

Name of Work :- Annual Rate for M & R of Bridge , CD Works & Other Road Structure Under Rajpipla  
(R&B ) DIvision, Rajpipla 2026-27

**(Year 2026-27)**

**Schedule - B**

**Memorandum showing item of Work to be carried out**

<b>Item No</b>	<b>Item Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Estimated rate</b>	<b>In Words</b>	<b>Remarks</b>
[1]	[2]	[3]	[4]		[6]	[7]
1	Job Work for Dismantalling the existing Cross Drainage structure including removing and stacking the dismantelled materials as and where directed (A) R. C. C. work, Brick masonry , UCR masonry, Pipe etc. Complete as per instruction of Engineer In Charge.	1.00	Job			
2	Excavation for foundation upto 1.5 m depth including sortingout and stacking of useful materials and disposing off theexcavated stuff upto 50 Meter lead.(B) Dense or Hard soil	1.00	Cum			
3	Providing and casting in situ Ordinary cement concrete M-150 for R.C.C. Raft and cut-off walls including necessary shuttering laying,vibrating, ramming and curing complete.	1.00	Cum			
4	Supplying and fixing reinforced concrete heavy duty non-pressurepipes with collars for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2watering and laying (to level or slopes) of class NP3 of followinginternal daimeters.(v) 600mm dia.	1.00	Rmt			
5	Supplying and fixing reinforced concrete heavy duty non-pressurepipes with collars for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2watering and laying (to level or slopes) of class NP3 of followinginternal daimeters.(v) 900mm dia.	1.00	Rmt			
6	Supplying and fixing reinforced concrete heavy duty non-pressurepipes with collars for culverts carrying heavy traffic as per IS 458 1991 specifications including setting the pipes in C.M. 1:2watering and laying (to level or slopes) of class NP3 of followinginternal daimeters.(vii) 1200mm dia.	1.00	Rmt			

7	Supplying and fixing reinforced concrete heavy duty non-pressure pipes with collars for culverts carrying heavy traffic as per IS 458 1991 specifications including setting the pipes in C.M. 1:2 watering and laying (to level or slopes) of class NP3 of following internal diameters. (vii) 1600mm dia.	1.00	Rmt			
8	Providing and casting in situ controlled cement concrete M-200 for R.C.C. return as per drawings including centering shuttering, scaffolding where necessary, laying vibrating, curing and finishing complete. (A) Height from 0.0 to 5.0 M. For wall	1.00	Cum			
9	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto all floor	1.00	Kg			
10	Providing TMT Bar FE 550D reinforcement for R.C.C. work including bending, binding and placing in position complete upto all floor	1.00	Kg			
11	Filling around the pipes with murrum including dressing, tampering etc. complete.	1.00	Cum			
12	Construction of Compacted Granular Sub Base (Grade -1, Crushed B T Material of 53 mm to 26.500 @ 35 %. 26.50 mm to 4.75 mm @ 45 % and Below 2.36 mm @ 20%) by Providing Close Graded Material. Mixing in Mechanical Mix Plant at OMC Carriage of Material to work site Spreading Uniform Layers with Mortar Grader On Prepared Surface and compacting with Vibratory Power Roller to achieve desired density Complete as per Clause 401	1.00	Cum			
13	Painting Two Coats on New Concrete Surfaces (Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces)	1.00	Sqm			
14	Providing & laying weep hole in Abutments, and returns by using A.C. pipe of 100mm including laying in proper grade and jointing the completed as per detailed specification.	1.00	Each			
15	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed. (A) Depth up to 3.0 M. and lead upto 100 m for 10 Cum	1.00	Cum			

16	Providing and laying controlled cement concrete M.150 for curing complete excluding cost of formwork and reinforcement for reinforced concrete work in (A) Foundations, footings, Base of columns and Mass concrete	1.00	Cum			
17	Providing and Casting in situ controlled Cement Concrete M-200 for R.C.C. Raft and cutt-off walls including necessary shuttering laying, vibrating, ramming and curing complete.	1.00	Cum			
18	Providing and casting in situ controlled cement concrete M-200 for R.C.C. return as per drawings including centering shuttering, scaffolding where necessary, laying vibrating, curing and finishing complete. (A) Height from 0.0 to 5.0 M. (1) Piers (2) Abutment (3) RCC return	1.00	Cum			
19	Providing and casting in situ controlled cement concrete M-200 for R.C.C. work in superstructure including centering, ramming vibrating curing and finishing complete. (A) T-Beam and Deck slab type of superstructure (I) Deck slab	1.00	Cum			
20	Providing and casting in situ ordinary cement concrete concrete M-200 for approach slab including formwork curing and finishing complete.	1.00	Cum			
21	Providing and laying - Fitter Media 600mm thick directed at the back of abutments, returns and wing walls as per detailed specifications.	1.00	Sqm			
22	Providing uncoursed rubble stone masonry in Cement Mortar 1:5 for flooring including curring pointing in Cement Mortar 1:3 on exposed faces complete.	1.00	Cum			
23	Providing and laying rubble for Flexible apron (each stone weighting not less than 40Kg.) including and packing and filing in the interestices with quarry-spalls.	1.00	Cum			
24	Providing and casting in situ controlled cement concrete M-200 for average 75 mm thick wearing coat laid as directed including tamping, vibrating, finishing, curing and filling in joints with bitumen complete	1.00	Cum			
25	Providing and placing in position FE 500D bar reinforcement for following items including cutting bending hooking and tying complete as per detailed drawing. For well :- curb, staining, cap and RCC Raft.	1.00	MT			

26	Providing and laying in position FE 500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following.(A) Piers (B) Abutments (C)R.C.C. Returns	1.00	MT			
27	Providing and placing in position FE 500D TMT. Bar reinforcement including, cutting, bending hooking and tying complete as per detailed drawings.(I) Solid Slab.(II) Deck Slab.	1.00	MT			
28	Providing and fixing in position FE 500D TMT bar reinforcement including cutting, bending and tying complete as per detailed drawings. (A) R.C.C. Kerb. (B) R.C.C. Footpath.(C) R.C.C. Approach slab.(D) Wearing Coat.	11.00	MT			
29	Providing and fixing premoulded compressible filler board in black colour conforming to MoRT&H Specifications (Clause 1015),having minimum density 95kg/cum. non-staining with less than1% water absorption & compression recovery of 93% minimum as per specification for 20 mm wide expansion joint including cutting to required size and shape at all levels etc.complete as directed.	1.00	Sqm			
30	Providing and applying the elastomeric joint sealant two component, high performance polysulfide formulation conforming to BS:4254 and ASTM C 920 having weathering resistance to ultra-violet	1.00	Rmt			
31	Providing and fixing 25 mm diameter backup rod having minimum density 22 kg per cum (ASTMD - 3575) & compression strength of 0.40 kg per sqm (ASTM - 5249) and finishing with polysulphide sealant etc. complete.	1.00	Rmt			
32	Providing P.V.C. 100 mm diameter water spouts including necessary iron gratings as per drawings	1.00	Each			
33	Earthwork for embankment including breaking clods,dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T .(E)	1.00	Cum			

34	Providing and laying Pitching on slopes laid over prepared filter media including boulder apron laid dry in front of toe of embankment complete as per drawing and Technical specifications A ) Stone/Boulder	1.00	Cum			
35	Providing and laying Filter material underneath pitching in slopes complete as per drawing and Technical specification	1.00	Cum			
36	Providing Yellow and Black Patta ( three coat) including distempeing (Three coats) with oil bound distemper of approved brand and manufacture and of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture	1.00	Sqm			
37	Excavation for foundation upto 1.5 m depth including sortingout and stacking of useful materials and disposing off theexcavated stuff upto 50 Meter lead.(A) Loose or soft soil	1.00	Cum			
38	Providing and casting in situ controlled cement concrete M-250 for R.C.C. return as per drawings including centering shuttering ,scaffolding where necessary, laying vibrating, curing and finishing complete.(A) Height from 0.0 to 5.0 M. For wall	1.00	Cum			
39	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	1.00	Meter			
40	Gabian Structure for Retaining Earth (Providing and construction of a gabain structure for retaining earth with segments of wire crates of size 7 m x 3 m x 0.6 m each divided into 1.5 m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be tied with 4 mm galvanised steel wire)	1.00	Cum			

41	Gabian Structure for Erosion Control, River Training Works and Protection works (Providing and constructing gabain structures for erosion control, river training works and protection works with wire crates of size 2 m x 1 m x 0.3 m each divided into 1m compartments by cross netting, made from 4 mm galvanised steel wire @ 32 kg per 10 sqm having minimum tensile strength of 300 Mpa conforming to IS:280 and galvanizing coating conforming to IS:4826, woven into mesh with double twist, mesh size not exceeding 100 mm x 100 mm, filled with boulders with least dimension of 200 mm, all loose ends to be securely tied with 4 mm galvanised steel wire.)	1.00	Cum			
42	Grouting with C.M. 1:4 in Pitching as per drawing or as per instruction of Engineer In Charge	1.00	Cum			
43	Jacketing : - Providing and casting in situ design mix concrete M.25 mix for 23 cm thick jacketing consisting 16 mm dia 200mm c/c both ways , 16 dia pin @ 400mm c/c vertically & 800mm c/c horizontally with base supported with 300 x 450 mm beam reinforced with main 6 No. 16 mm dia. bar and stirrups 8 mm dia. 150 mm c/c etc. complete including drilling holes in the pier, providing steel bars for connecting existing pier to jacketing and filling the holes with rich mortar including shuttering, scaffolding wherever necessary, laying, vibrating curing and finishing etc.complete	1.00	Sqm			
44	Epoxy bonding of new concrete to old concrete	1.00	Sqm			
45	Guniting concrete surface with cement mortar applied with compressor after cleaning surface and spraying with epoxy complete as per Technical specification	1.00	Sqm			
46	Providing and inserting nipples with approved fixing compound after drilling holes for grouting as per Technical specifications	1.00	Each			
47	Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete as per clause 2803.1.	1.00	Kg			
48	Chipping & removing the debonded/ delaminated/ loose/ disintegrated concrete at the places and in the manner and upto the depth and in regular shape as advised by the	1.00	r 25 Kg B			

49	Repair of RCC Railing (Carrying out repair of RCC M30 railing to bring it to the original shape.)	1.00	Rmt			
50	Repair of steel Railing (Repair of steel railing to bring it to the original shape)	1.00	Rmt			
51	Providing and laying Rubble stone in cement mortar 1:3 complete as per drawing and Technical specifications etc. Complete as per instruction of Engineer In Charge	1.00	Cum			
52	Construction of precast RCC railing of M30 Grade, aggregate size not exceeding 12 mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications.	1.00	Meter			
53	Providing G.I. 100 mm diameter water spouts including necessary iron gratings as per drawings.	1.00	Each			
54	Removal of existing cement concrete wearing coat including its disposal complete as per Technical specification without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead upto 1000m(Thickness 75 mm)	1.00	Sqm			
55	Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per Technical specification	1.00	Sqm			
56	Replacement of Expansion Joints complete as per drawings	1.00	Meter			
57	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle	1.00	Hectare			

58	Box cutting the road to proper slope and camber for making a base for road work including removing the excavated stuff and (Refilling same) depositing on road in layer wise, side slope as directed up to all lead etc. complete.including disposed the surplus soil as and where directed with all lead and lift without any extra cost etc. comp.	1.00	Cum			
59	Construction of granular Sub base (Grading - IV) by providing close graded material BTMC using metal 26.5 mm to 9 mm @ 64 %, 9.5 mm to 4.75 mm @ 11 %, & 4.75 mm & below @ 25% incl. spreading in uniform layers with motor grader on prepared surface mixing by <del>mix in place method with Front End Loader</del>	1.00	Cum			
60	Construction of granular Sub base (Grading - I) by providing close graded material BTMC using metal 53 mm to 26.5 mm@ 27.5%, aggregate 26.5 mm to 9.5 mm @ 22.5% & 9.5 mm to 4.75 mm @ 10% and stone dust <del>4.75 mm &amp; below @ 40% incl spreading</del>	1.00	Cum			
61	Supplying and fixing reinforced concrete heavy duty non-pressurepipes with collars for culverts carrying heavy traffic as per IS 458-1991 specifications including setting the pipes in C.M. 1:2watering and laying (to level or slopes) of class NP3 of	1.00	Rmt			



62	Providing & laying priming coat with emulsion SS-1 grade and spraying emulsion with spray set fitted on mechanical bouzer using emulsion at the rate of 7.5 Kg./10 Sqm. On WMM surface	1.00	Sqm			
63	Providing and laying 20 mm thick Mix seal surface with B.T. aggregate as per M.O.R.T. & H. gradaion and specification with asphalt of Grade VG-30 for mixing at the rate of 5.09% i.e. 50.9 Kg/ M.T. by weight of total mix of asphalt & for tack coat at 2.5 kg/10 sq.mt. including heating & mixing in continuous batch	1.00	M.T.			
64	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power	1.00	Cum			
65	Diversion Ahead Sign :-Providing and fixing sign boards made outof 2mm aluminium sheet / 4mm ACP (Aluminum compositePanel); size 180x60 cms. rectangular as per design of IRC-67-2012.Pre treated with phospheting process & acid etching; coated withone coat of epoxy primer and two coats of best quality epoxypaint ; reflectorised with High Intensity Prismatic Grade	1.00	No.			
66	Men at work (Heavy) sign :-Providing and fixing sign boards madeout of 2mm aluminium sheet / 4mm ACP (Aluminum compositePanel); size 120cm x 90cm as per design of IRC-67-2012. Pretreated with phospheting process & acid etching; coated with onecoat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with High Intensity Prismatic Grade	1.00	No.			
67	Demolation and disposal of unserviceable materials with all lead & lift. (ii) Un reinforced cement concrete	1.00	Cum			
68	Excavation in large boulders and soft rock by welding including shoring, strutting and dewatering as necessary and disposing of the excavated stuff as directed.	1.00	CUM.			
69	Providing and filling in foundation with ordinary cement concrete M- 100 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	1.00	CUM.			

70	Providing and fixing mild steel dowel bars of minimum 32mm dia. for anchoring by drilling holes in foundation strata including necessary bending, hooking of dowel bars and grouting the holes	1.00	Rmt			
71	Providing and casting in-situ ordinary cement concrete M-200 mix and providing necessary pin headers including shuttering, scaffolding laying vibrating, curing and finishing complete	1.00	CUM.			
72	Providing and casting in situ controlled cement concrete M-250 for RCC work in pier caps / Abutment caps & Dirt wall including ordinary cement concrete M-250 bed block or pedestal of required size below bearings as per detailed drawings centering, shuttering, scaffolding wherever necessary laying, vibrating, curing and finishing complete	1.00	CUM.			
73	Providing and casting in situ controlled cement concrete M-300 for R.C.C. solid slab including centering, scaffolding, curing and finishing complete.	1.00	Cum.			
74	Providing and casting in situ controlled cement concrete M-300 for RCC Crash Barrier including curing and finishing complete.	1.00	CUM.			
75	Providing and laying rubble for apron (each stone weighting not less than 40Kg.) including and packing and filling in the interstices with quarry-spalls.	1.00	Cum			
76	Providing and filling in foundation with ordinary cement concrete M- 150 mix and providing necessary vertical pin headers including formwork, vibrating, ramming and curing complete.	1.00	Cum			
77	Providing and casting in situ controlled cement concrete M - 300 for average 75mm. thick Wearing coat laid as directed including tamping, vibrating, finishing, curing, and filling in joints with bitumen complete.	1.00	CUM.			
78	Providing and casting in - situ controlled cement concrete M-300 for approach slab.	1.00	CUM.			
79	Providing and placing in position FE 500D bar reinforcement for following items including cutting bending hooking and tying complete as per detailed drawing.	1.00	Tonne			
80	Providing and fixing in position mild steel 32 mm dowel bars in pier caps for anchorage in fix end as per detailed drawing including cutting , bending & welding complete.	1.00	Nos.			

81	Providing and fixing in position mild steel 32 mm dowel bars in pier caps for anchorage in free end as per detailed drawing including cutting , bending & welding complete.	1.00	Nos.			
82	Providing and laying weep holes in abutments and return by using PVC pipes of 100 mm. diameter including laying in proper grade and jointing etc.complete as per detailed drawings.	1.00	Nos.			
83	Providing 12 mm thick pre-moulded asphalt filler joints as per drawing.	1.00	Sqm.			
84	Providing P.V.C. 100 mm diameter water spouts including necessary iron gratings as per drawings.	1.00	No.			
85	Providing and fixing tar paper bearing ,shall be provided between abutment / pier cap and RCC slab	1.00	Sqm.			
86	Providing flood gauge marks on sub structure as per design including painting complete.	1.00	Rmt			
87	Wall painting (three coats) with Plastic emulsion paint of approved brands like Apex or equivalent and manufacture on undecorated wall surfaces to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth. ( Black & White Strip )	1.00	Sqmt			
88	Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	1.00	Cum			
89	Providing & casting in situ ordinary cement concrete M-100 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating, curing and finishing complete with V-Groves.(A) Height from 0.0 M. to 5.0 M.	11.00	Cum			
90	Providing and casting in situ ordinary cement concrete M-300 for average 75 mm thick wearing coat laid as directed including tamping ,vibrating, finishing, curing and filling in joints with bitumen complete.	1.00	Cum			

91	Providing , unloading, placing Box shape "Factory made - precast "box culvert including bed preparation including jointing work of box culvert with cement mortar 1:3 (1-cement : 3-sand ) precast RCC self compacting high performance concrete grade M40 box shape drain having internal size W2000mmxH2000mmx2000mm with lifting MS insert palte of 100mmx300mmx8 mm thick on one side of box as per drawing and details. The box shall have wall thickness of 130 mm that can take a heavy vehicle load with 5T point load , steam cured , Fe 500 TMT steel as reinforcement as per detailes and with a smooth surface as per instruction of Engineer in charge including transportation .	1.00	rmt			
92	Providing , unloading, placing Box shape "Factory made - precast "box culvert including bed preparation including jointing work of box culvert with cement mortar 1:3 (1-cement : 3-sand ) precast RCC self compacting high performance concrete grade M40 box shape drain having internal size W3000mmxH3000mmx3000mm with lifting MS insert palte of 100mmx300mmx8 mm thick on one side of box as per drawing and details. The box shall have wall thickness of 130 mm that can take a heavy vehicle load with 5T point load , steam cured , Fe 500 TMT steel as reinforcement as per detailes and with a smooth surface as per instruction of Engineer in charge including transportation .	1.00	rmt			
93	Providing and laying cement concrete 1:3:6 (1- Cement :3- Coarse sand : 6- Graded brick bat aggregate 40mm normal size) and curing complete excluding cost offormwork in (A) Foundation and Plinth	1.00	Cum			

94	Supply of precast drains for longitudinal surface storm water drainage. Size U Shape Drain 450 X 450 (T-25) INCLUDING U Shape Drain Lid 450. The product shall be duly steam cured in the plant to have requisite compressive strength and having load carrying capacity of total 25 Tonnes vehicle load or 5 Tonnes wheel load for heavy vehicle movement. The product shall be made by using advanced precast technology using high performance self-compacting concrete of C40 / M50 grade and Fe 500 D grade TMT steel reinforcement bar. The product shall have tie shape groove of 10-20 mm width and 25 mm depth on both sides of each precast unit product for jointing two precast units. The Precast U Shape drain shall have in built insert at optimized locations for fixing De-Shackle for mechanical installation activities including supply and transportation at site. The precast product shall be manufactured in controlled environment adhering to stringent pre-defined, atmospheric standards.	1.00	Rmt			
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**Deputy Executive Engineer**  
**Const. R & B Sub Division,**  
**Dediapada**