

Construction of Rahij to Paneri Area Road (NP) Km.0/0 to 2/450 Ta.Mangrol Dist.Junagadh (MMGSY Normal ~ 2025-26)

BILL OF QUANTITIES

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
1	Clearing and grubbing of road land incl.uprooting rank vegetation, grass, bushes, shrubs, 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.	0.98	One Hect.	28455.09	27885.99
2	Earthwork for embankment including breaking clods, dressing with all lead and lift (excluding watering and consolidation) Selected soil from borrow area within Land width from 20 km. lead, Executed with machineries (Selected soil to be used for earthwork shall be from Borrow Area only having CBR not less than 6.00%)	13636.00	One Cum	338.42	4614695.12
3	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.	2344.00	One Cum	134.12	314377.28
4	Providing, Laying, spreading and Compacting of Hard Murrum with all lead of 37 Kms. Incl. Spreading, rolling and watering of material.	564.00	One Cum	660.22	372364.08
5	Granular Sub-base with Black trap crushed stone Well Cum. 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 grader 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 I Material	2670.00	One Cum	1209.48	3229311.60
6	WBM Grading 1 Providing, laying, spreading and compacting stone aggregates of 90 to 45mm sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density grading I as per Technical Specification Clause 405. By Manual Means	1011.00	One Cum	1709.30	1728102.30
7	WBM Grading 2 Providing, laying, spreading and compacting stone aggregates of 63 to 45mm sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density . By Manual Means	1516.00	One Cum	1571.59	2382530.44
8	Rolling and Watering of earthwork in layers with vibratory roller including filling in depression which occur during the process as directed.	13636.00	One Cum	22.95	312946.20
9	Providing & Laying bitumeneous grout 37.50 mm thick using RS-1 Emulsion for tack coat at the rate of 4.00Kg/ 10 sqm on WBM surface and using B.T.chips for required gradation with the asphalt of grade VG-30 at the rate of 1.99% i.e. 19.90 Kg./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.	705.00	One MT	3147.36	2218888.80

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
10	Providing, laying & rolling 37.50 mm thick compacted Bitumeneous Macadam (B.M.) in one layer with B.T. aggregates as specified and using RS-1 Emulsion for tack coat at the rate 2.50 Kg/10Sqm on WBM Surface (As per IRC-16) and using bitumen for mixing with aggregate at the rate of 3.40% i.e. 34.00 kg/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 including cost of Hire charges, firewood, oil, Lubricants, labour charges, etc.by using contractor's own Drum mix plant, machineries and equipment, tools etc. complete in accordance with the requirement of specification.	775.00	One MT	4106.85	3182808.75
11	Providing and laying and rolling of 20mm Thick compacted mix seal surface with B.T.and aggregate as specified using bitumen for mixing with aggregate at the rate of 5.10% i.e. 51.00kg/ M.T. 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 firewood, oil, lubricants labour charges, using contractor's own drum mix plant, machineries and equipment, tools etc.including flushing of sand 0.30 cum/10sqm. etc complete in accordance with the requirement of specification.	432.00	One MT	5063.96	2187630.72
12	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 meter lead. Dense or hard soil.	109.00	One Cum	253.88	27672.92
13	Excavation for foundation upto 1.5m depth including sorting out and stacking of useful materials and disposing of the excavated stuff upto 50 meter lead. Hard Murrum	101.00	One Cum	432.61	43693.61
14	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. (A) Height from 0.0 M to 5.0 M	268.00	One Cum	3921.63	1050996.84
15	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.	28.00	One Cum	3345.58	93676.24
16	Providing and laying weep hole in Abutment and returns by using P.V.C pipe of 90mm. Incl. fixing in proper grade and jointing the complete as per detailed specification	99.00	One No	146.20	14473.80
17	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.	1.770	One MT	73858.69	130729.88
18	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.	46.00	One Cum	136.91	6297.86
19	Supplying and fixing reinforced concrete heavy duty nonpressure 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.1)300mm. Dia	30.00	One Rmt.	659.99	19799.70

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
20	Supplying and fixing reinforced concrete heavy duty nonpressure 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 diameters. 1) 900mm. Dia	50.00	One Rmt.	3469.25	173462.50
21	Providing and fixing Precast Cement Concrete Hectometer as per IRC type design incl. painting, lettering etc. fixing in C.C. 1:5:10.	10.00	One No	356.49	3564.90
22	Providing and fixing Precast Cement Concrete Guard stone as per I.R.C. type design including white washing etc. complete. fixing C.C. 1:5:10	120.00	One No	213.79	25654.80
23	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.	3.00	One No	704.33	2112.99
24	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	123.00	One No	102.84	12649.32
25	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.	2.00	One No	5236.69	10473.38
26	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	2.00	One No	3437.59	6875.18
27	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.	8.00	One No.	3072.98	24583.84
28	Citizen's Information Board- Providing and fixing of typical MMGSY information board as per instruction. Two M.S. sheets of 3 mm thick of 900mm x 750mm size fixed at top & bottom duly rivetted with MS angles of 25x25x5mm thick M.S. angle shall be welded by two vertical M.S. angle of 5mm thick to 75mm x 75mm 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.	1.00	One No	8560.76	8560.76
29	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 cement road shall be min 130 mcd/m ² /lux and Asphalt road shall be min 100 mcd/m ² /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.	917.00	One Sqm	367.72	337199.24

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
30	Supplying and fixing cat eye (Stimsonite) made out from Acrilo beaultie sterine injuction high compressed molding with reflector made of MMC (prismatic type of size 12cm x 6cm x 2.5cm) provided with bituminous adhesive 100g. with each unit for fixing. (High Intensity grade)	310.00	One No	375.72	116473.20
31	Regulatory / Mandatory Signs Providing and Fixing sign boards made out of 2mm aluminum sheet : size 60 cms. diamete circle as per design of IRC-67-1977. Pretreated with phospheting process andmacid 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 specification: 3.1 M. long stand post and frame fabricated from suitable size iron angle of 35*35*3mm 75*75*6mms. required: painted with best quality epoxy coatings in black and white bends the details of symbole 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*45*60 cms for each leg: includingexcvation curing etc. comp.under the supervision of engineer-in-charge. (A) Engineer grade.	4.00	One No	3439.80	13759.20
32	Village Name : Providing and Fixing sign boards made out of 2mm aluminum sheet : size 90*60 cms. rectangle as per design of IRC-67-1977. Pretreated with phospheting 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 M.O.S.T specification: 3.1 M. long (2 nos) stand post and frame fabricated from suitable size iron angle of 50*50*5mm painted with best quality epoxy coatings in black and white bends the details of symbole 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*45*60 cms for each leg: including excvation curing etc. comp.under the supervision of engineer-in-charge.(B)Engineer grade	8.00	One No	5045.36	40362.88
33	Hazard Marker sign : Providing and Fixing sign boards made out of 2mm aluminum sheet : size 90*30 cms. rectangle as per design / Drawing attached (IRC). Pretreated with phospheting 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 M.O.S.T specification: 3.1 M. long (2 nos) stand post and frame fabricated from suitable size iron angle of 35*35*3mm and 50*50*5mm : painted with best quality epoxy coatings in black and white bends the details of symbole 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*45*60 cms for each leg: including excvation curing etc. comp.under the supervision of engineer-in-charge. (B) Engineer grade	1.00	One No	2423.73	2423.73

Item No.	Description of Item (With brief specification and reference to book of Specification)	Quantity	Unit	Rate In Figures	Amount
34	Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50cm 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; 3.3 mtr 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 35x35x3mm; 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 block of 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. (A) Class-C Type-11 Retro Reflective sheeting	24.00	One No	4681.35	112352.40
Two Crore Twenty Eight Lakh Forty Nine Thousand Three Hundred Ninety Rupees And Forty Five Paise					22849390.45

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.....%

Net **Rs**.....

In words.....

* Estimated Amount

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

Add.....%

Total **Rs**.....

In words.....

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.

2.The labour cess 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 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 Contractor.

Deputy Executive Engineer
Panchayat R&B Sub Division
Keshod-1

Executive Engineer
Panchayat R&B Division
Junagadh