

NIT SCHEDULE FOR ANNUAL REPAIRS AND MAINTANCE WORK IN BRIDGE SUB-DIVISION JABALPUR IN KATNI DISTRICT

(As per SOR for Road & Bridge works inforce from 11.04.2025)


PAC Rs.16.60 LACS

S.No	Item No/P g.No	Description	Quantity	Unit	Rate	Amount
1	3.3/p-9	Excavation in Soil using Hydraulic Excavator and Tippers with disposal up to 1000 meters. Excavation for roadwork in soil with hydraulic	135.00	CUM	79.00	10665.00
2	3.13/p-10	3.13 Embankment/ Sub Grade Construction with Material Obtained from Borrow Pits cum 298.00 Construction of embankment with approved material having CBR>7	225.00	CUM	298.00	67050.00
3	3.18/p-11	3.18 Surface Drains in Soil meter 72.00 Construction of unlined surface drains of average cross-sectional area 0.40 sqm in soil to specified lines, grades, levels and dimensions to the requirement of clause 301 and 309. Suitable Excavated material to be used in embankment within a lead of 50 meters as per relevant clauses of section-300.	5.00	METER	72.00	360.00
4	14.34 p-130	Providing and fixing and erecting 40mm dia steel pipe (medium weight) railing in 3 rows on steel channel ISMC-100mmx50mm	100.00	METER	2000.00	200000.00
5	16.4/1 36	16.4 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 Boulder laid dry without wire crates.	12.60	CUM	2351.00	29623.00
6	16.5/p-136	Providing and laying suitable designed Filter material underneath pitching in slopes complete as per drawing and Technical specification	11.25	CUM	1591.00	17899.00
7	17.6 p-139	17.6 Patching of damaged concrete surface with polymer concrete and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the Engineer.	37.50	SQM	1794.00	67275.00
8	17.1 P-139	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 up to 1000m (Thickness 75 mm)	37.50	SQM	283.00	10613.00
9	17.7 P-139	17.7 Sealing of crack / porous concrete with Epoxy Grout by injection through nipples complete as per clause 2803.1. .	135.00	KG	1628.00	219780.00

10	17.18 P-141	Providing and fixing collapsable M.S. railing of channel of size 75x40x6mm length 2.50 m. at bottom and two nos. vertical post height 0.90 m. with top angle size 50x50x6mm and cross flat size 40x06mm diagonally fixed and braced with nut and bolts dully painted in two coats with synthetic enamel paint and grouted on existing kerbs i/c necessary construction of RCC M-20 block of size 0.50x0.45x0.20 m. complete as per approved drawings	135.00	METER	3001.00	405135.00
11	17.19 P-141	7.19 Replacement of expansion Joint complete as per drawing. Cost of expansion joint to be paid separately.	14.00	METER	292.00	4088.00
12	12.8/p	12.8 Providing and laying Plain/Reinforced				
	(i)	(i) Concrete with plant (Drum Type) and placing				
	A	PCC Grade M15	1.00	CUM	3925.00	3925.00
	B	PCC Grade M20	1.00	CUM	4083.00	4083.00
	D	PCC Grade M30	1.00	CUM	4528.00	4528.00
13	17.20 p- 141	Removal and refixing of existing Pipe railing before and after rains	1100.00	RM	200.00	220000.00
14	NON SOR	Rent of open PVL land hired where pipe railing material is stored i/c providing and drinking water facilities to each man for 4 month (16th to 15th october)	8.00	EACH	8000.00	48000.00
15	8.41/p- 56	8.41 Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel	858.00	SQM	95.00	81510.00
16	5.2/18	5.2 (ii) Prime Coat over Stabilized soil bases / Crusher Run Macadam Providing and applying primer coat with SS1 grade bitumen emulsion or prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.90 to 1.20 kg/sqm using mechanical means.				
	(i)	Providing and applying primer coat with	15.00	sqm	55.00	825.00
17	5.6/19	Dense Graded Bituminous Macadam Providing and laying dense bituminous b) Using Drum Mix Plant of appropriate capacity				
	(ii)	for Grading II (28.5 mm nominal size) Bitum	15.00	CUM	7759.00	116385.00
18	5.7/20	Bituminous Concrete Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder @ 5.4 to 5.6 % by weight of total mix of mix and filler, transporting the hot mix to work site, b) Using Drum Mix Plant of appropriate capacity.				
	(v)	for Grading-II (30-40 mm thickness) Bitumen Content minimum 5.4% with 60/70 bitumen (VG-30)	15.00	CUM	9260.00	138900.00
19	5.3/19	5.3 (ii) Providing and applying tack coat with (ii) @0.30 kg per sqm (dry & hungry	15.00	SQM	17.00	255.00

20	5.9/20	5.9 Open - Graded Premix Surfacing Providing, laying and rolling of open - graded premix surfacing of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or cut-				
		(i) Case - I: Mechanical method using Penetration grade Bitumen VG 30 and HMP of appropriate capacity not less than 75 tones/hour.	15.00	SQM	121.00	1815.00
21	5.11/2 1	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 and B seal coats, all complete as per clause 511 of Specification.				
		(i) Case - I: Type A Providing and laying of liquid seal coat comprising of an application of layer of bitumen	15.00	SQM	71.00	1065.00
22	8.38/5 6	8.38 Road Marking with Hot Applied Thermoplastic Compound with Reflectorizing Glass Beeds on Bituminous surface. Providing and applying (Cleaning of Bituminous surface) thermoplastic compound having composition of	15.00	SQM	440.00	6600.00
		Grand total				1660379.00


Sub-Engineer


Sub-Divisional Officer
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Executive Engineer
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