

Name of Work :- Construction of Khas Village to Military Road (NP) Km. 0/000 to 3/320
(Sec. Km.0/820 to 3/320) Ta. Ranpur Dist. Botad (Remaining Work)

SCHEDULE "B"

Memorandum showing items of works to be carried out

Item No.	Quanties Estimated but may be more or less.		Item of work	Estimated Rates		Unit	Total amount according to estimated quantieis.
				In Figure Rs. Ps	In Words.		
1	0.000	Hect	Clearing and grubbing of road land incl.uprooting rank vegetation, grass, bushes, shurbs, saplings and trees girth upto 300mm removal of stumps of trees cut earlier and disposal of unserviceable materials © By mechanical means in area of Light jungle.	32361.25	Rupees Thirty Two Thousand Three Hundred Sixty One and Paise Twenty Five only	One Hectare	0.00
2	1265.660	Cum	Earthwork for embankment including breaking clods, dressing with all lead and lift (Excluding watering and consolidation) (A) Selected soil should be From borrow area within land width and should have CBR not less than 6.00%.	69.46	Rupees Sixty Nine and Paise Forty Six only	One Cubic metre	87912.74
3	0.000	Cum	Earthwork for embankment including breaking clods, dressing with all lead and lift (Excluding watering and consolidation) (A) Selected soil should be From borrow area with all lead and lift and should have CBR not less than 6.00%.	160.24	Rupees One Hundred Sixty and Paise Twenty Four only	One Cubic metre	0.00
4	621.500	Cum	Earthwork in cutting in all sorts of soil and soft Murrum including conveying and spreading the suff embankment as and where directed within 200 meters from the end of the cutting with all required lead and lift.	85.16	Rupees Eighty Five and Paise Sixteen only	One Cubic metre	52926.94

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5	2672.000	Cum	Granular Sub-base with Black trap crushed stone well Graded Material (Table.400.1) by Mix in place Method. Construction of Granular Sub-base by Providing Black Trap crushed stone well graded material, spreading in uniform layers with motor graded on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with Vibratory roller to achieve the desired density, complete as per Technical Specification Clause-401. For Grading-1 Materials.	570.91	Rupees Five Hundred Seventy and Paise Ninety One only	One Cubic metre	1525471.52
6	2282.000	Cum	WBM Grading-2 Providing, laying, spreading and compacting stone agg. Of 63mm to 45mm size to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 KN in stage to proper grade and camber, applying and brooming, stone screening/binding material to fill-up the intersties of coarse agg., watering and compacting to the required density as per Technical Specification Clause.404 By manual means.	711.34	Rupees Seven Hundred Eleven and Paise Thirty Four only	One Cubic metre	1623277.88
7	299.790	Cum	Rolling of earthwork in layers with power roller including filling in depression which occur during the process and watering of earthwork as directed.	18.67	Rupees Eighteen and Paise Sixty Seven only	One Cubic metre	5597.08

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8	706.000	MT	Providing and laying bitumenous grout 37.50mm thick using bulk Emulsion RS1 for tack coat at the rate of 4.0kg/10sqm on WBM Surface and using BT chips for required gradation with the asphalt of grade VG-30 at the rate of 1.99% i.e 19.90kg/MT by weight of mix including heating and mixing in drum mix plant , transporting the mix and spreading the same by paver finisher and consolidation as per MOST specification including cost of all materials fuel, labours, tools and plants etc. using contractor's own drum mix plant etc. complete.	1846.90	Rupees One Thousand Eight Hundred Forty Six and Paise Ninety only	One Metric Ton	1303911.40
9	494.000	MT	Providing, laying and rolling of 25mm thick open graded premix bituminous carpet with B.T aggregates as specified and using bulk Emulsion RS1 for tack coat at the rate of 2.50kg/10sqm on B.T.Surface (As per IRC-16) and using bitumen VG-30 for mixing with aggregate at the rate of 3.36% i.e 33.60kg/MT. of total mix including heating and mixing in drum mix plant, spreading the same with paver finisher and consolidation with vibratory roller including necessary firewood, oil, lubricants, labour charges etc. using equipment tools etc. completed in accordance with the requirement of specification.	2500.37	Rupees Two Thousand Five Hundred and Paise Thirty Seven only	One Metric Ton	1235182.78

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10	257.000	MT	Providing and laying seal coat using Bitumin grade VG-30 with B.T. aggregate as specified using aggregate at the rate of 0.18cum/10sqm. And bitumen for mixing with aggregate at the rate of 4.5% i.e 45.00kg/MT of total mix including heating and mixing in drum mix plant and spreading the same by paver finisher and consolidation with vibratory roller including necessary using contractor's own drum mix plant, machineries and equipment, tools etc. complete in accordance with the requirement of specification.	2861.66	Rupees Two Thousand Eight Hundred Sixty One and Paise Sixty Six only	One Metric Ton	735446.62
11	104.260	Cum	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. Dense or hard soil.	161.19	Rupees One Hundred Sixty One and Paise Nineteen only	One Cubic metre	16805.67
12	62.080	Cum	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto all lead. Hard Murrum	274.66	Rupees Two Hundred Seventy Four and Paise Sixty Six only	One Cubic metre	17050.89
13	150.540	Cum	Providing and casting in situ ordinary cement concrete M-150 mix and providing necessary pin headers including shuttering, scaffolding, laying vibrating, curing and finishing complete Without V-Grooves For all Height.	2823.75	Rupees Two Thousand Eight Hundred Twenty Three and Paise Seventy Five only	One Cubic metre	425087.33
14	22.660	Cum	Providing and filling in foundation with ordinary cement concrete M-100 mix and providing necessary vertical pin headers incl. Formwork, vibrating, ramming and curing complete.	2216.44	Rupees Two Thousand Two Hundred Sixteen and Paise Forty Four only	One Cubic metre	50224.53

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15	7.000	No	Providing and laying weep hole in Abutment and returns by using A.C pipe of 100mm. Incl. laying in proper grade and jointing the complete as per detailed specification.	39.02	Rupees Thirty Nine and Paise Two only	One Number	273.14
16	1.180	MT	Providing and laying in Position FE 500/500D TMT bar reinforcement including cutting, bending, hooking and tying complete as per detailed drawings for the following (A) Piers (B) Abutments (C) Returns (D) Walls etc.	71636.85	Rupees Seventy One Thousand Six Hundred Thirty Six and Paise Eighty Five only	One Metric Ton	84531.48
17	166.340	Cum	Filling available excavated earth (excluding rock) in trenches plinth sides of foundation etc. in layers not exceeding 20cm in depth consolidating each deposited layer by ramming and watering.	88.85	Rupees Eighty Eight and Paise Eighty Five only	One Cubic metre	14779.31
18	58.000	Rm	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift. (i) 900mm Dia.	3862.79	Rupees Three Thousand Eight Hundred Sixty Two and Paise Seventy Nine only	One Running metre	224041.82
19	0.000	Rm	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope) of I.S. Class NP-3 of following internal diameter with all lead and lift. (i) 1200mm Dia.	0.00	Rupees and Paise Zero only	One Running metre	0.00

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20	10.000	No	Providing and fixing Precast cement concrete Hectometer as per IRC type design incl. painting, lettering etc. fixing in C.C. 1:5:10.	321.63	Rupees Three Hundred Twenty One and Paise Sixty Three only	One Number	3216.30
21	180.000	No	Providing and fixing Precast cement concrete Guard stone as per I.R.C. type design including white washing etc. complete. Fixing in C.C.1:5:10.	218.46	Rupees Two Hundred Eighteen and Paise Forty Six only	One Number	39322.80
22	3.000	No	Providing and fixing ordinary Kilometer stone of pre-cast 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.	594.94	Rupees Five Hundred Ninety Four and Paise Ninety Four only	One Number	1784.82
23	112.000	No	Providing and fixing Indicator stone of approve stone as per I.R.C. type design in C.C. 1:4:8 including white washing etc. complete Fixing in Earth	118.77	Rupees One Hundred Eighteen and Paise Seventy Seven only	One Number	13302.24
24	1.000	No	Supplying and fixing Junction Boards of M.S. plates and angles as per I.R.C. design incl;. Fixing in C.C. 1:4:8 with necessary excavation painting, figuring, lettering on boards etc. complete.	5472.18	Rupees Five Thousand Four Hundred Seventy Two and Paise Eighteen only	One Number	5472.18
25	1.000	No	Providing and fixing Village name Boards as per standard I.R.C. type design of steel plate incl. painting, lettering etc. complete with fixing in C.C. 1:4:8 block with necessary excavation etc. complete	3943.44	Rupees Three Thousand Nine Hundred Forty Three and Paise Forty Four only	One Number	3943.44
26	6.000	No	Providing and fixing Road sign of M.S. plate and angle iron incl. painting, lettering etc. complete. fixing in C.C. 1:4:8 block with necessary excavation etc. complete as per IRC type design (i) Reflective Type.	3511.09	Rupees Three Thousand Five Hundred Eleven and Paise Nine only	One Number	21066.54

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27	2.000	No	Village/Bump Ahead sign. : Providing and fixing sign boards made out of 2mm Aluminium sheet size 90x60 cms. Rectangle as per the design of IRC-67-1977 pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coats of best quality epoxy paint reflectorised with retro reflective sheeting as per latest MOST specification letter and numbers should be as per IRC:30-1968, 3.1 Mt. long (2 nos) stand post and frame fabricated from suitable size iron angle of 50x50x5mm, painted with best quality epoxy coating in black and white bends, the details of symbols on inscription/ numerals for each board shall be as per the instruction of the Engineer in charge. The fixing at site shall be in C.C 1:2:4 block of size 45x45x60cms. for each leg including excavation curing etc. complete under the supervision of engineer in charge (A) Engineer Grade.	5257.20	Rupees Five Thousand Two Hundred Fifty Seven and Paise Twenty only	One Number	10514.40
28	0.000	No	Railway crossing sign:Providing & Fixing sign boards made out of 2mm aluminium sheet, size 90x90x90cms. triangle plus 90 x 30cms additional plate as per the attached drawing (IRC) 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 sheeting as per latest M.O.S.T. Specifications 3.1. long stand post and frame fabricated from iron angle of 35 x 35 x 3mm , 75 x 75 x 6mm as required painted with best quality epoxy coatings in black and white bends. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 cms for each leg. including excavation curing etc. complete the supervision of engineer in charge.(A) Engineer Grade(VR)...	5484.93	Rupees Five Thousand Four Hundred Eighty Four and Paise Ninety Three only	One Number	0.00

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29	1.000	No	Citizen's information Board. Providing and fixing of typical MMGSY information board as per instruction. Two MS sheets of 3 mm thick, of 900 mm x 750mm size fixed at top & bottom duly rivetted with MS angles of 25 x 25 x 5 mm thick M.S angle shall be welded by two vertical M.S angle of 5 mm thick to 75 mm x 75 mm of 12 SWG square tubes posts duly embedded in cement concrete M-15 grade blocks of 600mm x 600mm x 750mm, below ground level. The letters & figure of any shade reflectorised with High Intensity Prismatic Grade Retro Reflective Sheeting of Type-4 as per ASTM D-4956 and latest MORD specifications; All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paints as per drawing Clause 1701 and Annexure 1700.1 (10.16). (A) Class-B High intensity Grade Retro Reflective sheeting.	8296.14	Rupees Eight Thousand Two Hundred Ninety Six and Paise Fourteen only	One Number	8296.14
30	0.000	Sqm	Road Marking with Hot Applied paints with reflectorising glass beads on bitumin surface providing and laying a hot applied thermoplasting compound 2.5mm thick including reflectorising glass beads @250 gm per sq.mtr area, thickness of 2.5mm is excluding of surface applied glass beads as per IRC:35-2015 the finished surface to be level, uniform and free from streaks and holes, zebra patta/bump/centerline/edge line/ cut patta. the while color marking should provide liminance coefficient on cement road shall be min. 130 mcd/m2/lux and asphalt road shall be min 100 mcd/m2/lux during the survice life during the date the marking should meet the performanace criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015 warranty for retroreflectivity shall be two years.	298.96	Rupees Two Hundred Ninety Eight and Paise Ninety Six only	One Squire metre	0.00

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31	0.000	No	Cate eye / road stud/ RPM : Supplying Raised Pavement markers of polycarbonate and ABS moulded body and reflective panels with micro prismatic lens (No glass bead lens) capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kgs. tested in accordanace to ASTM D 4280 type H and complying to specification of category A of MORTH circular No RW/NH/33023/10-97-DO III Dt. 11-06-1997. the height, width and length shall be exeed 20mm, 130mm and 130mm and with minimum reflective area of 13sqcm on each side and the slope to the base shall be 35+/-5 degree. the body of the marker should having finger grip for easy and accurate placement and application with epoxy /bituminous adhesive as recommended by the manufacturer of the marker. the colour of the marker should be as per the IRC:35-2015 and as directed by Engineer-in-charge.	364.61	Rupees Three Hundred Sixty Four and Paise Sixty One only	One Number	0.00
Rupees Seventy Five Lakh Nine Thousand Four Hundred Thirty Nine and Paise Ninety Nine only							7509439.99

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I \ We am \ are willing to carry out the work at % above \ below percent (Should be written in figures and words) of the estimated rate mentioned above. Amount of My \ Our tender works put as under.

* Estimated Amount

Put to tender **Rs.**.....

Deduct.....% Belowe **Rs.**.....

Net **Rs.**.....

In words.....

* Estimated Amount

Put to tender **Rs.**.....

Add.....% Above **Rs.**.....

Total **Rs.**.....

In words.....

Note : 1 All work shall be carried out as per Public Works Department Handbook and other specifications of Division or as directed.

નોંધ-૧ બધું જ કામ બાંધકામ વિભાગની પુસ્તિકા અને ડિવીઝનની બીજી ખાસ વિગત મુજબ અથવા સૂચના પ્રમાણે કરી આપવાનું રહેશે.

Note : 2 All the columns is Schedule should be filled in ink and the total of the entries in the last column should be struck by the contractor under this signature.

નોંધ : ૨ અનુસૂચિમાં બધા ખાનાની વિગતો સહીથી ભરવી અને છેલ્લા ખાનાની નોંધોનો સરવાળો કરી કોન્ટ્રાક્ટરે પોતાની સહી કરવી.

Note : 3 Rates quoted include clearance of site (prior commencement of work and at its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.

નોંધ-૩ : ટાંકેલા દરમાં, સ્થળની (કામના આરંભે અને પૂરૂ થાય તે વખતે)દરેક રીતે સાફસૂફી કરવાનો સમાવેશ થાય છે, અને તે દર તમામ પરિસ્થિતિ, સ્થળ, ભેજ, હવામાન વગેરે હેઠળ કામ અમલમાં રહેશે.

Note : 4 To be continued on additional sheets, if found necessary.

નોંધ-૪ : જરૂર જણાય વધારાના કાગળો જોડી ચાલું રાખવું.

Signature of Contractor

Deputy Executive Engineer
Panchayat R. & B. Sub Division
Botad

Executive Engineer
Panchayat R. & B. Division
Botad