

Name of work :- Construction of BT Road From KARMALA PALACE TO CHIMANBHAI KESHAVBHAI PATEL'S FARM TO ISHWERBHAI'S HOME @ Village KARMALA (Km 0/0 to 0/24) Ta: Olpad Dist: Surat.

BILL OF QUANTITIES					
Item No.	Description of Item (With brief Specification And Reference to Book of Specifications)	Quantity	Unit	Rate in Figures	Amount
1	3	2	6	4	7
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 unserviceable materials and stacking of serviceable materials to be used of auctioned up to a lead of 1000 meters including removal and disposal of top organic soil not exceeding 150 mm in thickness.	0.06	Hect	28455.09	1,707.31
2	Earthwork in cutting in all sorts of soil and soft murrum including conveying and putting the stuff in spoil bank maintaining minimum distance of five meter between top edge and cutting and toe of spoil bank with all lead and lift.	43.88	CMT.	109.41	4,800.91
3	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 up to all Lead	183.30	CMT.	109.41	20,054.85
4	Earthwork for embankment including breaking clods, dressing with all lead and lift and including watering rolling and consolidation of subgrade in layers at O.M.C. to required dry density including filling the depression which occur during the process using power roller 8T to 10T.(E) From Borrow area within 3.0KM. lead	75.10	CMT.	177.91	13,361.04
5	Supplying Stacking & Spreading Hard Murrum below sub base of work as per specification ,(including spreading,watering and consolidation) With Vibratory roller exceeding 80KN and not exceeding 120KN etc.complete.	7.80	CMT.	783.86	6,114.11
6	Construction of granular sub-base 150 mm thick layer by providing machine crushed B.T. material satisfying MORT&H specification (Fifth revision) of Grading I 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.	90.68	CMT.	1081.91	98,107.60
7	Providing, laying, Spreading and Compacting stone aggregate 45 mm to 90 mm size to WBM Grade I Single layer 100 mm thick in required layer including spreading in uniform thickness hand packing rolling with vibratory roller 8 to 10 tonnes to proper grade and camber applying and brooming requisite type of screening binding filler materials to fill up the interstices of coarse aggregate wearing and compacting to the required density Grading I using screening Type B (13.2 mm stone aggregate) etc. complete.	56.55	CMT.	1755.38	99,266.74
8	Providing & laying spreading and compacting stone aggregate 45 mm to 63 mm size to W.B.M. 75 mm thick in Two layers including spreading in uniform thickness, hand packing, rolling with vibratory roller 8 to 10 tonnes to proper grade and camber, applying and brooming requisite type of screening/ binding/ filler materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Grading II using screening type A (13.2 mm stone aggregate)	131.63	CMT.	1634.18	2,15,107.11
9	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	526.50	SMT.	51.81	27,277.97
10	Supplying and fixing reinforced concrete heavy duty non-pressure pipes with collars for culverts carrying heavy traffic as per IS 458-1991 specification including setting the pipes in C.M. 1:2 watering and laying (to level or slopes) of Class NP3 of following internal diameter. (iii) 600 mm dia.	7.50	RMT.	1968.38	14,762.85
11	Providing and laying bituminous base course 37.5 mm thick compacted with tack coat of Emulsion RS-1 at the rate of 2.5 Kg./10Sqmt. and using B.T. stone aggregates of required gradation and asphalt (VG-30) grade for mixing @ 1.99 % by weight of total mix including heating the aggregate and asphalt by drum mix plant and spreading the same by paver finisher and consolidation with vibratory roller including providing all materials, equipments, tools and plants, oil, kerosene, fire wood, labour charges etc. complete	40.00	M.Ton	2514.90	1,00,596.00

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1	3	2	6	4	7
12	Providing laying and rolling of 25mm thick open graded premix bituminous carpet with B.T. aggregate as specified and using Emulsion RS-1 for tack coat at the rate of 2.5kg/10sqm and using VG30 bitumen for mixing with aggregate at the rate of 3.36 % i.e. 33.60 kg/M.Ton of total mix including heating and mixing in drum mix plant, transporting, spreading the same with paver finisher and consolidation with vibratory roller including necessary firewood, oil, lubricants, Labour charges etc. using contractor's own drum mix plant and equipment, tool etc completed in accordance with the requirement of specification.	28.00	M.Ton	3392.19	94,981.32
13	Providing and laying premix seal coat with B.T. aggregate as specified using aggregate at the rate of 0.24 cum/10 sqm. and bitumen (V.G.30) for mixing with aggregate at the rate of 4.50% i.e.45.00 Kg / M.ton of total mixing including heating and mixing in drum mix plant and transporting 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. complete in accordance with the requirement of specification.	19.00	M.Ton	3746.49	71,183.31
14	Providing and laying Asphalt Painting on B.T. surface with bitumen VG 30 at the rate of 5.00 kg/ 10sqm, and spreading stone dust for painting surface at the rate of 0.03 cum/ 10sqm.	533.75	SMT.	35.75	19,081.56
15	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 painting, lettering etc. complete (For O.D.R road V.R.)	2.00	No	704.33	1,408.66
16	Providing and fixing Hectometer as per I.R.C. type design including painting, lettering etc. complete.(ii) Fixing in C.C. 1:5:10	1.00	No	343.27	343.27
17	Village name/ Bump Ahead sign :-Providing and fixing sign boards made out of 2mm aluminium sheet; size 90 x 60cms. rectangle 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(VR)...	1.00	No	5045.36	5,045.36
18	Providing & fixing junction boards made out of 4mm ACP sheet size 120 x 90 cms rectangle with message on both sides of the board, as per the design of IRC. Pre treated with phosphating process and acid etching with one coat of epoxy primer and two coat of coats of best quality epoxy paint front side reflectorised with high intensity micro prismatic grade type - IV retro reflective sheeting as per IRC 67 and latest M.O.S.T. specification and back side message / lettering shall be painted with ready mix synthetic enamel paint of superior quality in required shade and colour as specified, mounted on two numbers of 3.6m long standard post iron angle of 50 X 50 X 5 mm and frame fabricated from suitable MS angle of 40 x 40 x 3 mm as required, painted with best quality epoxy coating in black and white bends. The details of letters/symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 C.C. block of size 45 X 45 X 60cms for each leg. including excavation, curing etc. complete under the supervision of engineer in Charge.	1.00	No	7908.30	7,908.30

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19	Logo Board:- Providing and fixing Logo Board made out of 2mm aluminium sheet, as per the drawing & design. Pre treated with phosphating process and acid etching coated with one coat of epoxy primer and two coat of best quality epoxy paint, reflectorized with retro reflective sheeting as per the latest M.O.S.T. specification, 3.1 Mt. long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3 mm, 75 x 75 x 6 mm as required painted with best quality 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 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) Engineer grade.	1.00	No	4545.00	4,545.00
20	Cautionary Warning Sign for Bump/Curve :-Providing and fixing sing boards made out of 2mm aluminium sheet; size 60 x 60 x 60 cms. equilateral triangle as per 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 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 for each 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) Engineer Grade.	5.00	No	1692.76	8,463.80
21	STOP/SPEED SIGN:-Providing and fixing sing boards made out of 2mm aluminium sheet;shall be octagonal in shape of 75 cm x 75 cm and shall have red background and white border. The word "STOP" written in white (in English or local language) with 125 mm height letters, centrally positioned. The height of the octagon and border shall as per the design of IRC: 67-2012 pre treated with phosphating process & acid teching; 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; 3.1m long stand post and frame fabricated from suitable size iron angle of 35 x 35 x 3mm 75x75x6mm as required; painted with best quality 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 block of size 45 x 45 x 60cms. for each leg. including excavation curing tec. complete under the supervision of engineer in charge.(A) Engineer Grade.	1.00	No	3247.35	3,247.35
22	Regulatory/Mandatory Sign-Providing & Fixing Sign Board made out of 2 mm alluminium sheet,size 60 cms, Diameter Circle as per design of IRC-67-2012 pre treated with phosphating process & Acid teching.coated with one coat of epoxy primerand two coats of best quality epoxy paint,reflectorised with retro feffective sheeting as per latest M.O.S.T. Specification.3.1 m long stand post and frame fabricated from suitable size iron angle of 35X35X3 mm 75X75X6 mm sas required painted with best quality epoxy coating in black and white bend.The detailes of symbol for each board shall be as per the instyruction of engineer in charge.The fixing at site shall be in 1:2:4 cc block of size 45X45X60 cms for each leg,including excavation curing etc.complete under the supervision of engineer in charge (A) Engineer Grade.....	2.00	No	3439.81	6,879.62
					8,24,244.04

SAY 8,25,000.00

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.8,25,000.00
Deduct..... % Below
Net
In Words

ount Put to tender.8,25,000.00
uct..... % Below
Net
In Words

NOTE :-

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(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,
Surat**

**Executive Engineer
Panchayat (R&B) Division
Surat**