PUBLIC WORKS DEPARTMENT

UNIFIED BASIC SCHEDULE OF RATES FOR YEAR 2025-26

(With effective from 01-04-2025)

ROAD & BRIDGE WORKS
(OTHER THAN NH & PMGSY)

CHIEF ENGINEER (ROADS)
P.W.D. RAJASTHAN, JAIPUR

OFFICE OF THE CHIEF ENGINEER, PWD, RAJASTHAN,JAIPUR.

No.SE(R)/BSR/2025/D-8363 Dated: 30/03/2025

Superintending Engineer,
Public Works Department
Circle- Rural Jaipur

Sub:- Approval of Unified BSR 2025 (Roads)
Ref:- Your Office letter no. 12534 dated 11.03.2025 &17772 dated 26.3.2025

In context to your referred letter on above cited subject, the draft of unified BSR-2025 (Roads) submitted by you along with relevant documents have been considered and approved with recommendation of Task force . The approval is granted in exercise of the powers delegated to the undersigned under clause-32 of the schedule of powers.

You are requested to publish the approved BSR at the earliest and submit hard as well as soft copy for use & record of this office. It is enjoined upon all the concerned to point out the errors and omissions if any to this office. No brand name has been approved if found any, may be treated as null and void.

This unified BSR 2025 (Roads) will come in force in entire PWD Rajasthan with effect from 1.04.2025 and the past contracts/agreements, which are based on prevailing old BSRs of respective Circles will not be affected by this unified BSR 2025 (Roads)

Mookesh 30/3/25

(Mookesh Bhati)
CHIEF ENGINEER (Roads)
PWD, RAJASTHAN,

No. SE(R)/BSR/2025/D- Dated:

Copy to following for information:-

1- P.S. to Addl. Chief Secretary to Govt., PWD, Rajasthan, Jaipur.
2- P.S. to Secretary to Govt., PWD, Rajasthan, Jaipur
3- P.S. to Chief Engineer cum Addl. Secretary to Govt., PWD, Rajasthan, Jaipur.
4- P.S. to Chief Engineer PWD, Rajasthan, Jaipur. (All).
5- The Managing Director RSRDCC, Setu Bhawan Rajasthan, Jaipur.
6- CEO, RIDCOR Corporate park Ajmer Road Puliya Ke pass Jaipur.
7- Member Secy. RSHA PWD Rajasthan Jaipur.
8- P.S. to F.A. PWD, Rajasthan, Jaipur.
9- Addl. Chief Engineer PWD, Zone.....(All).
10- Superintending Engineer PWD, Circle.....(All).
11- Executive Engineer PWD, Dn.....(All).

(D.K.Gupta)
Superintending. Engineer (Roads)

OFFICE OF THE CHIEF ENGINEER, PWD, RAJASTHAN,JAIPUR.

No.SE(R)/BSR/2025/D- 8364 Dated: 30/03/2025

OFFICE ORDER

Unified BSR 2025 (Roads) have been prepared and is being implemented with effect from 01.04.2025 in entire PWD, Rajasthan. All Superintending Engineers are directed to use this BSR for preparing estimates of all road works in their respective Circles from 01.04.2025 and onwards. It is enjoined upon all the concerned to point out the errors and omissions if any to this office. No brand name has been approved if found any, may be treated as null and void. However the past contracts/agreements which are based on prevailing old BSRs of respective circles will not be affected by this unified BSR 2025 (Roads).

The unified BSR 2025 (Roads) will be available on PWD website.

Mookesh 30/3/25

(Mookesh Bhati)
CHIEF ENGINEER (Roads)
PWD, RAJASTHAN,

No. SE(R)/BSR/2025/D- Dated:

Copy to following for information:-

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5- The Managing Director RSRDCC, Setu Bhawan Rajasthan, Jaipur.
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10- Superintending Engineer PWD, Circle.....(All).
11- Executive Engineer PWD, Dn.....(All).

(D.K.Gupta)
Superintending. Engineer (Roads)

PREFACE

The Unified Basic Schedule of Rates 2025 for Road and Bridge works has been prepared based on the Standard Data Book to ensure uniformity in the Jurisdiction of Road and Bridge Works of Public Works Department Rajasthan. It incorporates almost all the items contained in the PWD Standard Schedule of Items and the current BSR of the various Circles/Regions.

The Rates of Labour, Materials, Machinery and completed items of works in the prevailing BSR vary significantly across different areas, suitable working rates have been adopted after being reviewed by the Committee Members for analysis of Unified BSR 2025-26. Rates of Steel, Cement and NP Pipes adopted as per Market Rates in the Rate Analysis while Bitumen rates have been taken from IOCL/Hincol including freight. All rates are taken with all taxes.

Every care has been taken in preparation of this BSR, it may be possible that the BSR may have typographical, other errors and omission. Suggestions for improvement and corrections in the Unified Schedule of Rates 2025 will be most welcome, which may please be sent to the Addl. Chief Engineer (Roads).

I sincerely acknowledge contribution of Er. Mookesh Bhati, Chief Engineer (Roads), Er. R.K. Luthra, Addl. Chief Engineer (Roads), Er. N.K. Joshi, Additional Chief Engineer, Zone-II, Jaipur, Er. D.K. Gupta Superintending Engineer (Roads), Er. R.K. Singh, Superintending Engineer, Rural Circle-Jaipur, Er. Kripal Singh, Assistant Engineer, Er. Taruna Kumari, Assistant Engineer, Er. Upendra Chhachhia, Assistant Engineer, who contributed considerably towards bringing out this Schedule of Rates into effect. I specially convey my thanks to Er. Sudhir Mathur, Chief Engineer (Bridge), Er. Sunil Gupta, Chief Engineer (Building) & Er. Sanjay Saxena, Chief Engineer (CRIF) for their guidance and value addition thoughts.

01/4/25

(Er. T. C. Gupta)
Chief Engineer & Addl. Secretary,
Public Works Department
Rajasthan, Jaipur.

Place: Jaipur

Date : 1.04.2025

INDEX

PART - I : BASIC RATES OF LABOUR, MATERIAL & MACHINERY

PART - II : BASIC RATES OF ITEMS

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(A) Labour

Sl. No.	Description of Labour	Unit	Rate (Rs)
L-01	Bhisti	day	285.00
L-02	Bitumen Sprayer	day	297.00
L-03	Blacksmith	day	309.00
L-04	Blaster	day	297.00
L-05	Carpenter 1st Class	day	450.00
L-06	Chips spreader	day	285.00
L-07	Chiseller	day	297.00
L-08	Dresser (Skilled)	day	297.00
L-09	Driller	day	297.00
L-10	Electrician	day	400.00
L-11	Fitter	day	400.00
L-12	Mason (1st class)	day	450.00
L-13	Mason (2nd Class)	day	400.00
L-14	Mate	day	297.00
L-15	Mazdoor (Unskilled)	day	285.00
L-16	Mazdoor (Semi skilled)	day	297.00
L-17	Mazdoor (Skilled)	day	400.00
L-18	Painter (Ist class)	day	400.00
L-19	Plumber	day	400.00
L-20	Surveyor	day	450.00
L-21	White Washer	day	285.00

BASIC RATES
(B) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-001	Air Compressor 210 cfm	Supplying compressed air	cfm	210.00	per hour	230.00
PM-002	Batch mix HMP 40-60 TPH	BM, DBM, SDBC, PM	t/h	50.00	per hour	13,900.00
PM-003	Batch type HMP 30/40 TPH	BM, DBM, SDBC, PM	t/h	35.00	per hour	10,400.00
PM-004	Bitumen boiler oil fired	Heating of bitumen				
	200 litre		litre / h	400.00	per hour	120.00
	1000 litre		litre / h	2000.00	per hour	210.00
PM-005	Bitumen emulsion pressure distributor	Applying bitumen tack coat	sqm/h	1750.00	per hour	305.00
PM-006	Concrete mixer 0.28/0.4 cum	Mixing of ingradients	cum/h	2.50	per hour	290.00
PM-007	Crane upto 8T	Lifting of materials			per hour	525.00
PM-008	Dozer D 50	Dozing cutting	cum/h	200.00	per hour	1,100.00
			cum/h	100.00		725.00
PM-009	Electric generator set, 125 KVA	Electricity generation	KVA	100.00	per hour	1,100.00
PM-010	Emulsion Sprayer with Tractor	Spraying of Emulsion			per hour	220.00
PM-011	Front end-loader 1 cum bucket capacity @ 45 cum/hour	Loading Aggregates	cum/h	45.00	per hour	700.00
		Loading Soil	cum/h	100.00		700.00
PM-012	Hydraulic broom with tractor	Surface cleaning	sqm/h	1250.00	per hour	230.00
PM-013	Hydraulic Excavator 0.9 cum	Excavation	cum/h	100.00	per hour	700.00
PM-014	Hydraulic self propelled chip spreader	Surface Dressing	sqm/h	1500.00	per hour	650.00
PM-015	Jack Hammer with tractor	Pavement breaking & rock drilling	cum/h	05. to 1	per hour	175.00
PM-016	Joint Cutting Machine with 2-3 blades	Cutting of Joints	h		per hour	50.00
PM-017	Mixall 6-10 t capacity	Mixing of bituminous materials	t/h	8.00	per hour	300.00
PM-018	Motor Grader	Scarifier & levelling	cum/h	200.00	per hour	1,900.00
				110.00		
				50.00		1,300.00
PM-019	Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	60.00

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-020	Paver finisher	Laying/spreading	t/h	75.00	per hour	900.00
PM-021	Plate compactor	Compaction	cum/h		per hour	75.00
PM-022	Plate vibrator	Compaction	cum/h		per hour	70.00
PM-023	Screed vibrator	Compaction	cum/h		per hour	90.00
PM-024	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	200.00
PM-025	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	9,500.00
PM-026	Three wheel 80-100 kN Static Roller	Compaction/ Rolling				200.00
		Earth:- Embankment or sub-grade	cum/h	80/70		200.00
		Sub-base G-I	cum/h	10.00		200.00
		Sub-base G-II/G-III	cum/h	8.00		200.00
		WMM	cum/h	16.00		200.00
		BUSG	cum/h	10.00	per hour	200.00
		BM 50/75 mm	cum/h	12.00		200.00
		Premix 20 mm	sqm/h	250.00		200.00
		Seal Coat	sqm/h	500.00		200.00
		Surface Dressing 1st Coat	sqm/h	400.00		200.00
		Surface Dressing 2ndCoat	sqm/h	500.00		200.00
PM-027	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	550.00
PM-028	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	200.00
PM-029	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	200.00
PM-030	Tractor with trolley	Transportation of materials	t/trip	3 to 5	per hour	250.00
PM-031	Tractor mount with Rotavator/Grader	Scarifier/Mixing/Grading	cum/h	25.00	per hour	200.00
PM-032	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	300.00
PM-033	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	700.00
		Compaction of BM	cum/h	60.00		700.00
PM-034	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	350.00
PM-035	Wet mix plant (Pug Mill)	Wet Mix	cum/h	25.00	per hour	2,500.00

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-036	Cold milling machine @ 20 cum per hour		cum/hour		per hour	4,000.00
PM-037	Wear Tear of Teath		cum/hour		per hour	800.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-001	AC pipe 100 mm	m	59.00
M-002	Aggregate - For 37.5 mm Maximum size - 22.4 mm to 5.6 mm	cum	936.00
M-003	Aggregate - For 37.5 mm Maximum size - 45 mm to 22.5 mm	cum	869.00
M-004	Aggregate - For 37.5 mm Maximum size - Below 5.6 mm	cum	802.00
M-005	Aggregate - For 53 mm Maximum size - 22.5 mm to 5.6 mm	cum	882.00
M-006	Aggregate - For 53 mm Maximum size - 63 mm to 45 mm	cum	815.00
M-007	Aggregate - For 53 mm Maximum size - Below 5.6 mm	cum	748.00
M-008	Aggregate - Grading I (40 mm nominal Size) 10 mm - 5 mm	cum	869.00
M-009	Aggregate - Grading I (40 mm nominal Size) 25 mm – 10 mm	cum	936.00
M-010	Aggregate - Grading I (40 mm nominal Size) 37.25 mm - 25 mm	cum	869.00
M-011	Aggregate - Grading I (40 mm nominal Size) 5 mm and below	cum	802.00
M-012	Aggregate - Grading II (19 mm nominal Size) 10 mm - 5 mm	cum	936.00
M-013	Aggregate - Grading II (19 mm nominal Size) 25 mm – 10 mm	cum	1,003.00
M-014	Aggregate - Grading II (19 mm nominal Size) 5 mm and below	cum	802.00
M-015	Aggregate 10 mm	cum	1,054.00
M-016	Aggregate 20 mm	cum	1,173.00
M-017	Aggregate 40 mm	cum	1,010.00
M-018	Aggregate- Crushable type such as moorum or Gravel for Grading I	cum	294.00
M-019	Aggregate- Crushable type such as moorum or Gravel for Grading II	cum	281.00
M-020	Aggregate- Crushable type such as moorum or Gravel for Grading III	cum	267.00
M-021	Aggregate-Grading I 90 mm to 45 mm	cum	508.00
M-022	Aggregate-Grading II 63 mm to 45 mm	cum	802.00
M-023	Aggregate-Grading III 53 mm to 22.4 mm	cum	842.00
M-024	Aggregates 22.4 mm to 2.36 mm for wet mix macadam	cum	869.00
M-025	Aggregates 45 mm to 22.4 mm for wet mix macadam	cum	936.00
M-026	Aluminium sheeting (1.5 mm thick)	sqm	10,347.00
M-027	Aluminium Studs 100 mm x 100 mm fitted with lense reflectors	Nos.	92.00
M-028	Bamboo (1st Class) 85 mm - 100 mm dia, 2.0 m long	No.	116.00
M-029	Bamboo (1st Class) 85 mm - 100 mm dia, 2.5 m long	No.	116.00
M-030	Bamboo (1st Class) 85 mm - 100 mm dia, 3.0 m long	No.	138.00
M-031	Bamboo (1st Class) 85 mm - 100 mm dia, 4.5 m - 5.5 m long	No.	161.00
M-032	Bamboo (2nd Class) 75mm dia, 1.8 m - 2.5 m long	No.	105.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-033	Bamboo (2nd Class) 75mm dia, 2.1 m - 3.0 m long	No.	116.00
M-034	Barbed wire	kg	74.00
M-035	Binding Material	cum	270.00
M-036	Binding wire	kg	68.00
M-037	Bitumen (Crumb Rubber Modified)	tonne	**49,830.00**
M-038	Bitumen (Natural Rubber Modified)	tonne	Input Rate
M-039	Bitumen (Polymer Modified)	tonne	**Input Rate**
M-040	Bitumen (VG-30)	t	**48,850.00**
M-041	Bitumen (VG-10)	t	**46,140.00**
M-042	Bitumen Emulsion (RS-1)	t	**45,680.00**
M-043	Bitumen Emulsion (SS-1)	t	**48,250.00**
M-044	Bituminous sealant	litre	110.00
M-045	Blasted rubble	cum	429.00
M-046	Blasting material	kg	34.00
M-047	Bond stone (400 mm x 150 mm x 150 mm)	No.	34.00
M-048	Brick 1st Class	No.	5.00
M-049	Cement	t	6,000.00
M-050	Cement Primer	litre	30.00
M-051	Chlorprene Elastomer or Closed Cell Foam Sealing Element	m	68.00
M-052	Compensation for earth taken from private land	cum	50.00
M-053	Compressible Fibre Board	sqm	1,092.00
M-054	Copper plate	kg	889.00
M-055	Corbelling Stones (300 mm x 150 mm x 150 mm)	No.	84.00
M-056	Corrosion Resistant Structural Steel Grating	kg	81.00
M-057	Credit for excavated rock found suitable for use	cum	95.00
M-058	Crow bars 40 mm dia (hire charges)	hour	7.00
M-059	Crushed Sand or Grit Passing 2.36 mm and retained on 180 micron	cum	523.00
M-060	Crushed Slag	cum	471.00
M-061	Crushed Stone Aggregate 26.5 mm to 75 micron	cum	784.00
M-062	Crushed Stone chipping 13.2 mm nominal size	cum	899.00
M-063	Crushed Stone Chipping 6.7 mm size 100% passing 11.2 mm and retained on 2.36 mm	cum	850.00
M-064	Crushed Stone Chipping 6.7 mm size 100% passing 9.5 mm and retained on 2.36 mm	cum	850.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-065	Crushed Stone chipping 9.5 mm nominal size	cum	980.00
M-066	Crushed Stone Coarse Aggregate Passing 53 mm and retained on 2.8 mm	cum	850.00
M-067	Curing compound	litre	146.00
M-068	Debonding strips	m	241.00
M-069	Edge Stone (450 mm x 350 mm x 100 mm)	No.	68.00
M-070	Edge Stone (450 mm x 350 mm x 200 mm)	No.	141.00
M-071	Elastomeric bearing assembly	Nos.	17,025.00
M-072	Electric Detonator	each	29.00
M-073	Epoxy Paint	litre	633.00
M-074	Epoxy Primer	litre	627.00
M-075	Farmyard manure	cum	523.00
M-076	Fevicol adhesive	kg	146.00
M-077	Filter media	cum	334.00
M-078	Fine aggregate/Crushed sand 2.36 mm to 75 micron	cum	679.00
M-079	Galvanised angle	kg	75.00
M-080	Galvanised angle Section 100 mm x 100 mm of 12 mm thickness	kg	75.00
M-081	Gelatine 80 per cent	kg	146.00
M-082	GI Pipe 100 mm dia	m	502.00
M-083	GI Pipe 50 mm dia	m	358.00
M-084	GI wires	kg	74.00
M-085	Graded stone aggregate	cum	663.00
M-086	Granular material (Natural occuring, soil gravel mixture / quarry waste, kankar, laterite, dhandla	cum	251.00
M-087	Hand Broken Metal 40 mm size	cum	460.00
M-088	Indigo	kg	209.00
M-089	Interlocking Blocks with 60 mm thickness	sqm	486.00
M-090	Interlocking Blocks with 80 mm thickness	sqm	638.00
M-091	Interlocking Blocks with 100 mm thickness	sqm	800.00
M-092	Joint filler board	sqm	1,208.00
M-093	Jute netting, open weave 25 mm square opening	sqm	392.00
M-094	Jute rope 12 mm dia	m	12.00
M-095	Key Aggregates passing 22.4 mm and retained on 2.8 mm	cum	659.00
M-096	Lime	t	3,867.00
M-097	Lime putty	t	5,852.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-098	Local Wood Piles (1st Class) 150-200 mm dia ,6m long	No.	283.00
M-099	Local Wood Piles (1st Class) 100 mm x 75 mm	cum	2,362.00
M-100	Loose stone	cum	439.00
M-101	MS clamps	Nos.	8.00
M-102	MS Flat / Structural Steel	t	**70,000.00**
M-103	MS Sheet Tube (47 mm x 47 mm x 12 SWG Sheet)	kg	88.00
M-104	MS Sheet 1.5 mm thick	sqm	773.00
M-105	MS Sheet 2 mm thick	sqm	1,024.00
M-106	Nuts, Bolts and Rivets	t	65,000.00
M-107	Paint (Synthetic Enamel)	litre	304.00
M-108	Plasticizer	Kg	157.00
M-109	Polythene sheet (125 micron)	sqm	105.00
M-110	Polythene Sheething	Nos.	105.00
M-111	Quarried Stone 150-200 mm size	cum	314.00
M-112	RCC Pipe NP3 (1200 mm dia)	m	6,312.00
M-113	RCC Pipe NP3 (1000 mm dia)	m	4,414.00
M-114	RCC Pipe NP3 (750 mm dia)	m	3,149.00
M-115	RCC Pipe NP3 (600 mm dia)	m	1,759.00
M-116	RCC Pipe NP3 (300 mm dia)		679.00
M-117	RCC Pipe NP4 (1200 mm dia)	m	7,438.00
M-118	RCC Pipe NP4 (1000 mm dia)	m	5,173.00
M-119	RCC Pipe NP4 (750 mm dia)	m	3,472.00
M-120	RCC Pipe NP4 (600 mm dia)	m	2,782.00
M-121	RCC Pipe NP4 (300 mm dia)		1,035.00
M-122	Red-oxide Primer	litre	263.00
M-123	Road marking paint	litre	262.00
M-124	Sand (Coarse)	cum	**2,000.00**
M-125	Sand (Fine)	cum	**1,900.00**
M-126	Seeds	kg	4,358.00
M-127	Steel Pipe 50 mm dia	m	230.00
M-128	Steel Reinforcement (HYSD Bars)	t	66,000.00
M-129	Steel Reinforcement (MS Round Bars)	t	65,000.00
M-130	Steel Reinforcement (TMT Bars)	t	67,000.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-131	Stone Boulder of size 150 mm and below	cum	628.00
M-132	Stone Chips 12 mm size	cum	993.00
M-133	Stone Chips 13.2 mm to 5.6 mm	cum	915.00
M-134	Stone Crushed Aggregate 11.2 mm to 0.09 mm	cum	784.00
M-135	Stone for Coarse Rubble Masonry 1st Sort	cum	1,341.00
M-136	Stone for Coarse Rubble Masonry 2nd Sort	cum	1,200.00
M-137	Stone for Random Rubble Masonry	cum	918.00
M-138	Stone for Stone Set Pavement (300 mm x 200 mm x 150 mm)	No.	15.00
M-139	Stone Screening - Type A 13.2 mm for Grading-1	cum	542.00
M-140	Stone Screening - Type A 13.2 mm for Grading-2	cum	481.00
M-141	Stone Screening - Type B 11.2 mm for Grading-2	cum	481.00
M-142	Stone Screening - Type B 11.2 mm for Grading-3	cum	481.00
M-143	Stone spall	cum	481.00
M-144	Traffic cones	No.	517.00
M-145	Water	kl	116.00
M-146	Wooden sleepers (250 mm x 250 mm x 125 mm) (hire charges)	No.	29.00
M-147	Well graded granular sub-base material of Grading-I as per table 400.1 of Specifications	cum	487.00
M-148	Well graded granular sub-base material of Grading-II as per table 400.1 of Specifications	cum	509.00
M-149	Well graded granular sub-base material of Grading-III as per table 400.1 of Specifications	cum	474.00
M-150	Well graded gravel/soil aggregate base material of Grading-A as per table 400.2 of Specifications	cum	605.00
M-151	Well graded gravel/soil aggregate base material of Grading-B as per table 400.2 of Specifications	cum	506.00
M-152	Well graded gravel/soil aggregate base material of Grading-C as per table 400.2 of Specifications	cum	473.00
M-153	Well graded gravel/soil aggregate surface course material as per table 400.3 of Specifications	cum	473.00
M-154	Well graded gravel/soil aggregate base material of nominal maximum size 80 mm as per Table 2.3 of IRC SP 77-2008	cum	682.00
M-155	Well graded gravel/soil aggregate base material of nominal maximum size 40 mm as per Table 2.3 of IRC SP 77-2008	cum	647.00
M-156	Well graded gravel/soil aggregate base material of nominal maximum size 20 mm as per Table 2.3 of IRC SP 77-2008	cum	618.00
M-157	Well graded gravel/soil aggregate base material of nominal maximum size 10 mm as per Table 2.3 of IRC SP 77-2008	cum	583.00
M-158	Well graded gravel/soil aggregate base material of nominal maximum size 5 mm as per Table 2.3 of IRC SP 77-2008	cum	555.00
M-159	Aggregate-Grading II 63 mm to 45 mm Hand Broken	cum	594.00
M-160	Well graded GSB Material as per Table 400-1 Size 53mm to 9.5mm	cum	695.00
M-161	Well graded GSB Material as per Table 400-1 Size 26.5mm to 9.5mm	cum	670.00

BASIC RATES (EXCLUDING CONTRACTOR'S PROFIT)
(C) Material at work site or Plant with average lead of 20 Km

Sl. No.	Description	Unit	Rate (Rs.) proposed
M-162	Well graded GSB Material as per Table 400-1 Size 26.5mm to 4.75mm	cum	653.00
M-163	Well graded GSB Material as per Table 400-1 Size 9.5mm to 2.36mm	cum	637.00
M-164	Well graded GSB Material as per Table 400-1 Size 4.75mm to 2.36mm	cum	589.00
M-165	Well graded GSB Material as per Table 400-1 Size below 2.36mm	cum	555.00

PART : A : ROAD WORKS

Chapter - 01 to 17

UNIFIED ROAD BSR, PWD, RAJASTHAN FOR YEAR 2025-26

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
Chapter 1 - LOADING, UNLOADING, CARRIAGE CRUSHING OF MATERIALS AND SETTING OUT				
1.1	Loading and Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Manual Means			
	(i)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m	Cum	**44.00**
	(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m	Cum	**22.00**
	(iii)	Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m	Cum	**22.00**
	(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m	Cum	**11.80**
1.2	Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means			
	(i)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m	Cum	**32.00**
	(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by mechanical means including a lead upto 30 m.	Cum	**13.00**
	(iii)	Unloading of Earth, Sand, Lime, Moorum, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Manure, Crushed Slag, Flyash, Stone for Masonry Work by mechanical means.	Cum	**4.00**
1.3	**Loading, Unloading and Stacking of Bricks by Manual Means**			
	(i)	Loading of Bricks by manual means including a lead upto 30 m	1000 Nos.	**71.50**
	(ii)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m	1000 Nos.	**71.50**
1.4	**Loading and Unloading of Cement by Manual Means**			
	(i)	Loading of Cement by manual means including a lead upto 30 m	Tonne	**59.00**
	(ii)	Unloading of Cement by manual means including a lead upto 30 m	Tonne	**59.00**
1.5	**Loading and Unloading of Structural Steel and Steel Bars by manual means**			
	(i)	Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m	Tonne	**66.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	(ii) Unloading of Structural Steel, Steel Bars by manual means including a lead upto 30 m	Tonne	**66.00**
1.6	**Loading and Unloading of Bitumen Drums by Manual Means**		
	(i) Loading of Bitumen Drums by manual means including a lead upto 30 m	Tonne	**67.00**
	(ii) Unloading of Bitumen Drums by Manual Means including a lead upto 30 m	Tonne	**59.00**
1.7	**Loading and Unloading of Timber by Manual Means**		
	(i) Loading of Timber by manual means including a lead upto 30 m	Tonne	**99.00**
	(ii) Unloading of Timber by manual means including a lead upto 30 m	Tonne	**99.00**
1.8	**Loading and Unloading of C.C. Blocks, Kerb, etc.**		
	(i) Loading with care C.C. Blocks, km Stone, 200 m Stone, Boundary Pillar, Kerb, Channel, Bond Stone, etc. by manual means including a lead upto 30 m	Cum	**157.00**
	(ii) Unloading with care C.C. Blocks, km Stone, 200 m Stone, Boundary Pillar, Kerb, Channel, Bond Stone, etc. by manual means including a lead upto 30 m	Cum	**157.00**
1.9	**Loading and Unloading of Hume Pipes**		
	(i) Loading of RCC Hume pipes by mechanical means including a lead upto 30 m		
	A. 1000 / 1200 mm dia Hume pipe	Per Pipe	**44.00**
	B. 750 mm dia Hume pipe	Per Pipe	**27.00**
	C. 600/450 mm dia Hume pipe	Per Pipe	**19.00**
	(ii) Unloading of RCC Hume pipe by manual means including a lead upto 30 m		
	A. 1000/1200 mm dia RCC Hume pipes	Per Pipe	**173.00**
	B. 750 mm dia Hume pipe	Per Pipe	**141.00**
	C. 600/450 mm dia Hume pipe	Per Pipe	**105.00**
	(iii) Unloading of RCC Hume pipes by mechanical means including a lead upto 30 m		
	A. 1000/1200 mm dia Hume pipe	Per Pipe	**32.00**
	B. 750 mm dia Hume pipe	Per Pipe	**19.00**
	C. 600/450 mm dia Hume pipe	Per Pipe	**14.00**
1.10	**Haulage excluding Loading & Unloading**		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Haulage of materials by tipper excluding cost of loading, unloading and stacking.		
	Case-I : Surfaced Road	T.km	**3.60**
	Case-II: Unsurfaced Gravel Road	T.km	**4.40**
	Case-III: Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	T.km	**9.00**
1.11	**Supply of Quarried stone and hand breaking**		
	(i) Supply of quarried stone and hand breaking into coarse aggregate to Grading 1 (63 mm to 45 mm) as per Table 400-9 of MoRTH Specifications.	Cum	**670.00**
	(ii) Supply of quarried stone and hand breaking into coarse aggregate to Grading 2 (53 mm to 22.4 mm) as per Table 400-9 of MoRTH Specifications.	Cum	**735.00**
1.12	**Crushing of Stone Aggregates 100 per cent passing through 53 mm sieve as per Table 400-13 of MoRTH Specifications.**		
	Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 t/h capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates 100 per cent passing through 53 mm sieve as per Table 400-13 of MoRTH Specifications including the cost of stone.	Cum	**505.00**
1.13	**Crushing of Stone Aggregates 100 per cent passing through 26.5 mm sieve as per Table 500-21 of MoRTH Specifications.**		
	Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 t/h capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates 100 per cent passing through 26.5 mm sieve as per Table 500-21 of MoRTH Specifications including the cost of stone.	Cum	**510.00**
1.14	**Crushing of Stone Aggregates Nominal Size 13 mm as per Table 500-21 of MoRTH Specifications.**		
	Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 t/h capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates of 13 mm nominal size as per Table 500-21 of MoRTH Specifications including the cost of stone.	Cum	**649.00**
1.15	**Crushing of Stone Aggregates 10 mm Nominal Size as per Table 500-21 of MoRTH Specifications.**		
	Crushing of stone boulders of 150 mm size in an integrated stone crushing unit of 200 t/h capacity comprising of primary and secondary crushing units, belt conveyor and vibrating screens to obtain stone aggregates of 10 mm nominal size as per Table 500-21 of MoRTH Specifications including the cost of stone.	Cum	**670.00**
1.16	**Setting Out**		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Construction of reference bench mark (1 No.), working bench mark (4 Nos.) and near all drainage structures and bridges (as per direction of Engineer-in-charge), reference pillar/ burgees @ 50m interval on both side of formation width including marking of centre line, setting out curves, recording of levels, white washing and lettering etc. complete each pillar to be painted with with a unique identification no and directional information as per MoRTH specifications cl. 109.	Per Km	**58945.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 2 - SITE CLEARANCE			
2.1	**Clearing Grass and Removal of Rubbish**		
	Clearing grass and removal of rubbish up to a distance of 30 m outside the periphery of the area as per MoRTH Specification Clause 201.		
	By Manual Means	Hectare	**8720.00**
2.2	**Clearing and Grubbing Road Land**		
	Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per MoRTH Specification Clause 201.		
	(I) By Manual Means		
	(A) In area of non-thorny jungle	Hectare	**33075.00**
	(B) In area of thorny jungle	Hectare	**44350.00**
	(II) By Mechanical Means		
	(A) In area of non-thorny jungle	Hectare	**12513.00**
	(B) In area of thorny jungle	Hectare	**15386.00**
2.3	**Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps**		
	Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per MoRTH Specification Clause 201.		
	A. Lead upto 100 m		
	(i) Girth above 300 mm to 600 mm	Each	**145.00**
	(ii) Girth above 600 mm to 900 mm	Each	**250.00**
	(iii) Girth above 900 mm to 1800 mm	Each	**510.00**
	(iv) Girth above 1800 mm to 2700 mm	Each	**984.00**
	(v) Girth above 2700 mm to 4500 mm	Each	**2050.00**
	(vi) Girth above 4500 mm	Each	**6083.00**
	B. Lead upto 1000 m		
	(i) Girth above 300 mm to 600 mm	Each	**151.00**
	(ii) Girth above 600 mm to 900 mm	Each	**277.00**

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
		(iii)	Girth above 900 mm to 1800 mm	Each	**555.00**
		(iv)	Girth above 1800 mm to 2700 mm	Each	**1049.00**
		(v)	Girth above 2700 mm to 4500 mm	Each	**2112.00**
		(vi)	Girth above 4500 mm	Each	**6230.00**
2.4	**Uprooting and Removing Stumps & Roots**				
	Uprooting and Removing Stumps & roots, compaction of backfilling and stacking of servicable material by manual means as per MoRTH Specification Clause 201.				
	A.	Lead upto 100 m			
		(i)	Girth above 300 mm to 600 mm	Each	**81.00**
		(ii)	Girth above 600 mm to 900 mm	Each	**132.00**
		(iii)	Girth above 900 mm to 1800 mm	Each	**308.00**
		(iv)	Girth above 1800 mm to 2700 mm	Each	**595.00**
		(v)	Girth above 2700 mm to 4500 mm	Each	**1230.00**
		(vi)	Girth above 4500 mm	Each	**3505.00**
	B.	Lead upto 1000 m			
		(i)	Girth above 300 mm to 600 mm	Each	**81.00**
		(ii)	Girth above 600 mm to 900 mm	Each	**145.00**
		(iii)	Girth above 900 mm to 1800 mm	Each	**308.00**
		(iv)	Girth above 1800 mm to 2700 mm	Each	**616.00**
		(v)	Girth above 2700 mm to 4500 mm	Each	**1245.00**
		(vi)	Girth above 4500 mm	Each	**3590.00**
2.5	**Dismantling of Structures**				
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per MoRTH Specification Clause 202.				
	(I)	By Manual Means			
		(A)	Lime Concrete	Cum	**225.00**
		(B)	Cement Concrete	Cum	**305.00**

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
		(C)	Reinforced Cement Concrete	Cum	**708.00**
	(II)	By Mechanical Means			
		(A)	Cement Concrete	Cum	**308.00**
		(B)	Reinforced Cement Concrete	Cum	**478.00**
2.6	**Dismantling Brick/Tile Work**				
	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per MoRTH Specification Clause 202.				
	(A)	Lime mortar		Cum	**145.00**
	(B)	Cement mortar		Cum	**195.00**
	(C)	Mud Mortar		Cum	**119.00**
	(D)	Dry Brick Pitching or Brick Soling		Cum	**118.00**
2.7	**Dismantling Stone Masonry as per MoRTH Specification Clause 202.**				
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of stone masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per MoRTH Specification Clause 202.				
	(A)	Rubble Stone Masonry in Lime Mortar		Cum	**162.00**
	(B)	Rubble Stone Masonry in Cement Mortar		Cum	**195.00**
	(C)	Rubble Stone Masonry in Mud Mortar		Cum	**145.00**
	(D)	Dry Rubble Masonry		Cum	**132.00**
	(E)	Dismantling Stone Pitching / Dry Stone Spalls		Cum	**118.00**
	(F)	Dismantling boulders laid in wire crates including opening of crates and stacking dismantled materials		Cum	**151.00**
2.8	Dismantling Wood Work Wrought and Planed Fixed in Frames of Trusses upto a height of 5 m above Plinth Level as per MoRTH Specification Clause 202.			Cum	**348.00**
2.9	Dismantling Steel Work in all Types of Sections upto a height of 5 m above Plinth Level excluding Cutting of rivet as per MoRTH Specification Clause 202.				
	(A)	Including dismembering		Tonne	**939.00**
	(B)	Excluding dismembering		Tonne	**649.00**
	(C)	Extra over Items (A) and (B) for cutting rivets		Tonne	**5.75**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
2.10	Scraping of bricks dismantled from brick work including stacking as per MoRTH Specification Clause 202.	1000 Nos.	**759.00**
2.11	Scraping of Stone from Dismantled Stone Masonry as per MoRTH Specification Clause 202.		
	In Cement or Lime Mortar	Cum	**302.00**
2.12	Scraping Plaster in Lime or Cement Mortar from Brick / Stone Masonry as per MoRTH Specification Clause 202.	Sqm	**8.50**
2.13	Removing all types of Hume pipes and stacking within a lead of 1000 m including Earthwork and Dismantling of Masonry Works as per MoRTH Specification Clause 202.		
	(A) Upto 600 mm dia Hume pipe	Rmt.	**105.00**
	(B) Above 600 mm to 900 mm dia Hume pipe	Rmt.	**145.00**
	(C) Above 900 mm dia Hume pipe	Rmt.	**252.00**
2.14	**Dismantling of Flexible Pavements**		
	Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 100 m, stacking serviceable and unserviceable materials separately as per MoRTH Specification Clause 202		
	(I) By Manual Means		
	(A) Bituminous Courses	Cum	**445.00**
	(B) Granular Courses	Cum	**312.00**
	(II) By Mechanical Means		
	(A) Bituminous Courses & Granular Courses	Cum	**100.00**
2.15	**Dismantling of Cement Concrete Pavements as per MoRTH Specification Clause 202.**		
	Dismantling of cement concrete pavements by mechanical means using pneumatic tools breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 m, stacking serviceable and unserviceable materials separately	Cum	**632.00**
2.16	**Dismantling Guard Rails**		
	Dismantling guard rails by manual means and disposal of dismantled material with all lifts and upto a lead of 1000 m, stacking serviceable materials and unserviceable materials separately as per MoRTH Specification Clause 202.	Rmt.	**44.00**
2.17	**Dismantling Kerb Stones**		
	Dismantling kerb stones by manual means and disposal of dismantled material with all lifts and upto a lead of 1000 m as per MoRTH Specification Clause 202.	Rmt.	**8.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
2.18	**Dismantling Kerb Stone Channels**		
	Dismantling kerb stone channels by manual means and disposal of dismantled material with all lifts and upto a lead of 1000 m as per MoRTH Specification Clause 202.	Rmt.	**12.75**
2.19	**Dismantling Kilometre Stones**		
	Dismantling of kilometre stones including cutting of earth, foundation and disposal of dismantled material with all lifts and lead upto 1000 m and backfilling of pit as per MoRTH Specification Clause 202.		
	(A) 5th km Stone	Rmt.	**202.00**
	(B) Ordinary km Stones	Rmt.	**118.00**
	(C) 200 m Stones	Rmt.	**25.00**
2.20	**Dismantling of Fencing**		
	Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, backfilling of pit by manual means including disposal of dismantled material with all lifts and upto a lead of 1000 m, stacking serviceable material and unserviceable material separately as per MoRTH Specification Clause 202.	Rmt.	**31.00**
2.21	**Dismantling of CI Water Pipe Line**		
	Dismantling of CI water pipe line 600 mm dia including disposal with all lifts and lead upto 1000 m and stacking of serviceable material and unserviceable material separately under supervision of concerned department as per MoRTH Specification Clause 202.	Rmt.	**94.00**
2.22	**Removal of Cement Concrete Pipe of Sewer Gutter**		
	Removal of cement concrete pipe of sewer gutter 1500 mm dia under the supervision of concerned department including disposal with all lifts and upto a lead of 1000 m and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works as per MoRTH Specification Clause 202.	Rmt.	**106.00**

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
Chapter 3-EARTHWORK, EROSION CONTROL AND DRAINAGE				
3.1		**Preparation of Foundation for Embankment**		
		Scarifying Existing Granular Surface to a Depth of 50 mm by Manual Means		
		Scarifying existing granular surface to a depth of 50 mm and disposal of scarified material with a lift upto 3 m and leads upto 1000 m as per MoRTH Specification Clause 305.4.3	Sqm	**11.75**
3.2		**Preparation of Foundation for Embankment**		
		Scarifying Existing Bituminous Surface to a Depth of 150 mm by Mechanical Means		
		Scarifying the existing bituminous road surface to a depth of 150 mm and disposal of scarified material with a lift upto 3 m and lead upto 1000 m as per MoRTH Specification Clause 305.4.3	Sqm	**15.00**
3.3		**Construction of Embankment with Material Obtained from Roadway Cutting**		
		Construction of embankment with approved materials deposited at site obtained from roadway cutting and excavation from drain and foundation or other structures graded and compacted to meet requirement of Tables 300-1 and 300-2 as per MoRTH Specification Clause 305.3	Cum	**40.00**
		Note :- Deduct if excavated earth as per item No. 3.5 (ii) is used and pushed for filling in embankment.	Cum	**6.00**
3.4		**Construction of Embankment with Material Obtained from Borrow Pits**		
	(i)	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300-1 and 300-2 with a lead upto 50 m as per MoRTH Specification Clause 305.3	Cum	**58.00**
3.5	(i)	**Excavation in Cutting in Soil by manual means with lead upto 50 m**		
		Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m as per MoRTH Specification Clause 301.3	Cum	**76.00**
	(ii)	**Excavation in Soil with Dozer with lead upto 100 m**		
		Excavation for roadway in soil by mechanical means including cutting and pushing the earth to site of embankment upto a distance of 100 m, including trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections.	Cum	**25.00**
	(iii)	**Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m**		

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
		Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per MoRTH Specification Clause 301.3	Cum	**31.00**
3.6	**Excavation in Marshy Soil**			
	Excavation for roadway in marshy soil with hydraulic excavator 0.9 cum bucket capacity including cutting and loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 m, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross- sections as per MoRTH Specification Clause 301.3.6.	Cum	**32.00**
3.7	**Removal of Unsuitable Soil with Disposal upto 1000 m**			
	Removal of unsuitable soil including excavation, loading and disposal upto 1000 m lead but excluding compaction ground supporting embankment subgrade replacement by suitable soil, which shall be paid separately as per Clause 305.3.4 as per MoRTH Specification Clause 301.3.11		Cum	**31.00**
3.8	**(i)**	**Excavation in ordinary Rock by manual means**		
		Excavation in ordinary rock using manual means including loading in a truck and carrying of excavated material to embankment site with a lift upto 1.5 m and lead upto 50 m as per MoRTH Specification Clause 301.3.5.	Cum	**127.00**
	(ii)	**Excavation in Ordinary Rock with Dozer with lead upto 100 m**		
		Excavation for roadway in ordinary rock by deploying a dozer D-50 including cutting and pushing the cut earth to site of embankment upto a distance of 100 m (average lead 50 m), trimming bottom and side slopes in accordance with the requirements of lines, grades and cross-sections with lift upto 1.5 m.	Cum	**30.00**
	(iii)	**Excavation in Ordinary Rock using Hydraulic Excavator and Tippers with disposal upto 1000 m**		
		Excavation for roadway in ordinary rock with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, transporting to embankment site with a lift upto 1.5 m and lead upto 1000 m, trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections as per MoRTH Specification Clause 301.3.5	Cum	**44.00**
3.9	**(i)**	**Excavation in Hard Rock (requiring blasting) with disposal upto 1000 m**		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Excavation for roadway in hard rock (requiring blasting) by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross-sections, loading and disposal of cut rock with a lift upto 1.5 m and leads upto 1000 m as per MoRTH Specification Clause 301.3.5	Cum	**175.00**
	(ii) Excavation in Hard Rock (blasting prohibited)		
	Excavation for roadway in hard rock (blasting prohibited) with rock breakers including breaking rock, loading in tippers and disposal with a lift upto 1.5 m and lead upto 1000 metres, trimming bottom and side slopes in accordance with requirements of lines, grades and cross-sections as per MoRTH Specification Clause 301.3.5		
	(A) Manual Means	Cum	**708.00**
	(B) Mechanical Means	Cum	**236.00**
	(iii) Excavation in Hard Rock (controlled blasting) with disposal upto 1000 m		
	Excavation for roadway in hard rock with controlled blasting by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross-sections, loading and disposal of cut rock with a lift upto 1.5 m and leads upto 1000 m as per MoRTH Specification Clause 301.3.5	Cum	**275.00**
3.10	**Stripping, Storing and Relaying Top Soil from Right-of-Way (R.O.W)**		
	Stripping, storing and preservation of top soil by keeping it damp in stock piles and keep wet till it is used by road side at 15 m internal and re-application on embankment slopes, cut slopes and other areas in localities where the available embankment material is not conducive to plant growth as per MoRTH Specification Clause 301.3.2.& 305.3.3	Cum	**94.00**
3.11	**Stripping, Storing and Relaying Top Soil from Borrow Areas in Agricultural Fields**		
	Stripping of top soil from borrow areas located in agriculture fields, storing at a suitable place, spreading and relaying after taking the borrow earth to maintain fertility of the agricultural field, finishing it to the required levels to the satisfaction of the farmer/land owner as per MoRTH Specification Clause 301.3.2.& 305.3.3	Cum	**90.00**
3.12	**Turfing with Sods**		
	Furnishing and laying of the live sods of perennial turf forming grass on embankment slope, verges or other locations shown on the drawing or as directed by the Engineer including preparation of ground, fetching of sods and watering as per MoRTH Specification Clause 307.	Sqm	**74.00**
3.13	**Seeding and Mulching**		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Preparation of seed bed on previously laid top soil, furnishing and placing of seeds, fertilizer, mulching material, applying bituminous emulsion @ 0.23 litre per sqm and laying and fixing jute netting, including watering for 3 months all as per MoRTH Specification Clause 308.	Sqm	**597.00**
3.14	**Construction of Subgrade and Earthen Shoulders**		
	(i) Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300-2 with lead upto 50 m as per MoRTH Specification Clause 305.3	Cum	**59.00**
3.15	**Compacting Original Ground**		
	(i) Compacting original ground supporting embankment		
	Loosening, Levelling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Tables 300-1 and 300-2 for embankment construction as per MoRTH Specification Clause 305.3.4	Cum	**13.00**
	(ii) Compacting original ground supporting subgrade		
	Loosening of the ground upto a level of 300 mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Tables 300-1 and 300-2 for subgrade construction as per MoRTH Specification Clause 305.3.4	Cum	**35.00**
3.16	**Repairs of damages caused by rain/spillage of water**		
	Preparation and surface treatment of formation by removing mud and slurry, watering to the extent needed to maintain the desired moisture content, trimming to the required line, grade, profile and rolling with three wheel 80-100 kN static roller, complete as per MoRTH Specification Clause 305.3.8	Sqm	**1.00**
3.17	**Presplitting Rock Excavation Slopes**		
	Carrying out excavation in hard rock to achive a specified slope of the rock face by controlled use of explosives and blasting accessories in properly aligned and spaced drill holes, collection of the excavated rock by a D-50 dozer, loading in tipper by a front end loader and disposing of the material with a lift upto 1.5 m and lead upto 1000 m as per MoRTH Specification Clause 303.2	Sqm	**120.00**
3.18	**(i) Surface Drains in Soil**		
	Construction of unlined surface drains of average cross-sectional area 0.40 sqm in soil to specified lines, grades, levels and dimensions. Excavated material to be used in embankment with a lift upto 3m and lead of 50 m (average lead 25 m) as per MoRTH Specification Clause 309.		
	(A) Manual Means	Rmt.	**38.00**

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
		(B)	Mechanical Means	Rmt.	**8.75**
	(ii)	**Surface Drains in Ordinary Rock**			
		Construction of unlined surface drain of average cross-sectional area 0.4 sqm in ordinary rock to specified lines, grades, levels and dimensions as per approved design and MoRTH Specification Clause 309. Excavated material to be used in embankment at site.			
		(A)	Manual Means	Rmt.	**59.00**
		(B)	Mechanical Means	Rmt.	**19.75**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 4 - GRANULAR SUB-BASES, BASES (NON-BITUMINOUS) AND SHOULDERS			
4.1	**Granular Sub-base with Well Graded Material (Table 400-1)**		
	(A) By Mix in Place Method		
	Construction of granular sub-base by providing well graded material, spreading in uniform layers with Tractor Mount Grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per MoRTH Specification Clause 401.		
	(i) For Grading I Material	Cum	**512.00**
	(ii) For Grading II Material	Cum	**482.00**
	(iii) For Grading III Material	Cum	**450.00**
4.2	**Granular Sub-Base with Close Graded Material (Table:- 400-1)**		
	Plant Mix Method		
	Providing laying spreading and compacting specified graded sand, gravel (crushed stone) as per Table 400-1,400-2 or any other course material as per design mix, as per CBR in sub base course including premixing the material at OMC in wet mix plant, carriage of mixed material spreading in uniform layers with motor grader F.E loader on a prepared base and compacting with vibratory roller to achieve desired density (as per I.S.2720) including all material, labor, machinery, lighting guarding, barricading and maintenance of diversion complete.[MoRTH specification : Clause 401]. By mechanical means.		
	(i) For Grading-I Material	Cum	**882.00**
	(ii) For Grading-II Material	Cum	**859.00**
	(iii) For Grading-III Material	Cum	**845.00**
	(iv) For Grading-IV Material	Cum	**845.00**
	(v) For Grading-V Material	Cum	**894.00**
	(vi) For Grading-VI Material	Cum	**869.00**
4.3	**Lime Stabilisation for Improving Sub grade**		
	Laying and spreading available soil in the subgrade on a prepared surface, pulverising, mixing the spread soil in place with rotavator with 2 per cent slaked lime having minimum 70 per cent of contents of CaO, grading with motor grader and compacting with the smooth wheel road roller at OMC to the desired density to form a layer of improved Sub-grade as per MoRTH Specification Cluase 402.		
	(A) By Manual Means	Cum	**224.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	(B) By Mechanical Means	Cum	**213.00**
4.4	**Water Bound Macadam Sub-base/base with Stone Screening**		
	1) WBM Grading 1		
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening & binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading 1 as per MoRTH Specification Clause 404.		
	I Using Hand Broken Aggregate		
	(A) By Manual Means	Cum	**1142.00**
	(B) By Mechanical Means	Cum	**1016.00**
	II Using Crusher Broken Aggregate		
	(A) By Manual Means	Cum	**1142.00**
	(B) By Mechanical Means	Cum	**1016.00**
	2) WBM Grading 2		
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per MoRTH Specification Clause 404. using Crusher borken aggregate		
	(A) By Manual Means	Cum	**1227.00**
	(B) By Mechanical Means	Cum	**1093.00**
4.5	**Item Deleted**		
4.6	**Wet Mix Macadam**		
	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400-12 & 400-13 and MoRTH Specification Clause 406.		
	By Mechanical Means with all lead	Cum	**1147.00**

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
4.6 A	Extra rate for carriage of mixed material additional lead from in item 4.6				
	(i)	2nd Km. to 10th Km		Cum/P.Km	**5.00**
	(ii)	11th Km. to 20th Km		Cum/P.Km	**4.50**
	(iii)	Beyond 20th Km		Cum/P.Km	**4.00**
4.7	Construction of Shoulders as per MoRTH Specification Clause 408.				
	A.	Earthen Shoulders		The rate as applicable	
	B.	Hard Shoulders		Rate as applicable for sub-	
	C.	Paved Shoulders		The rates may be adopted as	
4.8	**Lime-Flyash Stablised Soil Sub-base**				
	Construction of sub-base using lime-flyash admixture with granular soil, free from organic matter/deleterious material or clayey silts and low plasticity clays having PI between 5 and 20 and liquid limit less than 25 and commercial dry lime, slaked at site or pre-slaked with CaO content not less than 50 per cent, flyash to conform to gradation as per Clause 4.3 of IRC:SP:20, lime+flyash content ranging between 10 to 30 per cent, the minimum un-confined compressive strength and CBR value after 28-days curing and 4-days soaking to be 0.75 MPa and 25 per cent respectively, all as specified in IRC:88 including a lead upto 1000 m as per MoRTH Specification Cluase 402.			Cum	**379.00**
4.9	**Crusher Run Macadam Base**				
	Providing crushed run stone aggregate greading conforming to table 400-14 depositing on a prepared surface by hauling vehicles, spreading and mixing with a motor grader, watering and compacting with a three wheel 80-100 kN static roller as per MoRTH Specification Clause 407 to form a layer of sub-base/base				
	A)	By mix-in-place method			
		(i)	With 53 mm maximum size of aggregates	Cum	**827.00**
		(ii)	With 37.5 mm maximum size of aggregates	Cum	**965.00**
	B)	By mixing plant method			
		(i)	With 53 mm maximum size of aggregates	Cum	**1081.00**
		(ii)	With 37.5 mm maximum size of aggregates	Cum	**1139.00**
4.10	**Brick Soling**				

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolliing the same with three wheel road roller 80-100 kN as per MoRTH Specification Clause 408.4.3.	Sqm	**323.00**
4.11	**Stone Set Pavement**		
	Providing and laying stone set pavement on prepared surface with sub-base 100 mm thick compacted Granular Sub-base as per Clause 401.3 and base 75 mm thick compacted water bound macadam grading 1 as per Clause 404.3. The 150 mm thick hammer dressed stones are laid in the herringbone or stretcher bond pattern. The stones are compacted into the bedding sand of 40 mm over the WBM base bounded by edge stone using suitable compacting device. The gaps are filled with fine sand stone dust as per MoRTH Specification Clause 408.	Sqm	**475.00**

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
Chapter 5 - BASES AND SURFACE COURSES (BITUMINOUS)				
5.1	**Prime Coat**			
	(i)	Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base(WBM/WMM) including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per MoRTH Specification Clause 502	Sqm	**31.00**
	(ii)	Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base (Stablised soil baes/Crusher Run Macadam) including cleaning of road surface and spraying primer at the rate of 0.90- 1.2 kg/sqm using mechanical means as per MoRTH Specification Clause 502.	Sqm	**39.00**
5.2	**Tack Coat**			
	(i)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.20 to 0.30 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per MoRTH Specification Clause 503.	Sqm	**9.60**
	(ii)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per MoRTH Specification Clause 503.	Sqm	**11.00**
	(iii)	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion pressure distributor at the rate of 0.30 to 0.35 kg per sqm on the prepared non-bituminous surfaces (cement concrete pavement) cleaned with Hydraulic broom as per MoRTH Specification Clause 503.	Sqm	**12.00**
		Tack Coat using Bitumen (VG-10)		
	(iv)	Providing and applying tack coat with Bitumen VG-10 using bitumen pressure distributor at the rate of 0.30 to 0.40 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per MoRTH Specification Clause 503 and IRC-16-2008	Sqm	**14.75**
	(v)	Providing and applying tack coat with Bitumen VG-10 using bitumen pressure distributor at the rate of 0.35 to 0.45 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per MoRTH Specification Clause 503 and IRC-16-2008.	Sqm	**17.60**
	(vi)	Providing and applying tack coat with Bitumen VG-10 using bitumen pressure distributor at the rate of 0.40 to 0.50 kg per sqm on the prepared non-bituminous surfaces (cement concrete pavement) cleaned with Hydraulic broom as per MoRTH Specification Clause 503 and IRC-16-2008.	Sqm	**19.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
5.3	**Bituminous Macadam**		
	Providing and laying bituminous macadam with hot mix plant using crushed aggregates of grading as per Table 500-7 premixed with bituminous binder, transported to site with all leads laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled to achieve the desired compaction as per MoRTH Specification Clause 504.		
	(i) Bitumen (VG-10)	Cum	**6449.00**
		MT	**2932.00**
	(ii) Bitumen (VG-30)	Cum	**6613.00**
		MT	**3006.00**
5.4	**Surface Dressing using Bituminous (Viscosity grade / modified bitumen) Binder**		
	Providing and laying surface dressing as wearing course consisting of a layer of bituminous binder laid on the prepared surface, followed by a cover of crushed stone aggregates of specified size and rolling with three wheel 80-100 kN static roller including cleaning the road surface as per MoRTH Specification Clause 509.		
	(A) By Manual Means		
	Case – I: Nominal chipping size 13.2 mm		
	(I) Bitumen (VG-10)	Sqm	**83.50**
	(II) Bitumen (VG-30)	Sqm	**84.50**
	Case – II: Nominal chipping size 9.5 mm		
	(I) Bitumen (VG-10)	Sqm	**72.50**
	(II) Bitumen (VG-30)	Sqm	**73.50**
	(B) By Mechanical Means		
	Case – I: Nominal chipping size 13.2 mm		
	(I) Bitumen (VG-10)	Sqm	**61.50**
	(II) Bitumen (VG-30)	Sqm	**62.50**
	Case – II: Nominal chipping size 9.5 mm		
	(I) Bitumen (VG-10)	Sqm	**52.75**
	(II) Bitumen (VG-30)	Sqm	**55.00**
5.5	**Surface Dressing using Bitumen Emulsion**		
	Providing and laying surface dressing as wearing course consisting of a layer of bitumen emulsion laid on the prepared surface, followed by a cover of crushed stone chippings of specified size and rolling with 80-100 kN roller including cleaning the road surface as per MoRTH Specification Clause 509.		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	(A) By Manual Means		
	Case – I: Nominal aggregate size 13.2 mm	Sqm	**89.00**
	Case – II: Nominal chipping size 9.5 mm	Sqm	**79.00**
	(B) By Mechanical Means		
	Case – I: Nominal chipping size 13.2 mm	Sqm	**70.00**
	Case – II: Nominal chipping size 9.5 mm	Sqm	**63.75**
5.6	**Pre-coating Chips**		
	Pre-coating of chips with 1 per cent of paving bitumen by weight of chips in a suitable mixer duly heated to 160 degree C as per MoRTH Specification Clause 509.2.2		
	(I) Bitumen (VG-10)	Cum	**1025.00**
	(II) Bitumen (VG-30)	Cum	**1050.00**
5.7	**20mm thick Open-Graded Premix Carpet using Bituminous (Viscosity grade/modified bitumen) Binder**		
	Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using Viscosity grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per MoRTH Specification Clause 510.		
	Case - I By Manual Means		
	(I) Bitumen (VG-10)	Sqm	**127.00**
	(II) Bitumen (VG-30)	Sqm	**129.00**
	Case - II By Mechanical Means		
	(I) Bitumen (VG-10)	Sqm	**133.00**
		MT	**3325.00**
	(II) Bitumen (VG-30)	Sqm	**135.00**
		MT	**3400.00**
5.8	**Mix Seal Surfacing**		
	Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using Viscosity grade bitumen to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 kN static roller and finishing to required level and grades as per MoRTH Specification Clause 508		

Item No.	Description				Unit	Rates (Rs)
1	2				3	4
	By Manual Means					
		Type A				
			(I)	Bitumen (VG-10)	Sqm	**154.00**
			(II)	Bitumen (VG-30)	Sqm	**157.00**
		Type B				
			(I)	Bitumen (VG-10)	Sqm	**139.50**
			(II)	Bitumen (VG-30)	Sqm	**143.00**
	By Mechanical Means					
		Type A				
			(I)	Bitumen (VG-10)	Sqm	**156.00**
			(II)	Bitumen (VG-30)	Sqm	**159.50**
		Type B				
			(I)	Bitumen (VG-10)	Sqm	**143.00**
			(II)	Bitumen (VG-30)	Sqm	**146.00**
5.9	**Seal Coat**					
	Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per MoRTH Specification Clause 511					
	A.	By Manual Means				
		Case - I : Type A				
			(I)	Bitumen (VG-10)	Sqm	**61.50**
			(II)	Bitumen (VG-30)	Sqm	**62.50**
		Case - II : Type B				
			(I)	Bitumen (VG-10)	Sqm	**40.50**
			(II)	Bitumen (VG-30)	Sqm	**41.00**
	B.	By Mechanical Means				
		Case - I : Type A				
			(I)	Bitumen (VG-10)	Sqm	**56.00**
			(II)	Bitumen (VG-30)	Sqm	**57.00**
		Case - II : Type B				
			(I)	Bitumen (VG-10)	Sqm	**41.50**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	(II) Bitumen (VG-30)	Sqm	**44.00**
5.10	**20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder using plastic waste**		
	Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing of aggregate and plastic waste cutting in a hotmix plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per MoRTH Specification Clause 510. (Bitumen VG-30) (By mechnical means) Waste Plastic @ 8% of bitumen.		
	Case - II By Mechanical Means		
	(i) Bitumen (VG-30)	Sqm	**137.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 6 - CEMENT CONCRETE PAVEMENT			
6.1	**Cement Concrete Pavement**		
	Construction of un-reinforced , plain cement concrete pavement M30 (Grade), thickness as per design, over a prepared sub base, with 43/53 grade cement as per Clause 602, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a in fully automatic Batching Plant and transported to site in transit mixer for having continuous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Fixed Form Paver (laying and fixing of 150 micron thick polythene Film and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and MoRTH Specification Clause 602 including vaccum dewatering process with all required equipments (Dowel Bars will be paid seprately).	Cum	**6000.00**
6.2	**Rectangular Concrete Block Pavement**		
	Manufacturing, laying of cement concrete blocks of size 0.450 m x 0.300 m x 0.15 m of Cement Concrete (C.C.) M30 grade and spreading 25 mm thick sand under neath and filling joints with sand on existing W.B.M. base,as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602.	Sqm	**1055.00**
6.3	**Interlocking Concrete Block Pavement with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks (measurements shall be made inner to inner side of edge blocks)**		
	(i) Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 50 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602.with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks		
	(a) Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	Sqm	**746.00**
	(b) Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	Sqm	**666.00**
	(c) Category 'C' : Not dentated on any of its faces like Hexagonal, Rectangular, Square shape as per IRC:SP:63-2004	Sqm	**591.00**
	(ii) Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 60 mm as per drawings and as per IS 15658:2006.and materials conforming to MoRTH Specification Clause 602 with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.		

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
		(a)	Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	Sqm	**832.00**
		(b)	Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	Sqm	**750.00**
		(c)	Category 'C' : Not dentated on any of its faces like Hexagonal, Rectangular, Square shape as per IRC:SP:63-2004	Sqm	**670.00**
	(iii)	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 80 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602 with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.			
		(a)	Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	Sqm	**1029.00**
		(b)	Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	Sqm	**917.00**
		(c)	Category 'C' : Not dentated on any of its faces like Hexagonal, Rectangular, Square shape as per IRC:SP:63-2004	Sqm	**756.00**
	(iv)	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 100 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602. with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.			
		(a)	Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	Sqm	**1245.00**
		(b)	Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	Sqm	**1146.00**
		(c)	Category 'C' : Not dentated on any of its faces like Hexagonal, Rectangular, Square shape as per IRC:SP:63-2004	Sqm	**922.00**
	(v)	Providing and Laying of Interlocking M-30 grade Concrete Block Pavements having thickness 120 mm as per drawings and as per IS 15658:2006.and all materials shall conform to MoRTH Specification Clause 602. with M-30 Grade 0.30 Mtr x 0.30 Mtr x 0.15 Mtr Edge Blocks.		Sqm	
		(a)	Category 'A' : Dentated units to key into each other on all four faces Zigzag shape as per IRC:SP:63-2004	Sqm	**1480.00**
		(b)	Category 'B' : Dentated only two side like I,Z,T shape as per IRC:SP:63-2004	Sqm	**1362.00**
		(c)	Category 'C' : Not dentated on any of its faces like Hexagonal, Rectangular, Square shape as per IRC:SP:63-2004	Sqm	**1139.00**
6.4		Add extra for Providing M-35 grade concrete Interlocking Blocks in place of M-30 grade.			
		6.4.1	60mm thick Blocks	Sqm	**3.30**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	6.4.2 80mm thick Blocks	Sqm	**4.40**
	6.4.3 100mm thick Blocks	Sqm	**5.50**
	6.4.4 120mm thick Blocks	Sqm	**6.60**
6.5	Add extra for Providing M-40 grade concrete Interlocking Blocks in place of M-30 grade.		
	6.5.1 60mm thick Blocks	Sqm	**5.50**
	6.5.2 80mm thick Blocks	Sqm	**7.70**
	6.5.3 100mm thick Blocks	Sqm	**9.90**
	6.5.4 120mm thick Blocks	Sqm	**12.10**
6.6	Add extra for Providing M-50 grade concrete Interlocking Blocks in place of M-30 grade.		
	6.5.1 60mm thick Blocks	Sqm	**8.80**
	6.5.2 80mm thick Blocks	Sqm	**11.00**
	6.5.3 100mm thick Blocks	Sqm	**13.20**
	6.5.4 120mm thick Blocks	Sqm	**15.40**
6.6	Add extra for different colour in top surface	Sqm	**30.00**
6.7	**Dry Lean Cement Concrete**		
	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.	Cum.	**2715.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
6.8	**Cement Concrete Pavement with Slip Form Paver**		
	Construction of un-reinforced , plain cement concrete pavement M-40 (Grade), thickness as per design, over a prepared sub base, with 43/53 grade cement as per Clause 602, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a in fully automatic Batching Plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Slip Form Paver (laying and fixing of 150 micron thick polythene film) and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and MoRTH Specification Clause 602 should have minimum flexural strengthen of 4.5 MPa, including vaccum dewatering process with all required equipments. (Dowel Bars will be paid seprately).	Cum.	**6900.00**

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
Chapter 7 - CAUSEWAY AND SUBMERSIBLE BRIDGES				
7.1	Construction of Cut-off Walls/Head Walls			
	(i)	Earthwork in excavation for structures as per drawing and MoRTH specification Clause 305.		
		Rate as per item No.11.1 of Chapter 11	Cum	
	(ii)	Plain cement concrete M15 grade		
		Rate as per item No.11.4 (ii) of Chapter 11	Cum	
	(iii)	Brick masonry in cement mortar 1:4		
		Rate as per item No.11.5 (ii) of Chapter 11	Cum	
	(iv)	Stone masonry in cement mortar 1:4		
		Rate as per item No.11.6 (ii) of Chapter 11	Cum	
	(v)	Providing P.C.C M20 architectural coping on top of wall		
		Rate as per item No.12.13 of Chapter 12	Sqm	
7.2	Preparation of Subgrade			
	Rate as per item No.3.15 of Chapter 3		Cum	
7.3	Granular Sub-base			
	Rate as per item No.4.1 of Chapter 4		Cum	
7.4	W.B.M. Base Course			
	Rate as per item No.4.7 of Chapter 4		Cum	
7.5	Cement Concrete Slab			
	Rate as per item No.6.4 of Chapter 6		Cum	
7.6	(i)	Providing and Laying Apron with Stone Boulders as per Drawings & MoRTH Specification Clause 2503		
		Rate as per item No.14.1 of Chapter 14	Cum	
	(ii)	Providing and Laying of Boulder Apron Laid in Wire Crates as per Drawings & MoRTH Specification Clause 2503		
		Rate as per item No.14.2 of Chapter 14	Cum	
	(iii)	Providing and Laying of Apron with Cement Concrete Blocks as per Drawing and MoRTH Specification Clause 2503		
		Rate as per item No.14.3 of Chapter 14	Cum	
7.7	Guide Posts			
	Construction of RCC guide posts of 250 mm dia M25 grade cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC posts not to exceed 1 in 500 as per drawing and MoRTH Specification Clause 1700 & 1600		Each.	**702.00**
7.8	Bedding for Causeway			
	(i)	Type A (concrete cradle) Bedding Clause 2904		
		As per item No.9.2 of Chapter 9	Cum	

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	(ii) Type B (first class) Bedding Clause 2904		
	As per item No.9.2 of Chapter 9	Cum	
7.9	Laying Reinforced Cement Concrete Pipe NP3 as per drawing and MoRTH specification Clause 2900		
	As per item No.9.3 of Chapter 9	Rmt	
7.10	Laying Reinforced Cement Concrete Pipe NP4 as per MoRTH specification Clause 2900		
	As per item No.9.4 of Chapter 9	Rmt	

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 8 - HILL ROADS			
DELETED			

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 9 - PIPE CULVERTS			
9.1	**Excavation for Structures**		
	Earthwork in excavation for foundation of structures upto 3 m depth as per drawing and MoRTH specification Clause 2903 includding setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material.		
	Rate as per item No.11.1 of Chapter 11	Cum	
9.2	**Bedding for Pipe**		
	(i) Type A (Concrete Cradle) Bedding		
	Laying concrete cradle bedding with M15 Grade Cement Concrete as per Clause 2904 (ii)		
	Rate as per Item No.11.4 (II)(i) of Chapter 11	Cum	
	(ii) Type B (First Class) Bedding		
	Laying (First Class) bedding on well compacted sand, moorum or approved granular material as per Clause 2904 (i)		
	Rate as per Item No.11.2 of Chapter 11	Cum	
9.3	**Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row**		
	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 2905.		
	(A) 1200 mm dia	Rmt	**6684.00**
	(B) 1000 mm dia	Rmt	**4643.00**
	(C) 750 mm dia	Rmt	**3298.00**
	(D) 600 mm dia	Rmt	**1941.00**
	(E) 300 mm dia	Rmt	**736.00**
9.4	**Providing and Laying Reinforced Cement Concrete Pipe NP4 as per design in Single Row**		
	Providing and laying reinforced cement concrete pipe NP4 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 2905.		

Item No.	Description		Unit	Rates (Rs)
1	2		3	4
	(A)	1200 mm dia	Rmt	**7828.00**
	(B)	1000 mm dia	Rmt	**5420.00**
	(C)	750 mm dia	Rmt	**3629.00**
9.5	**Providing and Laying Reinforced Cement Concrete Pipe NP3 as per Design in Double Row**			
	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in double row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets as per Clause 2905.			
	(A)	1200 mm dia	Rmt	**13402.00**
	(B)	1000 mm dia	Rmt	**9317.00**
	(C)	750 mm dia	Rmt	**6595.00**
9.6	**Providing and Laying Reinforced Cement Concrete Pipe NP4 as per Design in Double Row**			
	Providing and laying reinforced cement concrete pipe NP4 for culverts on first class bedding of granular material in double row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets as per Clause 2905.			
	(A)	1200 mm dia	Rmt	**15711.00**
	(B)	1000 mm dia	Rmt	**10873.00**
	(C)	750 mm dia	Rmt	**7256.00**
9.7	Laying Cement Concrete Pipe NP3 (burried conduits) on first class bedding of granular material including fixing collar with cement sand mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonary work in head wall and parapets as per Clause 2905.			
	500 mm dia		Rmt	**746.00**
9.8	Laying Cement Concrete Pipe NP4 (burried conduits) on first class bedding of granular material including fixing collar with cement sand mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonary work in head wall and parapets as per Clause 2905.			
	500 mm dia		Rmt	**1111.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
9.9	Plain Cement Concrete M10 (1:3:6 nominal mix) in levelling course below open foundation of Head walls as per drawings & MoRTH Specification Clause 2908		
	Rate as per item No.11.4 of Chapter 11	Cum	
9.10	Brick Masonry Work in cement mortar in foundation of Head walls complete exculding pointing and plastering as per drawing and MoRTH specification Clause 2908		
	(A) Brick Masonry in 1:4 cement mortar		
	Rate as per item No.11.5 (ii) Chapter 11	Cum	
	(B) In cement-lime mortar (1:0.5:4.5)		
	Rate as per item No.11.5 (iii) Chapter 11	Cum	
9.11	Stone Masonry Work in cement mortar in foundation of Head walls complete as per drawing and MoRTH specification Clasue 2908		
	(A) In 1:4 cement mortar		
	Rate as per item No.11.6 (II) (ii) Chapter 11	Cum	
	(B) In cement-lime mortar (1:0.5:4.5)		
	Rate as per item No.11.6 (II) (iii) Chapter 11	Cum	
9.12	Pointing with Cement Mortar (1:3) on brickwork as per MoRTH specification Clause 1312.3		
	Rate as per item No.12.2 of Chapter 12	Sqm	
9.13	Plastering with Cement Mortar (1:4), 15 mm thick on brickwork in substructure as per MoRTH specification Clause 1312.4		
	Rate as per item No.12.3 of Chapter 12	Sqm	
9.14	Backfilling in Foundation Trenches as per drawing and MoRTH specification Clause 2907		
	Rate as per Item No.11.2 of Chapter 11	Sqm	

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
9.15	Providing PCC M20 Architectural Coping on the top of wing wall, return wall etc. complete as per drawing and MoRTH specification Clause 1313		
	Rate as per Item No.12.13 of Chapter 12	Rmt	

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 10 - TRAFFIC SIGNS, MARKINGS AND OTHER ROAD APPURTENANCES			
10.1	**Printing New Letters and Figures of any Shade**		
	Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and MoRTH Specification Clause 801		
	i) Hindi (Matras commas and the like not to be measured and paid for. Half letters shall be counted as half only)	Per Cm Height Per Letter	**0.60**
	ii) English and Roman	Per Cm Height Per Letter	**0.36**
10.2	**Traffic Signs**		
	A. Retro-reflectorised Traffic Signs		
	(1) Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRTH Specification Clause 801		
	(i) 900 mm equilateral triangle	Each	**5765.00**
	(ii) 600 mm equilateral triangle	Each	**3696.00**
	(iii) 600 mm circular	Each	**5050.00**
	(iv) 800 mm x 600 mm rectangular	Each	**7161.00**
	(v) 600 mm x 450 mm rectangular	Each	**4917.00**
	(vi) 600 mm x 600 mm square	Each	**5875.00**
	(vii) 900 mm side octagon	Each	**9218.00**
	(2) Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 1.5 mm thick supported on GI pipe 50 mm dia firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and MoRTH Specification Clause 801		
	(i) 900 mm equilateral triangle	Each	**5470.00**
	(ii) 600 mm equilateral triangle	Each	**3412.00**
	(iii) 600 mm circular	Each	**4759.00**

Item No.	Description				Unit	Rates (Rs)
1	2				3	4
			(iv)	800 mm x 600 mm rectangular	Each	**6848.00**
			(v)	600 mm x 450 mm rectangular	Each	**4621.00**
			(vi)	600 mm x 600 mm square	Each	**5576.00**
			(vii)	900 mm side octagon	Each	**8885.00**
		(3)	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 1.5 mm thick supported on RCC Post 100 mm x 100 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing Clause 801			
			(i)	900 mm equilateral triangle	Each	**5060.00**
			(ii)	600 mm equilateral triangle	Each	**2992.00**
			(iii)	600 mm circular	Each	**4350.00**
			(iv)	800 mm x 600 mm rectangular	Each	**6450.00**
			(v)	600 mm x 450 mm rectangular	Each	**4205.00**
			(vi)	600 mm x 600 mm square	Each	**5170.00**
			(vii)	900 mm side octagon	Each	**8505.00**
	B	Semi Reflective Traffic Signs				
		Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC:67 made of 1.5 mm thick MS Sheet duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade of required shade and colour supported and welded on 47mm x 47 mm x 12 SWG sheet tube firmly fixed to the ground by mean of properly designed foundations with M-15 grade cement concrete 450x450x600 mm, 600 mm below ground level as per approved drawing and Specifications.					
			(i)	900 mm equilateral triangle	Each	**1740.00**
			(ii)	600 mm equilateral triangle	Each	**1555.00**
			(iii)	600 mm circular	Each	**1675.00**
			(iv)	800 mm x 600 mm rectangular	Each	**1870.00**
			(v)	600 mm x 450 mm rectangular	Each	**1665.00**

Item No.	Description				Unit	Rates (Rs)
1	2				3	4
			(vi)	600 mm x 600 mm square	Each	**1750.00**
			(vii)	900 mm side octagon	Each	**2050.00**
	B-II.	Add extra for providing and fixing definition plate of size 600 x 400 mm including all letters with above specifications			Each	**220.00**
10.3	**Direction and Place Identification signs upto 0.9 sqm size board**					
	A.	**Retro-reflectorised Traffic Signs**				
		(i)		Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1. fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801. Direction and Place Identification signs upto 0.9 sqm size board	Sqm	**13272.00**
		(ii)		Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1. fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on 2 inch dia GI Pipe firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801,upto 0.9 sqm size board.	Sqm	**11954.00**
		(iii)		Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on RCC Post 100 mm x 100 mm firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 x 450 x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801,upto 0.9 sqm size board	Sqm	**11567.00**
	B.	**Semi-Reflective Traffic signs**				
		Direction and place indentification signs up to 0.9 sqm size board				

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
		Providing and erecting direction and place identifications of semi reflective sign boards as per IRC:67 made of 2 mm thick M.S. Sheet duly stove enameled paint in white colour in front and grey colour on back with red reflective border of 70 mm width and required message, letters, figures with reflective engineering grade tape of required shade and colour. Supported and welded on 47 mm x 47mm of 12 SWG Square tube of 3050 mm height duly strengthened by 25 mm x 5 mm M/s flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Specification upto 0.9 sqm size board		Sqm	**3140.00**
10.4	**Direction and Place Identification signs with size more than 0.9 sqm size board**				
	A.	**Retro-reflectorised Traffic Signs**			
		(i)	Providing and erecting direction and place identification retro-\reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801	Sqm	**13712.00**
		(ii)	Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on dia GI Pipe firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801	Sqm	**13261.00**
		(iii)	Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 801.3.1, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on RCC Posts 100 mm x 100 mm firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and MoRTH Specification Clause 801	Sqm	**11737.00**
	B.	**Semi-Reflective Traffic signs**			
		Direction and place identification signs more than 0.90 sqm sign board			

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Providing and erecting direction and place identification of semi reflective sign boards as per IRC-67 made of 2 mm thick M.S. Sheet duly stove enameled paint white colour in front and grey colour on back with reflective border of 70 mm width and required message, letters, figures with reflective tape of engineering grade of required shade and colour. Supported and welded on two nos. 47 mm x 47 mm of 12 SWG square tube of 3050 mm height duly strengthened by 25 mm x 5 mm MS flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Specification with size more than 0.9 sqm size board	Sqm	**3470.00**
10.5	**Painting Two Coats on New Concrete Surfaces**		
	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and MoRTH Specification Clause 801	Sqm	**82.00**
10.6	**Painting on Steel Surfaces**		
	Providing and applying two coats of ready mix paint including primer coat of approved brand on steel surface after through cleaning of surface to give an even shade as per drawing and MoRTH Specification Clause 801	Sqm	**82.00**
10.7	**Painting on Concrete/Steel Surfaces with Epoxy**		
	Painting two coats including prime coat with epoxy paint of approved brand on concrete/steel surfaces after through cleaning of surface to give an even shade as per drawing and MoRTH Specification Clause 801	Sqm	**138.00**
10.8	**Painting lines, Dashes, Arrows, etc. on Road in Two Coats on New Work**		
	Painting lines, dashes, arrows, etc. on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous/concrete surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per drawing and MoRTH Specification Clause 803	Sqm	**96.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
10.9	**Painting lines, Dashes, Arrows, etc. on Roads in Two Coats on Old Work**		
	Painting lines, dashes, arrows, etc. on roads in two coats on old work with ready mixed road marking paint conforming to IS:164 on bituminous/concrete surface, including cleaning the surface of all dirt, dust and other foreign matter, demarcation at site and traffic control as per drawing and MoRTH specification Clause 803	Sqm	**62.00**
10.10	**Kilometre Stone**		
	Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and MoRTH Specification Clause 801		
	i) 5th Kilometre Stone (precast)	Each	**2930.00**
	ii) Ordinary Kilometer Stone (Precast)	Each	**1738.00**
	iii) 200 m stone (precast)	Each	**407.00**
10.11	**Boundary Pillar**		
	Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and MoRTH Specification Clause 807	Each	**418.00**
10.12	**G.I Barbed Wire Fencing 1.2 m high**		
	Providing and fixing 1.2 m high GI barbed wire fencing with 1.8 m RCC posts 150 mm x 150 mm placed every 3 m centre-to-centre founded in M15 grade cement concrete, 0.6 m below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 9 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc. complete as per MoRTH Specification Clause 808.	Rmt	**412.00**
10.13	**G.I Barbed Wire Fencing 1.8 m high**		
	Providing and fixing 1.8 m high GI barbed wire fencing with 2.4 m RCC M15 grade 150 mm x 150 mm concrete post placed every 3 m centre-to-centre founded in M15 grade cement concrete, 0.6 m below ground level, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with 12 horizontal lines and 2 diagonals interwoven with horizontal wires, fixed with GI staples, turn buckles etc. complete as per MoRTH Specification Clause 808.	Rmt	**561.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
10.14	**Tubular Steel Railing on Medium Weight Steel Channel (ISMC series) 100 mm x 50 mm**		
	Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 m high above ground, 2 m centre-to-centre, complete as per approved drawings ad MoRTH Specification Clause 809	Rmt	**1864.00**
10.15	**Tubular Steel Railing on Precast RCC posts, 1.2 m high above Ground Level**		
	Providing, fencing and erecting 50 mm dia painted steel pipe railing in 3 rows on precast M-20 grade RCC vertical posts 175 mm x 175 mm x 1.8 m high (1.2 m above Gl) with 3 holes 50 mm dia for pipe, fixed 2 m centre-to-centre complete as per approved drawings and MoRTH Specification Clause 809.	Rmt	**1435.00**
10.16	**Traffic Cone**		
	Provision of red fluorescent with white reflective sleeve traffic cone made of Low Density Polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per BS:873 and as per MoRTH Specification Clause 813.4	Each	**532.00**
10.17	**Rumble Strips**		
	Provision of 15 nos. rumble strips covered with readymade cold bituminous mixture, 15-20 mm high at centre, 250 mm wide placed at 1 m centre-to-centre at approved locations to control speed, marked with white strips of road marking paint as per MoRTH Specification Clause 803	Sqm	**400.00**
10.18	Deleted		
10.19	**Road Markers/Road Stud with Lens Reflector**		
	Providing and fixing of road stud 100 x 100 mm die cast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling holes 30 mm upto a depth of 600 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS:873 (Part 4) 1973.as per MoRTH Specification Clause 804.	Each	**109.00**
10.20	Marking Centre Line and stop lines etc. on road as per IRC pattern with thermoplastic paint of approved quality and make with 8% glass beads laid on the road surface at temperature 160" C with a special applicator machine complete with a special applicator machine complete with labour material and traffic diversion arrangements.	Sqm	**500.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
10.21	Marking Centre Line and stop lines etc. on road as per IRC pattern with thermoplastic paint of approved quality and make without glass beads laid on the road surface at temperature 160" C with a special applicator machine complete with a special applicator machine complete with labour material and traffic diversion arrangements.	Sqm	**470.00**
10.22	Providing and fixing Mukhya Mantri Sadak Yojana/ Mahatma Gandhi Rajya Sadak Yojana informatory sign board with logo for roads funded by State road fund having M.S. Definition plate of 1.60 mm thickness frame to steel hollow dsection of 75mm x 75mm, 2.5m long stove enamelled paint with hold fast including paint logo as per approved design and colours. The logo shall be made out of 1.6mm thick circular plate duly framed with MS angle 25x25x5 mm on back and fix on 1200mm x 150mm rectangular steel base plate 1.6mm thick, the base of circular shall be plain at the junction of base plate. The size of definition plate shall be 1500x600mm and embedding the posts by M-15 cement concrete block 45 cm x 45 cm x 60 cm, 60 cm below ground level including lettering / writing and painting etc. complete in all respect.as per MoRTH Specification Clause 801.	Each	**9069.00**
10.23	Providing and fixing PVC Bump Speed Breakers size 350 mm x 250 mm x 50 mm fitted with key hooks complete with labour material and traffic diversion arrangements.	Rmt	**2593.00**
10.24	Providing and laying rounded hump type speed breakers for crossing speed 25 km/h as per IRC design including providing and applying bitumen emulsion tack coat, making speed breaker in designed profile with bituminous macadam, providing seal coat type B for sealing the voids and marking chequered pattern with thermoplastic paint complete as per IRC : 99-1988		
	(i) 3.70 meter wide and 10 cm high for general traffic	Rmt	**2788.00**
	(ii) 5.0 meter wide and 10 cm high for heavy truck and bus traffic	Rmt	**3555.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
10.25	Providing and Erecting typical Citizen's information Board as per approved drawing & specification made of two MS sheet of 1.6 mm thick each of size 900mm x 750mm stiffend by angle iron 25mmx25mm x 3mm all around the plate & plates fixed on frame of 75mm dia pipe of 12 SWG sheet (vertical post 3050 mm with angle holdfasts and horizontal member 900mm) to be joined by embedded in cement concrete M-15 grade of block of 600mmx 600mm x 750 mm size below ground level as per enclosed drawings & as directed by Engineering incharge. All MS will be stove anmeled on both side lettering. Figuring and border will be with ready mixed synthethic enamel paint of superior quality in required shade and colour etc complete in all respect. All sections of framed post and steel tube will be painted with primer and two coat of epoxy paint as per drawing and as per Specification.	Each	**9847.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 11 - FOUNDATION			
11.1	**Excavation for Structures**		
	Earthwork in excavation for structures as per drawing and MoRTH specifications Clause 304.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.		
	I. Ordinary soil		
	(i) Upto 3 m depth	Cum	**178.00**
	(ii) 3 m to 6 m depth	Cum	**212.00**
	II. Ordinary rock (not requiring blasting)		
	Upto 3 m depth	Cum	**224.00**
	III. Hard rock (requiring blasting)	Cum	**398.00**
	IV. Hard rock (blasting prohibited)	Cum	**400.00**
	V. Marshy soil	Cum	**334.00**
11.2	Fillling in foundation trenches as per drawing and MoRTH specification Clause 304.3.7		
	I. Sand filling	Cum	**946.00**
	II. Earth filling (For marshy soil)	Cum	**118.00**
11.3	Filling annular space around footing in rock as per MoRTH specification Clause 2104.3		
	P.C.C grade M 15		
	Nominal mix 1:2.5:5	Cum	**4088.00**
11.4	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and MoRTH specifications Clause 1702, 1703, 2102 & 2104		
	I. P.C.C grade M 10		
	(i) Nominal mix 1:3:6	Cum	**3091.00**
	(ii) Nominal mix 1:3.6 (Hand mixing)	Cum	**3030.00**
	II. P.C.C grade M 15		
	(i) Nominal mix (1:2.5:5)	Cum	**3334.00**
	(ii) Nominal mix 1:2.5:5 (Hand mixing)	Cum	**3270.00**

Item No.	Description			Unit	Rates (Rs)
1	2			3	4
	III.	P.C.C. grade M 20			
		(i)	Nominal mix (1:2:4)	Cum	**3515.00**
		(ii)	Nominal mix 1:2:4 (Hand mixed)	Cum	**3479.00**
	IV.	R.C.C grade M 20		Cum	**3577.00**
	V.	R.C.C. grade M 25		Cum	**3940.00**
11.5	Brick masonry work in cement mortar in foundation complete excluding pointing and plastering as per drawing and MoRTH specifications Clauses 1300, 2102 & 2104				
	I.	Brick masonry in 1:3 cement mortar		Cum	**4293.00**
	II.	Brick masonry in 1:4 cement mortar		Cum	**3985.00**
	III.	Brick masonry in cement-lime-mortar (1:0.5:4.5)		Cum	**4315.00**
11.6	Stone masonry work in cement mortar in foundation complete as per drawing and MoRTH specifications Clauses 1402, 1405, 2102 & 2104.				
	I.	Coursed rubble masonry (1st sort)			
		(i)	In 1:3 cement mortar	Cum	**4062.00**
		(ii)	In 1:4 cement mortar	Cum	**3674.00**
		(iii)	In cement-lime-sand mortar (1:0.5:4.5)	Cum	**4074.00**
	II.	Coursed rubble masonry (2nd sort)			
		(i)	In 1:3 cement mortar	Cum	**3601.00**
		(ii)	In 1:4 cement mortar	Cum	**2764.00**
		(iii)	In cement-lime-mortar (1:0.5:4.5)	Cum	**3189.00**
	III.	Random Rubble Masonry			
		(i)	In 1:3 cement mortar	Cum	**3420.00**
		(ii)	In 1:4 cement mortar	Cum	**2994.00**
		(iii)	In 1:6 cement mortar	Cum	**2480.00**
		(iv)	In cement lime mortar (1:0.5:4.5)	Cum	**3635.00**
11.7	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and MoRTH specifications Clauses 1009,1600 and 2102			Tonne	**92000.00**
11.8	Supplying, fitting and placingTMT bar reinforcement in foundation complete as per drawings and MoRTH specifications Clauses 1009,1600 and 2102			Tonne	**93000.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
11.9	Supplying, fitting and placing MS bar reinforcement in foundation complete as per drawings and MoRTH specifications Clauses 1009,1600 and 2102	Tonne	**91000.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 12 - SUBSTRUCTURE			
12.1	Brick masonry work in cement mortar in substructure complete excepting pointing and plastering, as per drawing and MoRTH specification Clauses 1300 & 2200		
	I. In 1:3 cement mortar	Cum	**4603.00**
	II. In 1:4 Cement mortar	Cum	**4350.00**
	III. In 1:5 cement mortar	Cum	**3710.00**
	IV. In cement lime mortar (1:0.5:4.5)	Cum	**4679.00**
12.2	Pointing with cement mortar (1:3) on Stone work as per drawing and MoRTH specification Clauses 1406 and 2200	Sqm	**85.00**
12.2 A	Plastering with cement mortar (1:4), 20 mm thick on Stone work.	Sqm	**150.00**
12.3	Plastering with cement mortar (1:4), 15 mm thick on brickwork in substructure as per MoRTH specification Clauses 1312.4 & 2200	Sqm	**145.00**
12.4	Stone masonry in cement mortar for substructure complete as per drawing & MoRTH specification Clauses 1402, 1405 & 2200		
	I. Coursed rubble masonry (1st sort)		
	(i) In 1:3 cement mortar	Cum	**4195.00**
	(ii) In 1:4 cement mortar	Cum	**3985.00**
	(iii) In 1:5 cement mortar	Cum	**3509.00**
	(iv) In cement lime mortar (1:0.5:4.5)	Cum	**4389.00**
	II. Coursed Rubble masonry (2nd sort)		
	(i) In 1:3 cement mortar	Cum	**3776.00**
	(ii) In 1:4 cement mortar	Cum	**3550.00**
	(iii) In 1:5 cement mortar	Cum	**3425.00**
	(iv) In cement lime mortar (1:0.5:4.5)	Cum	**3985.00**
	III. Random rubble masonry		
	(i) In 1:3 cement mortar	Cum	**3589.00**
	(ii) In 1:4 cement mortar	Cum	**3267.00**
	(iii) In 1:5 cement mortar	Cum	**3036.00**
	(iv) In cement lime mortar (1:0.5:4.5)	Cum	**3752.00**
12.5	Plain/reinforced cement concrete in substructure complete as per drawings and MoRTH specification Clauses 1700 and 2200		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	For height upto 5 m		
	I. P.C.C grade M 15		
	(i) Nominal mix (1:2.5:5)	Cum	**3631.00**
	(ii) Nominal mix 1:2.5:5 (Hand mixing)	Cum	**3585.00**
	II. P.C.C. grade M 20		
	(i) Nominal mix (1:2:4)	Cum	**4004.00**
	(ii) Nominal mix 1:2:4 (Hand mixed)	Cum	**3959.00**
	III. R.C.C grade M 20	Cum	**4175.00**
	IV. R.C.C. grade M 25	Cum	**4470.00**
12.6	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructrue complete as per drawings and MoRTH specification Clauses 1009,1600 & 2202	Tonne	**92500.00**
12.7	Supplying, fitting and placing TMT bar reinforcement (Fe 415) in substructrue complete as per drawings and MoRTH specification Clauses 1009,1600 & 2202	Tonne	**93500.00**
12.8	Supplying, fitting and placing with MS bar reinforcement (Fe 415) in substructrue complete as per drawings and MoRTH specification Clauses 1009,1600 & 2202	Tonne	**91300.00**
12.9	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and MoRTH specification Clauses 1409, 2204.4, 2206.4 & 2706	Each.	**74.00**
12.10	Backfilling behind abutment, wing wall and return wall complete as per drawings & MoRTH specification Clause 304.3.7 & 2204.6		
	I) Granular material	Cum	**495.00**
	II) Sandy material	Cum	**1155.00**
12.11	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and MoRTH specification Clause 2204.6 & 2504.2.2	Cum	**689.00**
12.12	Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC:83 (Part-II) Section IX complete, including all accessories as per drawings and MoRTH specification Clause 2005	Cucm	**0.94**
12.13	Providing PCC M-20 architectural coping on the top of wing wall, return wall etc. complete as per drawing and MoRTH specification Clauses 1313, 1411 and 2206.6		
	(A) 150 mm thick	Sqm	**728.00**

Item No.	Description		Unit	Rates (Rs)
1	2		3	4
	(B)	75 mm thick	Sqm	**370.00**
	(C)	50 mm thick	Sqm	**246.00**
12.14	Providing pressure relief pipes 100 mm dia in bottom slab of box cell on a filter media base of 500 mm x 500 mm as per drawing and MoRTH specification Clause 2705		Each.	**321.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 13 - SUPERSTRUCTURE			
13.1	Providing and laying reinforced cement concrete in superstructure as per drawing and MoRTH specifications Clauses 1700, 2302 and 2304		
	I. R.C.C grade M 20		
	(i) For nominal mix 1:2:4	Cum	**4460.00**
	(ii) For nominal mix 1:2:4 (Hand mixed)	Cum	**4470.00**
	(iii) For design mix RCC M 20	Cum	**4444.00**
	II. R.C.C M 25	Cum	**4794.00**
	III. R.C.C. Grade M 30	Cum	**5185.00**
13.2	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and MoRTH specifications Clauses 1009,1600 and 2302	Tonne	**93300.00**
13.3	Supplying, fitting, and placing TMT bar reinforcement in superstructure complete as per drawing and MoRTH specifications Clauses 1009,1600 and 2302	Tonne	**94500.00**
13.4	Supplying, fitting, and placing MS bar reinforcement in superstructure complete as per drawing and MoRTH specifications Clauses 1009,1600 and 2302	Tonne	**92000.00**
13.5	Providing and laying cement concrete wearing course M 30 grade including reinforcement complete as per drawing and MoRTH specifications Clauses 1700 and 2702.2	Cum	**9955.00**
13.6	Construction of R.C.C. railing of M 25 grade in cast-in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical railing post not to exceed 1 in 500, centre-to-centre spacing between vertical posts not to exceed 2000 mm as per drawing and MoRTH specifications Clauses 1700, 1500 and 2703.3	Rmt	**2269.00**
13.7	Providing fitting and fixing mild steel railing complete as per drawing and MoRTH specifications Clause 2703.2	Rmt	**2700.00**
13.8	Providing and fixing in position pipe railing consisting of IS Rolled steel joist posts designation IS MB 100 (100x75) at 2.5 m interval and three rows of 50 mm dia steel pipes (light) including fixing in position on bridge deck complete as per drawing and MoRTH specifications Clause 2703.2	Rmt	**1584.00**
13.9	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and MoRTH specifications Clauses 1300, 1500	Cum	**4603.00**
13.10	Drainage spouts complete as per drawing and MoRTH specifications Clause 2705	Each.	**967.00**
13.11	P.C.C. M 15 ordinary grade (1:2.5:5) levelling course below approach slab complete as per drawing and MoRTH specifications Clauses 1700 and 2704		

Item No.	Description		Unit	Rates (Rs)
1	2		3	4
	(i)	Nominal mix (1:2.5:5)	Cum	**3566.00**
	(ii)	Nominal mix 1:2.5:5 (Hand mixing)	Cum	**3610.00**
13.12	Reinforced Cement Concrete M 25 grade approach slab including reinforcement and formwork complete as per drawing and MoRTH specifications Clauses 1700 and 2704		Cum	**8585.00**
13.13	Providing and laying of an elastomeric slab seal expansion joint complete as per approved drawing and approved specifications to be installed by manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installlation and as per MoRTH specifications Clause 2605 & 2610		Rmt	**17495.00**
13.14	Providing and laying of compression seal joint consisting of steel armoured nosing at two edges of the joint gap suitably anchored to the deck concrete and a preformed chloroprene elastomer or closed cell foam joint sealer compressed and formed into the joint gap with special adhesive binder as per drawing, and MoRTH specifications Clause 2609 & 2610		Rmt	**3240.00**
13.15	Providing and laying a buried expansion joint, covered with 12 mm thick, 200 mm wide galvanised weldable structrual steel plate as per IS:2062, placed symmetrical to centre line of the joint, resting freely over the top surface of the deck concrete, welding of 8 mm dia, 100 mm long galvanised nails spaced 300 mm c/c along the centre line of the plate, as per specifications.		Rmt	**1567.00**
13.16	Filler Joint			
	I)	Deleted		
	II)	Providing and fixing 20 mm thick compressible fibre board in expansion joint complete as per drawing and MoRTH specifications Clause 2604	Rmt Per Cm Depth	**11.50**
	III)	Providing and fixing in position 20 mm thick premoulded joint filler in expansion joint for fixed ends of simply supported spans, covered with sealant complete as per drawing and MoRTH specifications Clause 2604	Rmt Per Cm Depth	**12.70**
	IV)	Providing and fillling joint sealing compound as per drawings and MoRTH specifications with coarse sand and 6 per cent bitumen by weight Clause 2604	Rmt	**25.00**
13.17	Stone masonry in cement mortar 1:3 for parapet complete as per drawing and MoRTH specifications Clauses 1400			
	I.	Random rubble masonry	Cum	**3589.00**
	II.	Coursed rubble masonry (1st sort)	Cum	**4185.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
13.18	Pointing with cement mortar (1:3) on brickwork in parapet as per MoRTH specifications Clauses 1312.3	Sqm	**86.00**
13.19	Plastering with cement mortar (1:3) 15 mm thick on brickwork in parapet as per MoRTH specifications Clauses 1312.4	Sqm	**145.00**
13.20	Providing and laying parapet with PCC M 15 as per drawing & MoRTH specifications Clauses 1700 & 2300		
	I. Nominal mix 1:2.5:5 (Hand mixing)	Cum	**3975.00**
	II. Nominal mix (1:2.5:5)	Cum	**4028.00**
13.21	Providing bituminous wearing coat comprising of 20 mm thick premix carpet with 5 mm thick seal coat Type B for culverts as per drawing and MoRTH specifications Clauses 2702.1 and 500		
	i. Rate for wearing coat as per item No. 5.9 of Chapter 5	Sqm	
	ii. Rate for seal coat Type B as per item No. 5.12 of Chapter 5	Sqm	
13.22	Providing bituminous wearing coat comprising of 50 mm thick bituminous macadam overlaid by 20 mm thick premix carpet with 5 mm thick seal coat Type B as per drawing and MoRTH specifications Clauses 2702.1 and 500		
	i. Rate for BM layer may be analysed as per item No 5.3 of Chapter 5	Cum	
	ii. Rate of 20 mm premix carpet wearing course as per item No.5.9 of Chapter 5	Sqm	
	iii. Rate of seal coat Type B as per item No. 5.12 of Chapter 5	Sqm	
13.23	Brickwork in arches in cement mortar 1:4 complete including centering and shuttering excluding pointing and plastering as per drawing and MoRTH specifications Clauses 1300 & 1500	Cum	**9651.00**
13.24	Coursed rubble stone masonry arch (Ist sort) in cement mortar (1:4) complete including centering etc. complete as per drawing and MoRTH specifications Clauses 1405.1.4 and 1500	Cum	**9363.00**
13.25	Providing & Laying reinforced cement concrete arch complete including centering and shuttering excluding reinforcement as per drawings and MoRTH specifications Clauses 1700, 1500 and 2300		
	I. RCC grade M20 (1:2.4) nominal mix	Cum	**6405.00**
	II. RCC Grade M 25	Cum	**6853.00**
13.26	Providing steel R.S.Js/built-up steel sections including cutting, welding/rivetting, hoisting, fixing in position for composite girders with shear connectors complete with painting as per drawing and MoRTH specifications Clause 1900		
	A) Steel section	Quintal	**6659.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
Chapter 14 - PROTECTION WORKS			
14.1	Providing and laying boulder apron for bed protection with stone boulders of minimum size and weight as per Clause 5.3.7.2 of IRC:89, no fragment weighing less than 25 kg laid dry complete as per drawing and MoRTH specifications Clause 2503.2	Cum	**800.00**
14.2	Providing and laying of boulder apron laid in wire crates with 4 mm dia GI wire conforming to IS:280 and IS:4826 in 100 mm x 100 mm mesh (woven diagonally) including 10 per cent extra for laps and joints laid with stone boulders weighing not less than 25 kg each as per drawing and MoRTH specifications Clause 2503.3	Cum	**1705.00**
14.3	Providing and laying of apron with cement concrete blocks of size as per Clause 5.3.7.2 of IRC:89, cast-in-situ and made with nominal mix of M-15 grade cement concrete as per drawing and MoRTH specifications Clause 1700 & 2505	Cum	**3700.00**
14.4	Single bamboo palasiding / walling of whole 2nd class bamboo (Jati or Bethua) 75mm dia and closely packed & driven including fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and Clause 6 of IRC:89		
	A) Driven at least 900 mm below ground and 1200 mm above ground	Rmt	**684.00**
	B) Driven at least 900 mm below ground and 900 mm above ground on average	Rmt	**592.00**
14.5	Providing and laying pitching on slopes laid over prepared filter media as per drawing and MoRTH specifications Clause 2504.2.1		
	I. Stone/Boulder	Cum	**800.00**
	II. Cement concrete blocks of size as per Table 1700.6 cast in cement concrete of grade M 15		
	a) Concrete grade M 15	Cum	**3330.00**
	III. Brick pitchng set in cement mortar 1:4	Cum	**3965.00**
14.6	Providing and laying filter material underneath pitching in slopes complete as per drawing and MoRTH specifications Clause 2504.2.2	Cum	**734.00**
14.7	Providing and laying flooring laid over cement concrete bedding complete as per drawing and MoRTH specification Clause 2505		
	I. Rubble stone laid in cement mortar 1:3	Cum	**3260.00**
	II. Cement conrete blocks grade M 15	Cum	**3663.00**
	III. Brick on edge laid in cement mortar (1:3)	Cum	**4723.00**
14.8	Providing and laying of dry rubble flooring complete as per drawings and MoRTH specifications Clause 2506	Cum	**1530.00**

Item No.	Description		Unit	Rates (Rs)
1	2		3	4
14.9	Providing and laying curtain walls complete as per drawing and MoRTH specification Clause 2507			
	I.	Brick masonry in cement mortar (1:4)	Cum	**4173.00**
	II.	Coursed rubble masonary (2nd sort) in cement mortar (1:4)	Cum	**3830.00**
	III.	Cement concrete grade M 10	Cum	**3832.00**
14.10	Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less then 25 kg beyond curtain wall		Cum	**814.00**
14.11	Construction of toe walls for protection of slopes as per drawing and MoRTH specifications Clause 2507.1			
	I.	Random rubble masonry in case of stone pitching laid with cement mortar (1:5)	Cum	**3352.00**
	II.	Brick masonry in cement mortar 1:4 in case of brick pitching	Cum	**4092.00**
	III.	Cement concrete grade M 10 in case of concrete block pitching	Cum	**3832.00**

Item No.			Description	Unit	Rates (Rs)
1			2	3	4
Chapter 15 - MAINTENANCE OF ROADS					
15.1	**Restoration of Rain Cuts**				
	i)	Restoration of rain cuts with soil, moorum gravel or a mixture of these, clearing the loose soil, benching for 300mm width laying fresh material in layers not exceeding 250 mm and compaction with plate compactor or power rammer to restore the original alignment, level and slopes as per drawings and MoRTH specifications Clause 3002			
		A.	Manual Means	Cum	**180.00**
		B.	Mechanical Means	Cum	**118.00**
15.2	1.	**Maintenance of Earthen shoulder (filling with fresh selected soil)**			
		Making up loss of material/irregularities on shoulders to the design level by adding fresh approved selected soil and compacting it with appropriate equipment at OMC upto a lead of 1000 m as per MoRTH specification Clause 3003		Sqm	**23.00**
	2.	**Maintenance of Earhen shoulder (stripping of excess soil)**			
		Stripping excess soil from the shoulder surface to achieve the approved level and compacting with plate compactor at OMC as per drawings and MoRTH Specification Clause 3003		Sqm	**9.00**
15.3	**Maintenace of bituminous surface road**				
	i.	Repair to pot holes by removal of failed material, trimming the sides to vertical and levelling the bottom, cleaning the same with compressed air or any appropriate method filled with 75mm B.M, applying bitumen emulsion prime coat at the bottom and bitumen emulsion tack coat on sides and on bottom as per MoRTH specifications Clauses 3004.2		Cum	**6204.00**
				MT	**2819.00**
	ii.	Patch repair on already filled pot holes with 75 mm BM with 20 mm premix carpet and seal coat Type B as per drawings and MoRTH specification Clause 3004.2		Sqm	**185.00**
	iii.	Repair to pot holes and removal of loose material, trimming of sides, cleaning of surface by providing tack coat, 20 mm thick pre-mix carpet and seal coat type B as per MoRTH specification Clause 3004.2		Sqm	**205.00**
	iv.	Repair to pot holes and removal of loose material, trimming of sides, cleaning of surface by providing tack coat with bitumen emulsion, 20 mm thick pre-mix carpet using catonic bitumen emulsion and seal coat type B with bitumen emulsion as per MoRTH specification Clause 3004.2		Sqm	**209.00**
	vi.	Repair to pot holes and removal of loose material, trimming of sides, cleaning of surface by providing tack coat, 13mm thick pre-mix carpet and seal coat type B as per MoRTH specification Clause 3004.2		Sqm	**162.00**

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
15.4	**Maintenance of Gravel Road**		
	Maintenance of gravel road including making up the loss of profile, rectifying corrugated surface, filling up of depressions, pot holes and erosion gullies by adding fresh material and compacting it with appropriate equipment or to strip excess of material from the road surface as per drawings and MoRTH specification Clause 401	Sqm	**128.00**
15.5	**Maintenance of WBM Road**		
	Maintenance of WBM road including filling up of pot holes, ruts and rectifying corrugated surface, damaged edges and ravelling as per MoRTH specification Clause 404	Sqm	**138.00**
15.6	**Maintenance of Drains**		
	The maintenance of drains include erosion, repair, clearing, cleaning, reshaping, regrading, deepening of side drains as well as catch water drains as per MoRTH specification Clause 201 & 2800.	m	**1.65**
15.7	**(I) Maintenance of Culverts**		
	Maintenance of Hume pipe Culvert by way of Clearing, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and MoRTH specification Clause 201 & 2800	One Each. Hume Pipe	**1156.00**
	(II) **Maintenance of Culverts Slab type**		
	Maintenance of Slab type Culverts by way of clearing, Cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and MoRTH specification Clasue 201 & 2800	Culvert	**2195.00**
15.8	**Maintenance of Causeway**		
	Maintenance of Causeway by way of minor Surface repairs, replacing Guide Posts, repair of flood gauges, removal of debris, providing boulders and protection work and painting as per MoRTH specification Clause 201 & 2800	Rmt	**60.00**
15.9	**Maintenance of Road Signs**		
	Maintenance of road signs by way of cleaning and repainting of mandatory / requlatory / cautionary / informatory and place identifications sign board as perdrawings and MoRTH specification Clause 800 & 3000	Km	**1172.00**
15.10	**Maintenance of steel and RCC Railing**		
	(i) Repair of steel railing to bring it to original shape cleaning and repainting as per drawing and MoRTH specification Clause 1900		
	Steel Railing	Rmt	**286.00**
	(ii) Repair of RCC railing to bring it to the original shape, cleaning and repainting as per drawings and MoRTH specification Clause 2800		
	RCC Railing	Rmt	**1664.00**
15.11	Maintenance of 200 metre and km stones		

Item No.	Description	Unit	Rates (Rs)
1	2	3	4
	Maintenance of 200 metre km stone by way of refiting of tilted stones repairing with cement mortar, cleaning, repairing and lettering on 200 metre km stone and 5th km stone as per drawing and MoRTH specification Clause 1900 and 2800		
	(i) Painting two coats with synthetic enamel paint	Km	**175.00**
	(ii) Printing letters and figures of any shade with synthtic enamel paint of any approved colour to give an even shade	Km	**747.00**
15.12	Cutting of branches of trees shrubs and trimming of grass and weeds		
	(i) Cutting of branches of trees and shrubs from the road way or with in R.O.W including disposal of wood and leaves to suitable location as per MoRTH specification Clause 201	One Tree	**74.00**
	(ii) Cutting of shrubs from the road way or with in R.O.W and disposal of shrubs to suitable locations as per MoRTH specifications Clause 201	Each	**3.95**
	(iii) Trimming of grass and weeds from the shoulders/berms and disposing off the same to suitable locations as per MoRTH specifications Clause 201	Sqm	**1.00**
15.13	White washing of parapet walls of CD work and tree truncks		
	White washing two coats on parapet walls and tree trunks including preparation of surface by cleaning scraping etc. as per MoRTH specifications Clause 800	Sqm	**12.00**
15.14	**Periodical Renewal to existing bituminous surface**		
	1 Open graded Premix carpet 20 mm thick		
	(i) Tack coat		
	Rates as per item 5.2 (ii)	Sqm	
	(ii) Pre-mix carpet using bituminous (penetration grade modified bitumen) binder		
	Rates as per item No. 5.9	Sqm	
	OR		
	(iii) Premix carpet using bitumen Emulsion		
	Rates as per item No. 5.10	Sqm	
	(iv) Seal coat Type A, B or C		
	Rates as per item No. 5.11	Sqm	
	2 Surface dressing single coat/first coat or 2nd coat		
	Rates as per item No. 5.6	Sqm	

Item No.		Description	Unit	Rates (Rs)
1		2	3	4
15.15		Maintenance of Road Furnitures		
		Painting two coats with superior grade synthetic enamel paint of approved quality to give an even shade including writing lettering and figures with synthetic enamel paint as per IRC specifications.		
	(i)	5th Kilometre Stone	Each	**216.00**
	(ii)	Ordinary Kilometre Stone	Each	**170.00**
	(iii)	Hectometer and Boundry Stone	Sqm	**41.00**
	(iv)	Guide Stone, Guard Stone, Tree Guards and Posts	Each	**170.00**
	(v)	Water Gauges	Each	**170.00**
	(vi)	Number of Bridge & Culverts	Each	**70.00**
	(vii)	Traffic Sign Boards (cautionery, mandatory & informatory)	Each	**147.00**
	(viii)	Direction & Place Identification sign boards including painting of posts.	Sqm	**258.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
Chapter 16 - Additional Items			
16.1	Removal of blown sand including taking out and disposal of excavated material with lead up to 50Mtr. and lift up to 1.5 Mtr disposed soil to be levelled and neatly dressed.	P.Cum	**12.00**
16.2	Dagbelling.		
16.2.1	100 mm x 100mm size	P.100 Mtr	**69.00**
16.2.2	200 mm x 100 mm size	P.100 Mtr	**88.00**
16.3	Dressing of berms including digging of earth upto 10 cm depth.	P.Cum.	**15.00**
16.4	Labour charges for digging out of sludge humps on black topped surface including removal and disposing of the dismantled material aside up to 50 M lead.	P.Sqm	**33.00**
16.5	Cutting of black top surface upto 30 mm depth for fixing of kerb / dand stone / medians including cleaning of surface laying bed mortar and removal of dismantled material with all lead and traffic diversion arrangements etc.	P.Sqm	**24.00**
16.6	Scarifying old bituminous road by making 50x50mm furrows criss-cross at 1.0 metre intervals at 45 degree to the center line of the carriageway	P.Sqm	**2.00**
16.7	Cutting black top surface upto 1.5 M depth including all layers of crust for laying pipe line etc. and making good to original condition (excluding cost of bitumen)	P.Sqm	**605.00**
16.8	Supplying, filling and stitching of empty cement bags either of plastic or jute with earth available at site, of weight not less than 40 Kg., including excavation etc. complete.	P. Bag	**9.90**
16.9	Labour charges for making cofferdam by loading, transporting earth-filled cement bags, dropping at required location in water including transportation by boat (if required) complete, excluding cost of empty cement bags.		
16.9.1	with lead upto 50 Mtr.	P. Bag	**2.45**
16.9.2	with lead 50 mtr to 100 Mtr.	P. Bag	**4.90**
16.9.3	with lead 100 mtr to 150 Mtr.	P. Bag	**5.00**
16.9.4	with lead 150 mtr to 200 Mtr.	P. Bag	**7.00**
16.10	Compacting soil at optimum moisture content with power road roller including watering soil at O.M.C., charges of T & P, cost of water and finishing of formation to required camber and grade etc. complete in layers not exceeding 15 cm. compacted thickness of :		
16.10.1	95% proctor density.	P. Cum	**15.90**
16.10.2	97% proctor density.	P. Cum	**15.90**
16.10.3	100% proctor density.	P. Cum	**17.00**
16.11	Supply of graded broken hard stone aggregates free from Katcha stuff, deleterious and oreganic matter, as per IRC/MoRTH Specifications, including stacking as per the Standard Specifications with an average lead of 20 Kms.		
16.11.1	63mm to 45mm Crusher broken	P. Cum	**620.00**
16.11.2	53mm to 22.4mm Crusher broken	P. Cum	**651.00**
16.11.3	13.2mm/11.2mm Crusher broken	P. Cum	**816.00**
16.11.4	6.7mm Crusher broken	P. Cum	**708.00**
16.11.5	13.2mm Crusher-broken screening (IRC Grade 'A')	P. Cum	**519.00**
16.11.6	11.2mm Crusher broken Screening (IRC Grade'B')	P. Cum	**462.00**
16.12	Collection of binding material/mooram for W.B.M. course (P.I. 4 to 6), including stacking as per Standard Specifications	P. Cum	**80.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.13	Collection of quarry rubbish (P.I. less than 6), grading as per MoRTH specification's Table 400-1, including stacking as per the Standard Specifications with an average lead of 20 Kms.	P. Cum	**80.00**
16.14	Providing and laying dense graded bituminous macadam with 100-120 TPH batch type HMP producing an average output of 75 tones per hour using crushed aggregates of specified grading, premixed with bituminous binder minimum @ 4.0 & 4.5 percent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH Specifications Clause 505 complete in all respects. Bitumen (VG-30)		
16.14.1	Grading - I (37.50mm (Nominal Size))	P. Cum	**6786.00**
		P. MT	**2940.00**
16.14.2	Grading - II (26.50 mm (Nominal Size))	P. Cum	**6852.00**
		P. MT	**2969.00**
16.15	Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder minimum @ 5.2 & 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH Specifications Clause 507 complete in all respects		
16.15.1	for Grading-I(19 mm nominal size) Bitumen (VG-10)	P.Cum	**7781.00**
		P. MT	**3302.00**
16.15.2	for Grading-I (19 mm nominal size) Bitumen (VG-30)	P.Cum	**7956.00**
		P. MT	**3377.00**
16.15.3	for Grading-I (19 mm nominal size) Bitumen CRMB 60	P.Cum	**8831.00**
		P. MT	**3725.00**
16.15.4	for Grading-II(13 mm nominal size) Bitumen (VG-10)	P.Cum	**7745.00**
		P. MT	**3290.00**
16.15.5	for Grading-II(13 mm nominal size) Bitumen (VG-30)	P.Cum	**7925.00**
		P. MT	**3360.00**
16.15.6	for Grading-II(13 mm nominal size) Bitumen CRMB 60	P.Cum	**8800.00**
		P. MT	**3733.00**
16.15 A	Add extra for adding Shreaded Plastic Waste as per Guidelines envisaged in IRC:SP:98-2013 over Item of Bituminous Concrete @ 8% of the quantity of Bitumen by weight including mixing of aggregate and plastic waste in Hot Mix Plant (The Bitumen content will be as per respective Clause of MoRTH Specifications)	P.Cum	**314.00**
		P. MT	**133.00**
16.16	Labour charges for patching W.B.M. using crushed / broken aggregates including preparation of pot hole scarifying & reshaping to the required grade and camber as per the standard specifications, spreading of material consolidation with mechanical drop hammer of 11.40 kg hand rammer or 8-10 tone power roller, spreading and consolidation of binding material including cost of fuel & lubricants and hire charges of T&P.	P. Cum.	**232.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.17	Providing and laying 25 mm thick Mastic Asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing anti-skid surface with bitumen precoated fine grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005 cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces is not less than 100 C protruding 1 mm to 4 mm over mastic surface, all complete as per Clause 516.	P.Sqm.	**490.00**
16.18	Providing & laying penetration macadam patching upto 5 cm. depth (semi grout) with 0.60 Cum. Of coarse aggregate (Crusher broken) & 0.15 Cum of key aggregate (as per MoRTH specification) & spreading of binder, cleaning area of patch, pot holes, cut of regular shape with vertical side, removing all loose & disintegrated material, spreading & compacting of aggregate with 8-10 tonne power road roller including cost of aggregate, fuel, lubrication, hire charges machinery, T & P, including cost of bitumen with application of tack coat.	P.Sqm.	**280.00**
16.19	Labour charges for premix patch work using mixed material from the hot mix plant, including cleaning of patch/pot holes area, cutting it to regular shape vertical edges, removing all loose and disintigrated material, application of tack coat as per specifications laying of patching material and compacting with power roller including cost of fuel, hire charges of T & P etc. complete.		
16.19.1	Using Straight run bitumen	P.Sqm.	**22.50**
16.19.2	Using cationic emulsion.	P.Sqm.	**20.00**
16.20	Supply at plant site Close-graded premix surfacing material for patch work with specified graded crushed aggregate as per Table No. 500-19 of MoRTH specification clause 508.2.4 premixed with (VG-10) bitumen binder 5% in Hot Mix Plant (30-40tonne) including cost of aggregate, binder and machines with fuel etc.	P.MT.	**3050.00**
16.21	Carriage of mix material from Plant Site to Work Site for patch repairing work including staying of tipper at site up to completion of patch repair work upto 1 km.	P.MT.	**187.00**
16.22	Extra rate for carriage of mixed mateiral beyound 1st Km.		
16.22.1	2nd Km to 10th Km	P.MT./Km	**3.50**
16.22.2	11th Km to 20th Km	P.MT./Km	**3.40**
16.22.3	Beyond 20th Km	P.MT./Km	**2.90**
16.23	Providing & laying surface dressing patching using stone chipping 0.10 cum per 10 sqm and bitumen 10 kg per 10 sqm including heating of binder, cleaning the area of patch, potholes cuts to regular shape with vertical sides, removing all loose & disintegrated material, application of binder, covering the same with stone chippings and compacting with 8-10 tonne power road roller including cost of fuel, binder, hire charges of T&P etc.	P.Sqm.	**69.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.24	Providing and laying Built up spray grout (BUSG) patching 75mm thick in two layers (Each layer consisting of spreading aggreate - crusher broken @ 0.50 cum per 10 sqm area as per MoRTH specification, laying first layer after application of tack coat @ 3.75 kg per 10 sqm including cost of tack coat, rolling with 8-10 tonne power road roller, application of first spray of binder @ 15 kg per 10 sqm, spreading & rolling of second layer of coarse aggregate with 8-10 tonne power road roller, application of second spray of binder @ 15 kg per 10 sqm and laying key aggregate on the top of second layer and rolling with 8-10 tonne power road roller including heating and spraying of binder, cleaning the area of patch, potholes cut to regular shape with vertical sides, removing all loose and disintegrated material including cost of coarse aggregate, key aggregate, rolling & hire charges of machinery, T&P, cost of fuel, bitumen etc. complete.	P.Sqm.	**308.00**
16.25	Construction of speed breaker of IRC standard having width of 3.70 M including cost of stone aggregate (50-25mm) size hire charges for roller for consolidation and compaction and other machines required for the work (including cost of bitumen)	P.Sqm.	**200.00**
16.26	Construction of un-reinforced , plain cement concrete pavement M-35 (Grade), thickness as per design, over a prepared sub base, with 43/53 grade cement as per Clause 602, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a in fully automatic Batching Plant and transported to site in transit mixer for having continuous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Fixed Form Paver (laying and fixing of 150 micron thick polythene Film and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and MoRTH Specification Clause 602 including vaccum dewatering process with all required equipments (Dowel Bars will be paid seprately).	P.Cum	**6150.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.27	Construction of un-reinforced , plain cement concrete pavement M-40 (Grade), thickness as per design, over a prepared sub base, with 43/53 grade cement as per Clause 602, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a in fully automatic Batching Plant and transported to site in transit mixer for having continuous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Fixed Form Paver (laying and fixing of 150 micron thick polythene Film and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and MoRTH Specification Clause 602 including vaccum dewatering process with all required equipments (Dowel Bars will be paid seprately).	P.Cum.	**6300.00**
16.28	Providing and Fixing of Dowel Bars of Mild Steel confirming to IS : 432 of specified length and diameters as per MoRTH Specification IRC 15 & 58 including cutting, placing in position across transverse joint with proper spacing, providing with PVC sleeve complete as per drawing, technical specification and as per direction of the Engineer-in-charge.	P.Kg.	**77.00**
16.29	Providing & mixing admixture in Cement Mass Concrete flooring, CC Road, RCC work, Canal Lining and Shotcrete Non Circular with ribbed surface Structural Synthetic Macro Fiber 42 - 50 mm length, specific gravity of > 1.30 and diameter 0.80 - 1.20 mm and melting point > 220 degree centigrade @ 0.75 % - 1.00 % by cement weight in design mix as per directionof Engineer-in-charge.	P.Kg.	**805.00**
16.30	Providing & mixing admixture in Cement Concrete flooring/ Cement Plaster/ Plain or RCC work, Synthetic Polyester Triangular Construction Fiber of length 6 mm / 12 mm / 18 mm with specific gravity 1.34 to 1.40 and diameter 10 - 40 microns and melting point > 220 degrees centigrade by using 125 gm fiber for 50 kgs cement used as per direction of Engineer-in-charge.	P.Kg.	**610.00**
16.31	Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation. Note : 1. The installation shall be done by the manufacturer or his authorised representative to the satisfaction of the Engineer. 2. The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC deck.	P.Rmt.	**8298.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.32	Expansion joint 25 mm wide and depth 200 to 300 mm using 25 mm thick bitumen impregnated board/SILFLEX (Capcel HD 100) confirming manufactures specifications , dowel bars 25mm M.S. rod 500 mm long @ 200 mm C/C with pve sleeve as per IRC 58 (1988) including required steel bar (16 mm dia.) chairs, making holes in board, placing whole assembly in groove including cost of sealing compound.	P.Rmt.	**1310.00**
16.33	Providing & Fixing in position bitumen impregnated board / SILFLEX (Capcell HD 100) confirming manufactures speficiations in expension joint with sealent as per IRC-15-2002 of size :		
16.33.1	12mm thick	P.Sqm.	**750.00**
16.33.2	18mm thick	P.Sqm.	**1111.00**
16.33.3	25mm thick	P.Sqm.	**1463.00**
16.34	Cutting of construction joint/ longitudinal joint 4 to 6 mm. wide & 75 to 100 mm deep using mechanical concrete cutter including cost of diamond bit cutting wheel and filling of bitumen sealing compound in groove including cost of sealing compound.	P.Rmt.	**68.00**
16.35	Supply & fixing of M-20 grade precast cement concrete Kerb or Dand upto 60 cm length over 20 mm thick base of cement mortar 1:6 including jointing earth work, pointing & jointing with cement mortar 1:4 of size		
16.35.1	10 x 15 cm	P.Rmt.	**157.00**
16.35.2	15 x 15 cm	P.Rmt.	**202.00**
16.35.3	20 x 20 cm	P.Rmt.	**308.00**
16.35.4	20 x 25 cm	P.Rmt.	**365.00**
16.35.5	(20 x 25) x 30 cm 2	P.Rmt.	**485.00**
16.35.6	(22.5 x 25) x 30 cm 2	P.Rmt.	**505.00**
16.36	Providing and filling joint sealing compound in CC Pavement/Structures as per drawings and MoRTH specifications with coarse sand and 6 per cent bitumen by weight	P.Rmt.	**17.50**
16.37	Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per MorTh Specification Clause 2804	P.Sqm.	**437.00**
16.38	Removal of defective concrete, cleaning the surface thoroughly, applying the shotcrete mixture mechanically with compressed air under pressure, comprising of cement, sand, coarse aggregates, water and quick setting compound in the proportion as per clause 2807.1., sand and coarse aggregates conforming to IS: 383 and table 1 of IS: 9012 respectively, water cement ratio ranging from 0.35 to 0.50, density of gunite not less than 2000 kg/cum, strength not less than 25 Mpa and workmanship conforming to clause 2807.6.	P.Sqm.	**214.00**
16.39	Applying pre-packed cement based polymer mortar of strength 45 Mpa at 28 days for replacement of spalled concrete including removal of old damaged concrete and all arrangement for applying it complete as per MoRTH specifications.	P.Sqm.	**717.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.40	Applying Epoxy bonding of new concrete to old concrete including removal of old damaged concrete and all arrangement for applying it complete as per MoRTH specifications.	P.Sqm.	**589.00**
16.41	Providing and fixing of Reinforced Ferro cement Drain cover designed for class "AA" loading duly marked on cover with adequate steel reinforcement having thickness 75 mm to 150 mm anti- corrosive bitumen painted M.S. plate Rim and on M.S. lifting hooks admixture like plasticizer bond improving compound shrinkage resistance compound abrasion resistant complete as per approved design etc.		
16.41.1	for drain Opeining Size 300 to 450 mm Standard Drain Cover Size 600mm x 800mm x 75mm	P.Sqm.	**2115.00**
16.41.2	for drain Opeining Size 451 to 700 mm Standard Drain Cover Size 1000mm x 800mm x 100mm	P.Sqm.	**2445.00**
16.41.3	for drain Opeining Size 701 to 1200 mm Standard Drain Cover Size 1500mm x 600mm x 125mm	P.Sqm.	**3124.00**
16.41.4	for drain Opeining Size 1201 to 1500 mm Standard Drain Cover Size 2100mm x 500mm x 150mm	P.Sqm.	**4457.00**
16.42	Supply & fixing of Fiber reinforced Ferro cement drain cover (light duty) designed for side drain for class "B" Road loading duly marked on cover with adequate steel reinforcement having thickness 50 mm to 75 mm anti corrosive bitumen painted M.S. plate Rim and on M.S. lifting hooks additives & admixture like plasticizer shrinkage resistance compound abrasion resistant as per approved drawing and design complete in all respect.		
16.42.1	for drain Opeining Size 300 to 450 mm Standard Drain Cover Size 600mm x 1200mm x 50mm	P.Sqm.	**838.00**
16.42.2	for drain Opeining Size 451 to 700 mm Standard Drain Cover Size 1000mm x 900mm x 60mm	P.Sqm.	**995.00**
16.42.3	for drain Opeining Size 701 to 1200 mm Standard Drain Cover Size 1500mm x 700mm x 70mm	P.Sqm.	**1223.00**
16.42.4	for drain Opeining Size 1201 to 1500 mm Standard Drain Cover Size 1800mm x 600mm x 75mm	P.Sqm.	**1665.00**
16.43	P & P Precast dense cement concrete (Vibro-pressed) drain section block of different size as per approved drawing and design and strength as per IS code:2185 Part-I of grade 'D' (5.00mm) proper quality of additive/admixture like plasticizer etc. added to produce high quality and durable drain section blocks of "L" shape "U" shape etc. as per approved design and drawing complete with fixing and jointing in C.M. 1:4 in proper grade and level complete in all respect including earth work and disposal of surplus earth within 0.5 Km lead .		
16.43.1	40mm thick	P.Sqm.	**475.00**
16.43.2	Up to 60mm thick	P.Sqm.	**638.00**
16.43.3	Up to 80mm thick	P.Sqm.	**795.00**
16.43.4	Up to 115mm thick	P.Sqm.	**957.00**
16.44	Providing and fixing stone slab covering over drains (Kota/Bijoliya Quarry) having thickness 75 mm to 150 mm including filling of joints in cement mortar 1:3 with 50 mm thick cement concrete flooring in 1:2:4 mix complete with good finish as per approved drawings and specifications.		
16.44.1	for drain Opeining Size 300 to 450 mm Stone Patty drain cover size 800mm x 600mm x 75mm	P.Sqm.	**765.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.44.2	for drain Opeining Size 451 to 600 mm Stone Patty drain cover size 1000mm x 600mm x 100mm	P.Sqm.	**908.00**
16.44.3	for drain Opeining Size 601 to 1000 mm Stone Patty drain cover size 1500mm x 600mm x 150mm	P.Sqm.	**1013.00**
16.45	Provision of red fluorescent with white reflective sleeve traffic cone made of Low Density Polyethylene (LDPE) material with a square base of 390 x 390 x 35 mm and a height of 770 mm, 4 kg in weight, placed at 1.5 m interval, all as per BS:873	Each	**531.00**
16.46	Supply of Caution Diversion sign board size 1800 x 600 mm having centre height of 75 cm made out or 1.25 mm thick M.S. sheet duly framed with angle iron size 40 x 40 x 5 mm fixed on two moving wheels and stands, made out of 75 x 40 mm channel having two solid rubber wheels mounted on ball bearings, boards is processed in stoving enamel blue and machine cut sheet reflective letter and arrow on one side and the other side having arrow only complete in all respect.	Each	**4535.00**
16.47	Supplying & Fixing route Marker reflective sign boards consisting of shield marked on M.S. flat 14 gauge of size 40 x 60 cm and definition plate of 30 x 25 cm, 14 gauge, fixed on mild steel posts of T Iron or Angle Iron for NH/SH :	Each	**2260.00**
16.48	Supply & Fixing of flood gauge (water Gauge) as per I.R.C. 67 standard 200 cm long fixed on angle iron posts 50x50x6 mm, 2.6 M. long.	Each	**2140.00**
16.49	Supplying of men at work sign board (folding type) made of 1.25 mm thick M.S. sheet size 900x900x900 mm painted in white stove enamelled paint and reflective machine cut sheet Men's emblem and letter MEN AT WORK in red colours and additional attachment of size 150x900 mm plate for gang number and name with white stoving enameled back ground both plates are fixed on a folding stand of M.S. (heavy) steel tube of size 13.2 mm outer dia as per IS-1239 (part-I) 1979 duly painted in grey colour and both the plates are painted on back side in grey enamel paint.	Each	**1597.00**
16.50	Supply of Sign Board size 120x75 made out of 1.25 mm thick M.S. sheet duly framed with 33.3 mm ODMS black tube medium class as per IS- 1239 (Part-I) 1979 with inner support of M.S. flat 12x3 mm whole structure is fixed on two posts of 42 mm ODMS black tube (Medium class) as per IS-1239 processed with blue stoving enamel paint and white figuring direction arrow in superior quality of synthetic enamel paint	Each	**2225.00**
16.51	Supply of 'L' type Bollard made out of 1.25 mm thick M.S. sheet height 134 cm, welded in circular type ring section having upper dia 15 cm. and lower dia 21 cm with another attachment of 15x15 cm circular section with 15 cm. face plate and hold fast at bottom, whole body is processed in white stoving enamel and red reflective 3 hands, each of 7.5 cm end one reflective sheet of 15 cm. dia provided to it complete in all respect.	Each	**2123.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.52	Suppy of Swiss Type Bollard made out of 1.25 mm thick M.S. sheet, total height 135 cm, the lower portion is made in tapered circular section having upper dia 15 cm and lower dia 20 cm with attachment of one mandatory plate 7 mm thick M fixed with the help of 7 cm long, 30mm dia crome plated M.S. tube this part is fixed on the body with another attachment of a cap 30x7 cm. whole body is processed in black stoving enamel and mandatory plate in Azure blue, with one compulsory keep left arrow with 10mm border reflective strip each of 7.5 cm on body complete in all respect.	Each	**2443.00**
16.53	Supply of Hazard Marker made out of 2 mm thick M.S. sheet size 300x300x3 mm framed with angle iron 25x25x3 mm and fixed on channel posts 75x40x6 mm and hold fast at bottom whole body is painted in white stoving enamel and 6 Nos., 5 cm dia reflective sheet on white reflective background with additional border of 1.25 cm all arount it.	Each	**840.00**
16.54	Supply of Swiss type of Hazard marker, made out of 2 mm thick M.S. sheet size of box is 15x15 cm with hold fast at bottom, the body is painted in orange stoving enamel paint with white/high intensity grade micro-prismatic type sheeting, on all four side.	Each	**1160.00**
16.55	P & F Delinator with 30 cm. outer dia RCC hume pipe NP-2 (As per IS-458/ 1971) pipe 1. OM. Long 40 cm embedded in cement concrete (1:4:8) block of size 50x50x40 cm. including excavation upto 40 cm depth. The inside of pipe shall be filled with C.C. (1:4:8) stone grit max size 20 mm or less upto the top with semi circular humping. The pipes shall be painted white/black with enamel paint with red dots two Nos. on each side	Each	**575.00**
16.56	Providing and fixing Central Road Fund display board size 180-160 cm made out of 1.6 mm thick MS sheet duly framed with angle iron 65x65x5 mm size having 2 Nos posts 3 m long from ground level and 0.45 m embended in M-15 cement concrete block 300x300x600 mm in ground on shoulder of road including painting & lettering as per MoRTH specifications clause 801 with enameled paint complete in all respects.	Each	**8065.00**
16.57	Supplying and Fixing of Cat's Eye made of aluminium alloy size 75x100x22 mm having 21 biconvex lenses embedded in circular disk of ABS plastic on each side.	Each	**266.00**
16.58	Supply of centerline Raised Pavement Marker (RPM) size 125 x75x20 mm made out of Aluminium alloy duly white powder coating paint with two side reflective having fixing provision with nail complete in all respect.	Each	**432.00**
16.59	Half bricks cirular Tree Guard in 50 class designation bricks, internal diameter 1.25 m and height 1.2 m above ground and 0.20 m below ground, bottom two courses laid dry and top three courses in lime mortar 1 : 2 (a-lime putty, 2 - surkhi) or cement mortar 1 : 6 (1 cement : 6 fine sand) and the integrated course being in dry honey comb as per design complete.	Each	**638.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.60	Painting with superior grade enamel paint of approved quality to give an even shade including writing lettering figuring etc. complete as per IRC standers of Bollards with 3 Nos. reflective type 7 cm wide strips including cost of providing new strips.		
16.60.1	Painting old work (Labour Rate)	Each	**425.00**
16.60.2	Painting old work (Complete Rate)	Each	**726.00**
16.61	Making double drum Tree Guard Tree Guard 52 cm dia at middle and 75 cm at top level and 1.9 m high as per standard design from empty coaltar drums supplied free by the department including providing and fixing 4 Nos. legs 40 cm long of 30x30 mm M.S angle and 5 Nos. 20x3 mm M.S. flats riveted to tree guard with rivets complete in all respect including painting inside and outside of tree guard with :		
16.61.1	One coat of coaltar / or anti corrosive paint.	Each	**319.00**
16.61.2	Two or more coats of ready mixed paint of approved quality and shade over a priming coat	Each	**445.00**
16.62	Fixing of sign board having including excavation cement concrete 1:5:10 (30x30x60cm) and transportation complete of size :		
16.62.1	Two Post		
16.62.1.1	150x120x&120x75 cm	Each	**695.00**
16.62.1.2	60x75, 90x60 cm, 75x45 cm & 60x45 cm	Each	**555.00**
16.62.2	Single Post	Each	**345.00**
16.63	Providing and erecting overhead signs with a corrosion resistant 2mm thick aluminium alloy sheet reflectorised with high intensity retro-reflective sheeting of encapsulated lense type with vertical and lateral clearance given in clause 802.2 and 802.3 and installed as per clause 802.7 over a designed support system of aluminium alloy or galvanised steel trestles and trusses of sections and type as per structural design requirements and approved plans		
16.63.1	Truss and Vertical Support	P.MT.	**99382.00**
16.63.2	Aluminium Alloy Plate for Over Head Sign	P.Sqm.	**11312.00**
	Note :- 1. The cost of excavation and foundation concrete for fixing of vertical support system to be worked out separately as per the approved drawing/design and to be included in the estimate. 2. Lettering and arrow marks on sign board to be provided separately as per actual requirement. Rates for these items have been included separately in this chapter.		
16.64	Barricading with sal ballies as per design including tying with vertical posts by coconut strings complete in all respect with two horizontal members and vertical supports upto 2.5m centre to centre and for 3 days period including removal and cleaning the site complete in all respect.		
16.64.1	Height 1.2m upto 1.5m above ground level		
16.64.1.1	Labour Charge	P. Mtr.	**10.00**
16.64.1.2	Complete	P. Mtr.	**30.00**
16.64.2	Height upto 1.2m height above ground level		
16.64.2.1	Labour Charge	P. Mtr.	**10.00**
16.64.2.2	Complete	P. Mtr.	**25.00**
16.64.3	Add extra in barricading for each subsequent day after 3 days.	P. Mtr.	**2.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.65	Construction of Foundation / Inaugration Pedastal in 23 cm thick Brick masonry in CM 1:4 of size 1.20m x 1.80m above ground level with adequate foundation including providing and fixing of Granite stone of size 0.75m x0.60m with engraving letters and figures,cement plaster,white washing etc. complete as per direction of Engineer in charge.	Each	**10605.00**
16.66	Supply & Planting of shady plants (Neem, Peepal, Goolar, Jamun, Imli or other specified) along road side including the following activities:- 1. Preparation of soil including cleaning & removing of unwanted shrubs removal of stones & garbage. 2. Supply of plant at site of two years of age & height more than 1.50 Mtr 3. Supply of dry manure (Farm yard manure organic) 4. Supply of Insecticides 5. Digging of pits size 60x60x60 cms. Including removal of stones. Manuring application of insecticides & watering at least 15 liter per plant after planting. 6. Half brick Circular tree guard in second class bricks, internal dia 1.25 meter and height 1.20 meter above ground and 0.20 meter below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1Cement : 6 Sand) and the intermediate courses being in dry honey comb masonry, as per design complete.		
	7. Watering to plants. 8.Maintenance of plants by the contractor including of pits/bids preparation of Thavala Hoeing weeding etc. & application of insecticides etc. & security. If the plant die during maintenance contractor has to replace same height plant at his own cost.		
	Note:- SD Shall be refunded after counting of plants on completion of defect liability period of 5 years	P.Plant	**1540.00**
16.67	Detail survey of site with total station including plane table survey of builtup area showing road level, boundary walls, electric poles, adjacent building / plot details, set back, other existing structures (temporary or permanent), sewer lines & septic tank, main plumbing lines, nalahs or drains water bodies/water logging areas as may be required depending upon the site conditions/ topography of the area including printout on required size paper in three copies & one soft copy of approved media		
16.67.1	Rate per Km. Builtupt area less than 10%	P.Km.	**6795.00**
16.67.2	Rate per Hect. Builtupt area less than 10%	P.Hect	**3397.50**
16.67.3	Rate per Hect. Builtupt area 10% to 50%	P.Hect	**6795.00**
16.67.4	Rate per Hect. Builtupt area greater than 50%	P.Hect	**13590.00**
16.68	Survey of Proposed road including printout of Plan, L-Section & Cross section on A-3 size paper in three copies & one soft copy of approved media (For L-Section levels are to be taken at an interval of 25m on plain terrain and 10m on rolling & at CD works) including computation of quantities of earth work in cutting / filling as per L-Section & Cross section	P.Km.	**2265.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.69	Conducting Traffic Census at Traffic Count Station including collection of data during census, tabulation and computerised information preparation arrangement of lighht, furniture for sitting of two persons, installation and maintenance of tent materials, banners sign boards etc. during census engagement of at least metric educated two persons per shift of eight hours etc. complete as directed by Engineer-in-charge for a period of seven days.	Each Station	**14539.00**
16.70	Construction of a permanent type barricade made with brick work in mud mortar, 1.5 m high, 4 m long, 600 mm thick, plastered with cement mortar 1:6, painted with yellow and white strips	Each	**11778.21**
16.71	Providing and carrying out video shoting of roads, bridges, buildings, other programmes including hiring of vehicle equipments for video shooting, titling, lightening, mixing, lettering, editing, including cost of two colour CDs of approved makes and quality etc. complete.		
16.71.1	Within 50 Kms.	Per Day	**3150.00**
16.71.2	Beyond 50 kms.	Per Day	**3413.00**
16.71.3	Work upto 5 hours per day only.	Per Day	**1890.00**
16.72	Shooting of still photographs outdoor and indoor of construction and other works of building, bridges, roads etc. at any distances.		
16.72.1	Post Card size	3 No's	**79.00**
16.72.2	4"x6" size	3 No's	**105.00**
16.72.3	5"x7" size	3 No's	**168.00**
16.72.4	8"x12" Size (A-4 Size)	3 No's	**315.00**
16.72.5	20"x30" size (Banner Size)	1 No.	**761.00**
16.72.6	Extra Copies :		
16.72.6.1	Post Card size	1 No.	**11.00**
16.72.6.2	4"x6" size	1 No.	**16.00**
16.72.6.3	5"x7" size	1 No.	**21.00**
16.72.6.4	8"x12" Size (A-4 Size)	1 No.	**79.00**
16.72.6.5	20"x30" size (Banner Size)	1 No.	**578.00**
16.73	**Micro Surfacing**		
	Providing and laying micro surfacing course as per MoRTH (Rev-5) Clause 514 comprising of dry fine aggregate confirming to Type-III grading of specification, polymer modified cationic slow setting bitumen emulsion (Having about 60% binder content and 3.60% polymer), Ordinary Portland cement, chemical additives and water in the following proportion. (i) Fine aggregate confirming to Type-III grading @ 11.1 kg/sqm of road surface coverage. (ii) Bitumen emulsion @ 13% by weight of fine aggregate (iii) Cement @ 1.5% by weight of fine aggregate (iv) Additive @2% by weight of fine aggregate.	P.Sqm.	**158.00**
16.74	**Lime Sludge Stabilization**		
	Providing, laying and spreading soil on a prepared embankment as sub-grade, pulverising, mixing the spread soil in place with rotavator with 9 percent lime Sludge with minimum content of 50-60 percent of CaO, grading with motor grader and compacting with the road roller at OMC to achieve at least 98 percent of the maximum dry density to form a layer of sub-grade/sub-base as per specification with all lead of lime sludge.	P.Cum.	**280.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
16.75	**CELL FIELD CONCRETE**		
	Construction of plastic cell filled cement concrete pavement, with M30 grade concrete, thickness as per design, over a prepared sub base, with 53 grade Ordinary Portland Cement (OPC) or any other type as per Clause 1501.2.4 M30 (Grade). Coarse and fine aggregates conforming to IS : 2386, maximum in a concrete mixer of not less then 0.2 cum capacity and appropriate weigh batcher using approved mix design(As per IRC 44-2088, laid in approved fixed side formwork (steel channel, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using screed and plate vibrators and finished in continuous operation, Concrete should have a slump of 30-50MM with use of approved plasticizer if required Formwork of plastic cells should be made of High Density Polyethylene (HDPE), sheets having thickness ranging from 0.19-0.22MM with sides 150MMx150MM and height as fixed by engineer in charge. To be laid in full width of the carriageway. Iron spikes of about 200MM long are to be used to keep the cell walls taut. Nylon thread or rope may be used to prevent collapse of cells during placement of concrete. Iron spikes to be taken out for use in other place as soon as the concrete is in place. Curing of concrete slabs for 14 - days, curing compound (where specified) and water finishing to lines and grade as per drawing and MoRD Specification of cell filled Concrete Pavement.		
16.75.1	100mm thickness	P.Sqm.	**639.00**
16.75.2	150mm thickness	P.Sqm.	**919.00**
16.76	Construction of un-reinforced, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 602.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a concrete mixer of not less than 0.5 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed Side Formwork (steel channel, laying and fixing of 150 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days, using water finishing to lines and grade as per drawing and MoRTH Specification Clause 602 including vaccum dewatering process with all required equipments (Dowel Bars will be paid seprately)	P.Cum.	**5500.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
Chapter 17 - Additional Items (New)			
17.1	Construction of panel concrete pavement M-40 grade for Ultra Thin white Topping (Thickness equal to or less than 100 mm) Construction of short paneled un reinforced, plain cement concrete pavement (Ultra Thin white Topping as per IRC : SP: 76-2015) :M-40 grade concrete over a prepared sub base or over bituminous surface (Existing bituminous surface prepared if necessary either by milling or leveling course to be done with BM / DBM / DLC to correct surface profile and to be paid separately) with Ordinary Portland Cement 53 grade confirming to IS:12269, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 31.5 mm, mixed in a fully automatic batching plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Fixed Form Paver (laying and fixing of 150 micron thick polythene film) and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and specification as per IRC SP : 76 - 2015. should have minimum flexural strengthen of 4.5 MPa, Each Panel (0.50m x 0.50m) .	P.Cum.	**6600.00**
17.2	Construction of panel concrete pavement M-40 grade for Thin White Topping (Thickness greater than I00 mm and less than 200 mm) Construction of short paneled un reinforced, plain cement concrete pavement (Thin white Topping as per IRC : SP: 76-2015) :M-40 grade concrete over a prepared sub base or over bituminous surface (Existing bituminous surface prepared if necessary either by milling or leveling course to be done with BM / DBM / DLC to correct surface profile and to be paid separately) with Ordinary Portland Cement 53 grade confirming to IS:12269, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 31.5 mm , mixed in a fully automatic batching plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design including pumping of R.M.C. from transit mixer to site of laying , with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge laid with a Fixed Form Paver (laying and fixing of 150 micron thick polythene film) and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant near approaches to bridge/culvert and construction joints, admixtures as approved, curing of concrete slabs for 14-days using water finishing to lines and grade as per drawing and specification as per IRC SP : 76 - 2015. should have minimum flexural strengthen of 4.5 MPa, Each Panel (1.00m x 1.00m).	P.Cum.	**6500.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.3	Recycling pavement by cold milling of existing bituminous layers, planning the surface after cold milling, reclaiming excavated material to the extent of 30 percent of the required quantity, hauling and stock pilling the reclaimed material near the central recycling plant after carrying out necessary checks and evaluation, adding fresh material including rejuvenators as required, mixing in a hot mix plant, transporting and laying at site and compacting to the required grade, level and thickness, all as specified in MoRTH Specifications Clause 519.	P.Cum.	**6566.00**
17.4	Milling of distress bitumenous layer upto 70mm depth in a single pass with suitable milling machine (capable of milling @ 200&300 sqm of area per hr) fitted with loading conveyer of loading the filled material directly on the trucks i/c hauling and stock pilling the reclaiming to bring to required specification to reuse with the approval of engineer - in - charge for safe disposal; with all leads and lifts complete in all respect as directly by Engineer - in- charge. *Note : The unutilized quality of reclaimed bituminous mix material shall be recovered.	P.Sqm	**26.00**
17.5	Supply & Fixing of Chevron sign of size 75x60 cm made out of aluminum sheet 2 mm thick with fixing provision on M.S. angle iron post 50x50x6 mm 3 M long screwed with stainless steel nut bolts of 8mm dia, plate is covered by high intensity grade yellow retro-reflective sheeting and black screen printed arrow on Retro Reflective Sheet, complete in all respect. Comp. in all respect duly post painted in alternate band of Black/White synthetic enamel paint & hold fast at bottom	Each	**5832.00**
17.6	Provision of reinforced cement concrete crash barrier at the edges of the road, approaches to bridge structures and medians, constructed with M-20 grade concrete with HYSD reinforcement conforming to IRC: 21 and dowel bars 25 mm dia , 450 mm long at expansion joints filled with pre-moulded asphalt filler board, keyed to the structure on which it is built and installed as per design given in the enclosure to MoRTH Circular No. RW/ NH-33022/ 1/ 94-DO III dated 24th June 1994 as per dimensions in the approved drawing and at locations directed by the Engineer , all as specified as per MoRTH specification Cl. 811.2.	P.Rmt.	**4452.00**
17.7	Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ ground level, fixed on CRC rolled channel vertical post, 150 x 75 x 5 mm spaced 2 mm centre to centre, 1.8 m high, 1.1 m below ground / road level, all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS: 1367 and IS: 1364 , metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per MoRTH specification Clause 811.3.	P.Rmt.	**3105.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.8	Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 Cm above road/ ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre- to- centre, 2 m high with 1.15 m below ground level , all steel parts and fitments to be galvanized by hot dip process, all fittings to conform to IS: 1367 and IS: 1364 , metal beam rail to be fixed on the vertical post with a space of channel section 150 x 75 x 5 mm , 546 mm long complete as per Clause 811.3.	P.Rmt.	**4839.00**
17.9	Providing and laying Precast reinforced cement concrete Box culvert section of M-40 grade designed for 'AA' class loading as per IRC specifications including to effect of impact, EQ etc. complete on firm base of 200mm thick lean concrete of M-10 grade with aggregate of size 40mm nominal of following internal size the work includes required safety measures cost of design of RCC Precast Box and its proof checking from IIT / NIT / Government Engineer College complete in all respect as per specifications		
17.9.1	Size 2.00 M x 2.00 M	P.Rmt.	**26328.00**
17.9.2	Size 1.50 M x 1.50 M	P.Rmt.	**23061.00**
17.9.3	Size 1.25 M x 1.25 M	P.Rmt.	**15911.00**
17.9.4	Size 1.00 M x 1.00 M	P.Rmt.	**12089.00**
17.9.5	Size 0.75 M x 0.75 M	P.Rmt.	**8987.00**
17.9.6	Size 0.60 M x 0.60 M	P.Rmt.	**8072.00**
17.10	Supply of readymade cold bituminous mixture for pothole patching in potholes in accordance with IRC:116-2014 specifications with IRC: 116-2014 spccifications with 5.6% MC-800 Cut back Bitumen and suitable anti stripping agent with all lead and lift in 50 kg plastic lined sturdy bags complete in all respect as per direction of engincer-in- charge including all transportation, stacking & taxes etc	P.Kg	**14.50**
17.11	Placing and compacting readymade cold bituminous mixture in potholes duly prepared in accordance with IRC:116-2014 with Specifications with all lead and lift for placement at site complete in all respect as per Direction of Engineer-in-charge including all taxes etc.	P.Kg	**3.00**
17.12	Providing and erecting a Road Restraint System-Single Roller System Barrier. Single Roller System H-1 & H-2 comprising of post of hot dip galvanized steel 139.8 mm diameter (1.-2200 and 1.-720) thickness 4.5 mm spaced with interval of 1 meter installed into hardened road. Safety frame rail from sheet of 3.2 mm thick are fixed to main posts, shock absorbing rollers 345mm diameter and 480mm height made of polypropylene - EVA,post caps, loker, pipes and connection material. Distance between main post to main post shall be 1000 mm. Distance between main post to short post shall be 500 mm (Centre to Centre of Roller shall be 500 mm) and the height of upper edge rail is 960 mm. All steel parts (frame S235JR equivalent SS400) and post S235JR shall be hot dip galvanized against corrosion. The system shall be installed after road safety survey, Liasoning for reports Pre & Post assesement & Installation report in accordance with the design and drawing and assembly instructions etc. complete including GST.	P.Rmt.	**89661.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.13	Supplying, fitting and placing of GFRP(Glass fiber Reinforced Polymer) bars conforming to IRC 137:2022 and IS 18256:2023 for non- Structure applications such as Crash Barriers, Concrete drains, Concrete pavements. Approach slabs.etc. as per drawing & technical specification. (Only GFRB Bars manufactured using Vinyl Ester systems and Glass fibers classified as E-CR or R that meet the requirements of IS 18256:2023 shall be used) including GST	P.Kg.	**253.00**
17.14	Providing and Fixing in position precast reinforced cement Concrete U-shape drain (Precast T-25) as per design and shape, using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per 1S: 456¬2000 and standard like Indian standard, international standards viz. Japanese Industrial Standards (JIS)/ US standard/EU standard/ having of strength not less than M-50. using Thermo ¬Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement. Precast reinforced cement concrete drains using, service duct / Cable trench/stormwater/roadside drain, etc. Rate includes all cost of material, labor charges at the plant, cost of reinforcement, formwork and lifting accessories, and transportation up to work at the site. Rate excludes unloading the material at site, lids, and lift. All work up to plinth level: making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting, etc. the work exciting as per the direction of Engineer in-charge. Note:- Rate shall also include technical assistance for the installation of products at one time. Load Carrying Capacity : 5 T Wheel Load(T-25)		
17.14.1	300x300	P.Rmt.	**4560.00**
17.14.2	450x450	P.Rmt.	**7190.00**
17.14.3	600x600	P.Rmt.	**9739.00**
17.14.4	750x750	P.Rmt.	**13126.00**
17.14.5	900x900	P.Rmt.	**17831.00**
17.15	Providing and fixing factory-made precast RCC U-shape drain (Precast T-25) drain covers, having of strength not less than M-50 using Thermo- Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement, of size Lid for U-300x300 mm. As per standard size reinforced with 8 mm dia main longitudinal & 6 mm nos cross-sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 2 nos, including providing edge binding with M.S. flats of size 50 mm x 1.60 mm complete, all as per direction of Engineer-in-charge.		
17.15.1	300x300	P.Rmt.	**2643.00**
17.15.2	450x450	P.Rmt.	**4326.00**
17.15.3	600x600	P.Rmt.	**6183.00**
17.15.4	750x750	P.Rmt.	**7882.00**
17.15.5	900x900	P.Rmt.	**9110.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.16	Providing and fixing factory-made precast RCC U-shape drain (Precast T-6) drain having of strength not less than M-50. using Thermo-Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement, of size Lid for U-300x300 mm . As per standard size reinforced with 8 mm dia main longitudinal & 6 mm nos cross-sectional T.M,T. hoop bars, including providing 50 mm dia perforations @ 2 nos, including providing edge binding with M.S. fiats of size 50 mm x 1.60 mm complete, all as per direction of Engineer-in-charge. T 6 PU series is a longitudinal drain and is designed for pedestrian walk / Light Motor vehicle load.		
17.16.1	300x300	P.Rmt.	**3309.00**
17.16.2	450x450	P.Rmt.	**4386.00**
17.16.3	600x600	P.Rmt.	**6121.00**
17.16.4	750x750	P.Rmt.	**8373.00**
17.16.5	900x900	P.Rmt.	**10827.00**
17.16.6	600x300	P.Rmt.	**5004.00**
17.16.7	600x400	P.Rmt.	**5172.00**
17.16.8	600x500	P.Rmt.	**5725.00**
17.16.9	350x600	P.Rmt.	**6133.00**
17.16.10	444x320	P.Rmt.	**6115.00**
17.17	Providing and fixing factory-made precast RCC U-shape drain (Precast T-6) drain covers, having of strength not less than M-50 using Thermo- Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement, of size Lid for U-300x300 mm. As per standard size reinforced with 8 mm dia main longitudinal & 6 mm nos cross- sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 2 nos, including providing edge binding with M.S. flats of size 50 mm x 1.60 mm complete, all as per direction of Engineer-in-charge.		
17.17.1	300x300	P.Rmt.	**1123.00**
17.17.2	450x450	P.Rmt.	**1564.00**
17.17.3	600x600	P.Rmt.	**2189.00**
17.17.4	750x750	P.Rmt.	**3002.00**
17.17.5	900x900	P.Rmt.	**4019.00**
17.17.6	350x600	P.Rmt.	**3000.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.18	Precast Box Culvert - Providing and Fixing in position precast cement concrete Box - Culvert as per design and shape using coarse aggregate and fine aggregate derived from natural resources, ordinary portland / admixture as per design mix IS 456-2000 and standard like Indian standard international standard viz Japanese Industrial Standard (JIS) / Providing and Fixing in position precast reinforced cement concrete Box - Culvert or Cable Crossing Boxes as per design and shape, using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland flag cement, admixture* in recommended proportions as per IS: 456-2000 and standard like Indian standard international standards viz. Japanese Induslrial Standards (JIS)/ US standard/EU standard having of strength not less than M-50. using Thermo-Mechanically created bars (TMT/TMX) FE SOOD or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 32.5 zones with earth cushion 0.20 m to 3.00 m for heavy vehicle movement. Precast reinforced cement concrete drains using, service Crossing / stormwater etc. Rale includes aII cost of material, labor charges at the plant, cost of reinforcement formwork and lifting accessories, and transportation up Io work at fhe site. Rate excludes unloading lhe material at site, bids, and lift. All work up to plinth level: making necessary holes of required sizes for carrying lhroug h service lines etc., providing steel hooks for lifting, etc. .the work exciting as per the direction of Engineer in-charge. Nole: Rate shall also include technical assistance for the installation of producls at one time.		**0.00**
17.18.1	300 X 300	P.Rmt.	**5493.00**
17.18.2	600 X 600	P.Rmt.	**15456.00**
17.18.3	500 X 500	P.Rmt.	**10978.00**
17.18.4	800 X 800	P.Rmt.	**26839.00**
17.18.5	600 X 1000	P.Rmt.	**22244.00**
17.18.6	900 X 1000	P.Rmt.	**31003.00**
17.18.7	1000 X 1000	P.Rmt.	**32230.00**
17.18.8	1200 X 1000	P.Rmt.	**36425.00**
17.18.9	1000 X 600	P.Rmt.	**25584.00**
17.18.10	1000 X 900	P.Rmt.	**31033.00**
17.18.11	1000 X1200	P.Rmt.	**36488.00**
17.18.12	800 X 1400	P.Rmt.	**36488.00**
17.18.13	900 X 1400	P.Rmt.	**37814.00**
17.18.14	1000 X 1400	P.Rmt.	**39255.00**
17.18.15	1100 X 1400	P.Rmt.	**40634.00**
17.18.16	1200 X 1400	P.Rmt.	**41970.00**
17.18.17	1300 X 1400	P.Rmt.	**46712.00**
17.18.18	1400 X 1400	P.Rmt.	**48309.00**
17.18.19	1500 X 1400	P.Rmt.	**49907.00**
17.18.20	2000 X 1200	P.Rmt.	**69237.00**
17.18.18	2000 X 1500	P.Rmt.	**74354.00**
17.18.22	2000 X 1800	P.Rmt.	**76318.00**
17.18.23	2000 X 2000	P.Rmt.	**77452.00**
17.18.24	2500 X 1500	P.Rmt.	**94173.00**
17.18.25	2500 X 1800	P.Rmt.	**100932.00**
17.18.26	2500 X 2000	P.Rmt.	**103802.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.18.27	2500 X 2500	P.Rmt.	**109947.00**
17.19	Providing and Fixing in position precast reinforced cement concrete Earth Retaining Wall as per design and shape, using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 456-2000 and standard like Indian standard, international standards viz. Japanese Industrial Standards (JIS)/ US standard/EU standard/ having of strength not less than M-50. Using Thermo-Mechanically Treated bars. (TMTITMX) FE 500D. Precast reinforced cement concrete. Rate includes all cost of material, labor charges at the plant, cost of reinforcement, formwork and lifting accessories, and transportation up to work at the site. Rate excludes unloading the material at site, lids, and lift. All work up to plinth level: making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting, etc.the work exciting as per the direction of Engineer in-Charge Note: Rate shall also include technical assistance for the installation of products at one time		**0.00**
17.19.1	800	P.Rmt.	**5966.00**
17.19.2	1000	P.Rmt.	**7852.00**
17.19.3	1200	P.Rmt.	**10250.00**
17.19.4	1800	P.Rmt.	**17628.00**
17.19.5	2000	P.Rmt.	**19133.00**
17.19.6	2250	P.Rmt.	**24616.00**
17.19.7	2500	P.Rmt.	**26512.00**
17.20	Providing and fixing factory-made precast RCC Chambers and covers, having of strength not less than M-50, using Thermo-Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement, As per standard size reinforced , all as per direction of Engineer-in-charge.		**0.00**
17.20.1	Chamber - (1000 X 1000 X 1000) Wall Width up to 250mm	P.Rmt.	**30851.00**
17.20.2	Chamber - (1000 X 1000 X 1200) Wall Width up to 250mm	P.Rmt.	**35300.00**
17.20.3	Chamber - (1000 X 1000 X 1400) Wall Width up to 250mm	P.Rmt.	**41754.00**
17.20.4	Chamber - (1000 X 1000 X 1600) Wall Width up to 250mm	P.Rmt.	**46401.00**
17.20.5	Chamber - (1000 X 1000 X 1800) Wall Width Up to 250mm	P.Rmt.	**50407.00**
17.20.6	Chamber - (1000 x 1000 x 2000) Wall Width up to 250mm	P.Rmt.	**53731.00**
17.20.7	Chamber - (1000 X 1000 X 800) Wall Width up to 250mm	P.Rmt.	**24202.00**
17.20.8	Chamber - (600 X 600 X 1000) Wall Width up to 140mm	P.Rmt.	**15157.00**
17.20.9	Chamber - (600 X 600 X 1200) Wall Width up to 140mm	P.Rmt.	**17470.00**
17.20.10	Chamber - (600 X 600 X 1400) Wall Width up to 140mm	P.Rmt.	**19390.00**
17.20.11	Chamber - (600 X 600 X 1600) Wall Width up to 140mm	P.Rmt.	**20815.00**
17.20.12	Chamber - (600 X 600 X 600) Wall Width up to 140mm	P.Rmt.	**9148.00**
17.20.13	Chamber - (600 X 600 X 800) Wall Width up to 140mm	P.Rmt.	**12349.00**
17.20.14	Chamber - (800 X 800 X 1000) Wall Width up to 170mm	P.Rmt.	**14767.00**
17.20.15	Chamber - (800 X 800 X 1200) Wall Width up to 170mm	P.Rmt.	**20509.00**
17.20.16	Chamber - (800 X 800 X 1400) Wall Width up to 170mm	P.Rmt.	**25482.00**
17.20.17	Chamber - (800 X 800 X 1600) Wall Width up to 170mm	P.Rmt.	**27960.00**
17.20.18	Chamber - (800 X 800 X 1800) Wall Width up to 170mm	P.Rmt.	**30066.00**
17.20.19	Chamber - (800 X 800 X 2000) Wall Width Up To 170mm	P.Rmt.	**31698.00**
17.20.20	Chamber - (800 X 800 X 600) Wall Width Up to 170mm	P.Rmt.	**11027.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.20.21	Chamber - (800 X 800 X 800) Wall Width Up to 170mm	P.Rmt.	**15322.00**
17.20.22	Chamber 1000 Cover - (1144 X 1144 X 150)	P.Rmt.	**7455.00**
17.20.20	Chamber 800 Cover (744 X 744 X 140)	P.Rmt.	**3455.00**
17.20.24	Chamber 600 Cover (122 X 2) (471 X 120 X 944)	P.Rmt.	**2602.00**
17.21	Providing and Fixing in position precast reinforced cement concrete FT-Flume as per design and shape, using coerce aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland lag cement, admixtures In recommended proportion as per IS: 456-2000 and standard like lndlan standard, International standards viz. Japanese Industrial Standards (JIS)/ UG standard/EU standard/ having of strength not less than M-50. using Thermo-Mechanically Treated bare. (TMT/TMX) FE SOOD or mora confirming to IS 1786 reinforcement bar and capable of carrying a wheel load of 5.0 Tones for heavy vehicle movement. Precast reinforced cement concrete drains using, Stormwater/roadside drain, etC. Rate Includes all cost of material, labor charges at the plant, cost of reinforcement, formwork and lifting accessories, and transportation upto work at the she Rate excluded unloading the material at sites, llds and llft. All work up to plinth level: making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting, etc. .the work exalting as per the direction of Engineer In-charge. Note:-Rate shall also Include technical assistance for the instaIlatIon of products at one time.		**0.00**
17.21.1	Precast RCC FT-FLUME (HEIGHT-900 Precast) (H1:995)		**0.00**
17.21.1.1	FT Flume Drain (600 X 900 X 2000)	P.Rmt.	**8267.00**
17.21.1.2	FT Flume Drain (700 X 900 X 2000)	P.Rmt.	**8706.00**
17.21.1.3	FT Flume Drain (800 X 900 X 2000)	P.Rmt.	**9136.00**
17.21.1.4	FT Flume Drain (900 x 900 X 2000)	P.Rmt.	**9566.00**
17.21.1.5	FT Flume Drain (1000 X 900 X 2000)	P.Rmt.	**10005.00**
17.21.1.6	FT Flume Drain (1100 X 900 X 2000)	P.Rmt.	**10425.00**
17.21.1.7	FT Flume Drain (1200 X 900 X 2000)	P.Rmt.	**10864.00**
17.21.1.8	FT Flume Drain (1300 X 900 X 2000)	P.Rmt.	**11285.00**
17.21.1.9	FT Flume Drain (1400 X 900 X 2000)	P.Rmt.	**11715.00**
17.21.1.10	FT Flume Drain (1500 X 900 X 2000)	P.Rmt.	**12145.00**
17.21.1.11	FT Flume Drain (1600 X 900 X 2000)	P.Rmt.	**12565.00**
17.21.1.12	FT Flume Drain (1700 X 900 X 2000)	P.Rmt.	**12986.00**
17.21.1.13	FT Flume Drain (1800 X 900 X 2000)	P.Rmt.	**13425.00**
17.21.2	Precast RCC FT-FLUME (HEIGHT-1000 Precast) Wall Width 90mm (H1: 1105)		**0.00**
17.21.2.1	FT Flume Drain (800 X 1000 X 2000)	P.Rmt.	**8871.00**
17.21.2.2	FT Flume Drain (900 X 1000 X 2000)	P.Rmt.	**9346.00**
17.21.2.3	FT Flume Drain (1000 X 1000 X 2000)	P.Rmt.	**9813.00**
17.21.2.4	FT Flume Drain (1100 X 1000 X 2000)	P.Rmt.	**10288.00**
17.21.2.5	FT Flume Drain (1200 X 1000 X 2000)	P.Rmt.	**10755.00**
17.21.2.6	FT Flume Drain (1300 x 1000 X 2000)	P.Rmt.	**11230.00**
17.21.2.7	FT Flume Drain (1400 x 1000 X 2000)	P.Rmt.	**11696.00**
17.21.2.8	FT Flume Drain (1500 x 1000 X 2000)	P.Rmt.	**12172.00**
17.21.2.9	FT Flume Drain (1600 x 1000 X 2000)	P.Rmt.	**12648.00**
17.21.2.10	FT Flume Drain (1700 x 1000 X 2000)	P.Rmt.	**13123.00**
17.21.2.11	FT Flume Drain (1800 x 1000 X 2000)	P.Rmt.	**13589.00**
17.21.2.12	FT Flume Drain (1900 x 1000 X 2000)	P.Rmt.	**14065.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.21.2.13	FT Flume Drain (2000 x 1000 X 2000)	P.Rmt.	**14403.00**
17.21.3	Precast RCC FT-FLUME (HEIGHT-1200 Precast) Wall Width 90mm (H1: 1310)		**0.00**
17.21.3.1	FT Flume Drain (800 x 1200 X 2000)	P.Rmt.	**11203.00**
17.21.3.2	FT Flume Drain (900 x 1200 X 2000)	P.Rmt.	**11696.00**
17.21.3.3	FT Flume Drain (1000 x 1200 X 2000)	P.Rmt.	**12172.00**
17.21.3.4	FT Flume Drain (1100 x 1200 X 2000)	P.Rmt.	**12693.00**
17.21.3.5	FT Flume Drain (1200 x 1200 X 2000)	P.Rmt.	**13196.00**
17.21.3.6	FT Flume Drain (1300 x 1200 X 2000)	P.Rmt.	**13699.00**
17.21.3.7	FT Flume Drain (1400 x 1200 X 2000)	P.Rmt.	**14056.00**
17.21.3.8	FT Flume Drain (1500 x 1200 X 2000)	P.Rmt.	**14559.00**
17.21.3.9	FT Flume Drain (1600 x 1200 X 2000)	P.Rmt.	**15044.00**
17.21.3.10	FT Flume Drain (1700 x 1200 X 2000)	P.Rmt.	**15537.00**
17.21.3.11	FT Flume Drain (1800 x 1200 X 2000)	P.Rmt.	**16031.00**
17.21.3.12	FT Flume Drain (1900 x 1200 X 2000)	P.Rmt.	**16534.00**
17.21.3.13	FT Flume Drain (2000 x 1200 X 2000)	P.Rmt.	**17010.00**
17.21.4	Precast RCC FT-FLUME (HEIGHT-1300 Precast) Wall Width 100mm (H1: 1420)		**0.00**
17.21.4.1	FT Flume Drain (800 X 1300 X 2000)	P.Rmt.	**13882.00**
17.21.4.2	FT Flume Drain (900 X 1300 x 2000)	P.Rmt.	**14284.00**
17.21.4.3	FT Flume Drain (1000 X 1300 X 2000)	P.Rmt.	**14824.00**
17.21.4.4	FT Flume Drain (1100 X 1300 X 2000)	P.Rmt.	**15364.00**
17.21.4.5	FT Flume Drain (1200 x 1300 X 2000)	P.Rmt.	**15894.00**
17.21.4.6	FT Flume Drain (1300 x 1300 X 2000)	P.Rmt.	**16434.00**
17.21.4.7	FT Flume Drain (1400 x 1300 X 2000)	P.Rmt.	**16964.00**
17.21.4.8	FT Flume Drain (1500 x 1300 X 2000)	P.Rmt.	**17513.00**
17.21.4.9	FT Flume Drain (1600 x 1300 X 2000)	P.Rmt.	**18052.00**
17.21.4.10	FT Flume Drain (1700 x 1300 X 2000)	P.Rmt.	**18583.00**
17.21.4.11	FT Flume Drain (1800 x 1300 X 2000)	P.Rmt.	**19122.00**
17.21.4.12	FT Flume Drain (1900 x 1300 X 2000)	P.Rmt.	**19653.00**
17.21.4.13	FT Flume Drain (2000 x 1300 X 2000)	P.Rmt.	**20192.00**
17.21.5	Precast RCC FT-FLUME (HEIGHT-1400 Precast) Wall Width 100mm (H1: 1530)		**0.00**
17.21.5.1	FT Flume Drain (800 x 1400 X 2000)	P.Rmt.	**15364.00**
17.21.5.2	FT Flume Drain (900 x 1400 X 2000)	P.Rmt.	**15958.00**
17.21.5.3	FT Flume Drain (1000 x 1400 X 2000)	P.Rmt.	**16534.00**
17.21.5.4	FT Flume Drain (1100 x 1400 X 2000)	P.Rmt.	**17129.00**
17.21.5.5	FT Flume Drain (1200 x 1400 X 2000)	P.Rmt.	**17705.00**
17.21.5.6	FT Flume Drain (1300 x 1400 X 2000)	P.Rmt.	**18290.00**
17.21.5.7	FT Flume Drain (1400 x 1400 X 2000)	P.Rmt.	**18866.00**
17.21.5.8	FT Flume Drain (1500 x 1400 X 2000)	P.Rmt.	**19451.00**
17.21.5.9	FT Flume Drain (1600 x 1400 X 2000)	P.Rmt.	**20037.00**
17.21.5.10	FT Flume Drain (1700 x 1400 X 2000)	P.Rmt.	**20613.00**
17.21.5.11	FT Flume Drain (1800 x 1400 X 2000)	P.Rmt.	**21198.00**
17.21.5.12	FT Flume Drain (1900 x 1400 X 2000)	P.Rmt.	**21783.00**
17.21.5.13	FT Flume Drain (2000 x 1400 X 2000)	P.Rmt.	**22360.00**
17.21.6	Precast RCC FT-FLUME (HEIGHT-1500 Precast) Wall Width 100mm (H1: 1640)		**0.00**
17.21.6.1	FT Flume Drain (800 X 1500 X 2000)	P.Rmt.	**16717.00**
17.21.6.2	FT Flume Drain (900 X 1500 X 2000)	P.Rmt.	**17339.00**
17.21.6.3	FT Flume Drain (1000 x 1500 X 2000)	P.Rmt.	**17970.00**
17.21.6.4	FT Flume Drain (1100 x 1500 X 2000)	P.Rmt.	**18592.00**
17.21.6.5	FT Flume Drain (1200 x 1500 X 2000)	P.Rmt.	**19214.00**
17.21.6.6	FT Flume Drain (1300 x 1500 X 2000)	P.Rmt.	**19845.00**
17.21.6.7	FT Flume Drain (1400 x 1500 X 2000)	P.Rmt.	**20467.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.21.6.8	FT Flume Drain (1500 x 1500 X 2000)	P.Rmt.	**21088.00**
17.21.6.9	FT Flume Drain (1600 x 1500 X 2000)	P.Rmt.	**21719.00**
17.21.6.10	FT Flume Drain (1700 x 1500 X 2000)	P.Rmt.	**22341.00**
17.21.6.11	FT Flume Drain (1800 x 1500 X 2000)	P.Rmt.	**22972.00**
17.21.6.12	FT Flume Drain (1900 x 1500 X 2000)	P.Rmt.	**23603.00**
17.21.6.13	FT Flume Drain (2000 x 1500 X 2000)	P.Rmt.	**24225.00**
17.21.7	Precast RCC FT-FLUME (HEIGHT-1600 Precast) Wall Width 100mm (H1:1740)		**0.00**
17.21.7.1	FT Flume Drain (800 X 1600 X 2000)	P.Rmt.	**18107.00**
17.21.7.2	FT Flume Drain (900 x 1600 X 2000)	P.Rmt.	**18729.00**
17.21.7.3	FT Flume Drain (1000 x 1600 X 2000)	P.Rmt.	**19360.00**
17.21.7.4	FT Flume Drain (1100 x 1600 X 2000)	P.Rmt.	**19982.00**
17.21.7.5	FT Flume Drain (1200 x 1600 X 2000)	P.Rmt.	**20604.00**
17.21.7.6	FT Flume Drain (1300 x 1600 X 2000)	P.Rmt.	**21244.00**
17.21.7.7	FT Flume Drain (1400 x 1600 X 2000)	P.Rmt.	**21866.00**
17.21.7.8	FT Flume Drain (1500 x 1600 X 2000)	P.Rmt.	**22488.00**
17.21.7.9	FT Flume Drain (1600 x 1600 X 2000)	P.Rmt.	**23119.00**
17.21.7.10	FT Flume Drain (1700 x 1600 X 2000)	P.Rmt.	**23740.00**
17.21.7.11	FT Flume Drain (1800 x 1600 X 2000)	P.Rmt.	**24371.00**
17.21.7.12	FT Flume Drain (1900 x 1600 X 2000)	P.Rmt.	**25002.00**
17.21.7.13	FT Flume Drain (2000 x 1600 X 2000)	P.Rmt.	**25313.00**
17.21.8	Precast RCC FT-FLUME (HEIGHT-1800 Precast) Wall Width 135mm (H1:1970)		**0.00**
17.21.8.1	FT Flume Drain (900 X 1800 X 2000)	P.Rmt.	**27755.00**
17.21.8.2	FT Flume Drain (1000 X 1800 X 2000)	P.Rmt.	**28505.00**
17.21.8.3	FT Flume Drain (1100 x 1800 X 2000)	P.Rmt.	**29273.00**
17.21.8.4	FT Flume Drain (1200 X 1800 x 2000)	P.Rmt.	**30032.00**
17.21.8.5	FT Flume Drain (1300 x 1800 X 2000)	P.Rmt.	**30800.00**
17.21.8.6	FT Flume Drain (1400 x 1800 X 2000)	P.Rmt.	**31569.00**
17.21.8.7	FT Flume Drain (1500 x 1800 X 2000)	P.Rmt.	**32328.00**
17.21.8.8	FT Flume Drain (1600 x 1800 X 2000)	P.Rmt.	**33096.00**
17.21.8.9	FT Flume Drain (1700 x 1800 X 2000)	P.Rmt.	**33096.00**
17.21.8.10	FT Flume Drain (1800 x 1800 X 2000)	P.Rmt.	**34623.00**
17.21.8.11	FT Flume Drain (1900 x 1800 X 2000)	P.Rmt.	**35391.00**
17.21.8.12	FT Flume Drain (2000 x 1800 X 2000)	P.Rmt.	**36159.00**
17.21.8.13	FT Flume Drain (2500 x 1800 X 2000)	P.Rmt.	**39982.00**
17.22	Providing and fixing factory-made precast RCC U-shape drain (Precast FT Flume) drain covers, having of strength not less than M-50, using Thermo-Mechanically Treated bars. (TMT/TMX) FE 500D or more conforming to IS 1786 reinforcement bar As per standard size reinforced with 8 mm dia main longitudinal & 6 mm nos cross-sectional T.M.T hoop bars, including providing 50 mm dia perforations @ 2 nos, all as per direction of Engineer-in-charge.		
17.22.1	FT Flume Lid W1000 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**5760.00**
17.22.2	FT Flume Lid W1000 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**5680.00**
17.22.3	FT Flume Lid W1000 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**6080.00**
17.22.4	FT Flume Lid W1000 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**5980.00**
17.22.5	FT Flume Lid W1100 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**6260.00**
17.22.6	FT Flume Lid W1100 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**6180.00**
17.22.7	FT Flume Lid W1100 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**6580.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.22.8	FT Flume Lid W1100 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**6460.00**
17.22.9	FT Flume Lid W1200 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**6760.00**
17.22.10	FT Flume Lid W1200 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**6680.00**
17.22.11	FT Flume Lid W1200 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**7060.00**
17.22.12	FT Flume Lid W1200 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**6980.00**
17.22.13	FT Flume Lid W1300 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**7260.00**
17.22.14	FT Flume Lid W1300 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**7160.00**
17.22.15	FT Flume Lid W1300 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**7560.00**
17.22.16	FT Flume Lid W1300 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**7460.00**
17.22.17	FT Flume Lid W1400 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**10120.00**
17.22.18	FT Flume Lid W1400 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**10000.00**
17.22.19	FT Flume Lid W1400 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**10520.00**
17.22.20	FT Flume Lid W1400 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**10380.00**
17.22.21	FT Flume Lid W1500 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**10760.00**
17.22.22	FT Flume Lid W1500 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**10620.00**
17.22.23	FT Flume Lid W1500 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**11160.00**
17.22.24	FT Flume Lid W1500 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**11040.00**
17.22.22	FT Flume Lid W1600 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**11400.00**
17.22.26	FT Flume Lid W1600 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**11260.00**
17.22.27	FT Flume Lid W1600 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**11800.00**
17.22.28	FT Flume Lid W1600 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**11680.00**
17.22.29	FT Flume Lid W1700 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**12060.00**
17.22.30	FT Flume Lid W1700 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**11920.00**
17.22.31	FT Flume Lid W1700 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**12460.00**
17.22.32	FT Flume Lid W1700 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**12320.00**
17.22.33	FT Flume Lid W1800 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**12680.00**
17.22.34	FT Flume Lid W1800 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**12560.00**
17.22.35	FT Flume Lid W1800 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**13100.00**
17.22.36	FT Flume Lid W1800 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**12960.00**
17.22.37	FT Flume Lid W1900 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**13320.00**
17.22.38	FT Flume Lid W1900 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**13200.00**
17.22.39	FT Flume Lid W1900 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**13740.00**
17.22.40	FT Flume Lid W1900 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**13600.00**
17.22.41	FT Flume Lid W2000 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**13960.00**
17.22.42	FT Flume Lid W2000 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**13840.00**
17.22.43	FT Flume Lid W2000 (H-1800) (No Hole) LID width 130 mm	P.Rmt.	**14380.00**
17.22.44	FT Flume Lid W2000 (H-1800) (With Hole) LID width 130 mm	P.Rmt.	**14260.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.22.45	FT Flume Lid W600 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**3800.00**
17.22.46	FT Flume Lid W600 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**3700.00**
17.22.47	FT Flume Lid W700 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**4280.00**
17.22.48	FT Flume Lid W700 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**4200.00**
17.22.49	FT Flume Lid W800 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**4780.00**
17.22.50	FT Flume Lid W800 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**4700.00**
17.22.51	FT Flume Lid W900 (H-1300 to 1600) (No Hole) LID width 130 mm	P.Rmt.	**5280.00**
17.22.52	FT Flume Lid W900 (H-1300 to 1600) (With Hole) LID width 130 mm	P.Rmt.	**5200.00**
17.23	Supply of high performance specialized additive in powder form that helps in retaining water in concrete system for extended period of time thereby allowing the internal curing to happen without necessity of external water curing and use of curing compund in cement concrete flooring / cement concrete roads plain or RCC works . It is required in specified ratio @ 2% (1 kg additive in 50 kgs cement for use) by weight of cementitious material that makes the concrete curing free, reduction in shrinkage and reduced water permeability. It shall attain upto 50% strength in first 48 hours.	P.Kg	**110.00**
17.24	Supply of additive of Chemically Engineered high performance mineral additive in powder form to reduce permeability of water and other corrosive chemicals increase early/ultimate strength, reduce shrinkage in cement concrete flooring/ cement plaster/ Cement Concrete Road, Plain or RCC work & water retaining works, Quantity required as per Design Mix of Concrete @ 0.7% to 1.0% by weight of Cement.	Per 500 gm pack	**26.00**
17.25	Providing and Laying Treatment of Wear and Tear Concrete surface with pre-mixed, high performance, curing free, quick setting ready to use cement mortar for repairing of pot holes with minimum 25mm depth and without cutting the panel so that traffic can be mobilized in 4 hours. The high performance Ready Mix Concrete Mortar should be curing free and able to achieve compressive strength of 10 Mpa within 4 hours and bond strength of 4 Mpa within 24 hours, non shrink and non toxic.	P.Cum	**79480.00**
17.26	Repair of Surface defects in existing cement concrete pavement surface by providing and laying treatment of wear & tear concrete surface with pre-mixed, ready to use, geopolymer based mortar & confirming to ASTM C 1600 upto 10 mm thickness with following property– Curing Free, compressive strength of 15 MPa within 2 hours, Quick Setting, bond strength of 4 MPa within 24 hours and repaired surface should be ready to use within 3 hours. Note : (This item is to be used in only emergency situation after decided by Engineer in charge)	P.Sqm	**3221.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.27	Providing and laying treatment of wear & tear of concrete surface with pre-mixed, ready to use, high performance, curing free, quick-setting ready to use geopolymer mortar for repairing of potholes on concrete surface by cutting the panel in a regular shape with minimum 50 mm depth so that traffic can be mobilized in 4 hours. The high performance mortar should be curing free, achieve compressive strength of 20 MPa within 4 Hours and 35 MPa within 24 Hours achieve bond strength of 4 MPa within 24 Hours, non shrink and non toxic. The methodology includes proper excavation and chipping of surface, cutting the panel in regular shape using concrete cutting tools and break hammer, removal of all loose particles, application of advanced bonding compound and maintaining proper thickness during application. For large area casting, expansion joints need to be maintained at an interval of every 1.8 meters.	P.Sqm	**5588.00**
17.28	Add extra for every additional thickness of 10mm	P.Sqm	**1197.00**
17.29	Supply and Fixing of Pre-Stressed Concrete (Grade M-40) Sign Board having size 900 mm x 600 mm of Thickness 50 mm duly framed with two posts of Pre-stressed Concrete (grade of M-40) size 150 mm x 150 mm of 2 m long above the GL and 900 mm embedded in ground in cement concrete block of 450 mm dia of 600 mm long of M-30 grade concrete as per approved drawing by Engineer-In-Charge including painting with black/white water proof cement paint 2 or more coat with all lead & lift carriage, labour all T & P complete in all respect. The facia of board shall be provide with letters & boarder as approved by Engineer-In-Charge	Each	**3629.00**
17.30	Raised Payment Marker (Cats Eye): Supplying and Fixing of Molded Shank Raised Pavement Markers made of ABS Moulded body and Polycarbonate Reflective panels with Micro Prismatic Lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 35000 Kilogram tested in accordance to ASIM D 4280 & ASTM D 788. The Height of Road Stud is 20mm, Width 100mm, Length 100mm and minimum reflective area of 13 sqcm on each side.The Strength of detachment of the integrated cylender shank not less than 14+/-2mm (Thickness) and height not less than 30+ 2mm from the body. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive	Each	**150.00**
17.31	Sprinkling of water around Helipad as direction given by engineer-in-charge	KL	**180.00**
17.32	Providing & covering by GOBAR LAP on Helipad as direction given by engineer-in-charge	Sqm	**24.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.33	Providing & Inserting indigenously manufactured Prefabricated Vertical Drain with Polypropylene core and wrapped with Non-woven geotextile in the very soft clay for Quick consolidation :		
17.33.1	a) Type-A (TFI-Tech drain TD3520F) with Polypropylene core and wrapped with non-woven geotextile, minimum 100mm width & 4mm core thickness. As per the approved comparative Statement.	RPM	**102.00**
17.33.2	Labour rate	RPM	**16.00**
17.33.3	b) Type-B (TFI-Tech drain TD5020F) with Polypropylene core and wrapped with non-woven geotextile, minimum 100mm width & 5mm core thickness. As per the approved comparative Statement.	RPM	**117.00**
17.33.4	Labour rate	RPM	**16.00**
17.34	Providing & Laying CE Marked Needle Punched and Mechanically Bonded Non-Woven Geotextile Indigenously manufactured from high quality Polypropylene stable fibres (Continuous filament will not be accepted) on the prepared subgrade for seperator cum filtration cum drainage application with necessary overlaps as per drawing.		
17.34.1	a) Type I (TFI-TechGeo PR15), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**126.00**
17.34.2	Labour rate	Sqm	**38.00**
17.34.3	b) Type II (TFI-TechGeo PR20), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**143.00**
17.34.4	Labour rate	Sqm	**38.00**
17.34.5	c) Type III (TFI-TechGeo PR25), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**161.00**
17.34.6	Labour rate	Sqm	**38.00**
17.34.7	d) Type IV (TFI-TechGeo PR30), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**177.00**
17.34.8	Labour rate	Sqm	**38.00**
17.34.9	e) Type V (TFI-TechGeo PR40), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**240.00**
17.34.10	Labour rate	Sqm	**38.00**
17.34.11	f) Type VI (TFI-TechGeo PR50), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**291.00**
17.34.12	Labour rate	Sqm	**38.00**
17.34.13	g) Type VII (TFI-TechGeo PR60), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**337.00**
17.34.14	Labour rate	Sqm	**38.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.35	Providing & Laying Fibreglass Geogrid of Indigenously manufactured from high quality glaa fibre strands and coated with a polymer modified bitumen as reinforcement to asphalt overlay flexible pavements and asphalt over distressed rigid PCC pavements.		
17.35.1	a) Type 50 (TFI-Techglass 50 kN x 50 kN) Minimum width of 2.5 Meter/5.0 meter. As per the approved comparative Statement.	Sqm	**188.00**
17.35.2	Labour rate	Sqm	**38.00**
17.35.3	b) Type 100 (TFI-Techglass 100 kN x 100 kN) Minimum width of 2.5 Meter/5.0 meter. As per the approved comparative Statement.	Sqm	**273.00**
17.35.4	Labour rate	Sqm	**38.00**
17.35.5	c) Type 200 (TFI-Techglass 100 kN x 200 kN) Minimum width of 2.5 Meter/5.0 meter. As per the approved comparative Statement.	Sqm	**345.00**
17.35.6	Labour rate	Sqm	**38.00**
17.36	Providing & Laying CE Marked woven multifilament Polyster Geotextile Indigenously manufactured from high quality Polyster filament yarns for soil reinforcement and stabilisation on the prepared subgrade with necessary overlaps and as per drawing.		
17.36.1	a) Type A (TFI 3100 : 100 kN/m x 50 kN/m), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**151.00**
17.36.2	Labour rate	Sqm	**38.00**
17.36.3	b) Type B (TFI 3200 : 200 kN/m x 50 kN/m), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**188.00**
17.36.4	Labour rate	Sqm	**38.00**
17.37	Providing & Laying CE Marked Knitted and PVC coated Polyster Biaxial Geogrid for Basal Reinforcement Indigenously manufactured from selected high tenacity polyster yarn with high molecular weight (>25000 g/mol), and low carboxyl end group (<30mmol.Kg) for soil reinforcement application for stabilisation, requirement of geogrid strength in both direction and granular fill (extruded PP geogrid & Polyster strips & Geostrips & Steel Strips not allowed), Coating of Geogrid/Reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating is not accepted.		
17.37.1	a) Type I = TFI-TechGeo TGB 30 (30 kN/mx30 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**164.00**
17.37.2	Labour rate	Sqm	**38.00**
17.37.3	b) Type II = TFI-TechGeo TGB 40 (40 kN/mx 40 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**188.00**
17.37.4	Labour rate	Sqm	**38.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.37.5	c) Type III = TFI-TechGeo TGB 60 (60 kN/mx 60 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**239.00**
17.37.6	Labour rate	Sqm	**38.00**
17.37.7	d) Type IV = TFI-TechGeo TGB 90 (90 kN/mx 90 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**292.00**
17.37.8	Labour rate	Sqm	**38.00**
17.37.9	e) Type V = TFI-TechGeo TGB 100 (100 kN/mx 100 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**310.00**
17.37.10	Labour rate	Sqm	**38.00**
17.37.11	f) Type VI = TFI-TechGeo TGB 150 (150 kN/mx 150 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**349.00**
17.37.12	Labour rate	Sqm	**38.00**
17.38	Providing & Laying Reinforced Non-Woven composite Indigenously manufactured from Needle punched Polypropylene Non-woven Geotextile (Continuous filament non wiven geotextile will not be accepted) Reinforced with high tenacity Polyster yarn on the prepared subgrade for separator cum filteration cum reinforcement application.		
17.38.1	a) Type A (TFI-TGC 60 kN/m x 60 kN/m), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**250.00**
17.38.2	Labour rate	Sqm	**38.00**
17.38.3	b) Type B (TFI-TGC 90 kN/m x 90 kN/m), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**310.00**
17.38.4	Labour rate	Sqm	**38.00**
17.39	Providing & Laying CE Marked Knitted and PVC coated Polyster Uniaxial Geogrid, Indigenously manufactured from selected high tenacity polyster yarn with high molecular weight (>25000 g/mol), and low carboxyl end group (<30mmol./Kg) for reinforcement soil wall & reinforced slope application with granular fill as per design prepared by technical provider of reinforced earth wall and slope (Reinforced geosynthetic product of extruded PP geogrids & Polyster strips & Geostrips & Steel strips not allowed & not accepted), The reinforced earth wall and slope should have 100% coverage pf knitted and PVC coated polyster Uniaxial Geogrid. (Coating of Geogrid and Geosynthetic reinforcing material with LDPE, Latex, Bitumen and any other coating will not be allowed).		
17.39.1	a) Type I (TFI-TechGrid TGU 40) (40 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**159.00**
17.39.2	Labour rate	Sqm	**38.00**
17.39.3	b) Type II (TFI-TechGrid TGU 60) (60 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**151.00**
17.39.4	Labour rate	Sqm	**38.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.39.5	c) Type III (TFI-TechGrid TGU 80) (80 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**188.00**
17.39.6	Labour rate	Sqm	**38.00**
17.39.7	d) Type IV (TFI-TechGrid TGU 100) (100 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**218.00**
17.39.8	Labour rate	Sqm	**38.00**
17.39.9	e) Type V (TFI-TechGrid TGU 120) (120 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**249.00**
17.39.10	Labour rate	Sqm	**38.00**
17.39.11	f) Type VI (TFI-TechGrid TGU 150) (150 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**286.00**
17.39.12	Labour rate	Sqm	**38.00**
17.39.13	g) Type VII (TFI-TechGrid TGU 200) (200 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**353.00**
17.39.14	Labour rate	Sqm	**38.00**
17.39.15	h) Type VIII (TFI-TechGrid TGU 250) (250 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**394.00**
17.39.16	Labour rate	Sqm	**38.00**
17.39.17	h) Type VIII (TFI-TechGrid TGU 300) (300 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**430.00**
17.39.18	Labour rate	Sqm	**38.00**
17.39.19	h) Type VIII (TFI-TechGrid TGU 350) (350 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**461.00**
17.39.20	Labour rate	Sqm	**38.00**
17.39.21	h) Type VIII (TFI-TechGrid TGU 400) (400 kN/m Ultimate tensile strength), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**497.00**
17.39.22	Labour rate	Sqm	**38.00**
17.40	Providing & Laying Woven Polypropylene multifilament Geotextile of Indigenously manufactured from multifilament Polypropylene yarn on the prepared subgrade (CBR less than 3%) as per separator cum drainage cum reinforcement with necessary overlaps as per drawings.		
17.40.1	a) Type I (TFI 1100), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**110.00**
17.40.2	Labour rate	Sqm	**20.00**
17.40.3	b) Type II (TFI 1200), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**126.00**
17.40.4	Labour rate	Sqm	**20.00**
17.40.5	c) Type III (TFI 1300), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**133.00**
17.40.6	Labour rate	Sqm	**20.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.41	Providing and laying CE Marked Woven Polypropylene Geotextile indigenously manufactured from black UV stabilized polypropylene flat tape/ fibrillated tape yarns on the prepared subgrade (CBR less than 3%) as a separator cum Reinforcement with necessary overlaps having minimum 5 years Performance certificate from any State PWD and as per drawings		
17.41.1	a) Type I (TFI 5100), Minimum width 5.3 meter. As per the approved comparative Statement.	Sqm	**110.00**
17.41.2	Labour rate	Sqm	**38.00**
17.41.3	b) Type II (TFI 5200), Minimum width 5.3 meter. As per the approved comparative Statement.	Sqm	**126.00**
17.41.4	Labour rate	Sqm	**38.00**
17.41.5	c) Type III(TFI 5300), Minimum width 5.3 meter. As per the approved comparative Statement.	Sqm	**150.00**
17.41.6	Labour rate	Sqm	**38.00**
17.42	Providing and Laying Needle punched and mechanically bonded Non-woven paving Fabric indigenously manufactured from high quality polypropylene stable fibres (continuous filament will not be accepted)over a tack coat of paving grade bitumen 80-100 preparation, laid at the rate of 1 kg per sq.mtr over thoroughly cleaned and repaired surface to provide a water resistant membrane and crack retarding layer.Paving fabric to be laid before cooling of tack coat,brooming and rolling of surface with pnematic roller to maximise paving fabric contact with pavement surface as per drawing and product approval certificate from M/s CRRI,New Delhi.		
17.42.1	a) TechPave (TFI TechPave C040), Minimum width 5.0 meter. As per the approved comparative Statement.	Sqm	**160.00**
17.42.2	Labour rate	Sqm	**38.00**
17.43	Providing and Fixing Gabions of only TFI made of mechanically waven hexagonal shaped wire mesh of type,10x12cm with edges selvedge made of heavily(Zinc+PVC) coated GI wires as per BS:443,mesh wire 2.70mm 0 of only TFI/ TechBox type filled with 20kg to 50 kg weight trap stones including conveying with all the leads & lifts and placing at required places in required line,level,slope,section as directed etc to complete Reinforced Earth Walls & Slopes as per Drawing		
17.43.1	a)TechBox (TFI-Steel Wire gabion of size 1.00Mx1.00Mx1.00M	Cum	**3056.00**
17.43.2	Labour rate	Cum	**76.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
17.44	Providing and laying only CE Marked Knitted and PVC coated Polyester Uniaxial Geogrid- Techgrid indegeniously manufactured from selected high tenacity polyester yarn with high molecular weight (>25000 g/mol), and low carboxyl end group(<30mmol/kg) for Reinforced soil wall (Reinforcing Geosynthetic product material of extruded PP geogrids & polyester strips & Geosynthetic & Steel strips not allowed) with granular fill of PHi-32 degree (design is to be carried out in accordance with BS-8006/FHWA)with concrete block (M35)as facia,casting & erection of blocks with techgrid, providing and laying of levelling pad of M15, Providing and laying coping beam (M35),Providing and laying 600mm thick filtermedia etc. completed as per the necessary drawing and instruction of Engineer In Charge. Excluding providing, laying and compacting selected backfill and retained fill behind the wall, excavation and ground improvement, if any. The reinforced earth wall and slope should have 100% coverage of 5m width Knitted and PVC coated polyester Geogrid.(Coating of Geogrid/Reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted).		
17.44.1	(a) PVC coated polyester geogrid-Techgrid 1 meter to 4 meter.	Sqm	**5821.00**
17.44.2	Labour rate	Sqm	**1615.00**
17.44.3	(b) PVC coated polyester geogrid-Techgrid 4 meter to 6 meter.	Sqm	**6306.00**
17.44.4	Labour rate	Sqm	**1646.00**
17.44.5	(c) PVC coated polyester geogrid-Techgrid 6 meter to 8 meter.	Sqm	**7034.00**
17.44.6	Labour rate	Sqm	**1646.00**
17.44.7	(d) PVC coated polyester geogrid-Techgrid 8 meter to 10 meter.	Sqm	**8228.00**
17.44.8	Labour rate	Sqm	**1646.00**
17.44.9	(e) PVC coated polyester geogrid-Techgrid 10 meter to 12 meter.	Sqm	**8544.00**
17.44.10	Labour rate	Sqm	**1646.00**
17.44.11	(f) PVC coated polyester geogrid-Techgrid 12 meter to 14 meter.	Sqm	**9416.00**
17.44.12	Labour rate	Sqm	**1646.00**
17.44.13	(f) PVC coated polyester geogrid-Techgrid 14 meter to 16 meter.	Sqm	**10440.00**
17.44.14	Labour rate	Sqm	**1646.00**

17.45 Carriage of material from quarry / crusher to work site including loading, unloading and stacking all complete.

NOTE

1. Rates are for net quantities after deduction of voids
2. Part of Km beyond 1 Km. will be treated as under :
   1.499 = 1.00 Km. 1.501 Km. = 2.00 Km
3. The rates are inclusive of loading and unloading
4. The rates are inclusive stacking if stacking not required no deduction shall be made

Chapter Code No.	Description	Unit	Rates										
			Up to 50 M	Add for each 50 M (upto 500 M)	For 500 M (0.5 Km.)	For 1 Km.	Add for each 1 Km beyond Ist Km (upto 5 Km.)	For 5 Km.	Add for each 1 Km beyond 5 Km (upto 10 Km.)	For 10 Km.	Add for each 1 Km beyond 10 Km (upto 20 Km.)	For 20 Km.	Add for each 1 Km beyond 20 Km
1	2	3	4	5	6	7	8	9	10	11	12	13	14
(i)	Earth, Sand, Lime, Morrum manure or sludge	Cum	17.60	3.30	47.30	50.60	3.30	63.80	3.15	79.55	2.95	109.05	2.64
(ii)	Building Rubbish Stone metal (Grit and ballast etc.)	Cum	33.00	3.60	65.40	69.00	3.30	82.20	3.15	97.95	2.95	127.45	2.64
(iii)	Stone for Masonry work & soiling	Cum	33.00	3.95	68.55	72.50	3.95	88.30	3.30	104.80	2.95	134.30	2.64
(iv)	Excavated Rock	Cum	33.00	4.25	71.25	75.50	4.60	93.90	3.95	113.65	3.50	148.65	3.30
(v)	Bricks	1000 Nos	55.00	7.90	126.10	134.00	7.90	165.60	7.55	203.35	7.25	275.85	6.60
(vi)	Brick Tiles	1000 Nos	55.00	4.95	99.55	104.50	5.90	128.10	5.60	156.10	5.25	208.60	4.60
(vii)	Cement, Stone blocks pipes and other heavy materials	MT	44.00	5.25	91.25	96.50	2.60	106.90	2.30	118.40	2.20	140.40	1.95
(viii)	Steel, Tar bitumen and Timber	MT	44.00	6.50	102.50	109.00	3.30	122.20	2.95	136.95	2.64	163.35	1.95
(ix)	Empty bitumen drums	10 Nos	11.00	1.95	28.55	30.50	1.95	38.30	1.95	48.05	1.65	64.55	1.30
(x)	Carriage with care Precast cement concrete blocks like Dand & kerbs etc weighing												
a	Upto 50 Kg.	Each	--	--	--	4.60	0.44	6.36	0.55	9.11	0.33	12.41	0.33
b	51 to 70 Kg.	Each	--	--	--	6.60	0.55	8.80	0.55	11.55	0.33	14.85	0.33
c	71 to 100 Kg.	Each	--	--	--	7.90	0.83	11.22	0.55	13.97	0.33	17.27	0.33
(xi)	R.C.C. Hume Pipe with collar												
a	Dia 300 mm	Mtr.	--	--	22.00	26.40	0.65	29.00	0.55	31.75	0.33	35.05	0.33
b	Dia 600 mm	Mtr.	--	--	55.00	66.00	1.30	71.20	1.65	79.45	1.30	92.45	0.65
c	Dia 750 mm	Mtr.	--	--	88.00	105.60	2.60	116.00	2.30	127.50	1.95	147.00	1.30
d	Dia 900 mm	Mtr.	--	--	132.00	138.60	3.30	151.80	2.95	166.55	2.30	189.55	0.55
e	Dia 1000 mm	Mtr.	--	--	143.00	158.40	3.55	172.60	3.30	189.10	2.50	214.10	1.85
f	Dia 1200 mm	Mtr.	--	--	154.00	178.00	3.95	193.80	3.95	213.55	2.60	239.55	1.95

PART : B : BRIDGE WORKS

Chapter - 01 to 06

Part : B : (Bridges)
Chapter B - 1
EARTHWORK FOR BRIDGES

Item No.	Description	Unit	Adopted rate for BSR 2025
1	**2**	**3**	**6**
1	Earth work in excavation for foundation of structure complete with all lift, dewatering, shoring and shuttering etc. including refilling of trenches in 250 mm layers, ramming, watering and disposal of surplus earth with all lifts and lead upto 1000 meters exclusive of compensation of earth as per MoRTH specification Clause 301 to 305.		
1.1	**In ordinary soil Depth upto 3 metre**		
1.1.1	Depth upto 3 metre	Cum	**190.00**
1.1.2	Depth above 3 metre & upto 6 metre	Cum	**225.00**
1.1.3	Depth above 6 metre	Cum	**275.00**
1.1.2	**In hard soil**		
1.1.2.1	Depth upto 3 metre	Cum	**252.00**
1.1.2.2	Depth above 3 metre & upto 6 metre	Cum	**297.00**
1.1.2.3	Depth above 6 metre	Cum	**340.00**
1.1.3	**In hard soil mixed with kankar,boulders etc. upto 20%**		
1.1.3.1	Depth upto 3 metre	Cum	**275.00**
1.1.3.2	Depth above 3 metre & upto 6 metre	cum	**340.00**
1.1.3.3	Depth above 6 metre	Cum	**430.00**
1.1.4	**In hard soil mixed with kankar,boulders etc. above 20%**		
1.1.4.1	Depth upto 3 metre	Cum	**350.00**
1.1.4.2	Depth above 3 metre & upto 6 metre	cum	**430.00**
1.1.4.3	Depth above 6 metre	Cum	**530.00**
1.1.5	**By blasting including blasting material**		
1.1.5.1	in soft rock	Cum	**480.00**
1.1.5.2	in hard rock	Cum	**620.00**
1.1.6	**By chieseling/wedging out rock where blasting is prohibited**		
1.1.6.1	in soft rock	Cum	**1243.00**
1.1.6.2	in hard rock	Cum	**1877.00**
1.1.7	**In marshy soil upto 3 metre depth**	Cum	**382.00**
1.2	Sand filling with compaction in wells complete as per drawing and technical specification as per MoRTH Specification : Section 1210	Cum	**660.00**
1.3	Back filling behind abutment, wing wall and return wall in 150mm layers, with mechanical compaction, complete with all lead and lift as per drawing and technical specification as per MoRTH Specification : Clause : 304		
1.3.1	Gravelly material	Cum	**604.00**
1.3.2	Sandy material	Cum	**350.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	**2**	**3**	**6**
1.4	Providing and laying of **Filter media** with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MoRT&H specifications with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technical specification including all material, labour, machinery as per clause 710.1.4 of IRC:78 and clause 2200 of MoRT&H specification.	Cum	**780.00**

Part : B : (Bridges)
Chapter B-2
FOUNDATION

Item No.	Description	Unit	Adopted rate for BSR 2025
1	**2**	**3**	**6**
2.1	Brick masonry work in cement mortar 1:3 with mechanical mixer for foundation (any level) complete, including all scaffolding etc. but excluding pointing and plastering as per drawing and technical specification as per MoRTH Specification : Section 1000,1300	Cum	**4400.00**
2.2	Stone masonry work in cement mortar 1:3 with mechanical mixer for foundation (any level) complete, including all scaffolding etc. but excluding pointing and plastering as per drawing and technical specification as per MoRTH Specification : Section 1000,1400		
2.2.1	Coursed rubble masonry (first sort)	Cum	**3720.00**
2.2.2	Random rubble masonry	Cum	**3510.00**
2.3	Providing and laying Cement concrete for plain/reinforced concrete in open foundation as per drawing and technical specification as per MoRTH Specification : Section 1500, 1700 & 2100 including form work at any level.		
2.3.1	P.C.C. grade M15	Cum	**3750.00**
2.3.2	P.C.C. grade M20	Cum	**4220.00**
2.3.3	P.C.C. grade M25	Cum	**4550.00**
2.3.4	P.C.C. grade M30	Cum	**4610.00**
2.3.5	P.C.C. grade M35	Cum	**4720.00**
2.3.6	P.C.C. grade M40	Cum	**4760.00**
2.3.7	R.C.C. grade M20	Cum	**4270.00**
2.3.8	R.C.C. grade M25	Cum	**4650.00**
2.3.9	R.C.C. grade M30	Cum	**4730.00**
2.3.10	R.C.C. grade M35	Cum	**4750.00**
2.4	Providing and laying cutting edge of mildsteel weighing 40 kg per meter for well foundation at designed level complete as per drawing & technical specification as per MoRTH Specification : Section 1200 & 1900	Tonne	**70900.00**
2.5	Cement Concrete for plain/reinforced concrete in open foundation at any level, complete as per drawing and technical specifications as per MoRTH Specification : Section 1200, 1500 & 1700 including formwork etc.		
2.5.1	**Well curb**		
2.5.1.1	R.C.C. grade M20	Cum	**5000.00**
2.5.1.2	R.C.C. grade M25	Cum	**5400.00**
2.5.1.3	R.C.C. grade M30	Cum	**5500.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
2.5.1.4	R.C.C. grade M35	Cum	**5600.00**
2.5.2	**Well steining**		
2.5.2.1	P.C.C. grade M15	Cum	**4150.00**
2.5.2.2	P.C.C. grade M20	Cum	**4500.00**
2.5.2.3	P.C.C. grade M25	Cum	**4840.00**
2.5.2.4	P.C.C. grade M30	Cum	**4880.00**
2.5.2.5	R.C.C. grade M20	Cum	**4500.00**
2.5.2.6	R.C.C. grade M25	Cum	**4860.00**
2.5.2.7	R.C.C. grade M30	Cum	**4940.00**
2.5.2.8	R.C.C. grade M35	Cum	**5060.00**
2.5.2.9	R.C.C. grade M40	Cum	**5200.00**
2.5.3	**Bottom plug** including forming sump protective bunds chieselling and making arrangement for under water connecting with tremie pipe etc.		
2.5.3.1	P.C.C. grade M20	Cum	**5040.00**
2.5.3.2	P.C.C. grade M25	Cum	**5370.00**
2.5.3.3	P.C.C. grade M30	Cum	**5400.00**
2.5.3.4	P.C.C. grade M35	Cum	**5500.00**
2.5.4	**Top/Intermediate plug**, including protective works and dewatering etc.		
2.5.4.1	P.C.C. grade M15	Cum	**4400.00**
2.5.4.2	P.C.C. grade M20	Cum	**4750.00**
2.5.4.3	P.C.C. grade M25	Cum	**5080.00**
2.5.4.4	P.C.C. grade M30	Cum	**5170.00**
2.5.5	**Well Cap**		
2.5.5.1	R.C.C. grade M20	Cum	**4170.00**
2.5.5.2	R.C.C. grade M25	Cum	**4610.00**
2.5.5.3	R.C.C. grade M30	Cum	**4670.00**
2.5.5.4	R.C.C. grade M35	Cum	**4720.00**
2.5.5.5	R.C.C. grade M40	Cum	**4830.00**
2.6	Sinking of well (other than pneumatic method of sinking) through all types of strata complete as per drawing and technical specification as per MoRTH : Section 1200		
2.6.1	6 metre external diametre		
2.6.1.1	Depth below bed level **upto 3.00 metre** in :		
2.6.1.1.1	a) Sandy soil	Metre	**4607.00**
2.6.1.1.2	b) Clayey soil	Metre	**6659.00**
2.6.1.1.3	c) Soft rocks	Metre	**16206.00**
2.6.1.2	**Add** on item no 6.1.1 for depth beyond **3 metre and upto 10 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil	Metre	**4%**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
2.6.1.3	**Add** on item no 6.1.1 for depth beyond **10 metre and upto 20** metre for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.1.3.1	a) Sandy soil	Metre	**5%**
2.6.1.3.2	b) Clayey soil without dewatering	Metre	**5%**
2.6.1.3.3	c) Clayey rocks with dewatering	Metre	**10%**
2.6.1.4	**Add** on item no 6.1.1 for depth **beyond 20 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.1.4.1	i)Sandy soil without kentledge	Metre	**7.5%**
2.6.4.1.2	ii)Sandy soil with kentledge	Metre	**27.5%**
2.6.1.4.3	i)Clayey soil without dewatering and kentledge	Metre	**7.5%**
2.6.1.4.4	ii)Clayey soil with dewatering but without kentledge	Metre	**12.5%**
2.6.1.4.5	iii)Clayey soil without dewatering with kentledge	Metre	**32.5%**
2.6.2	**7 metre external diametre**		
2.6.2.1	Depth below bed level **upto 3.00 metre** in :		
2.6.2.1.1	a) Sandy soil	Metre	**7060.00**
2.6.2.1.2	b) Clayey soil	Metre	**9514.00**
2.6.2.1.3	c) Soft rocks	Metre	**14340.00**
2.6.2.2	**Add** on item no 6.2.1 for depth beyond **3 metre and upto 10 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil	Metre	**4%**
2.6.2.3	**Add** on item no 6.2.1 for depth beyond **10 metre and upto 20** metre for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.2.3.1	Sandy soil	Metre	**5%**
2.6.2.3.2	Clayey soil without dewatering	Metre	**5%**
2.6.2.3.3	Clayey soil with dewatering	Metre	**10%**
2.6.2.4	**Add** on item no 6.2.1 for depth **beyond 20 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.2.4.1	i)Sandy soil without kentledge	Metre	**7.5%**
2.6.2.2.2	ii)Sandy soil with kentledge	Metre	**27.5%**
2.6.2.2.3	i)Clayey soil without dewatering and kentledge	Metre	**7.5%**
2.6.2.2.4	ii)Clayey soil with dewatering but without kentledge	Metre	**12.5%**
2.6.2.2.5	iii)Clayey soil without dewatering with kentledge	Metre	**32.5%**
2.6.3	8 metre external diametre		

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
2.6.3.1	Depth below bed level **upto 3.00 metre** in :		
2.6.3.1.1	a)Sandy soil	Metre	**9514.00**
2.6.3.1.2	b)Clayey soil	Metre	**11650.00**
2.6.3.1.3	c)Soft rocks	Metre	**15980.00**
2.6.3.2	**Add** on item no 6.3.1 for depth beyond **3 metre and upto 10 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil	Metre	**5%**
2.6.3.3	**Add** on item no 6.3.1 for depth beyond **10 metre and upto 20** metre for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.3.3.1	Sandy soil	Metre	**5%**
2.6.3.3.2	Clayey soil without dewatering	Metre	**5%**
2.6.3.3.3	Clayey soil with dewatering	Metre	**10%**
2.6.3.4	**Add** on item no 6.3.1 for depth **beyond 20 metre** for every additional metre depth of sinking over the rate of sinking for the previous metre for sandy/clayey soil		
2.6.3.4.1	i)Sandy soil without kentledge	Metre	**7.5%**
2.6.3.4.2	ii)Sandy soil with kentledge	Metre	**27.5%**
2.6.3.4.3	i)Clayey soil without dewatering and kentledge	Metre	**7.5%**
2.6.3.4.4	ii)Clayey soil with dewatering but without kentledge	Metre	**12.5%**
2.6.3.4.5	iii)Clayey soil without dewatering with kentledge	Metre	**32.5%**
2.7	Sand filling with compaction in wells complete as per drawing and technical specification as per MoRTH Specification : Section 1207	Cum	**700.00**
2.8	Providing structural steel liner upto 10mm thick for curbs, steining for wells and piles including fabricating and setting out as per detailed drawing as per MoRTH Specification : Section 1200 & 1900	Tonnes	**69830.00**
2.9	Bored/cast-in-situ piles complete as per drawing and technical specification as per MoRTH Specification : Section 1100, 1600 & 1700 **excluding reinforcement.**		
2.9.1	**600 mm** dia pile		
2.9.1.1	R.C.C.grade M20	Metre	**3800.00**
2.9.1.2	R.C.C. grade M25	Metre	**4000.00**
2.9.1.3	R.C.C. grade M30	Metre	**4200.00**
2.9.1.4	R.C.C. grade M35	Metre	**4350.00**
2.9.2	**750 mm** dia pile		
2.9.2.1	R.C.C.grade M20	Metre	**4280.00**
2.9.2.2	R.C.C. grade M25	Metre	**4400.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
2.9.2.3	R.C.C. grade M30	Metre	**4500.00**
2.9.2.4	R.C.C. grade M35	Metre	**4600.00**
2.9.3	**1000mm** dia pile		
2.9.3.1	R.C.C.grade M20	Metre	**6870.00**
2.9.3.2	R.C.C. grade M25	Metre	**7040.00**
2.9.3.3	R.C.C. grade M30	Metre	**7140.00**
2.9.3.4	R.C.C. grade M35	Metre	**8570.00**
2.9.4	**1200mm** dia pile		
2.9.4.1	R.C.C.grade M20	Metre	**8250.00**
2.9.4.2	R.C.C. grade M25	Metre	**8500.00**
2.9.4.3	R.C.C. grade M30	Metre	**8900.00**
2.9.4.4	R.C.C. grade M35	Metre	**9200.00**
2.10	**Load testing of pile**		
2.10.1	Initial and routine test for vertical load testing of pile. Pile load test on single vertical pile in accordance with IS:2911(Part-IV) 2013 (note: Initial load test/ routine test includes Bored/cast-in-situ pile/ ancore pile etc with rcc and reinforcement as per design)	Tonne load	**850.00**
2.10.2	For lateral load testing of pile	Each pile	**27000.00**
2.11	Non destructive Integrated testing of cast-in-situ pile using pile deriving analyzer or equivalent as detailed in specification and as approved by Engineer.	Nos	**1800.00**
2.12	Driven cast-in-place vertical RCC piles complete as per drawing and technical specification as per MoRTH Specification : Section : 1100, 1600 & 1700 **excluding reinforcement.**		
2.12.1	**550mm dia pile**		
2.12.1.1	R.C.C.grade M20	Metre	**2350.00**
2.12.1.2	R.C.C. grade M25	Metre	**2520.00**
2.12.1.3	R.C.C. grade M30	Metre	**2640.00**
2.12.2	**500mm dia pile**		
2.12.2.1	R.C.C.grade M20	Metre	**2190.00**
2.12.2.2	R.C.C. grade M25	Metre	**2240.00**
2.12.2.3	R.C.C. grade M30	Metre	**2340.00**
2.12.3	**450mm dia pile**		
2.12.3.1	R.C.C.grade M20	Metre	**1700.00**
2.12.3.2	R.C.C. grade M25	Metre	**1750.00**
2.12.3.3	R.C.C. grade M30	Metre	**1850.00**
2.13	Providing and laying steel reinforcement at any level in foundation/ pile/ pile cap complete as per drawing and clause 1600 of MoRT&H Specification including all material, labour and machinery.		

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
2.13.1	The structural steel to be used should be Primary Steel manufactured and approved by Engineering in charged		
2.13.1.1	Mild Steel reinforcement	Tonnes	**83160.00**
2.13.1.2	FE 415/500 Steel reinforcement	Tonnes	**78430.00**
2.13.1.3	TMT Steel reinforcement	Tonnes	**79610.00**
2.13.2	The structural steel to be used should be used ballot by Primary Steel manufactured and approved by Engineering in charged		
2.13.2.1	Mild Steel reinforcement	Tonnes	**80000.00**
2.13.2.2	FE 415/500 Steel reinforcement	Tonnes	**78430.00**
2.13.2.3	TMT Steel reinforcement	Tonnes	**79610.00**
2.14	Reinforced cement concrete in pile cap complete at all levels with steel formwork etc. as per drawing and technical specification as per MoRTH Specification : 1100, 1500 & 1700		
2.14.1.1	R.C.C. grade M25 Structural concrete	Cum	**4700.00**
2.14.1.2	R.C.C. grade M30 Structural concrete	Cum	**4950.00**
2.14.1.3	R.C.C. grade M35 Design mix concrete	Cum	**4900.00**
2.14.1.4	R.C.C. grade M40 Design mix concrete	Cum	**4950.00**
2.15	Add if the bottom level of pile cap is below the water table, for under water concreting/ dewaterning/shoring, [MoRTH Specification: 1100(N),1500(N),1700(N)]	Cum	20%
2.16	If the pile cap rests on ground add for levelling course as per MoRTH Specification : 1100, 1500 & 1700	Cum	**3200.00**

Part : B : (Bridges)
Chapter B-3
SUBSTRUCTURE

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
3.1	Brick masonry work with first vlass bricks (Minimum 10.5MPa) in cement mortar 1:3 with mechnical mixer for foundation complete including all scaffolding etc. excluding pointing and plastering as per drawing and technical specification as per MoRTH Specification : Section 1000,1300		
3.1.1	Upto 5 metre height	Cum	**4150.00**
3.1.2	Above 5 metres height	Cum	**4400.00**
3.2	Stone masonry work in cement mortar 1:3 with mechnical mixer for foundation complete including all scaffolding etc. excluding pointing and plastering as per drawing and technical specification as per MoRTH Specification : Section 1000,1400		
3.2.1	**Coursed rubble masonry (first sort)**		
3.2.1.1	Upto 5 metre height	Cum	**4080.00**
3.2.1.2	Above 5 metres height	Cum	**4450.00**
3.2.2	**Random rubble masonry (coursed/uncoursed)**		
3.2.2.1	Upto 5 metre height	Cum	**3640.00**
3.2.2.2	Above 5 metres height	Cum	**3840.00**
3.3	Structural Cement concrete for plain concrete/ reinforced concrete for substructure at any level, complete as per drawing and technical specification. Using Batching Plant, Transit Mixture, and Concrete Pump. Design mix concrete - [MoRTH Specification : Clause 1500&1700] R.C.C including formwork		
3.3.1	P.C.C. grade M15 upto 5 metre height	Cum	**4050.00**
3.3.2	P.C.C. grade M20 upto 5 metre height	Cum	**4500.00**
3.3.3	P.C.C. grade M25 upto 5 metre height	Cum	**4860.00**
3.3.4	P.C.C. grade M25 above 5 metre & upto 10 metre height	Cum	**5070.00**
3.3.5	P.C.C. grade M25 above 10 metre height	Cum	**5370.00**
3.3.6	P.C.C. grade M30 upto 5 metre height	Cum	**4900.00**
3.3.7	P.C.C. grade M30 above 5 metre & upto 10 metre height	Cum	**5070.00**
3.3.8	P.C.C. grade M30 above 10 metre height	Cum	**5440.00**
3.3.9	P.C.C. grade M35 upto 5 metre height	Cum	**5050.00**
3.3.10	P.C.C. grade M35 above 5 metre & upto 10 metre height	Cum	**5170.00**
3.3.11	P.C.C. grade M35 above 10 metre height	Cum	**5500.00**
3.3.12	P.C.C. grade M40 upto 5 metre height	Cum	**5170.00**
3.3.13	P.C.C. grade M40 above 5 metre & upto 10 metre height	Cum	**5390.00**
3.3.14	P.C.C. grade M40 above 10 metre height	Cum	**5650.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
3.3.15	R.C.C. grade M20 upto 5 metre height	Cum	**4500.00**
3.3.16	R.C.C. grade M20 above 5 metre & upto 10 metre height	Cum	**4650.00**
3.3.17	R.C.C. grade M20 above 10 metre height	Cum	**4950.00**
3.3.18	R.C.C. grade M25 upto 5 metre height	Cum	**4950.00**
3.3.19	R.C.C. grade M25 above 5 metre & upto 10 metre height	Cum	**4950.00**
3.3.20	R.C.C. grade M25 above 10 metre height	Cum	**5150.00**
3.3.21	R.C.C. grade M30 upto 5 metre height	Cum	**4950.00**
3.3.22	R.C.C. grade M30 above 5 metre & upto 10 metre height	Cum	**4950.00**
3.3.23	R.C.C. grade M30 above 10 metre height	Cum	**5250.00**
3.3.24	R.C.C. grade M35 upto 5 metre height	Cum	**5300.00**
3.3.25	R.C.C. grade M35 above 5 metre & upto 10 metre height	Cum	**5350.00**
3.3.26	R.C.C. grade M35 above 10 metre height	Cum	**5650.00**
3.4	Pointing of any design with cement mortar 1:3 on Brick work in substructure at any height as per MoRTH Specification: Clause 1309	10 Sqm	**1137.00**
3.5	Supplying, fitting and placing reinforcement in sub structure/ superstructure at all level complete as per drawing and clause 1600 & 2200 of MoRT&H Specification including all material, labour, machinary etc.		
3.5.1	The structural steel to be used should be Primary Steel manufactured and approved by Engineering in charged		
3.5.1.1	Mild Steel reinforcement	Tonnes	**100100.00**
3.5.1.2	FE 415/500D HYSD Steel reinforcement	Tonnes	**101200.00**
3.5.1.3	TMT Steel reinforcement	Tonnes	**102300.00**
3.5.2	The structural steel to be used should be used ballot by Primary Steel manufactured and approved by Engineering in charged		
3.5.2.1	Mild Steel reinforcement	Tonnes	**91000.00**
3.5.2.2	FE 415/500D HYSD Steel reinforcement	Tonnes	**92000.00**
3.5.2.3	TMT Steel reinforcement	Tonnes	**93000.00**
3.6	Supplying, fitting and fixing in position true to line and level Cast Steel Rocker Bearing conforming to IRC:83 (Part-I -Section IX) complete including all accessories as per drawing and technical specification as per MoRTH Specification : Section : 2000	Tonne Capcity	**260.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
3.7	Supplying, fitting and fixing in positon true to line and level Forged Steel Roller Bearing conforming to IRC:83 (Part-I-Section IX) complete including all accessories as per drawing and technical specification as per MoRTH Specification Section 2000	Tonne Capcity	**430.00**
3.8	Supplying, fitting and fixing in position true to line and level Sliding Plate Bearing with PTFE surface sliding on stainless steel complete including all accessories as per drawing and technical specfication and BS:5400, Section 9.1 &9.2 (for PTFE) as per MoRTH specification 2000(N)	Tonne Capcity	**550.00**
3.9	Supplying, fitting & fixing in positon true to line & level,Elastromeric Bearing conforming to IRC:83 (Part II-Section IX) complete including all acce-ssories as per drawing & technical specification as per MoRTH Specfication Section 2000	Cm^3	**0.72**
3.10	Supplying, fitting & fixing in position true to line & level, POT-PTFE Bearing suitable for biaxial movement as per drawing & BS:5400 Sections 9.1 & 9.2 as per MoRTH Specification Section 2000	Tonne Capcity	**392.00**
3.11	Supplying, fitting and fixing in position true to line and level, Sliding Plate Bearing with stainless steel plate sliding on stainless steel plate with mild steel matrix as per MoRTH Specfication : Section 2000	Tonne Capacity	**410.00**
3.12	P&F on culverts/ bridges deck rain water spouts made of cast iron as per MoRTH specification complete	each	**1550.00**
3.13	Providing A.C pipe Weep holes 150mm dia in Masonry/Plain Concrete/.Reinforced Concrete abutment, wing wall/return wall complete as per drawing and technical specfication as per MoRTH Specification Clause 2205	Metre	**220.00**
3.14	Providing and laying Expansion Joint complete as per drawing and technical specification		
3.14.1	With 20mm thick Galvanized mild steel plate as per MoRTH Specification : Section 2100, 2600	Metre	**1200.00**
3.14.2	With corrugated copper plate, compressible fibre board, pre-moulded joint filter and joint sealing compound as per MoRTH Specfication section 2600		
3.14.2.1	Providing and fixing 2mm thick corrugated copper plate in expansion joint complete.	Sqm	**10400.00**
3.14.2.2	Providing and fixing 20mm thick compressible fibre board in expansion joint complete.	Sqm	**909.00**
3.14.2.3	Providing & Fixing in position 20mm thick pre-moulded joint filler in expansion joint complete.	Sqm	**420.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
3.14.2.4	Providing and filling joint sealing compound -Coarse sand with bitumen (6% by weight)	Metre per Cms depth	**17.98**
3.14	Providing, laying and fixing of strip seal expansion joint catering to maximum horizontal movement upto 70 mm complete as per approved drawings and as per clause 2600 of MoRT&H specifications to be installed by manufacturer's authorized representative ensuring to compliance to manufacturer's instruction for installation including preparing the edges of bridge, welding to exposed reinforcement, concreting with design mix of grade of bridge or M-35 whichever is richer including all material, labour, machinery etc complete.	Metre	**12500.00**

Part : B : (Bridges)
Chapter B-4
SUPER STRUCTURE

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.1	Structural Cement concrete for reinforced concrete in superstructure at any level complete including steel formwork, scaffolding etc. as per drawing and technical specification as per Design mix MoRTH Specification 1500 & 1700.		
4.1.1	M 25 grade solid slab superstructure	Cum	**5350.00**
4.1.2	M 25 grade T-beam and slab superstructure	Cum	**5500.00**
4.1.3	M 25 grade box girder and balanced cantilever superstructure	Cum	**6480.00**
4.1.4	M 30 grade solid slab superstructure	Cum	**5500.00**
4.1.5	M 30 grade T-beam and slab superstructure	Cum	**5700.00**
4.1.6	M 30 grade box girder and balanced cantilever superstructure	Cum	**6600.00**
4.1.7	M 35 grade solid slab superstructure	Cum	**5600.00**
4.1.8	M 35 grade T-beam and slab superstructure	Cum	**5920.00**
4.1.9	M 35 grade box girder and balanced cantilever superstructure	Cum	**6700.00**
4.1.10	M 40 grade solid slab superstructure	Cum	**6450.00**
4.1.11	M 40 grade T-beam and slab superstructure	Cum	**6860.00**
4.1.12	M 40 grade box girder and balanced cantilever superstructure	Cum	**7700.00**
4.2	Cement concrete for prestressed concrete in superstructre at any level with steel formwork and scaffolding complete as per drawing and technical specification as per MoRTH Specification: 1500 & 1700		
4.2.1	M35 grade girder and slab superstructure.	Cum	**6450.00**
4.2.2	M35 grade box girder and balanced cantilever bridge superstructure.	Cum	**7580.00**
4.2.3	M 40 grade girder and slab superstructure.	Cum	**7200.00**
4.2.4	M 40 grade box girder and balanced cantilever bridge superstructure.	Cum	**8300.00**
4.2.5	M 45 grade girder and slab superstructure.	Cum	**6900.00**
4.2.6	M 45 grade box girder and balanced cantilever bridge superstructure.	Cum	**7900.00**
4.2.7	M50 grade girder and slab superstructure.	Cum	**9368.00**
4.2.8	M50 grade box girder and balanced cantilever bridge superstructure.	Cum	**10773.00**
4.3	Providing and laying Steel reinforcement at any level in foundation complete as per drawing and technical Specification as per MoRTH Specification : Section: 1600		

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.3.1	The structural steel to be used should be Primary Steel manufactured and approved by Engineering in charged		
4.3.1.1	Mild Steel reinforcement	Tonne	**101200.00**
4.3.1.2	FE 415/500D HYSD Steel reinforcement	Tonne	**102600.00**
4.3.1.3	TMT Steel reinforcement	Tonne	**103900.00**
4.3.2	The structural steel to be used should be used ballot by Primary Steel manufactured and approved by Engineering in charged		
4.3.2.1	Mild Steel reinforcement	Tonne	**92000.00**
4.3.2.2	FE 415/500D HYSD Steel reinforcement	Tonne	**93300.00**
4.3.3.3	TMT Steel reinforcement	Tonne	**94500.00**
4.4	Providing and laying High tensile steel wires/ strands at any level including all accessories for stressing, stressing operations and grouting complete as per drawing and technical specification as per MoRTH Specification 1800	Tonne	**95000.00**
4.5	Reinforced cement concrete wearing coat M30 grade at any level including formwork and reinforcement complete as per drawing and technical specification as per MoRTH Specification 2202, 1500 &1700	Cum	**6920.00**
4.6	Providing and laying 25mm thick bitumen mastic wearing coat with bitumen of grade S 35 as per Table 500-27, 15% by weight on prepared base including the coarse aggregate as per table 500-29, and lime stone powder as filler, complete including tack coat as per MoRTH specification : clause 515	Sqm	**720.00**
4.7	Providing and laying reinfored Cement Concrete grade M30 design mix railing complete as per drawing and technical specification as per MoRTH Specification :1500, 1600 & 1700	Metre	**1210.00**
4.8	Providing and fixing Mild steel railing, galvanised or painted, complete as per drawing and technical specification as per MoRTH Specification : 1900 & 2703	Metre	**1420.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.9	"Fabrication, Welding, Riveting, olting by HSFG bolts wherever required, supply, transportation to site, Assembling, Launching, Erecting of steel girder spans as per drawings and specifications approved by Railway and department for composite construction i.e. (Steel +RCC) of superstructure of the Road Over Bridge with contractor's own mild steel confirming to IS: 2062 Grade 350(E) with all welds, rivets, nuts bolts rivet materials, weld materials, HSFG bolts, service bolts, with other ancillary steel structures fixed to the girder where necessary in proper level and alignment and as per technical specifications. etc. with contractor's own materials, fabrication, machinery, templates, fixtures, equipments tools and plants, transportation to site, skilled/ unskilled labour, excise duty., Octroi, sales tax and other taxes, all leads and lifts, descent, loading, unloading, crossing one or more Railway track if required etc. complete and as per technical specifications. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before their assembly. The structural steel to be used should be manufactured by SAIL/ RINL/ TISCO/ ESSAR/ JINDAL only. For Painting prior approval for superior brand/ make of the paint should be taken from engineer in charge. "The rate shall be inclusive of supply, erection and dismantling of staging and scaffolding and other temporary arrangements required for the purpose of assembly, erection and launching of girders. The rate shall also be inclusive of cold straightening of deformed and bent girder parts before/after their assembly. "Metalising girder/ girder component such as cross girder, top chord channels, bracing etc of BG new steel	kg	**180.45**
4.10	Providing, precasting, transportation and placing in position at all level precast RCC girder of M40 grade as per drawing and clause 1800 & 2300 of MoRT&H specifications (excluding cost of reinforcement) including all material, labour, machinery (suitable crane).	cum	**10200.00**
4.11	Designing, providing and erection of specified grade Precast RCC facia panels of thickness 180mm made with M-35 Grade concrete batching plant, transit mixer, concrete pump and vibrater for retaining earth with all elements and accessories including reinforcing element complete as per approved drawing and clause 3100 of MoRT&H specifications including all material, labour, machinery etc. (Scope of work includes designing, getting approval, casting in yard, curing, storing, transporting, lifting, placing in position, erection with all necessary fasteners etc complete)	Sqm	**4983.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.12	Providing, placing and compacting to desired density approved backfill material in layers as per approved methodology including testing for reinforced fill portion and random fill portion in the approaches between the Reinforced Soil (RS) Wall panels as per approved drawings as per clause 3103 of MoRT&H specification The soil should be predominately coarse grained not more than 10% of particle should pass 75 micron sieve The item shall be measured and paid for the finished volume of backfill and sub-grade placed in position excluding the volume of filter media at base and behind the RS walls.	Cum	**380.00**
4.13	Load testing of one or more spans of bridge as selected by the Engineer as per approved load test procedure following relevant IS/IRC/Railway codes with contractor's labour, deflection measuring instruments, loading materials, recoding and analyzing the load testing results including all lead & lift, etc. complete as required. The rates are all inclusive and will be paid after load test is finished and girder is cleared of the kentledges /loading material etc. The load shall be 1.25 times the stipulated design load Based on Design load & not span		
4.13.1	For span design load upto 100 MT.	per test	**220000.00**
4.13.2	Extra for increase of 100 MT or part thereof in the span load Extra for increase of 100 MT or part thereof in the span load (Load upto 800MT)	per test	**27500.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.14	Casting ,supplying and transporting upto Bridge site within 50m, pre cast RCC box, base slabs, blast retainer, bed block, etc. of reinforced concrete slabs in M-35 design mix etc.as per approved drawings & design with contractor's own materials such as sand water, 6mm to 20mm well graded machine crushed stone aggregate,admixures etc.including machine mixing of all gradients,placing ,mechanical vibrating curing etc.and providing erecting and dismentaling of staging, centering,shuttering, form work,and providing AC/PVC pipes of approved sizes for weep holes/ drain pipes at spacing as decided by the Engineer -in-charge and handlingwith all lead, lift, depth ascent, doscent, octory, royalty and other texes, etc. including crossing of track, Nallaha, streams or any other obstruction, etc. complete as per instruction of Engineer-in-charge. Note : (i): Payment of steel used will be made seperately under relevant BSR item. (ii) the rates of items includes cost of mix design also.(iii)the rate of item includes the cost of cement also.	Cum	**8000.00**
4.15	Placement of precast reinforced cement concrete segmental box with the help of road crane at desired location carefully by lifting and pecking method during traffic and power block o with all contactor's labour, tools , material, cranes, machinery, preparation of surface as desired by Engineer including filling of joints by epoxy mortar, and laying of required sand including all material and labour tools, plants machinary, etc. with all lead and lift.	MT	**5000.00**
4.16	Dismantling of existing BG under relevant track including trap point of single rail 3 rail panel of 90R/52 Kg with PRC & Other type sleeper of density m+7 including fitting & fastenings & removal of ballast@soil complete including cutting of rails as required as directed by Engineer in charge with Hack saw blade including stacking of released material via rail, sleeper, fittings and fastenings in systematic manner as per direction as per Engineer in charge all lead, lift ascent, descent, crossing of track or any other obstruction as a complete job Nothing shall be paid extra on any account.	per meter track	**70.00**
4.17	Lifting of track(BG) eighth by raising of track in stage of 50 mm including one round packing to make the track fit for 20 kmph speed as per IRPWM manual (for calculation = 6 lifts.)	per meter track	**175.00**

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
4.18	Packing of stones ballast from exacting track . Screening loading up to 40 m and tracking at nominated area by making plot eighth all lead including contractors own tools, labour etc. complete. 8% shrinkage allowance shall be deducted from gross quantity. The removal of ballast shall be commenced with lifting of track under suitable speed restriction.	cum	**55.00**
4.19	Providing boulders/stone backing 600 mm thick behind abutment/wing/return wall. Retaining wall/breast wall of bridges with stone not less than 15 KG (expect smaller stones to be used for filling up the voids) with all leads lifts ascents descents handling. crossing of nallahas, streams and all other obstructions all labour and materials as a complete job, as per railway specifications and as directed by the Engineer in charge. note - payment to be made on stack measured quantity of boulders/stones redacted by 15% to allow for looseness in stacking.	cum	**880.00**
4.20	Laying and linking of MG/BG track in curve/straight over bridges complete job.	per meter track	**82.00**
4.21	Providing 2nd and 3rd packing (2nos) including proper surfacing, aligning, squaring of sleepers etc. Complete job.		
4.21.1	2nd packing including picking up of stacks	per meter track	**18.00**
4.21.2	3rd packing including picking up of stacks	per meter track	**16.00**
4.22	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases including use of chequered plate wherever required, all complete.	kg	**78.00**
4.23	supplying fabrication & erection of all steel member as per IS 800-1984 & other relevant IS code for shelter/height gauge comprising of welded trusses purlin, bracing. Post, girder, column,ladder, barring plate, gusset plate etc. on raising level platform & sheds including cost of providing bolts, nuts, washer & welding where required with lead, lift, ascent/decent as per approved make & as per RDSO design including priming coat of red oxide of approved engineer in charge and painting of two coat with synthetic/aluminum paint as a complete job including all taxes, lead, lift, ascent/decent, crossing of track as a complete job.	kg	**77.00**

Part : B : (Bridges)
Chapter B-5
PROTECTIVE WORKS

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
5.1	Providing and laying specified Apron complete as per drawing and technical specification as per MoRTH Specification : Clause: 2503		
5.1.1	Boulder/Quarry stone weighing not less than 40 kg (specfic gravity not less than 2.65)	Cum	**1040.00**
5.1.2	Boulder/Quarry stone not less than 40 kg in weight, in wire crates, 3x1.5x1.25 metre with wire diametre not less than 4mm mesh not more than 150mm.	Cum	**1430.00**
5.1.3	Cement concrete blocks (in M-15 grade) weighing not less than 40 kg each complete with form work etc as per MoRTH Specification: Clause:2504	Cum	**3400.00**
5.2	Providing and laying graded stone aggregate Filter Material underneath pitching on slopes complete as per drawing and technical Specification as per MoRTH Specification : Clause 2504	Cum	**1420.00**
5.3	Cement concrete blocks (in M-15 grade) weighing not less than 40 kg each complete with form work etc as per MoRTH Specification: Clause:2504		
5.3.1	with R.R Stone, weighing not less than 40 Kg, thickness not less than 150mm (Specfic gravity not less than 2.65)	Cum	**1420.00**
5.3.2	with Cement Concrete block M15 grade, complete with form work etc.as per MoRTH Specification: Clause : 2504, 1700	Cum	**4050.00**
5.4	Providing and laying flooring of Rubble stone/ C.C M15 block over bedding complete as per drawing and technical specification as per MoRTH Specification : Clause 2505,1700		
5.4.1	Rubble stone laid in cement mortar 1:3	Cum	**3500.00**
5.4.2	Cement concrete block of M-15 grade including form work	Cum	**4434.00**
5.4.3	P/L cement concrete M-15 bedding	Cum	**3740.00**
5.5	Providing fixing and erecting 50mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC Series) 100mm x 50mm,1.2m high above ground, 2m centre-to -centre, complete as per approved drawings MoRTH clause 2703	Rmt.	**1810.00**

Part : B : (Bridges)
Chapter B-6
REPAIR AND REHABILITATION

Item No.	Description	Unit	Adopted rate for BSR 2025
1	2	3	6
6.1	Removal of existing cement concrete wearing coat manually or with the help of jack hammers including its disposal within a lead of 1000 metres, complete as per technical specification without causing any detrimental effect to any part of the bridge structure.	Sqm	**473.00**
6.2	Guniting (Minimum density 2T/Cum) on concrete/ masonry surface with wire mesh and cement mortar 1:3, applied with compressor after cleaning surface and applying with epoxy complete as per technical specification. [MoRTH Specification : Clause: 2807]	Sqm	**2410.00**
6.3	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per technical specification including subsequent cutting/removal and sealing of the holes as necessary of nipples after completion of grouting with :		
6.3.1	Cement grout [MoRTH Specification : Clause : 2806]	Each	**131.00**
6.3.2	Epoxy grout [MoRTH Specification: Clause : 2803]	Each	**184.00**
6.4	Sealing of cracks by injection process through nipples complete with material and labour as per drawing and technical specification [MoRTH Specification: Clause:2803]		
6.4.1	Cement grout	Kg	**50.50**
6.4.2	Epoxy grout	Kg	**2600.00**