

SCHEDULE - B

Memorandum showing items of works to be carried out

It. No.	Quantities estimated but may be more or		Item of work	Estimate	Unit	Total Amount according to estimated
				In figures Rs. Ps.		
1	2		3		6	7
1	0.20	Hect.	Clearing and grubbing road land including uprooting rank vegetation, grass bushes, shrubs, saplings and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials.(D) By mechanical means in area of thorny jungle.	34889.38	Hect.	6977.88
2	240.00	Cu.mt.	Earth work in cutting in all coats of soil and soft murrum including conveying and putting the stuff in spoil bank maintaining minimum distance of five meter between top edge of cutting and top of spoil bank.	112.02	Cu.mt.	26884.80
3	15.00	Rmt	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 daimeters.(iii) 600mm dia.	1968.38	Rmt	29525.70
4	120.00	Cu.mt.	Supplying, Stacking and Spreading the Hard Murrum including rolling and watering etc. Complete.	849.61	Cu.mt.	101953.20
5	13.30	Cu.mt.	Construction of Granular Sub Base by providing coarse graded machine crushed B. T. material satisfying MOST Specification of Grading - I using 53 mm to 26.5 mm @ 30% (M.C. Metal), 26.5 mm to 4.75 mm @ 60% (M.C.Metal), 2.36 mm below @ 10% (Stone Dust) including spreading in uniform layer with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC and compacting with vibratory roller to achieve the desired density with C.B.R. > 30% etc. complete.	1219.69	Cu.mt.	16221.88
6	389.40	M.Ton	Providing & laying 50.00 mm. thick compacted Bituminous Macadam with using Emulsion RS1 for tack coat at 2.5 Kg / 10 Sq.Mt. using stone aggregate as per gradation and aspahlt grade VG-30 at 3.40 % by weight of total mix hot laid process with drum mix plant including consolidation with vibrating roller including operating plant and machinery cost of asphalt, fuel, oil, lubricant and labour charges etc. complete.	2798.96	M.Ton	1089915.02

1	2		3		6	7
7	186.30	M.Ton	Providing & laying 25 mm. thick SDBC using B.T. stone chips as per MORTH gradation and specification with asphalt VG-30 at the rate of 50.00 kg. / M.Tone of total wt. for mix i.e. (5.00 %) by weight of total mix of bitumen including mixing aggregates & asphalt by continuous batching drum mix plant & spreading the same by paver finisher including rolling & consolidation with 10 - 12 tonnes vibratory roller & providing tools 7 plants, fire wood, oil, kerosene, labour charges using contractor's own machineries etc. complete.	3367.05	M.Ton	627281.42
8	3240.00	Sq.mt.	Providing and laying asphalt painting on B.T. surface with bitumen VG-30 at rate 5.00Kg / 10Sq.mt. including spreading stone dust for painting surface at rate of 0.03 cu.mt. / 10 sq.mt.	31.67	Sq.mt.	102610.80
9	45.00	Sq.mt.	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.	4526.65	Sq.mt.	203699.25
10	2.25	Sq.mt.	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.	72601.86	Sq.mt.	163354.19
11	1.00	No.	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 lettering and painting etc. complete. (For OD.R. & V.R.)	704.33	No.	704.33
12	4.00	No.	Providing and fixing Hectometer stone as per I.R.C. type design including lettering and painting etc. complete. (ii) Fixing in C.C. 1:5:10	356.50	No.	1426.00
13	1.00	No.	Informatory sings: Providing and fixing sing boards made out of 2mm aluminium sheet; size 80 x 60cms. rectangle as per the design of IRC-67-1977 pre treated with phospheting process & acid teching; coated with one coat of epoxyprimer and two coats of best qualityepoxy paint; reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; 3.1m long stand postand frame fabricated from suitable sizeiron angle of 35 x 35 x 3mm75x75x6mm as required; painted with best qualityepoxy coatings in black and whitebends. the details of symbol for eachboard shall details of symbol for eachboard shall be as per the instruction ofengineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x45 x 60cms. for each leg. including excavation curing tec. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)..	3856.90	No.	3856.90

1	2	3	6	7
14	3.00 No.	Village name/ Bump Ahead 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 one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro reflective sheeting as per latest M.O.S.T. Specifications; Letters and numerals should be as per IRC-30-1968, 3.1m long (2 nos) stand post and frame fabricated from suitable size iron angle of 50 x 50 x 5mm painted with best quality epoxy coatings in black and white bends. the details of symbol or inscription / numerals for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60cms. for each leg. including excavation curing etc. complete under the supervision of engineer in charge.(A) Engineer Grade(VR)...	5045.36 No.	15136.08
15	91.10 Sq.mt.	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 2.5mm is excludingof surface applied glass beds as per IRC:35- 2015. The finished surface to be level, uniform and free from streaks and holes. zebra patta /bump patta lane/center line/ edge line/cut patta. The white color marking should provide liminance coefficinet on cemend road shalll be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service lifeduring the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015. Warranty for the Retro reflectivity should be two years.	367.72 Sq.mt.	33499.29

1	2		3		6	7
16	99.33	No	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 lens face and shall support a load of 13635 kgs. tested in accordance to ASTM D 4280 Type H and complying to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 20mm, 130 mm and 130 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2 mm and height not less than 30+/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturers recommendation and The color of the marker should be as per	217.40	No	21594.34
17	2.00	No	Hazard Marker Sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 90x30 cms. rectangular as per design of IRC-67-2012. Pre treated with phospheting process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35 x 35 x 3mm; painted with bestquality epoxy coatings in black and white bends. The details of symbol for each board shall be as per the instruction 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 warranty for 7 years for the Retro reflective sheeting from original manufactu	3518.68	No	7037.36
18	44.30	Cu.Mt	Excavation for foundation up to 1.5m depth including sorting out and stacking of useful material and disposing off the excavated stuff as directed by Engineer in charge with all lead and lift in (2) Dense or hard Soil.	266.77	Cu.Mt	11817.91
19	4.70	Cu.Mt	Providing & filling in foundation with ordinary cement concrete M 100 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	3362.25	Cu.Mt	15802.58

1	2	3	4	5	6	7
20	33.90	Cu.Mt	Providing & filling in foundation with ordinary cement concrete M 150 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	3732.29	Cu.Mt	126524.63
21	10.00	Rmt	Supplying fixing & joining reinforced concrete heavy duty non pressure pipe carrying indian railway standard with collars for culverts carrying heavy traffic as per Indian railway standard specification including setting and joining the pipe in cement mortar 1:2 watering or laying (to level and slope)of I.S.class NP-3 900mm dia	3469.26	Rmt	34692.60
22	10.00	No.	Providing and fixing Guard stone as per I.R.C. type design including white washing etc. complete (II) Fixing in C.C. 1:5:10	350.80	No.	3508.00
						2644024.15

Rs. Twenty Six Lack Fourty Four Thousand Twenty Four and Paise Fifteen Only.

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

*Estimated amount

put to tender

Rs. _____

Deduct ____ % below

Rs. _____

Net

Rs. _____

In words _____

*Estimated amount

put to tender

Rs. _____

Add ____ % above

Rs. _____

Total

Rs. _____

In words _____

*(Please strike out which ever is not applicable)

Note 1:- The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.

Note 2 :- The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.

Note 3:- GST and Income tax TDS will be deducted at a source while making payments of bills

Note 4:- In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C, Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

Signature of Bidder

Executive Engineer
Panchayat (R&B) Division
Dang