller rolling including hire charges of power roller(8 to 10 T) barricading and diversion of traffic and wetting the new consolidation for a fortnight (for compacted thickness of)				
		HARD METAL				
160	5 (a)	40 mm thick ness	10 sqm	185.00	185.00	0%
161	(b)	50 mm thick ness	10 sqm	210.00	210.00	0%
162	(c)	75 mm thick ness	10 sqm	231.00	231.00	0%
163	(d)	100 mm thick ness	10 sqm	248.80	248.80	0%
164	(e)	150 mm thick excluding hire charges	10 sqm	445.40	445.40	0%
165		Gelatin(For MORTH data, for works of state & national high ways only)	Per Kg	57.00	57.00	0%
166		Electric Detonators(For MORTH data, for works of state & national high ways only)	each	9.00	9.00	0%
167		Hot applied thermoplastic compound(For MORTH data, for works of state & national high ways only)	Per Litre	Rate as per local competitive quotations		
168		Reflectionising glass beads of 2 mm thick(For MORTH data, for works of state & national high ways only)	Per Kg			deleted
169		Road marking paint conforming to IS 164(For MORTH data, for works of state & national high ways only)	Per Kg	152.15	152.15	0%
170	n	Labour charges for laying filters with coarse aggregate.	1 cum	55.30	55.30	0%
171	o	Labour charges for laying filter with sand.	1 cum	30.70	30.70	0%
172		Fly Ash	1 cum			deleted
173		Binding Wire	1 Kg	51.00	51.00	0%
174		Jute rope	Mtr	8.35	8.35	0%
175		De bonding strips	Mtr	8.55	8.55	0%
176		Selent	Ltr	53.95	53.95	0%
177		Poly sheet 125 microns	1 sqm	15.25	15.25	0%
178		Rural water rate	1 kl	77.00	77.00	0%
179		Selected soil for forming subgrade / shoulders	1 cum		250.00	

HIRE CHARGES OF PLANT AND MACHINERY

**HIRE CHARGES OF PLANT & MACHINERY FOR
ROAD & BRIDGE WORKS FOR THE YEAR 2019-20**

Sl. No.	Description		Unit	S o Rate for 2018-19	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / % increase
	Machine	Activity				
1	2	3	4	5	6	7
1	Dozer(D 80)	Spreading	Per Hour	2454.60		As per WR Dept. (S.No.8)
		Cutting				
		Cleaning				
2	Dozer (D50)	Spreading	Per hour	1546.80	1546.80	0%
		Cutting				
		Cleaning				
3	Mortor Grader	Clearing	Per Hour	3020.40	3020.40	0%
		Spreading				
		GSB				
		WMM				
4	Hydraulic Excavator	Soil Ordinary	Per Hour	2791.60		As per WR Dept. (S.No.52)
		Soil Marshy				
		Soil unsuitable				
5	Front end loader	Soil loading	Per Hour	1594.70	1594.70	0%
		Aggregate loading	Per Hour			
6	Tipper- 5.5 Cum	Transportation of soil, GSB,WMM, Hot mix etc	Per Hour	950.30		As per WR Dept. (S.No.54)
7	Vibratory roller 8 tonne	Earth/Soil, GSB,	Per Hour	2736.20		As per WR Dept. (S.No.62)
		WMM				
8	Smooth wheeled roller 8 tonne	Soil compaction ,BM compaction	Per Hour	1329.90		As per WR dept. (S.No.50)
9	Water tanker 8 Kilolitre	Water transport	Per Hour	945.80		As per WR Dept. (S.No.64)
10	Water tanker 6 Kilolitre	Water transport	Per Hour	655.20	655.20	0%
11	Tractor	Pulling	Per Hour	413.60	413.60	0%
12	Tractor with rotavator	GSB mixing @ site	Per Hour	423.60	423.60	0%
13	Tractor with ripper attachment	Scarifying	Per Hour	423.60	423.60	0%
14	Air Compressor 5 cmm(electric)	General purpose	Per Hour	556.50		As per WR Dept. (S.No.2)
15	Wet mix plant 60 TPH	Wet mix	Per Hour	1679.70	1679.70	0%
16	Mechanical broom Hydraulic	Surface cleaning	Per Hour	381.80	381.80	0%
17	Bitumen Pressure Distributor	Applying bitumen tack coat	Per Hour	1527.10	1527.10	0%
18	Emulsion Pressure Distributor	Applying emulsion tack coat	Per Hour	875.60	875.60	0%
19	Hot mix Plant – 120 TPH capacity	DBM/BM/SDC	Per Hour	28708.00	28708.00	0%
		/Premix				
20	Hot mix Plant – 100 TPH capacity	DBM/BM/SDC	Per Hour	24636.00	24636.00	0%
		/Premix				

Sl. No.	Description		Unit	S o Rate for 2018-19	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / % increase
	Machine	Activity				
1	2	3	4	5	6	7
21	Hot mix Plant – 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	22092.00	22092.00	0%
22	Hot mix Plant – 40 to 60 TPH capacity	DBM/BM/SDC /Premix	Per Hour	19546.00	19546.00	0%
23	Paver Finisher Hydrostatic with sensor control 100 TPH	DBM/BM/SDC /Premix	Per Hour	3115.20	3115.20	0%
24	Paver finisher Mechanical 100	Paving of WMM, paving of DLC	Per Hour	2290.60	2290.60	0%
25	Hydraulic Chip Spreader	Surface dressing	Per Hour	2743.70	2743.70	0%
26	Tandem Road roller	Rolling of Asphaltic surface	Per Hour	1856.50	1856.50	0%
27	Pneumatic Road roller	Rolling of Asphaltic surface	Per Hour	1515.60	1515.60	0%
28	Pot-Hole repair machine	Repair of pot-holes	Per Hour	903.00	903.00	0%
29	Bitumen boiler oil fired	Bitumen Spraying	Per Hour	223.00	223.00	0%
30	GSB Plant 50 Cum	Producing GSB	Per Hour	1279.70	1279.70	0%
31	Mastic Cooker	Mastic wearing coat	Per Hour	79.50	79.50	0%
32	Batching and Mixing Plant (a) 30 Cum capacity	Concrete mixing	Per Hour	1310.90	1310.90	0%
	(b) 15 - 20 Cum capacity	Concrete mixing	Per Hour	1083.10		As per WR Dept. (S.No.10)
33	Transit mixer	Transportation of concrete mix	Per Hour	2071.70		As per WR Dept. (S.No.1)
34	Concrete pump of 45 and 30 cum	Pumping of Concrete	Per Hour	1508.80		As per WR Dept. (S.No.71)
35	Cranes					
	(a) 80 tonnes	Lifting purpose	Per Hour	1311.20	1311.20	0%
	(b) 35 tonnes			885.70	885.70	0%
	(c) 3 tonnes			429.60	429.60	0%
(d)Crane with grab bucket 0.75 cum	Well foundation	Per Hour	2308.90	2308.90	0%	
(e)Crane with grab bucket 1 cum	Well foundation	Per Hour	3775.80	3775.80	0%	
36	Concrete bucket 1.50 cum	For pouring concrete	Per Hour	12.90		As per WR Dept. (S.No.14)
37	Kerb casting machine	Kerb making	Per Hour	671.90	671.90	0%
38	Concrete mixer (a)0.28 cum	Concrete mixing	Per Hour	525.50		As per WR Dept. (S.No.18)
	(b) 1.0 cum	Concrete mixing	Per Hour	661.50	661.50	0%

Sl. No.	Description		Unit	S o Rate for 2018-19	Proposed Rate for 2019-20 in Rs. by R&B	Remarks / % increase
	Machine	Activity				
1	2	3	4	5	6	7
39	Piling rig with bantonite pump	0.75 m dia to 1.20 m dia boring attachment	Per Hour	6131.70	6131.70	0%
40	Concrete paver finisher with 40 HP motor	Paving of concrete surface	Per Hour	3247.20	3247.20	0%
41	Integrated stone crusher	Crushing of spalls 100 TPH	Per Hour	9755.20	9755.20	0%
		Crushing of spalls 200 TPH	Per Hour	20570.00	20570.00	0%
42	Pre stressing jack with pump and access	Stressing of steel wires/ stands	Per Hour	157.80	157.80	0%
43	Generator					
	250 KVA	Generation of electric energy	per hour	2162.60	2162.60	0%
	125 KVA		per hour	1543.10	1543.10	0%
	100 KVA		per hour	1316.30	1316.30	0%
	30 KVA		per hour	1032.00		As per WR Dept. (S.No.23)
44	Pneumatic sinking of Plants	Pneumatic sinking of wells	Per K.m.	5701.00	5701.00	0%
45	Truck 5.5 cum per 10 tonnes	Material transport	Per her	923.70		As per WR Dept. (S.No.58)
46	Road marking Machine	Road marking	Per Hour	135.50	135.50	0%
47	Mobile slurry seal equipment	Mixing and laying slurry seal	Per Hour	1261.40	1261.40	0%
48	Plate compacter	For compacting in medians	Per Hour	59.10	59.10	0%
49	Drilling equipment	For drilling	Per Hour	880.90		As per WR Dept. (S.No.22)
		<i>Note: The above hire charges of Machinery & Plant includes crew, oils, conveyance of Machinery to site and all other incidental charges</i>				

For Engineer in Chief (R&B)
Admn, NH & CRF,
SH & MD, APRDC.