

## Panchayat R&B Division

### Junagadh

Name of Work :Work of Widening, Strengthening and Resurfacing of various road as and when required or in emergency under Panchayat R&B Division, Junagadh (Annual Rate Basis)

#### BILL OF QUANTITY

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
1	Providing and laying 37.5 mm thick Bituminous Macadam with B.T. aggregate as per M.O.R.T. & H. specification and using emulsion RS-1 as per IS 8887: for tack coat @ 2.50 KG. / 10 Sq.m. with mechanical sprayer and Bulk asphalt VG-30 for mixing @ 34.00 KG. / M.T. i.e. 3.40 % of total weight of mix including heating and mixing the aggregate and asphalt in continuous of drum mix plant and hot laid process spreading the same by paver finisher and consolidation with roller as per M.O.R.T. & H specification to achieve desired density, including providing all materials equipments, tools and plants, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery drum mix plant and paver finisher etc. complete.	19078.00	MT.	2967.38	Rupees Two Thousand Nine Hundred Sixty Seven And Paise Thirty Eight Only	5,66,11,675.64
2	Providing, laying and rolling of 25mm thick using Bitumean grade of VG-30 open graded premix bituminous carpet with B.T. aggregate as specified and using RS1 Emulsion for tack coat at the rate of 2.50 Kg/10 Sqm on B.T.Surface. (As per IRC-16) and using bitumen for mixing with aggregate at the rate of 3.36% i.e. 33.60 Kg/M.T. of total mix including heating and mixing in drum mix pant, spreading the same with paver finisher and consolidation with vibratory roller includng necessary firewood, oil lubricants, labour charges etc. using equipment, tool etc completed in accordance with the requirement of specification (as per R.A)	5919.00	MT.	2820.34	Rupees Two Thousand Eight Hundred Twenty And Paise Thirty Four Only	1,66,93,581.38

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
3	Providing and laying Compacted 100 mm thick of Specified quarry Spall in side shoulder including carriage of material and spreading on prepared base including compacting as per MOST Specification etc... complete.	400.00	Cum.	860.52	Rupees Eight Hundred Sixty And Paise Fifty Two Only	3,44,208.00
4	Construction of granular sub-base 200mm thick layer by providing machine crushed B.T. material satisfying MORT&H specification (Fifth revision) of grading III 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.	550.00	Cum.	1147.36	Rupees One Thousand One Hundred Forty Seven And Paise Thirty Six Only	6,31,048.00
5	Providing, Laying, spreading and compacting 250 mm thick graded stone aggregates to wet mix macadam in Two layers each of 125 mm as per MORT & H specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tippers to site, laying in uniform layers with paver in sub base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	688.00	Cum.	1451.37	Rupees One Thousand Four Hundred Fifty One And Paise Thirty Seven Only	9,98,542.56
6	Providing and laying Bituminous Grout 37.5 mm thick compacted with asphalt VG-30 grade at the rate of 1.99% by weight of total mix with tack coat at 2.50 Kg/10 Sqmt. On existing B.T/ Metal. surface and using B.T. chips of required gradation including cleaning & heating the aggregate and asphalt by Drum Mix Plant & spreading the same by paver finisher & consolidation with vibratory road roller including providing all materials, equipments, tools, plants, fire wood,	11113.03	MT.	2368.45	Rupees Two Thousand Three Hundred Sixty Eight And Paise Forty Five Only	2,63,20,658.86
7	Clearing and grubbing road land including uprooting trunk vegetation, grass bushes, shrubs, saplings and tree 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	42.00	Hec.	28455.09	Rupees Twenty Eight Thousand Four Hundred Fifty Five And Paise Nine Only	11,95,113.78

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
8	Graded II Granular sub base (GSB) Providing & Laying of Compacted closed graded Granular Sub base(GSB) in single layer of graded granular material consisting of only black trap crushed stone aggregate as per grading-IV given table 400-1 of the specification MORT & H and compacted to the required desity with vibratory roller with plain drum or heavy pneumatic tyred roller of minimum 200 to 300 KN weight in all seasons as per MORT&H, maintaining the required slope & grade during the operation as approved by the engineer in charge & watering to the proper moisture content and sprinkled with the help of truck mounted water tank fitted with suitable arrangements (Fully saturated having CBR value not less than 30)	375.00	Cum.	959.50	Rupees Nine Hundred Fifty Nine And Paise Fifty Only	3,59,812.50
9	Scarifying gravelled macadam or bitumen macadam surface 6cm to 10 cm depth including stacking useful materials on road side spreading the same in required grade and camber with adding fresh key aggregate 6mm to 10mm nominal size at the rate of 0.18 cum / 10sqm of scarified area including compacting with vibratory roller and disposing of the remaining stuff as directed.	1375.00	Sqmt.	41.60	Rupees Forty One And Paise Sixty Only	57,200.00
10	Providing and Spraying Prime Coat with Bitumen emulsion S S-1 @ 7.50 Kg / 10 SqM including Cost of asphalt	2750.00	Sqmt.	65.65	Rupees Sixty Five And Paise Sixty Five Only	1,80,537.50
11	Earth work for embankment including breaking clods, dressing with all lead and lift including watering, rolling and consolidation of sub grade in layers at O.M.C to required dry density including filling the depression which occur during the process using vibratory roller 8 to 10 Tonne (c) From Borrow area with in 3.0 KM Lead	2813.00	Cum.	177.91	Rupees One Hundred Seventy Seven And Paise Ninety One Only	5,00,460.83
12	Rolling and watering of earth work in layers with power roller including filling in depression which occur during the process	2813.00	Cum.	22.95	Rupees Twenty Two And Paise Ninety Five Only	64,558.35

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
13	Earthwork in cutting including preparing the slope and camber and stacking or utilising the cutting stuff in bank as directed upto 200 meters from the end of cutting with all lead and lift (III) Hard rock	1800.00	Cum.	582.93	Rupees Five Hundred Eighty Two And Paise Ninety Three Only	10,49,274.00
14	Excavating in situ soil and spreading available soil in the subgrade on a prepared surface, pulverising, mixing and spread soil in place with rotavator with 2 to 3 % Slaked lime + 15 to 20 % Flyash, Slaked lime having minimum 70 per cent of contents of CaO and Flyash of required properties, grading with hydraulic tractor grader and compacting with the smooth wheel road roller at OMC to achieve the desired density & CBR to form a layer of improved Sub grade as per Technical Specification clause 403.	700.00	Cum.	834.26	Rupees Eight Hundred Thirty Four And Paise Twenty Six Only	5,83,982.00
15	Excavation for foundation up to 1.50 mt depth including sorting out and stacking of useful material and disposing of the excavated stuff up to 50 mt. lead (1) Loose or soft soil	566.00	Cum.	198.76	Rupees One Hundred Ninety Eight And Paise Seventy Six Only	1,12,498.16
16	Providing and filling in foundation with ordinary cement concrete M.100 mix and providing necessary vertical pin headers including form work vibrating ramming and curing complete.	100.00	Cum.	3345.58	Rupees Three Thousand Three Hundred Forty Five And Paise Fifty Eight Only	3,34,558.00
17	Providing and casting in-situ ordinary cement concrete M150 mix and providing necessary pin headers including shuttering, scaffolding, laying, vibrating and finishing without V-grooves ( A ) Height from 0.0 to 5 Mt.	297.00	Cum.	3921.83	Rupees Three Thousand Nine Hundred Twenty One And Paise Eighty Three Only	11,64,783.51

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
18	Supplying and fixing reinforced concrete heavy duty non pressure pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying (to level or slope)of I.S. 458/1971 Class NP3 casted by vertically vibrated technology of following internal diameter. 900mm dia.	88.00	Rmt.	3271.56	Rupees Three Thousand Two Hundred Seventy One And Paise Fifty Six Only	2,87,897.28
19	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 slope)of class NP3 1200mm diameter.	37.50	Rmt.	5516.63	Rupees Five Thousand Five Hundred Sixteen And Paise Sixty Three Only	2,06,873.63
20	Providing and filling sand around the pipe including hand packing ramming, watering, filling measure boxes etc. complete as directed.	169.00	Cum.	562.07	Rupees Five Hundred Sixty Two And Paise Seven Only	94,989.83
21	Providing Diversion of road 5.50 mt width (Having 7.50 mt formation width ) For structure by providing & spreading Earth work , 100 mm GSB-III, 100 mm GSB -V, 100 mm WMM ,BUSG Manually Width Side shoulder and loose pipe. The length of Road is depend on site condition etc as directed by Engineer in Charge .	300.00	Rmt.	4112.72	Rupees Four Thousand One Hundred Twelve And Paise Seventy Two Only	12,33,816.00
22	Providing Diversion of road 5.50 mt width (Having 7.50 mt formation width ) For structure by providing and laying 37.5 mm BM, 18 Sealcoat. The length of Road is depend on site condition etc as directed by Engineer in Charge .	300.00	Rmt.	1902.84	Rupees One Thousand Nine Hundred Two And Paise Eighty Four Only	5,70,852.00

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
23	Dry Lean Cement Concrete Sub- base (Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing.)	550.00	Cum.	2156.07	Rupees Two Thousand One Hundred Fifty Six And Paise Seven Only	11,85,838.50
24	Cement Concrete Pavement (Construction of un-reinforced, dowel jointed, plain cement concrete pavement over a prepared sub base with 43 grade cement @ 400 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing )	1100.00	Cum.	6463.78	Rupees Six Thousand Four Hundred Sixty Three And Paise Seventy Eight Only	71,10,158.00
25	Providing and fixing pre-cast Rubber Dye / steel Dye inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed / vibrated mechanically and as per approved design Confirming to IS 15658 : 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC : SP 63-2018 etc. Complete.	1000.00	Sqmt.	706.93	Rupees Seven Hundred Six And Paise Ninety Three Only	7,06,930.00

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
26	Scarifying gravelled macadam or bitumen macadam surface 6 cm to 10 cm.depth including stacking useful materials on road side and disposing off remaining stuff.	7000.00	Sqmt.	41.60	Rupees Forty One And Paise Sixty Only	2,91,200.00
27	Providing laying and spreading granular materials available from existing crust and adding fresh machine crushed material in required proportion so as to have mix material gradation of GSB grade I/II/III, mixing in place with rotavator and grading with mortar grader at OMC and compacted with vibratory roller to achieve desired density etc. complete.	703.00	Cum.	606.00	Rupees Six Hundred Six Only	4,26,018.00
28	Providing and laying 20mm thick Mix Seal Surface with tack coat @ 2.0 kg/10 sqm using B.T. chips as per M.O.R.T. & H. gradation type A and specification with VG-30 for mixing @ 51.00 Kg / M.T. i.e. 5.1 % of total weight of mix using including heating and mixing the aggregate and asphalt in continuous of drum mix plant and hot laid process spreading the same by paver finisher and consolidation with roller as per M.O.R.T. & H. specification to achieve desire density, including providing all materials equipments, tools and plants, fire wood, oil, kerosene, labour charges etc. complete using contractor's own machinery, drum mix plant and paver finisher etc. complete.	30094.00	MT.	3840.02	Rupees Three Thousand Eight Hundred Forty And Paise Two Only	11,55,61,561.88
29	Providing & laying seal coat with B.T. agg. as specified using agg. at the rate of 0.18 cu.mt/10Sq.Mt.and bitumen for mixing agg. at the rate of 4.50% i.e. 45.00 kg/M.T. of total mix for binder and including heating & mixing in hot / drum mix plant & transporting & sreading 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.	1766.00	MT.	3746.09	Rupees Three Thousand Seven Hundred Forty Six And Paise Nine Only	66,15,594.94

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
30	Road marking with hot applied thermoplastic paint with reflectorising glass beads on bitumen surface providing and laying a hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm 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 colour 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 the section 15 of IRC 35-2015 Warranty for the Retro reflectivity should be two years	2573.00	Sqmt.	367.72	Rupees Three Hundred Sixty Seven And Paise Seventy Two Only	9,46,143.56
31	Cats eye/Road stud/RPM : supplying Raised pavement marker made of polycarbonate and ABS moulded body and reflective panels with micro prisamatic lens (No glass ebnd 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 20 mm , 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 body of the marker should having finger grip for easy and acurate placement and application with epoxy/bituminous adhesive as recomonation by the manufacturer of the marker. The color of the marker should be as per the IRC 35-2015 and as directed by Engineer in charge.	3063.00	no.	326.23	Rupees Three Hundred Twenty Six And Paise Twenty Three Only	9,99,242.49



Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
32	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 phospheting 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	50.00	no.	5077.27	Rupees Five Thousand Seventy Seven And Paise Twenty Seven Only	2,53,863.50

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
33	Direction (Junction) Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 244x122 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; 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	50.00	no.	26572.09	Rupees Twenty Six Thousand Five Hundred Seventy Two And Paise Nine Only	13,28,604.50

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
34	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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3mtr 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 or inscription/letters / 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 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	30.00	no.	6313.51	Rupees Six Thousand Three Hundred Thirteen And Paise Fifty One Only	1,89,405.30

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
35	Hazard Marker Sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 1.8mtr 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	100.00	no.	3666.30	Rupees Three Thousand Six Hundred Sixty Six And Paise Thirty Only	3,66,630.00

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
36	Chevron sign :-Providing and fixing sign boards made out of 1.5mm aluminium sheet / 3mm ACP (Aluminum composite Panel); size 60x50 cm 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.3 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; 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 10 years for the Retro reflective sheeting from originaa 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	150.00	no.	4681.35	Rupees Four Thousand Six Hundred Eighty One And Paise Thirty Five Only	7,02,202.50
37	Providing and fixing 5th Km. stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design fixing in C.C. 1:4:8 including painting and lettering etc. complete S.H.	10.00	no.	1935.15	Rupees One Thousand Nine Hundred Thirty Five And Paise Fifteen Only	19,351.50
38	Providing and fixing ordinary kilometer stone of precast C.C. 1:2:4 including necessary reinforcement as per I.R.C. type design fixing in C.C. 1:4:8 including painting and lettering etc. complete for S.H.	25.00	no.	1293.38	Rupees One Thousand Two Hundred Ninety Three And Paise Thirty Eight Only	32,334.50

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
39	Providing and fixing hectometer as per I.R.C. type design including painting lettering etc. complete fixing in C.C. 1:5:10.	80.00	no.	356.50	Rupees Three Hundred Fifty Six And Paise Fifty Only	28,520.00
40	Regulatory / Mandatory Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 60 cms Dia Circle 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 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	50.00	no.	4618.73	Rupees Four Thousand Six Hundred Eighteen And Paise Seventy Three Only	2,30,936.50

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
41	STOP Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 cms Octagone 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 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	10.00	no.	7213.42	Rupees Seven Thousand Two Hundred Thirteen And Paise Forty Two Only	72,134.20
42	Providing and laying of raised profile edge line marking ( audible warning ) with hot applied thermoplastic road marking compound 2mm thick base coat layer above that ribs profile of 6 mm thick ( Total 8 mm thick ) at the distance of 500 mm between two ribs including reflectorizing glass beads @ 250 gm/ sq.mt area. The minimum and maximum width of raised profile should be 150 mm. The thickness of 8 mm profile should be exclusive of surface applied glass beads. The finished surface to be levelled, uniform and free from streaks and holes, to be applied on edge lines.	450.00	no.	827.19	Rupees Eight Hundred Twenty Seven And Paise Nineteen Only	3,72,235.50

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
43	Facility Informatory Sign :-Providing and fixing sign boards 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 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	15.00	no.	5906.48	Rupees Five Thousand Nine Hundred Six And Paise Forty Eight Only	88,597.20
44	Tree Guard sign :-Providing & fixing sign board made out of 2mm aluminium sheet / 3mm ACP (Aluminum composite Panel) , size 30cms diameter circle, pretreated with phospheting process and acid etching, painted 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. 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	30.00	no.	531.26	Rupees Five Hundred Thirty One And Paise Twenty Six Only	15,937.80



Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
45	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 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	5.00	no.	5077.27	Rupees Five Thousand Seventy Seven And Paise Twenty Seven Only	25,386.35
46	Route Marker sign :-Providing and fixing sign boards made out of 2.0 mm aluminium sheet / 4 mm ACP (Aluminum composite Panel); size 60x45 cm rectangular plus 30x25cm additional plate 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 3.6 mtr long stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 35x 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 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	10.00	no.	5108.58	Rupees Five Thousand One Hundred Eight And Paise Fifty Eight Only	51,085.80

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
47	Distance Informatory / Destination Sign :- Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x120 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr long (2 Nos.) stand post of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; 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	10.00	no.	20918.11	Rupees Twenty Thousand Nine Hundred Eighteen And Paise Eleven Only	2,09,181.10
48	Diversion Ahead Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x60 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; 3.1 mtr long stand post (2 Nos.) of Iron Angle 50 x 50 x 5mm / 50NB 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	10.00	no.	9867.07	Rupees Nine Thousand Eight Hundred Sixty Seven And Paise Seven Only	98,670.74

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
49	Men at work (Heavy) sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 120cm x 90cm 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; 3.6 mtr long stand post (2 Nos.) of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50x50x5mm; 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	10.00	no.	9148.16	Rupees Nine Thousand One Hundred Forty Eight And Paise Sixteen Only	91,481.56
50	Portable Barricade in Construction Zone (Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 450, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 )	5.00	no.	3035.05	Rupees Three Thousand Thirty Five And Paise Five Only	15,175.25

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
51	Standard Delineator: Providing and fixing Standard Metal Delineator consisting of minimum retro reflective unit exposed area of 330 cm <sup>2</sup> white color, full cube corner micro prismatic non- metallic retro reflective sheeting on each side conforming with IRC 67-2012 and meeting the coefficient of retro reflection values as per ASTM D 4956 Type XI table specification. The delineator shall be painted with powder coat of minimum 401 microns thickness, on top of which retro reflective sheeting shall be pasted on both sides. The structure shall be manufactured in roll forming process and shall have height not less than 800 mm above the ground, width not less than 100 mm and shall extend not more than 300 mm below the ground while being intalled, height of sheeting should be minimum 150 mm whereas width of sheeting should not be less than 75 mm (should be placed every alternative 15cm), The front and the back faces opf the delineator should be curved with a radius of not more than 200 mm and with delta angle (or central angle of curve) lying between 20 and 30, to increase the visibility of delineator for vehicles moving in continuous curves. The delineator shall have grooves across the length to make the reflective sheets vandal- proof. The delineator is meant for application on gaps in median, traffic islands, dangerous bends, roundabouts,, narrow bridge etc. or as desired by site engineer.	10.00	no.	1027.17	Rupees One Thousand Twenty Seven And Paise Seventeen Only	10,271.70
52	Type - A, "W" : Metal Beam Crash Barrier (Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 811)	700.00	Rmt.	3468.34	Rupees Three Thousand Four Hundred Sixty Eight And Paise Thirty Four Only	24,27,838.00

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
53	Sign board per Squate Meter :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 1meter x1 meter 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 Micro Prismatic Grade retro reflectivesheeting of Type-11 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4 mtr long stand post (2 Nos.) of 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; 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 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	20.00	no.	12310.89	Rupees Twelve Thousand Three Hundred Ten And Paise Eighty Nine Only	2,46,217.80
54	Providing & laying rubble stone pitching 22.5 cm thick including preparing the surface and providing panelwall for pitching 3.0 x 3.0 m of cement concret 1:2:4 including pointing on pitching in CM 1:3 including curing,cost of all materials and labour.	53.00	Sqmt.	863.55	Rupees Eight Hundred Sixty Three And Paise Fifty Five Only	45,768.15
55	Providing and laying in position C.C 1;2:4 water chute as directed including with all necessary excavation curing incl all material labour etc complete	32.00	Sqmt.	1231.19	Rupees One Thousand Two Hundred Thirty One And Paise Nineteen Only	39,398.08
56	Wall painting two coats with plastic emulsion paint of approved brand and manufacturer on wall surfaces to give an even shade including throughly brushing the surface to remove all dirt, dust, mortar drops and other foreign matter.	330.00	Sqmt.	82.85	Rupees Eighty Two And Paise Eighty Five Only	27,340.60

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
57	Hire charge for compressor	20.00	Hr	205.42	Rupees Two Hundred Five And Paise Forty Two Only	4,108.48
58	Hire charge for crane	20.00	Hr	706.14	Rupees Seven Hundred Six And Paise Fourteen Only	14,122.83
59	Hire charges for Vibratory roller 8 - 10 tonnes @ 100 cum per hour	30.00	Hr	850.79	Rupees Eight Hundred Fifty And Paise Seventy Nine Only	25,523.81
60	Hire charges for Motor grader for grading @ 100 cum per hour	20.00	Hr	1322.41	Rupees One Thousand Three Hundred Twenty Two And Paise Forty One Only	26,448.26
61	Hire charges for Truck (Considering 1 Truck for 20 days @ Rs.5000 Per Day)	8.00	day	4279.66	Rupees Four Thousand Two Hundred Seventy Nine And Paise Sixty Six Only	34,237.30

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
62	Hire charges for Tractor Trolley (Considering 1 Tractor Trolley for 20 Days (8 Hours per Day Rs.245 per Hour)	25.00	day	1677.63	Rupees One Thousand Six Hundred Seventy Seven And Paise Sixty Three Only	41,940.76
63	Hire charges for Labour charges - Mazdoor (Male/Female)	100.00	day	510.05	Rupees Five Hundred Ten And Paise Five Only	51,005.00
64	Hire Charge For Hydraulic Excavator 1 cum bucket capacity @ 60 cum per hour	250.00	Hr	718.98	Rupees Seven Hundred Eighteen And Paise Ninety Eight Only	1,79,744.65
65	Hire Charge For Dozer 80 HP for spreading @ 200 cum per hour	25.00	Hr	2054.24	Rupees Two Thousand Fifty Four And Paise Twenty Four Only	51,355.98
66	Providing and fixing 1.20 Metre high fencing with 2.0 Metre long M.S. Angle posts 40mm x 40 mm x6 mm and oil painting 3 coats fixed at 2.5 Mt,C/c. with five Horizontan lines and two diagonals of galvanised steel barbed wire weighting 9.38 Kg. per 100 Metre, strained and fixed to posts with G.I,staples including fixing the postsin ground with 0.5 M x 0.5.M x 0.5 M. block in C.C 1:5:10 etc complete.	50.00	Rmt.	391.93	Rupees Three Hundred Ninety One And Paise Ninety Three Only	19,596.53

Sr. No.	Description of Item	Quantities Estimated but may be more or	Unit	Tendered Rate		Total amount according to estimated quantites
1	2	3	4	5	5	6
67	Providing and laying rubble for apron (each stone weighting not less than 40Kg.) including and packing and filing in the interestices with quarry-spalls.	200.00	Cum.	1083.81	Rupees One Thousand Eighty Three And Paise Eighty One Only	2,16,762.16
<b>Total Amount :</b>						<b>25,10,93,024.00</b>
<b>Rupees Twenty Five Crore Ten Lakh(s) Ninety Three Thousand Twenty Four Only</b>						

**Note :-**

I/We am/are willing to carry out the work at ..... % above / below percent [should be written in figures and words] of the estimated rates mentioned above. Above of my / our tender works out as under.

Estimated Amount

Put to tender Rs. ....

Deduct ..... % below Rs. ....

Net

In words .....

[Please strike out whichever is not applicable]

Estimated Amount

Put to tender

Deduct ..... % Above

Net

In words .....

**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.
- [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 Bidder

Deputy Executive Engineer  
Panchayat R&B Sub Division No  
Junagadh

Executive Engineer  
Panchayat R&B Division  
Junagadh