

KACHCHH PANCHAYAT R. & B. DIVISION BHUJ

NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH TA.LAKHAPAT

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	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	0.400	Hect.	28455.09	11382.04
2	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	252.000	Cmt.	122.94	30980.88
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 upto 50Mt.lead	1135.000	Cmt.	109.24	123987.40
4	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	1185.000	Cmt.	163.69	193972.65
5	Rolling & watering and consolidation earthwork using vibratory road roller 8 - 10 tonne capacity (A) Earth work (layer not exceeding 200mm thickness)	2572.000	Cmt.	22.96	59053.12
6	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.	600.000	Smt.	41.60	24960.00
7	Construction of granular sub base by providing well graded crushed stone material(M.C.Metal 53 to 9.5 mm size 50%,M.C. metal 9.5 to 2.36 mm 20% and stone dust below 2.36mm size 30%) spreading in uniform layes with motor grader on prepared surface,mixing by mix in place method with rotoator at O.M.C. and compacting with three wheeler roller 8 T to 10 T to achieve the desired density complete as per technical specification Close graded Granular sub-base Material as per clause 401 for grading -I well graded sub base material.(150mm thick compacted thickness)	180.000	Cmt.	1355.62	244011.60
8	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.	70.000	Cmt.	1986.38	139046.60
9	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	295.000	Cmt.	1812.79	534773.05
10	Supplying,stacking and spreading quarry spall with all lead and lift and including watering and rolling and consolidation of sub grade in layers at OMC to required dry density including filling depression which occurs during the process using vibratory roller of 80 KN to 100KN (selected quarry spall having CBR value not less than 30.0)	200.000	Cmt.	924.00	184800.00

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
11	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. (R.A.5)	158.000	M.T.	2341.86	370013.88
12	Providing and laying 37.5 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 mattrial 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. (R.A. 6)	174.000	M.T.	2868.71	499155.54
13	Providing and laying bituminous sealcoat with stone chips 6 to 10mm size 0.24 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 hot 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 machinery, [R. A.7]	77.000	M.T.	3195.47	246051.19
14	Providing and filling in foundation with ordinary cement concret M100 mix and providing necessary vetical pin headers including formwork vibrating ramming and curing complete.	122.000	Cmt	3327.08	405903.76
15	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	225.000	Cmt	5189.34	1167601.50
16	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	3510.000	Kg.	77.29	271287.90
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.	1.000	No.	704.33	704.33
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	4.000	No.	356.5	1426.00
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	35.000	No.	343.27	12014.45
20	Facility Informatory Sign :-Providing and fixing sign boards with 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	1.000	No.	6256.35	6256.35
21	Citizen Information Board:-Providing and fixing sing boards made out of 2mm aluminium sheet; size 180 x 120cms. 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 reflective sheeting as per latest M.O.S.T. Specifications: Letters and numerals should be as per	1.000	No.	10926.57	10926.57

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate in Figures	Amount
22	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 High Intensity Prismatic Grade retro	4.000	No.	3906.19	15624.76
23	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	1.000	No.	3906.19	3906.19
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	2.000	No.	21287.51	42575.02
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	1.000	No.	6704.36	6704.36
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	2.000	No.	6397.43	12794.86
27	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	315.000	Smt.	367.72	115831.80
Total Rs.					4735745.80

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.47,35,745.80

Estimated amount put to tender Rs.47,35,745.80

Deduct% below

Add% Above

Net

Net

In words.....

In words.....

1 The Contractor shall exhibition board with detailed specification and details of work as directed by the Engineer – In – Charge for which no extra payment shall bemade.

2 The labourcess 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 the reisa 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 the Contractor.

Executive Engineer
R & B Panchayat Division
Bhuj - Kachchh

KACHCHH PANCHAYAT R. & B. DIVISION BHUJ

NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH TA.LAKHAPAT

BILLOF QUANTITIES

QUANTITY STATEMENT

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
1	2	3	4	5	6	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 unseviceable materials and stacking of serviceable materials to be use (A) By mechanical means in area of light jungle	0.400	Hect.	28455.09	Twenty Eight Thousand Four Hundred Fifty Five Rupees and Nine Paisa	11382.04
2	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	252.000	Cmt.	122.94	One Hundred Twenty Two Rupees and Ninety Four Paisa	30980.88
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 upto 50Mt.lead	1135.000	Cmt.	109.24	One Hundred Nine Rupees and Twenty Four Paisa	123987.40
4	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	1185.000	Cmt.	163.69	One Hundred Sixty Three Rupees and Sixty Nine Paisa	193972.65
5	Rolling & watering and consolidation earthwork using vibratory road roller 8 - 10 tonne capacity (A) Earth work (layer not exceeding 200mm thickness)	2572.000	Cmt.	22.96	Twenty Two Rupees and Ninety Six Paisa	59053.12

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
6	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.	600.000	Smt.	41.60	Forty One Rupees and Sixty Paisa	24960.00
7	Construction of granular sub base by providing well graded crushed stone material(M.C.Metal 53 to 9.5 mm size 50%,M.C. metal 9.5 to 2.36 mm 20% and stone dust below 2.36mm size 30%) spreading in uniform layes with motor grader on prepared surface,mixing by mix in place method with rotovator at O.M.C. and compacting with three wheeler roller 8 T to 10 T to achieve the desired density complete as per technical specification Close graded Granular sub-base Material as per clause 401 for grading -I well graded sub base material.(150mm thick compacted thickness)	180.000	Cmt.	1355.62	One Thousand Three Hundred Fifty Five Rupees and Sixty Two Paisa	244011.60
8	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.	70.000	Cmt.	1986.38	One Thousand Nine Hundred Eighty Six Rupees and Thirty Eight Paisa	139046.60
9	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	295.000	Cmt.	1812.79	One Thousand Eight Hundred Twelve Rupees and Seventy Nine Paisa	534773.05
10	Supplying,stacking and spreading quarry spall with all lead and lift and including watering and rolling and consolidation of sub grade in layers at OMC to required dry density including filling depression which occurs during the process using vibratory roller of 80 KN to 100KN (selected quarry spall having CBR value not less than 30.0)	200.000	Cmt.	924.00	Nine Hundred Twenty Four Rupees and No Paisa	184800.00

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
11	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. (R.A.5)	158.000	M.T.	2341.86	Two Thousand Three Hundred Forty One Rupees and Eighty Six Paisa	370013.88
12	Providing and laying 37.5 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. (R.A. 6)	174.000	M.T.	2868.71	Two Thousand Eight Hundred Sixty Eight Rupees and Seventy One Paisa	499155.54
13	Providing and laying bituminous sealcoat with stone chips 6 to 10mm size 0.24 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 hot 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, [R. A.7]	77.000	M.T.	3195.47	Three Thousand One Hundred Ninety Five Rupees and Forty Seven Paisa	246051.19
14	Providing and filling in foundation with ordinary cement concret M100 mix and providing necessary vetical pin headers including formwork vibrating ramming and curing complete.	122.000	Cmt	3327.08	Three Thousand Three Hundred Twenty Seven Rupees and Eight Paisa	405903.76

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
15	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	225.000	Cmt	5189.34	Five Thousand One Hundred Eighty Nine Rupees and Thirty Four Paise	1167601.50
16	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	3510.000	Kg.	77.29	Seventy Seven Rupees and Twenty Nine Paise	271287.90
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.	1.000	No.	704.33	Seven Hundred Four Rupees and Thirty Three Paise	704.33
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	4.000	No.	356.5	Three Hundred Fifty Six Rupees and Fifty Paise	1426.00
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	35.000	No.	343.27	Three Hundred Forty Three Rupees and Twenty Seven Paise	12014.45
20	Facility Informatory Sign :-Providing and fixing sign boards with 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	1.000	No.	6256.35	Six Thousand Two Hundred Fifty Six Rupees and Thirty Five Paise	6256.35
21	Citizen Information Board:-Providing and fixing sing boards made out of 2mm aluminium sheet; size 180 x 120cms. 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	1.000	No.	10926.57	Ten Thousand Nine Hundred Twenty Six Rupees and Fifty Seven Paise	10926.57
22	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 High Intensity Prismatic Grade retro	4.000	No.	3906.19	Three Thousand Nine Hundred Six Rupees and Nineteen Paise	15624.76

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
23	Give Way Sign :-Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 90 x 90	1.000	No.	3906.19	Three Thousand Nine Hundred Six Rupees and	3906.19
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	2.000	No.	21287.51	Twenty One Thousand Two Hundred Eighty Seven Rupees and Fifty One Paisa	42575.02
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	1.000	No.	6704.36	Six Thousand Seven Hundred Four Rupees and Thirty Six Paisa	6704.36
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 f 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.260	2.000	No.	6397.43	Six Thousand Three Hundred Ninety Seven Rupees and Forty Three Paisa	12794.86

It.No.	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Estimated rate		Amount
				Rate in Figures	In words	
27	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	315.000	Smt.	367.72	Three Hundred Sixty Seven Rupees and Seventy Two Paisa	115831.80
Total Rs.						4735745.80

Four Million Seven Hundred Thirty Five Thousand Seven Hundred Forty Five Rupees and Eighty Paisa

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.47,35,745.80

Estimated amount put to tender Rs.47,35,745.80

Deduct% below

Add% Above

Net

Net

In words.....

In words.....

(Please strike out which ever is not applicable)

Note :

1 The Contractor shall exhibition board with detailed specification and details of work as directed by the Engineer – In – Charge for which no extra payment shall bemade.

2 The labourcess 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 the reisa 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 the Contractor.

Deputy Executive Engineer
R & B Panchayat Sub Division
Dayapar-Kachchh

Executive Engineer
R & B Panchayat Division
Bhuj - Kachchh

KACHCHH PANCHAYAT R. & B. DIVISION BHUJ

NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH TA.LAKHAPAT

SCHEDULE-"A" Material Consumption Statement
(1)Cement

It. No.	Quantity	Item	Rate of Consump. (Kg)	Unit	Quantity of Cement Kgs
-	0.00	C.C.1:4:8	160.00	Kg/Cmt	0.00
14	122.00	M100	220.00	Kg/Cmt	26840.00
-	0.00	M150	290.00	Kg/Cmt	0.00
15	225.00	M200	360.00	Kg/Cmt	81000.00
-	0.00	R.C.C. Pipe 900mm Dia NP3	3.74	Kg/Rmt.	0.00
-	0.00	R.C.C. Pipe 1200mm Dia NP3	5.10	Kg/Rmt.	0.00
17	1.00	K.M.Stone	18.70	Kgs/No.	18.70
18	4.00	Hectometer Stone	11.70	Kgs/No.	46.80
19	35.00	Indicator Stone	11.70	Kgs/No.	409.50
20	1.00	Information Logo Board	69.60	Kgs/No.	69.60
21	1.00	Citizen Sign Board	69.60	Kgs/No.	69.60
22	4.00	Cautionary Sign Board	34.80	Kgs/No.	139.20
23	1.00	Give Way Sign Board	34.80	Kgs/No.	34.80
-	0.00	Hazard Board	34.80	Kgs/No.	0.00
24	2.00	Direction Junction Board	69.60	Kgs/No.	139.20
25	1.00	Stop Sign Board	34.80	Kgs/No.	34.80
26	2.00	Village Name Board	34.80	Kgs/No.	69.60
Total Kgs					108871.80

i.e. **108.870**
M.T.

(2) Steel

16	3510.0 Kg.	T.M.T. Steel 500D	M.T.	3.510
Total				----- 3.510 M.T.

(3) Bulk Asphalt Grade V.G.-30

It. No.	Quantity	Item	Rate of Consump. (Kg.)	Per	Quantity of Asphalt Kg.
11	158.00	Pro. & Lay.37.5mm B.U.S.G.	19.90	M.T.	3145.00
	158.00	Tack Coat	3.62	M.T.	572.00
12		Pro. & Lay.37.5 mm Th B.M.			
	174.00	For Mixing 34.0 Kg Per M.T.	34.00	M.T.	5916.00
	174.00	Tack Coat	3.030	M.T.	528.00
13		Pro. & Lay. 0.18 Cmt/10 Sealcoat			
	77.00	For Mixing 45 Kg Per M.T.	45.00	M.T.	3465.00
Total					13626.00
Total i.e.					13.626 M.T.

Deputy Executive Engineer
Panchayat (R&B) Sub-Division
Dayapar-Kachchh

Executive Engineer
Panchayat (R&B) Division
Bhuj-Kachchh

KACHCHH PANCHAYAT R. & B. DIVISION BHUJ

**NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH
TA.LAKHAPAT**

COMPILATION OF QTY.

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
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	Hect.	28455.09	0.400	11382.04									0.400	11382.04
2	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	Cmt.	122.94	252.000	30980.88									252.000	30980.88
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 upto 50Mt.lead	Cmt.	109.24	1135.000	123987.40									1135.000	123987.40
4	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	Cmt.	163.69	1185.00	193972.65									1185.000	193972.65
5	Rolling & watering and consolidation earthwork using vibratory road roller 8 - 10 tonne capacity (A) Earth work (layer not exceeding 200mm thickness)	Cmt.	22.96	2572.00	59053.12									2572.000	59053.12
6	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.	Smt.	41.60	600.00	24960.00									600.000	24960.00
7	Construction of granular sub base by providing well graded crushed stone material(M.C.Metal 53 to 9.5 mm size 50%,M.C. metal 9.5 to 2.36 mm 20% and stone dust below 2.36mm size 30%) spreading in uniform layes with motor grader on prepared surface,mixing by mix in place method with rotovator at O.M.C. and compacting with three wheeler roller 8 T to 10 T to achieve the desired density complete as per technical specification Close graded Granular sub-base Material as per clause 401 for grading -I well graded sub base material.(150mm thick compacted thickness)	Cmt.	1355.62	180.00	244011.60									180.000	244011.60

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
8	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.	Cmt.	1986.38	70.00	139046.60									70.000	139046.60
9	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	Cmt.	1812.79	295.00	534773.05									295.000	534773.05
10	Supplying,stacking and spreading quarry spall with all lead and lift and including watering and rolling and consolidation of sub grade in layers at OMC to required dry density including filling depression which occurs during the process using vibratory roller of 80 KN to 100KN (selected quarry spall having CBR value not less than 30.0)	Cmt.	924.00	200.00	184800.00									200.000	184800.00
11	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. (R.A.5)	M.T.	2341.86			158.00	370013.88							158.000	370013.88
12	Providing and laying 37.5 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. (R.A. 6)	M.T.	2868.71			174.00	499155.54							174.000	499155.54

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
13	Providing and laying bituminous sealcoat with stone chips 6 to 10mm size 0.24 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 hot 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 machinery, [R. A.7]	M.T.	3195.47			77.00	246051.19							77.000	246051.19
14	Providing and filling in foundation with ordinary cement concret M100 mix and providing necessary vetical pin headers including formwork vibrating ramming and curing complete.	Cmt	3327.08					122.00	405903.76					122.000	405903.76
15	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 joint, construction joint incl. filling the joint with asphalt filler as per direction by engineer in charge as per specification.	Cmt	5189.34					225.00	1167601.50					225.000	1167601.50
16	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	Kg.	77.29					3510.00	271287.90					3510.000	271287.90
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.	No.	704.33									1.00	704.33	1.000	704.33
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	No.	356.50									4.00	1426.00	4.000	1426.00
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	No.	343.27									35.00	12014.45	35.000	12014.45

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
20	Facility Informatory Sign :-Providing and fixing sign boards with 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 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	No.	6256.35									1.00	6256.35	1.000	6256.35
21	Citizen Information Board:-Providing and fixing sing boards made out of 2mm aluminium sheet; size 180 x 120cms. 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 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 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)...(S.O.R.IT.No.26099A)	No.	10926.57									1.00	10926.57	1.000	10926.57

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
22	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 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	No.	3906.19									4.00	15624.76	4.000	15624.76

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
23	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	No.	3906.19									1.00	3906.19	1.000	3906.19
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 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 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)	No.	21287.51									2.00	42575.02	2.000	42575.02

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	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.	No.	6704.36									1.00	6704.36	1.000	6704.36
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	No.	6397.43									2.00	12794.86	2.000	12794.86

It. No	Item	Unit	Rate	Sub Base & Base		Asphalt Work		C.C.Road		C.D. Works & Protection Work		Road Furniture		Total Qty	Amount
				Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		
27	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 coefficinet 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 in the section-15 of IRC 35-2015. Warranty for the Retro	Smt.	367.72									315.00	115831.80	315.000	115831.80
	Total				1546967.34		1115220.61		1844793.16		0.00		228764.69		4735745.80
	Amt.as per T.S.				1546967.34		1115220.61		1844793.16		0.00		228764.69		4735745.80
	Amount of GST (18%)														852434.24
	Amount of Quality Control														47357.46
	Amount of Contingency														47357.46
	Total Amount														5682894.96
	Amount As Technical Sanction														5682900.00

Deputy Executive Engineer
Panchayat (R&B) Sub-Division
Dayapar-Kachchh

**NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH
TA.LAKHAPAT**

NON TENDERED ITEMS

**NAME OF WORK:-RESURFACING OF SANDHRO DAM APPROACH
TA.LAKHAPAT**

DRAWINGS