



ಕರ್ನಾಟಕ ಸರ್ಕಾರ
ಪಂಚಾಯತ್ ರಾಜ್ ಇಂಜಿನಿಯರಿಂಗ್ ಇಲಾಖೆ

GOVERNMENT OF KARNATAKA PANCHAYATH RAJ
ENGINEERING DEPARTMENT

2022ನೇ ಸಾಲಿನ Volume-I & Volume-III ಕರಡು ದರಪಟ್ಟಿಯಲ್ಲಿನ
ಅಂಶಗಳನ್ನು ಹೊರತುಪಡಿಸಿ ಉಳಿದಂತೆ ಅಂಶಗಳಿಗೆ ಗ್ರಾಮೀಣ ರಸ್ತೆಗಳ
ದರಪಟ್ಟಿ

2022 DRAFT SCHEDULE OF RATES RURAL ROADS

Panchayath Raj Engineering Department Items

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
Chapter 1		LOADING, UNLOADING, CARRIAGE CRUSHING OF MATERIALS AND SETTING OUT		
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.	334.00
(ii)		Unloading and Stacking of Bricks by manual means including a lead upto 30 m	1000 Nos.	334.00
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	t	290.00
(ii)		Unloading of Bitumen Drums by Manual Means including a lead upto 30 m	t	267.00
1.7		Loading and Unloading of Timber by manual means		
(i)		Loading of Timber by manual means including a lead upto 30 m	t	432.00
(ii)		Unloading of Timber by manual means including a lead upto 30 m	t	432.00
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	m3	641.00
(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	m3	641.00
1.9		Loading and Unloading of Hume pipe		
(i)		Loading of RCC Hume pipes by mechanical means including a lead upto 30 m		
A.		1000 / 1200 mm dia Hume pipe	per pipe	120.00
B.		750 mm dia Hume pipe	per pipe	72.00
C.		600/450 mm dia Hume pipe	per pipe	51.00
(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	755.00
B.		750 mm dia Hume pipe	per pipe	629.00
C.		600/450 mm dia Hume pipe	per pipe	472.00
(iii)		Unloading of RCC Hume pipes by mechanical means including a lead upto 30 m		
A.		1000/1200 mm dia Hume pipe	per pipe	85.00
B.		750 mm dia Hume pipe	per pipe	51.00
C.		600/450 mm dia Hume pipe	per pipe	36.00

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
Chapter 3		EARTHWORK, EROSION CONTROL AND DRAINAGE		
3.10		Stripping, Storing and Relaying Top Soil from Right-of-Way (R.O.W)	m3	572.00
3.11	302.3.2	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 Technical Specification Clause 302.3.2.	m3	250.00
3.12	309	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 Technical Specification Clause 309.	m2	88.00
3.13	310	Seeding and Mulching		
		Preparation of seed bed on previously laid top soil, furnishing and placing of seeds, fertilizer, mulching material, applying bituminous emulsion @ 0.23 litre per m2 and laying and fixing jute netting, including watering for 3 months all as per Technical Specification Clause 310.	m2	125.00
3.17	304.3	Pre-splitting Rock Excavation Slopes		
		Carrying out excavation in hard rock to achieve 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 Technical Specification Clause 304.3	m2	523.00
3.19(i)	307	Surface Drains in Soil		
		Construction of unlined surface drains of average cross-sectional area 0.40 m2 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 Technical Specification Clause 307.		
(A)		Manual Means	m	113.00
(B)		Mechanical Means	m	18.10

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
3.19(ii)	307	Surface Drains in Ordinary Rock		
		Construction of unlined surface drain of average cross-sectional area 0.4 m ² in ordinary rock to specified lines, grades, levels and dimensions as per approved design and Technical Specification Clause 307. Excavated material to be used in embankment at site.		
(A)		Manual Means	m	170.00
(B)		Mechanical Means	m	38.00
Chapter 4		GRANULAR SUB-BASES, BASES (NON-BITUMINOUS) AND SHOULDERS		
4.7.2(A)	405	Water Bound Macadam Sub-base/base		
		WBM Grading 2 Stone Screening		
		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 2 as per Technical Specification Clause 405.		
		By Manual Means	m ³	2,939.00
4.7.3(A)	405	WBM Grading 3 Stone Screening		
		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 3 as per Technical Specification Clause 405.		
		By Manual Means	m ³	2,874.00
4.8.2.(B)	405	WBM Grading 2 Crushable Screening		
		Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.		
		By Manual Means	m ³	2,543.00

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
Chapter 5		BASES AND SURFACE COURSES (BITUMINOUS)		
5.11	507	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 penetration 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 Technical Specification Clause 507		
		By Manual Means		
		Type B		
		Bitumen (S-65)	sqm	211.00
5.12	508	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 Technical Specification Clause 508		
		By Manual Means		
		Case - II : Type B		
		Bitumen (S-65)	sqm	62.00
Chapter 6		CEMENT CONCRETE PAVEMENT		
6.5	1502	Roller Compacted Concrete Pavement		
		Construction of Roller Compacted Concrete Pavement (RCCP) with coarse and fine aggregates conforming to IS:383, the size of coarse aggregate not exceeding 25 mm with minimum aggregate cement ratio of 5:1 mm and with minimum cement content of 310 kg per cum, aggregate gradation to be as per Table 1500.3 after blending, mixing in concrete mixer at optimum moisture content, transporting to site, laying with wheel barrows or steel pans or with mechanical paver, compacting with 80-100 kN smooth wheel, tandem vibratory roller, to achieve, the designed flexural strength, finishing and curing as per drawings and Technical Specification Clause 1502	m3	7,186.00
Chapter 9		PIPE CULVERTS		
9.3	1101.6	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 1101.6.		
A		1200mm dia	m	8,163.00

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
B		1000mm dia	m	6,153.00
C		750 mm dia	m	3,195.00
9.5	1101.6	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 1101.6.		
(A)		1200 mm dia	m	16,436.00
(B)		1000 mm dia	m	12,376.00
(C)		750 mm dia	m	6,389.00
9.7	1101.6	Laying Cement Concrete Pipe NP3 (buried 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 masonry work in head wall and parapets		
		500 mm dia	m	2,472.00
Chapter 15		MAINTENANCE OF ROADS		
15.5	1907	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 technical specification Clause 1907.	m2	330.00
15.6	1908	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 technical specification Clause 1908.	m	4.55
15.7	1909	Maintenance of Culverts		
(I)		Maintenance of Hume pipe Culvert by way of Clearing, Cleaning, Erosion repair, repairs to cracks, parapet wall and protection work as per drawing and technical specification Clause 1909	One No. Hume Pipe	1,626.00
		Maintenance of Culverts Slab type		
(II)		Maintenance of Slab type Culverts by way of clearing, Cleaning, Erosion repair, repairs to cracks, parapet walls and Protection works as per drawing and technical specification Clause 1909	Culvert	3,462.00
15.8	1910	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 technical specification Clause 1910	m	81.00

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
15.9	1911	Maintenance of Road Signs		
		Maintenance of road signs by way of cleaning and repainting of mandatory / regulatory / cautionary / inforatory and place identifications sign board as per drawings and technical specification Clause 1911	km	1,578.00
15.10	1912	Maintenance of steel and RCC Railing		
(i)		Repair of steel railing to bring it to original shape cleaning and repainting as per drawing and technical specification Clause 1912		
		Steel Railing	m	292.00
(ii)		Repair of RCC railing to bring it to the original shape, cleaning and repainting as per drawings and technical specification Clause 1912		
		RCC Railing	m	1,926.00
15.11	1913	Maintenance of 200 metre and km stones		
		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 technical specification Clause 1913		
(i)		Painting two coats with synthetic enamel paint	km	162.00
(ii)		Printing letters and figures of any shade with synthtic enamel paint of any approved colour to give an even shade	km	847.00
15.12	1915	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 technical specification Clause 1915	one tree	170.00
(ii)		Cutting of shrubs from the road way or with in R.O.W and disposal of shrubs to suitable locations as per technical specifications Clause 1915	each	11.38
(iii)		Trimming of grass and weeds from the shoulders/berms and disposing off the same to suitable locations as per technical specifications Clause 1915	m2	3.79
15.13	1916	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 technical specifications Clause 1916	m2	23.00

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
Chapter 16		OTHER ITEMS(CC Pavement and PMGSY Boards)		
16.1	1501	Providing and constructing 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 1501.2.2 M20 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 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 construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.	m3	6,518.00
16.2	1501	Providing and constructing 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 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 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 construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.	m3	6,733.00
16.3	1701	Providing and Fixing 'Logo' of PMGSY Project		

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
		<p>Providing and fixing of typical PMGSY informatory sign board with Logo as per MORD specifications and drawing.</p> <p>i)The board will be a composite unit consisting of three plates of Aluminium Composite Materials (ACM), material specifications as per Clause 1701.3.7. The top most plate will be in diamond shape of 600mm x 600 mm size, riveted over welded M.S. angle iron frame of 25 mm x 25mm x 5 mm size on back on edges. The middle plate will be 1200 mm x 150 mm size riveted over welded M.S. angle iron frame of 25mm x 25mmx 5 mm size on back on edges. The main lower most plate will be 1500 mm x 600 mm size, riveted over welded M.S. angle iron frame of 25 mm x 25 mm x 5 mm size. Welding of all the sheets over angle iron frame will be done neatly to have plain surface on one side. The angle iron frames of the lower most plate and the middle plate will be welded to two nos. 75 mm x 75 mm (12 SWG) sheet tubes posts placed at 1125 mm apart centre to centre. The top of the middle plate will be flushed with the top of 75 mm dia medium steel tube posts and these posts will be embedded in cement concrete M15 grade blocks of 450 mm x 450 mm x 600 mm below ground level. The height of bottom of the lower most plate will be 1200 mm from normal ground level and the bottom of middle plate will be 100 mm above the top level of the lower most plate. The diamond shaped plate mounted over angle iron frame will be connected to middle plate by square medium steel section of 47 mm x 47 mm thickness 12 SWG having a spacing of 100 mm between the diamond shaped plate and middle plate and this square section will be welded to the bottom point of the</p>		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	14,937.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	15,518.00
16.4		Providing and Fixing 'Logo Board ' of PMGSY at Starting Point		
		<p>Providing and fixing of typical Logo board as per specifications and drawing. Two ACP Sheet of 3mm thick, top and Bottom plate duly welded/bolted with MS Square angle 25mm x25mmx 5mm size on back and on the edges. The Top and Bottom plate will be welded/ bolted to 1 nos 75x75x6 mm square Hollow section duly embedded in cement concrete M15 Grade of 600*600*600 mm, 450 mm below ground level. Retro-Reflecting Sheet as per IRC:67 Clause 1701.3.8.1 fixed over aluminium sheeting. All sections of steel tube will be painted with primer and two coats of epoxy paint as per drawing.</p>		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	9,807.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	10,086.00
16.5	1701	Providing and Fixing 'Logo Board ' of PMGSY at Intermediate Point		

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
		Providing and fixing of typical Logo board as per specifications and drawing. Two ACP Sheet of 3mm thick, top and Bottom plate duly welded/bolted with MS Square angle 25mm x25mmx 5mm size on back and on the edges. The Top and Bottom plate will be welded/ bolted to 1 nos75x75x6 mm square Hallow section duly embedded in cement concrete M15 Grade of 600*600*600 mm, 450 mm below ground level.Retro-Reflecting Sheet as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting.All sections of steel tube will be painted with primer and two coats of epoxy paint as per drawing.		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	9,234.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	9,480.00
16.6	1701	Providing and Fixing 'Citizen Information Board A'		
		Providing and fixing of typical 'Citizen Information Board A" as per specifications and drawing. Two ACP Sheet of 4mm thick having minimum 0.25mm thick aluminum skin both sides and fixed over a back support of Ms plate of 5mm thick. Supported on frame post of 2 no's of MS Suare hallow section 75mmx75mmx6mm which is duly embedded in cement concrete M20 Grade of 600x600x750mm,600mm below ground level.All MS will be stove enameled on both the sides.All sections of framed posts,MS sheet and Stell tubes will be painted with primer and two coats of epoxy paint as per drawing etc..Retro-Reflective Sheet as per IRC 67 fixted over a two no's of Aluminum composite material(ACP) sheeting of size 900x750mm of 4mm thick duly bolted/reveted with MS plate of 5mm thick on backside of ACP Sheet.Including cost and conveyance of all materials,equipment,machinery and labour with all leads and lifts,loading charges charges necessary for satisfactory completion of work as per directed by engineer incharge. (i) For warranty and durability the clause 1701.5 and for maintenance the clause 1911 shall be applicable. (ii) A reference number along with the month and year of installation should be placed on the back of a sign in a contrasting colour or by stamping in characters not exceeding 50 mm in height.485777/2019/Dir(Tech) 7		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	20,470.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	20,494.00
16.7	1701	Providing and Fixing 'Citizen Information Board B'		

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
		<p>Providing and fixing of typical 'Citizen Information Board B" as per specifications and drawing. Two ACP Sheet of 4mm thick having minimum 0.25mm thick aluminum skin both sides and fixed over a back support of Ms plate of 5mm thick. Supported on frame post of 2 no's of MS Suare hallow section 75mmx75mmx6mm which is duly embedded in cement concrete M20 Grade of 600x600x750mm,600mm below ground level.All MS will be stove enameled on both the sides.All sections of framed posts,MS sheet and Stell tubes will be painted with primer and two coats of epoxy paint as per drawing etc..Retro-Reflective Sheet as per IRC 67 fixted over a two no's of Aluminum composite material(ACP) sheeting of size 900x750mm of 4mm thick duly bolted/reveted with MS plate of 5mm thick on backside of ACP Sheet.Including cost and conveyance of all materials,equipment,machinery and labour with all leads and lifts,loading charges charges necessary for satisfactory completion of work as per directed by engineer incharge.</p> <p>(i) For warranty and durability the clause 1701.5 and for maintenance the clause 1911 shall be applicable.</p> <p>(ii) A reference number along with the month and year of installation should be placed on the back of a sign in a contrasting colour or by stamping in characters not exceeding 50 mm in height.485777/2019/Dir(Tech) 7</p>		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	20,435.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	20,988.00
16.8	1701	Providing and Fixing 'Maintenance Information Board ''		

SI No.	MORD Ref.	Specification	Unit	Rate Rs.
		<p>Providing and fixing of typical Maintenance information board as per specifications and drawing. ACP Sheet of 3 mm thick having minimum 0.25mm thick aluminum skin both sides and fixed over a back support of Ms plate of 5mm thick. Supported on frame post of 2 no's of MS Square hollow section 75mmx75mmx6mm which is duly embedded in cement concrete M20 Grade of 600x600x750mm,600mm below ground level.All MS will be stove enameled on both the sides.All sections of framed posts,MS sheet and Stell tubes will be painted with primer and two coats of epoxy paint as per drawing etc..Retro-Reflective Sheet as per IRC 67 fixed over a Aluminum composite material(ACP) sheeting of size 900x1500mm of 3mm thick duly bolted/reveted with MS plate of 5mm thick on backside of ACP Sheet.Including cost and conveyance of all materials,equipment,machinery and labour with all leads and lifts,loading charges charges necessary for satisfactory completion of work as per directed by engineer incharge.</p> <p>(i) For warranty and durability the clause 1701.5 and for maintenance the clause 1911 shall be applicable.</p> <p>(ii) A reference number along with the month and year of installation should be placed on the back of a sign in a contrasting colour or by stamping in characters not exceeding 50 mm in height.485777/2019/Dir(Tech) 7</p>		
A		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.1 Class A Type-1	Each	19,862.00
B		Retro Reflective Traffic Sign As per IRC 67 Clause 1701.3.8.2 Class B Type-3	Each	20,863.00