

KACHCHH PANCHAYAT R. & B. DIVISION BHUJ

**NAME OF WORK:-CONSTRUCTION OF SH TO TEJARA GAM VANKOL MANDIR ROAD(MMGSY 2025-26,
NON PLAN VR)**

BILLOF QUANTITIES

(A) Percentage Rate Tender (Upto INR 50 Cr)

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
1	2	3.00	4	5	6
1	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 unseviceable materials and stacking of serviceable materials to be use (A) By mechanical means in area of light jungle	0.48	Hect.	28455.08	13658.44
2	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.	676.00	Cmt.	109.24	73846.24
3	Earth work for embankment with selected soil C.B.R.not less than 6.0 including breaking clods, dressing, with all, lead and lift (excl. watering and consolidation) From borrow area with all lead & lift	2009.00	Cmt.	163.69	328853.21
4	Rolling & watering and consolidation earthwork using vibratory road roller 8 - 10 tonne capacity (A) Earth work (layer not exceeding 200mm thickness)	2009.00	Cmt.	22.96	46126.64
5	Providing and laying W.B.M. of 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	594.00	Cmt.	1197.22	711148.68
6	Providing and laying W.B.M. of M.C. metal of size 45 mm to 63 mm size including 0.12 Cu.M. Stone screening & 0.08 Cu.M. stone dust as filler including spreading, watering & consolidation by vibratory roller 80KN to 100KN static weight. 75 mm thick compacted each layer.	539.00	Cmt.	1093.51	589401.89

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
7	Providing and laying bituminous grout base course 37.50 mm compacted thi. using B.T. stone aggregates as per required gradation with the Bitumen V.G.-30 for tack coat 2.5 Kg/10 Smt on B.T.Surface and 4.0 Kg/10 Smt on W.B.M.Surfcae and asphalt V.G.-30 grade for mixing @ 1.99 % i.e. 19.90 kg./ MT by weight of mix incl. heating and mixing in drum mix plant transporting the mix , spreading the same by pavers finisher and consolidation as per MORTH specification incl. cost of all materials fuels, labors, tools and plant etc. using contractors own drum mix plant etc. comp. etc. comp.	264.00	M.T.	2257.82	596064.48
8	Providing and laying 37.50 mm thick compacted B.M. using stone chips 0.66 Cum / 1 M.Ton mix as per gradation and tack coat with Bitumen V.G.-30 grade @ 2.50 kg. / 10 Smt. on B.T. surface and asphalt grade VG-30 for mixing @ 34 kg/M.Ton (I.e. 3.40% of mix) including heating the and aggregate by contineous batching drum mix plant, transporting and mixed matrrial and spreading the same by paver finisher and consolidation by vibratory roller of 80 KN to 100 Kn static weight including the cost of labour oil, lubricants etc. using contractors own machineries and plant.	290.00	M.T.	2836.04	822451.60
9	Providing and laying bituminous sealcoat with stone chips 6 to 10mm size 0.18 cmt /10 smt. i.e. using 0.66 cmt agg.per M.T. mix using asphalt V.G.-30 @ of 4.50 % of mix inc. heating the asphalt and agg. By continous batching drum mix plant and paver finisher and consolidating by vibratory roller incl. providing equipments, tools, plants, firewood ,oil, kerosene, labour charges etc, comp, using the contractor's own machinary.	96.00	M.T.	3149.92	302392.32
10	Providing & Laying cement concrete 1:4:8 (1-Cement 4-Coarse sand 8-machine crushed stone aggregates 40mm nominal size) and curing complete in foundation and plinth.	254.80	Cmt.	2968.27	756313.92

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
11	Proving and laying cement concrete Grade M20 C.C.1:1.5:3(1 Cement:1.5 Coarse Sand:3 stone agg 20mm nominal size) for CC road and curring etc. comp. incl. cost of form work. Finishing the cement concrete road by Tri-mix process inclusive of labour charges for trimix vacume dewatering process on cement conc. road by using vacume dewatering pump, surface floater, including chanelling and making grooves & rough finish to surface, providing expansion join, construction joint incl. filling the joint with asphalt filler as per direction by engineer in charge as per specification.	296.00	Cmt.	5189.34	1536044.64
12	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	7044.00	Kg.	77.29	544430.76
13	Excavation for foundation in sand, gravel, clay soft soils and murrum etc. including shoring, strutting dewatering as necessary and disposing of the excavated stuff as directed.(A) Depth upto 3.0 M. and lead upto 100m for 10 Cum	247.00	Cmt.	157.33	38860.51
14	Providing and filling in foundation with ordinary cement concret M150 mix and providing necessary vetical pin headers including formwork vibrating ramming and curing complete.	210.20	Cmt.	3697.13	777136.73
15	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) 900mm dia.	75.00	Rmt.	3469.26	260194.50
16	Providing the diversion by proper means e.i. In proper grade, camber and approach etc. for easy passing of traffic incl. Providing neccesary sign board, making etc.and maintaining the same during the period of work up to complition of work.	56.00	Rmt.	329.31	18441.36
17	Providing and fixing ordinary kilometer stone of pre-cast c.c. 1:2:4 including necessary reinfor- cement as per I.R.C. type design fixing in C.C. 1:4:8 including letter and paints etc. complete.	2.00	No.	704.33	1408.66

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
18	Providing and fixing hectometer as per I.R.C. type design including painting,lettering etc. complete. (ii) Fixing in C.C. 1:5:10	5.00	No.	356.50	1782.50
19	Providing fixing indicator stone of approved stone as per I.R.C. type design in c.c. 1:4:8 including white washing etc. complete. (ii) Fixing in C.C. 1:5:10	41.00	No.	343.27	14074.07
20	Facility Informatory Sign :-Providing and fixing sign boards with logo of MMGSY made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 80 x 60 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 refiectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr 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 manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting.	1.00	No.	3990.64	3990.64

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
21	Cautionary Warning Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ;reflectorised with Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6mtr long stand post of 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 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 warranty for 10 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (A) Class-C Type-11 Retro Reflective sheeting	4.00	No.	5077.27	20309.08

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
22	Give Way Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90 x 90 cms. equilateral triangle 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; 3.6mtr 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 manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting(S.O.R.It.No.26097B)	1.00	No.	3906.19	3906.19

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
23	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 refiectivesheeting 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 manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting	2.00	No.	3518.69	7037.38

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
24	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 one coat of epoxy primer and two coats of best quality epoxy paint; reflectorised with retro refiective 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(VR).	1.00	No.	14831.71	14831.71

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
25	STOP Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 cms. Octagonal 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; 3.6mtr 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 manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting.	1.00	No.	6704.36	6704.36

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
26	Village name Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90x60 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; 3.3mtr 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 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 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 manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting	1.00	No.	6397.43	6397.43
Total Rs.					₹ 7,495,807.94

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 out as under .

Estimated amount put to tender Rs.74,95,807.94

Deduct% below

Net

In words.....

Estimated amount put to tender Rs.74,95,807.94

Add% Above

Net

In words.....

Signature of the Contractor.

**Executive Engineer
R & B Panchayat Division
Bhuj - Kachchh**