

Name of Work:- મુખ્યમંત્રી બોર્ડર વિલેજ સર્વાંગી ઉત્કર્ષ યોજના 2025-26. Const.of Gusargam Village main road to Smashan road Ch 0/0 to 1/00 Ta.Songadh Dist.Tapi.

:: BILL OF QUANTITY. ' :: :

Percentage Rate Tender

It. No.	Description of Item (with brief Specification and reference to book of specifications)	Quantity	Unit	Rate In Figures	Amount
1	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.	0.30	Hect	28455.10	8536.53
2	Earthwork in cutting in all sorts of soil and soft murrum including conveying and spreading the stuff, embankment as and where directed within 200meters from the end of the cutting with all required lead and lift.	630.00	Cum.	130.94	82492.20
3	Earth work for embankment including breaking clods dressing with all lead & lifts and including watering rolling and consolidation of sub grade in layers of O.M.C. to required dry density including filling in depressions which occur during the process using vibratory roller 80 to 100 KN (E) From borrow area within 3.00 Km Lead Having C.B.R. More than 5.00%	1099.59	Cum.	173.67	190965.80
4	Supplying, Stacking, Spreading & rolling of Hard Murrum on road side for hard side shoulder of work as per specification including filling the measure boxes of standard size etc. complete.	120.00	Cum.	444.40	53328.00
5	Providing and laying Granular Sub Base Grade I by providing course graded material conforming to Table 400-2 of MOST specification of grading I, using material combination of crushed aggregate, stone dust etc. as required gradation including spreading, watering & consolidation by vibratory roller in grade and camber as directed.	440.00	Cum.	970.61	427068.40
6	Constructing of granular sub-base Gr-II by providing course graded B.T. machine crushed material satisfying MOST specification of grading II 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 etc. complete.	641.80	Cum.	922.13	591823.03

7	Providing and laying of Wet Mix Macadam base course as per MORTH specification using machine crushed B.T. chips as per required gradation, mixing with required optimum quantity of water, conveying the mix to site of work, spreading in to grade and camber with paver/mechanical means and consolidation each layer with vibratory roller to achieve the desired density including cost of material labour plant and equipment etc. complete.	400.00	Cum.	1076.66	430664.00
8	Providing and applying primer coat with Bitumen emulsion (SS-I) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 7.50 kg/ 10sqmt using mechanical means as per Technical Specification Clause 502. (Hincol made only) (ii) Medium porosity	3797.00	Sqmt	43.73	166042.81
9	Providing & laying bituminous base course 37.50 mm thick compacted in Single layer asphalt VG-30 grade at 1.99 % by weight of mix for mixing and 2.50 kg/10 smt VG-30 grade Asphalt for tack coat & using B.T. chips of required gradation including cleaning and heating asphalt, premix material by drum mix process in proper gradation and laying with paver finisher including rolling and consolidation with 8-10 tonne vibratory roller and providing all material equipment, tools, and plants, fire wood, oil, kerosene labour charges etc. complete using contractor's own machinaries, drum mix plant and paver finisher etc. complete.	285.00	MT	2242.20	639027.00
10	Providing, laying 25mm thick compacted bituminous carpet considering 0.66 cmt./10Smt. Stone chips for one M.ton as per specification, using the asphalt at rate 33.60 Kg/M.ton (i.e. 3.36% by weight of total mix)(VG-30) and asphalt for tack coat at rate 2.5 Kg/ 10sq.mt VG-30. including heating and mixing the asphalt and stone aggregates by continuous batching of drum mix plant and transporting and spreading the same by paver finisher and consoli-dation with vibratory roller with necessary equipments oil, kerosene,fire wood labour charges etc comp.with contractor's own machineries and equipment tools etc. complete in accordance with the requirement.	200.00	MT	2969.40	593880.00

11	Providing and laying seal coat with B.T. aggregate as specified using aggregate at the rate of 0.18 Cu.mt./10 Sq. mt. and bitumen grade VG-30 for mixing with aggregate at the rate of 4.50 % i.e. 45.00 Kg. / M.T including heating & mixing in hot / drum mix plant & transporting & spreading the same by paver finisher & consolidation with vibratory roller incl. necessary firewood, oil, lubricants, labour charges etc. using contractor's own drum mix plant, machineries & equipment, tools etc. complete in accordance with the requirement of specification.	103.00	MT	3221.90	331855.70
12	Providing and laying asphalt painting on B.T. surface with bitumen VG-30 at rate 5.00 Kg / 10.00 Sq.mt. of bitumen including spreading stone dust for painting surface at rate of 0.03 cu.mt. / 10 sq.mt.	3797.00	Sqmt	32.23	122377.31
13	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.)	2.00	Nos.	1293.39	2586.78
14	Providing and fixing Hectometer stone as per I.R.C. type design including lettering and painting etc. complete. (I) Fixing in C.C. 1:5:10	4.00	Nos.	356.50	1426.00
15	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 phosphating 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..	2.00	Nos.	5045.36	10090.72

16	Direction sign (Junction board):-Providing and fixing sing boards made out of 2mm aluminium sheet; size 120 x 90 cms. 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 75x75x6mm as required; 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.	2.00	Nos.	14831.71	29663.42
17	Informatory Signs :-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 treatedwith 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)..	1.00	Nos.	3856.90	3856.90

18	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 excluding of 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 coefficient on cemend road shall be min 130 mcd/m2/lux and Asphalt road shall be min 100 mcd/m2/lux during the service life during 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.	12.00	Sqmt	367.72	4412.64
19	Supplying and fixing cat eye (Stimsonite) made out from Acrilo beaultile sterine injuction high compressed molding with reflector made of MMC (prismatic type of size 12cm x 6cm x 2.5cm) provided with bituminousadhesive 100g. with each unit for fixing. (High Intensity grade)	8.00	Nos.	375.72	3005.76
20	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 phospheting 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.(B) Engineering Grade.	4.00	Nos.	3808.66	15234.64
21	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.(v) 600mm dia. (more than 10 ton)	15.00	rmt	1968.38	29525.70

22	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.	153.80	Cum.	254.36	39120.57
23	Providing & filling in foundation with ordinary cement concrete M 100 mix and providing necessary vertical pin headers including formwork vibrating ramming & curing complete.	35.90	Cum.	3326.71	119428.89
24	Providing & 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-Groves.(A) Height from 0.0 M. to 5.0 M	159.20	Cum.	3904.76	621637.79
25	Supplying fixing & joining reinforced concret heavy duty non pressure pipe with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting and joining the pipe in cement mortar 1:2 watering or laying of class NP-3 900mm dia.	7.50	rmt	3469.26	26019.45
26	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	30.00	Nos.	350.80	10524.00
27	Providing and fixing 20cm x 15cm x 2.5cm thick year plate of marble stone set in C.M. 1:4 including Finishing and engraving letters, etc. complete	1.00	Nos.	279.69	279.69
28	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	41.90	Sqmt	81.38	3409.82
29	Providing flood gauge marks on substructure as per design including painting complete.	1.90	rmt	164.68	312.89
30	Providing and laying rubble for apron (each stone weighting not less than 40Kg.) including and packing and filing in the interestices with quarry-spalls.	18.00	Cum.	1067.08	19207.44
31	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.(v) 1200mm dia. (more than 10 ton)	37.50	rmt	5560.01	208500.38
32	Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each disposed layer by ramming and watering.	137.00	Cum.	133.65	18310.05

33	Filling in foundation and plinth with murrum or selected soil in layers of 20 cm thickness including watering ramming consolidating etc. complete	21.00	Cum.	296.29	6222.09
34	Providing and casting in situ Controlled cement concrete M-200 for average 100 mm thick wearing coat laid as directed including temping vibra-ting finishing curring and filling in joints with Bitumen etc complete.	16.50	Cum.	5280.86	87134.19
35	Providing and fixing in position FE 500D TMT bar reinforcement including cutting, bending and tying complete as per detailed drawings. (D) Wearing Coat.	0.91	Cum.	73243.02	66651.15
					4964621.740
					4964621.740

I / Weam / are willing to carryout 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 out as under.

*Estimated amount put to tender

Deduct % below Rs.....

Net Rs.

In words

*Estimated amount put to tender

Add% Above

Total Rs.

In words

*(please strike out whichever is not applicable)

- 1 The Contractor shall exhibition board with detailed specification and details of works directed by the Engineer – In – Charge for which no extra payment shall bemade.
- 2 The labourcess will be deducted as per prevailing rules i.e. 1% of the work done.
- 3 GST and Income tax TDS will be deducted at a source while making payments of bills.
- 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 the reisa 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 the contractor

Executive Engineer
Panchayat (R & B) Division
Tapi