

Name of work :-

Repairing of some stretches on Ghaduli-Fulra-Pandhro Road km 10/00 to 20/00, Ta. Lakhapat, Dist. Kachchh

Bill of Quantity

Memorandum showing items of works to be carried out.

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
1	4.50	Clearing and grubbing road land including uprooting rank vegetation grass bushes, shrubs, sapling and trees girth up to 300 mm removal of stumps of trees cut earlier and disposal of unserviceable materials (C) By mechanical means in area of light jungle.	28455.09	Rupees Twenty Eight Thousand Four Hundred Fifty Five And Paise Nine Only	Hect.	1,28,047.91
2	1679.00	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.	41.60	Rupees Forty One And Paise Sixty Only	Sq.m	69,846.40
3	931.00	Box cutting the road surface to proper slope and camber for making a base of road work including removing the excavated stuff and depositing on the road side slope as directed upto50 mts, lead.	109.24	Rupees One Hundred Nine And Paise Twenty Four Only	Cu.m	1,01,702.44
4	280.00	Construction of Grannular sub base of 150 mm thick in by providing GSB Gr - I coarse graded material using B.T Metal 26.5mm to 53 mm @ 35 % ,26.5mm to 4.75mm 45% & Below 2.36mm 20 % in uniform layer with motor grader on prepared surface mixing by mix in place method with vibratory roller to achive the desired density complete as per close 401.	1350.37	Rupees One Thousand Three Hundred Fifty And Paise Thirty Seven Only	Cu.m	3,78,103.60

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
5	280.00	Providing, laying, spreading and compacting 150 mm thick stone aggregates of specific sizes Grade - I (45 mm to 63 mm) to water bound macadam specification including spreading in uniform thickness, hand packing , rolling with vibratory roller 80-100 kN static wt. to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting etc. complete as per Specification.	1638.22	Rupees One Thousand Six Hundred Thirty Eight And Paise Twenty Two Only	Cu.m	4,58,701.60
6	521.00	Providing and laying, spreading and compacting 150mm thick graded stone aggregate to Wet Mix Macadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper tip site, laying in uniform layers with mechanical means in sub-base /base course on well prepared surface and compacting with vibratory roller to achieve the desired density.	1273.61	Rupees One Thousand Two Hundred Seventy Three And Paise Sixty One Only	Cu.m	6,63,550.81
7	1800.00	Earth work Embankment including brecking of clods,dressing with all lead and lift including watering rolling and consolidation of subgrade in layers at O.M.C to required dry density including filling the depressing which occur during the process using vibratory roller 8 T to 10 T.(B) From Borrow area within 0.5 Km Lead	163.51	Rupees One Hundred Sixty Three And Paise Fifty One Only	Cu.m	2,94,318.00
8	788.00	Providing 100mm thick compacted side shoulder of quarry spall on road site including collection of material spreading, rolling of watering etc. complete as directed.	678.72	Rupees Six Hundred Seventy Eight And Paise Seventy Two Only	Cu.m	5,34,831.36

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
9	3325.00	Providing & applying evenly priming coat with bitumen Emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 7.50 Kg. / 10 Smt using using mechanical means.	91.96	Rupees Ninety One And Paise Ninety Six Only	Sq.m	3,05,767.00
10	250.00	Providing & Laying Bituminous Grouting 37.50mm Thick Compacted with asphalt VG-30 grade at the rate of 1.99% by wt of total mixing & tack coat @ 2.5Kg/10sqmt on B.T Surface & using B.T chips of required gradation including cleaning & heating the aggregate & asphalt by continuous batching of drum mix plant and spreading the same by paver finisher and consolidation with vibrator roller and power roller including providing all materials equipment tools and plants, oil kerosine, fire wood, labor charges etc. using contractor own drum mixplant and paver finisher etc, Complete in all respects.	2219.98	Rupees Two Thousand Two Hundred Nineteen And Paise Ninety Eight Only	MT	5,54,995.00
11	385.00	Providing and laying 50 mm thick compacted bitumenous macadam (BM) with Emulsion tack coat @ 2.50 Kg./ 10 Sqmt using crushed stone aggregate as per MORTH gradation VG-30 grade bitumen at the rate of 3.40% by weight of total mix (i.e. 34kg/mt by wt. of total mix) for binding including heating and mixing the asphalt and aggregates by continuous Drum mix plant and transporting the mix and spreading the same by paver finisher and consolidation with vibratory road roller including using all necessary equipments, tools, plants, including cost of all materials, firewood, oil, lubricants, labour charges etc. complete.	2739.12	Rupees Two Thousand Seven Hundred Thirty Nine And Paise Twelve Only	MT	10,54,561.20

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
12	207.00	Providing and laying 25 mm thick compacted S.D.B.C with B.T. stone chips as per MORTH gradation and asphalt VG - 30 for mixing at the rate of 5.00 % by weight of total mix i.e (50.00 kg/MT by weight of total mix) including heating the asphalt and aggregates by continuous Drum mix plant & spreading the same by paver finisher including rolling & consolidation with 10-12 tones vibratory and power roller & providing all materials, equipments, tools & plants, fire wood, oil, kerosene, labour charges etc. and using contractor's own machineries hot mix plant and paver finisher etc. complete.	3325.93	Rupees Three Thousand Three Hundred Twenty Five And Paise Ninety Three Only	MT	6,88,467.51
13	12.00	Providing and Fixing GUARD STONE as per I.R.C.type design including white washing etc complete. Fixing in C.C 1:5:10	350.80	Rupees Three Hundred Fifty And Paise Eighty Only	Nos.	4,209.60
14	88.00	Cat Eye / Road Stud / RPM : Supplying of Moulded Twin Shanks Raised Pavement Markers made of Polycarbonate and ABS moulded body and reflective panels with micro prismatic 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 specification 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 20mm, 130mm and 130mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 +/- 5 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2mm and height not less than 30 +/- 2mm) from the body is to be a minimum value of 500 kgf. Fixing will be by drilling holes on the	326.23	Rupees Three Hundred Twenty Six And Paise Twenty Three Only	Nos.	28,708.24

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
15	110.83	Road Marking with Hot Applied Thermoplastic paint with Reflectorising Glass Bends on Bituminous surface Providing and laying of 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 beads as per IRC:35-2015. The Finished surface to be level, Uniform and free from streaks and holes. zebra patta patta / bump patta lane /center line / edge line / cut patta. the white color marking should provide laminance coefficient on cement road shall be min. 130 mcd/m2/lux and asphalt road shall be min. 100 mcd/m2/lux during the service life during the day time. The marking should meet the performance criteria for night time reflectivity, wet reflectivity and skid resistance as mentioned in the section-15 of IRC 35-2015.	367.72	Rupees Three Hundred Sixty Seven And Paise Seventy Two Only	Sq.m	40,754.41
16	6.00	Work for the Retro reflectivity 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	4681.35	Rupees Four Thousand Six Hundred Eighty One And Paise Thirty Five Only	Nos.	28,088.10
				Total	Rs.	53,34,653.17

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7
Rupees Fifty Three Lakh(s) Thirty Four Thousand Six Hundred Fifty Three And Paise Seventeen Only						

*Estimated amount

Put to tender Rs.....

Deduct :% below

Rs.....

Net Rs.....

In words

.....

*Estimated amount

Put to tender Rs.....

Add :% above

Rs.....

Net Rs.....

In words

.....

*(please strike out whichever is not applicable)

Note-1 All works shall be carried out as per Public Works Department Handbook and other specifications of Division or as directed.

Note-2 -

Note-3 Rates quoted include clearance of site (prior commencement of work and its close) in all respects and hold good for work under all conditions, site, moisture, weather etc.

Note-4 -

Note-5 Testing of material shall be statement attached with the GERI Vadodara. Bill for testing charges shall be paid by the Executive Engineer and 1% (One Percent) of amount put to tender excluding cost of materials to be issued as schedule A i.e. Rs. _____ shall be recovered from the Contractor's running bills as per (R&B) Department No.TNC/1085/(4)/C dated 10-5-85 and 20-12-91.

Note-6 -

Note-8 ઉદ્યોગ અને ખાણ વિભાગ, સચિવાલય, ગાંધીનગરના ઠરાવ ક્રમાંક: એમ.એમ.આર.—૧૧૨૦૦૦—૨૦૧૩—છ, તા.૧/૮/૨૦૦૪ થી રાજ્ય સરકારના બાંધકામ માટે વપરાતા ગોણ—ખનિજની રોયલ્ટી સાદી માટી અને સોફ્ટ મોરમ પર રોયલ્ટી લાગુ પડશે.

Note-9 Labour Cess 1% of estimated cost put to tender for this work shall be recovered from the contract payment as "Labour Cess" in terms of the Gujarat Govt. Gazette - extra ordinary - dt.12.12.2004, implementation of buildings and other construction work (resolution of employment and conditions of services Act'1996)

Note-10 Quantity of items may reduce or increase as per work execution.

Note-11 ઉપરોક્ત કામ કોઈપણ કારણસર મંજૂર / નામંજૂર કરવાની સત્તા સહી કરનાર અધિકારીની અબાધિત રહેશે.

Note-12 -

Note-13 In RCC items where there is change of grade mix or change as per actual mix design the difference of cement consumption shall be deducted from rate of original item at the rate of star rate mentioned in tender. However for Increase in quantity of cement no additional payment shall

Note-14 For earthquake resistance provision the work shall be carried out as per the instruction of Engineer in-charge.

Note-15 -

Note-16 હોટમીક્ષ પ્લાન્ટ અને પેવરથી થતા ડામરના કામો બાબતે સરકારશ્રીના મા. અને મ. વિભાગ, ગાંધીનગરના પરિપત્ર નં. એસએચઆર/૧૫૮૬/આઈબી/૧૭૯(૬)—સ, તા. ૨૦/૧/૦૭ અને પરીપત્ર ક્રમાંક. પરચ/૧૦/૨૦૧૫/૫૫/સી, તા. ૦૪/૧૧/૧૫ મુજબ અનુસરવાનું રહેશે.

Note-17 ગુજરાત સરકારશ્રીના મા.મ.વિભાગના પરિપત્ર ક્રમાંક: આરજીએન/૬૦૨૦૦૬/(૩૫)—સ થી દાખલ થયેલ શરતો.

1) ૫૦મીમીથી વધુ ડામર કામની સંયુક્ત જાડાઈ (બી.એસ.જી., બી.બી.એમ. સિવાય) હોય તેવા રસ્તાના કામમાં દર ૨૫૦મી. દીઠ એક ક્રોસ સેક્શન પર ડામરકામની પહોળાઈ અનુસાર બે થી ચાર કોર સેમ્પલ ઈજારદારે પોતાના કોર કટીંગ મશીન વડે સંબંધિત નાયબ કાર્યપાલક ઈજનેરશ્રીની હાજરીમાં મેળવી આપવાના રહેશે અને આ સેમ્પલ સીલ કરી માન્ય લેબોરેટરી મારફત થીકનેસ, કેન્સીટી તથા બીટુમીનસ કન્ટેન્ટના પરિક્ષણ કરાવી પરિણામે મેળવવાના રહેશે. સંતોષકારક પરિણામો આવ્યા સુધી ડામર કામની ચુકવવાપાત્ર રકમના ૫% રકમ વીથહેલ્ડ રાખવામાં આવશે, જે રકમ સંતોષકારક પરિણામો મળ્યા બાદ જ છુટી કરાશે. પરંતુ સંતોષકારક પરિણામો નહિ મેળવવાના કિસ્સાઓમાં કરારની અન્ય શરતો અનુસાર કાર્યવાહી થઈ શકશે.

It. No.	Qty. Estimated but may be	Item of work	Estimated Rates		Unit	Total amount according to estimated Quantities
			In Figures	In Words		
1	2	3	4	5	6	7

- 2) રૂા. ૧૦૦ લાખ કે તેથી વધુ રકમના કરાર હેઠળના કામ પર ઈજારદારે ફુલટાઈમ ક્વોલીફાઈડ એન્જીનીયર નિયુક્ત કરવાનો રહેશે જે અંગે કામના વર્કઓર્ડર મળ્યે દિન-૧૫ માં કાર્યપાલક ઈજનેરશ્રીની જાણ હેઠળ, નાયબ કાર્યપાલક ઈજનેરશ્રીને નિહુક ઈજનેરના નામ, ક્વોલીફિકેશન, માર્કશીટ, સર્ટીફિકેટ, કલર ફોટોગ્રાફ, નિયુક્તિના હુકમ વગેરે વિગત રજુ કરવાની રહેશે તથા કામ પર હાજર થયા અંગેનો રીપોર્ટ આપવાનો રહેશે, જે અનુસાર કરાર હેઠળના કામ પર ક્વોલીફાઈડ ઈજનેરની ઉપરોક્ત શરત મુજબ નિયુક્તિ થાય તથા સ્થળ પર ખરેખર કામગીરી ન સંભાળે ત્યાં સુધીના સમયગાળા તેમજ કામ ચાલુ રહે તે સમય દરમ્યાન નિયુક્ત કરેલ ઈજનેર કામગીરી સંભાળશે નહિ તે સમયગાળા માટે રૂા. ૧૫,૦૦૦/- પ્રતિમાસ લેખે બિલમાંથી કપાત કરવામાં આવશ, જે નોન રીફંડેબલ રહેશે.

Signature of Contractor

**Executive Engineer
R&B Division, Bhuj**