

**GOVERNMENT OF GUJARAT
ROAD AND BUILDING DEPARTMENT**



DETAILED ESTIMATE

C.R. PROGRAMME 2026-27

Name of work :- Maintenance and Repairs to Roads (Asphalt Patch work) under the jurisdiction of R & B Sub Division Chanasma

District : Patan

**OFFICE OF THE EXECUTIVE ENGINEER
PANCHAYAT (R&B) DIVISION
PATAN**

Name of work : Maintenance and repairs (Building and road work) under jurisdiction of R & B Sub Division Chanasma

SCHEDULE ' B'

Memorandum showing items works to be carried out :

હાથ ધરવાના કામની બાબતો દર્શાવતી યાદી

Item s No. બાબત નંબર	Quantities estimated Qty may be more or less	item of work કામની બાબત	Tendered Rates		Unit એકમ	Total amount according to estimated quantities અંદાજી જથ્થા અનુસાર કુલ રકમ
			In Figure Rs. Ps	In words		
1	2	3	4	5	6	7
1	1.00	Providing and laying 37.50 mm thick open graded Bituminous grouting with B.T. aggregate 0.66 Cum/10 Smt and using asphalt grade VG-30 for mixing at the rate of 1.99 % . ie 19.90 Kg / M.T. of total mix & bitumen for tack coat @ 4.00 Kg / 10 Smt. on B.T. surface including heating the asphalt and aggregate by continuous batching drum mix plant, transporting and spreading Manually and consolidation with Kuba . including providing all materials, equipments, tools and plant, oil, kerosene fire wood labour charge etc comp. using contractors own machinaries , drum mix plant & equipment etc .comp.	3982.48	Rupees Three Thousand Nine Hundred EightyTwo Paise FourtyEight Only	MT	3982.48
2	1.00	Providing and laying 37.50 mm thick open gradedBituminous grouting withB.T. aggregate 0.66 Cum/10 Smt (0.50 Cum /10 Smt coarse aggregate & 13 Cum / 10 smt key aggregate)and using asphalt grade 60/70 for mixing at the rate of 1.99 % . ie 19.90 Kg / M.T. of total mix & bitumen for tack coat @ 4.00 Kg / 10 Smt. on B.T. surface including heating the asphalt and aggregate by continuous batching drum mix plant, transporting and spreading the same by paver finisher and consolidation with vibratory roller . including providing all materials, equipments, tools and plant, oil, kerosene fire wood labour charge etc comp. using contractors own machinaries , drum mix plant & equipment and paver finisher etc .comp.	4179.43	Rupees Four Thousand One Hundred SeventyNine Paise FourtyThree Only	MT	4179.43

3	1.00	Providing and laying 37.50 mm thick open graded Bituminous grouting with B.T. aggregate 0.66 Cum/10 Smt (0.50 Cum /10 Smt coarse aggregate & 13 Cum / 10 smt key aggregate) and using asphalt grade 60/70 for mixing at the rate of 1.99 % . ie 19.90 Kg / M.T. of total mix & bitumen for tack coat @ 4.00 Kg / 10 Smt. on B.T. surface including heating the asphalt and aggregate by continuous batching drum mix plant, . including providing all materials, equipments, tools and plant, oil, kerosene fire wood labour charge etc comp. using contractors own machinaries , drum mix plant & equipment etc .comp. (At Plant site, transporting to work site & spreading will pay seperately.)	3706.75	Rupees Three Thousand Seven Hundred Six Paise SeventyFive Only	MT	3706.75
4	1.00	Providing and laying 37.50 mm thick compacted Bituminous Macadam using stone chips 0.66 Cum/ 1 M.T. mix as per gradation & using asphalt grade 60/70 for tack coat 2.50 Kg /10 smt on B.T. surface & for mixing 34 Kg / M.T.(i.e. 3.40 % of mix) including heating the asphalt and aggregate by continuous batching drum mix plant, transporting th mix material and spreading the same Manually and consolidation with Kuba . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries , drum mix plant & equipment etc .comp.	5065.64	Rupees Five Thousand SixtyFive Paise SixtyFour Only	MT	5065.64
5	1.00	Providing and laying 37.50 mm thick compacted Bituminous Macadam using stone chips 0.66 Cum/ 1 M.T. mix as per gradation & using asphalt grade 60/70 for tack coat 2.50 Kg /10 smt on B.T. surface & for mixing 34 Kg / M.T.(i.e. 3.40 % of mix) including heating the asphalt and aggregate by continuous batching drum mix plant, . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries , drum mix plant & equipment and etc .comp.(At Plant site, transporting to work site & spreading will pay seperately.)	4789.90	Rupees Four Thousand Seven Hundred EightyNine Paise Ninety Only	MT	4789.90

6	1.00	Providing and laying Asphalt painting on BT Surface with bitumen grade VG-30 at the rate of 5 kg per 10 Sq.M by mechanical sprayer and spreading the stone dust on prepared surface at the rate of 0.30 Cu.M. per 10 Sq.M etc complete and rolling with PTR roler and brushing etc complete	66.84	Rupees SixtySix Paise EightyFour Only	Sq.mt	66.84
7	1.00	Providing and laying 37.50 mm thick compacted Bituminous Macadam using stone chips 0.66 Cum/ 1 M.T. mix as per gradation & using asphalt grade 60/70 for tack coat 2.50 Kg /10 smt on B.T. surface & for mixing 34 Kg / M.T.(i.e. 3.40 % of mix) including heating the asphalt and aggregate by continuous batching drum mix plant, transporting th mix material and spreading the same by paver finisher and consolidation with vibratory roller of 80 KN to 100 KN static weight . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries , drum mix plant & equipment and paver finisher etc .comp.	5262.59	Rupees Five Thousand Two Hundred SixtyTwo Paise FiftyNine Only	MT	5262.59
8	1.00	Providing and laying Bituminous Seal Coat using stone chips 0.24 Cmt / 10 Amt i.e. 0.66 Cmt aggregate and asphalt grade 60/70 for mixing at the rate of 4.50 % weight of total mix including heating the asphalt and aggregate by continuous batching drum mix plant and transporting the mix material & spreading Manually and consolidation with Kuba and flushing sand @ 0.30 Cum / 100 Smt . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries & drum mix plant etc .comp.	5816.33	Rupees Five Thousand Eight Hundred Sixteen Paise ThirtyThree Only	MT	5816.33

9	1.00	Providing and laying Bituminous Seal Coat using stone chips 0.24 Cmt / 10 Amt i.e. 0.66 Cmt aggregate and asphalt grade 60/70 for mixing at the rate of 4.50 % weight of total mix including heating the asphalt and aggregate by continuous batching drum mix plant and transporting the mix material & spreading the same by paver finisher and consolidation with vibratory roller of 80 KN to 100 KN static weight and flushing sand @ 0.30 Cum / 100 Smt . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries & drum mix plant etc .comp.	5964.67	Rupees Five Thousand Nine Hundred SixtyFour Paise SixtySeven Only	MT	5964.67
10	1.00	Providing and laying mix seal surface 20mm thick on pre prepared as wearing course with specified graded machine crushed aggregate pre mixed with bitumen binder of 51 kg/mt of Ashphalt in drum mix plant transporting the mix material on tipper and laying with paver finisher to the road level and rolling with vibratory roller of 80 to 100 KN static weight including providing equipment tools and plants, fire wood, lubricant, kerosine,oil, labour charges using contractors own Machinaries drum mix plant and paver finisher (R.A.)	6487.32	Rupees Six Thousand Four Hundred EightySeven Paise ThirtyTwo Only	MT	6487.32
11	1.00	Providing and laying mix seal surface 20mm thick on pre prepared as wearing course with specified graded machine crushed aggregate pre mixed with bitumen binder of 51 kg/mt of Ashphalt in drum mix plant transporting the mix material on tipper and laying with Manually and consolidation with Kuba and flushing sand @ 0.30 Cum / 100 Smt . including cost of fuel ,hire charges, fire wood , kerosens, labour charge etc & with contractors own machinaries & drum mix plant etc .comp. (R.A.)	6290.37	Rupees Six Thousand Two Hundred Ninety Paise ThirtySeven Only	CMT	6290.37
12	1.00	Providing and laying W.B.M of B.T.M.C metal of size 45 mm to 63 mm size including 0.12 Cu.M. Stone Screeing & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight. 75 mm thick compacted. {As per R.A.}	2651.53	Rupees Two Thousand Six Hundred FiftyOne Paise FiftyThree Only	CMT	2651.53

13	1.00	Providing laying spreading and compacting 150mm thick granular sub base (G.S.B.) with specified material MC BT Metal of size 75 to 26.5mm 35%, 26.5mm to 4.75mm 45% and below 2.36mm stone dust 20% mix (Grade-I) having C.B.R. not less than 30 incl. mixing the material at OMC at site and spreading in uniform layer base and compacting with power roller to achieve the desired density incl. all materials, labour and machinery, lighting guarding, bracketing and maintenance of diversion etc. complete as per MORT&H clause 401.12.50 (R.A.)	2015.59	Rupees Two Thousand Fifteen Paise FiftyNine Only	CMT	2015.59
14	1.00	Providing hard side shoulder of 100 mm thick for embankment using quarry spall with all lead and lift and including watering and rolling and consolidation of sub grade in layers at OMC to required dry density including filling depression which occur during the process using vibratory roller of 80 KN to 100 KN (selected quarry spall having CBR value not less than 20.0	1480.01	Rupees One Thousand Four Hundred Eighty Paise One Only	Cum	1480.01
15	1.00	Providing and laying 100 mm avg. thick wet mix macadam (W.M.M.) GR-II using machine crushed black trap aggregate of 40 to 50 mm size in the material with water OMC in mechanically mix (pug mill) carriage of mix material by contractors own tipper to site of work including laying, spreading and compacting in sub base, base course on well prepared under base of compacting as per MOST Specification to achieve the desired density (RA)	2526.44	Rupees Two Thousand Five Hundred TwentySix Paise FourtyFour Only	Cum	2526.44
16	1.00	Supplying and stacking of hard morrum/sand/yellow earth/ binding material approved quality on road site including royalties & filling measure boxes with all lead and lift etc. road work (R.A)	369.56	Rupees Three Hundred SixtyNine Paise FiftySix Only	Cu.M.	369.56
17	1.00	Spreading the binding material on road crust filling the gaps in metal and leveling to camber and gradient as directed.(S.O.R. P.No sr.no 26.23 IT-26020A)	162.22	Rupees One Hundred SixtyTwo Paise TwentyTwo Only	Cu.M.	162.22
18	1.00	Supplying and stacking of machine crushed stone coarse aggregate chippings etc of hard stone of size 45mm to 63mm size free of disintegrated pieces, deleterious and organic matter including royalties & filling measure boxes with all lead and lift etc. completed for road work	1384.47	Rupees One Thousand Three Hundred EightyFour Paise FourtySeven Only	Cu.M.	1384.47

19	1.00	Spreading the stone aggregate for rolling and W.B.M. including filling the interstices to required camber and gradient (excluding spreading of Blindage)(ii) 40mm to 63mm size aggregates	274.73	Rupees Two Hundred SeventyFour Paise SeventyThree Only	Cu.M.	274.73
20	1.00	Providing and laying W.B.M of B.T.M.C metal of size 45 mm to 90 mm size including 0.27 Cu.m. stone screening & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight. 100 mm thick compacted.	2909.85	Rupees Two Thousand Nine Hundred Nine Paise EightyFive Only	Cu.M.	2909.85
21	1.00	Box cutting the road surface to proper slope and camber for making a base for road work including removing the excavated stuff and depositing on the road side slope as directed upto 50Mt.lead. (SOR 2024-25 It Code 26008)	114.44	Rupees One Hundred Fourteen Paise FortyFour Only	Cu.M.	114.44
22	1.00	Cautionary Warning Sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-1977. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with retro reflectivesheeting as per latest M.O.S.T.Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with bestquality epoxy coatings in black andwhite bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge.(A) Engineer Grade(VR) ITEM.NO.26092A	3808.66	Rupees Three Thousand Eight Hundred Eight Paise SixtySix Only	NO	3808.66
23	1.00	Regulatory/Mandatory signs :Providing and fixing sing boards made out of 2mm aluminium sheet; size 60cms. diameter circle as per the design of IRC-67-1977 pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with the latest M.O.S.T.Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm, 75 x 75 x 6mm as required; painted with bestquality epoxy coatings in black andwhite bends. The details of symbol foreach board shall be as per theinstruction of engineer in charge. The fixing at site shall be in 1:2:4 CC blockof size 45 x 45 x 60 Cms. for each leg.including excavation, curing etc.complete under the supervision of engineer in charge.(A) Engineer Grade(VR) ITEM.NO.26092B	3439.81	Rupees Three Thousand Four Hundred ThirtyNine Paise EightyOne Only	NO	3439.81

24	1.00	Direction sign (Junction board):-Providing and fixing sing boards made out of 2mm aluminium sheet; size 244 x 122cms. rectangle as as per the design of IRC-67-1977 pre treated with phospheting process & acid etching; coated with	14831.71	Rupees Fourteen Thousand Eight Hundred ThirtyOne Paise SeventyOne Only	NO	14831.71
25	1.00	Place ideatification sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 150 x 90cms. rectangle as as per the design of IRC-67-1977 pre treated with phospheting process & acid etching; coated with	9390.66	Rupees Nine Thousand Three Hundred Ninety Paise SixtySix Only	NO	9390.66
26	1.00	Village name/ Bump Ahed sign :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 90 x 60cms. rectangle as as per the design of IRC-67-1977 pre treated with phospheting process & acid etching; coated with	5045.36	Rupees Five Thousand FourtyFive Paise ThirtySix Only	NO	5045.36
27	1.00	Cat Eye / Road Stud / RPM: Supplying of Molded Twin Shanks Raised Pavement Markers made of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the	326.23	Rupees Three Hundred TwentySix Paise TwentyThree Only	NO	326.23
28	1.00	Road marking with hot applied thermoplastic paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250gms per sqm area, thickness of	367.72	Rupees Three Hundred SixtySeven Paise SeventyTwo Only	SMT	367.72
29	1.00	Providing and fixing Hectometer as per I.R.C. type design including painting, lettering etc. complete.(ii) Fixing in C.C. 1:5:10 It.No.26044B	356.50	Rupees Three Hundred FiftySix Paise Fifty Only	NO	356.50
30	1.00	Providing and fixing ordinary Kilometer stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design in C.C. 1:4:8 including letter and paints etc. complete (For N.H., S.H. and M.D.R.) 26048	1293.39	Rupees One Thousand Two Hundred NinetyThree Paise ThirtyNine Only	NO	1293.39
31	1.00	Providing and fixing 5th Kilometer stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design in C.C. 1:4:8 including painting,lettering etc. complete (For N.H., S.H. and M.D.R.) 26050	1935.15	Rupees One Thousand Nine Hundred ThirtyFive Paise Fifteen Only	NO	1935.15

32	1.00	Metal Beam Crash Barrier Type A, "W": Metal Beam Crash Barrier (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 ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised 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 clause 810)National Highway SOR 2023-24 Ahm Item code 8.23A	2815.88	Rupees Two Thousand Eight Hundred Fifteen Paise EightyEight Only	Rmt	2815.88
33	1.00	Providing and laying Plastic Speed Breaker with yellow and black colour material of approved quality and brand, size (350 mm x 250 mm x 50 mm), including necessary base preparation, Fastening and all complete work as per instructions of the engineer.(MR)	2196.75	Rupees Two Thousand One Hundred NinetySix Paise SeventyFive Only	Rmt	2196.75
			TOTAL AMOUNT PUT TO TENDER			111308.98

I / We am / are willing to carry out the work at _____ % above / below percent (should be written in figure and words) of the estimated mentioned above. Amount of my / our tender works out as under :

Estimated amount put to.....

Tender ``

Deduct% below ``

Net ``

In words

Estimated amount put to.....

Tender ``

Add% above ``

Total ``

In words

Signature of
the Contractor.

Deputy Executive Engineer
Road & Building (P) Sub Division
Chanasma

Executive Engineer
Road & Building (P) Division
Patan