

M.M.G.S.T

Chafra To Lohasra

Schedule XIV-Form No. 134

DIVISION

Chafra to Lohasra, District

SUB-DIVISION

Chafra to Lohasra, District

MEASUREMENT BOOK

534

1945 - M/S Jai Maa Bhagwati construction

6th Final
On P/C Bill

42.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work: Construction and fire					
Year maintenance of Road from					
Chakar to Lahara					
Agency: Tai Hra Bhagwati Construction					
Date of Commencement: 11-11-2019					
Date of Completion: 10-11-2020					
Agreement No.: 29/SBD/2019-20 (MMGSY)					
Record Measurement					
1/ providing, laying spreading and Compacting WBM Gr III					
			$4 \times 15.00 \times 6.70 \times 0.075 =$		$30.15 m^3$
			$1 \times 20.00 \times \frac{8.00 + 4.50}{2} \times 0.075 =$		$9.375 m^3$
2/ providing and laying 30mm dust					$39.525 m^3$
3/ Construction of unreinforced joint Cement Concrete pavement					
			$10 \times 30.00 \times 9.75 \times 0.16 =$		$180.00 m^3$
			$2 \times 25.00 \times 3.75 \times 0.16 =$		$30.00 m^3$
			$3 \times 15.00 \times 5.00 \times 0.16 =$		$36.00 m^3$
			$1 \times 5.00 \times \frac{7.50 + 4.50}{2} \times 0.16 =$		$4.80 m^3$
					$250.80 m^3$
4/ Const. of Subgrade and earthen Shoulder:					
			$3 \times 30.00 \times 6.85 \times 0.30 =$		$184.95 m^3$
			$2 \times 10 \times 1.50 \times 0.20 =$		$6.00 m^3$
			$2 \times 10 \times 1.50 \times 0.075 =$		$2.25 m^3$
			$4 \times 25.00 \times 0.40 \times 0.10 =$		$4.00 m^3$
			$4 \times 25.00 \times 0.40 \times 0.08 =$		$3.00 m^3$
			$2 \times 30 \times 30.00 \times 0.375 \times 0.16 =$		$108.00 m^3$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2	20.00	0.325	10.63	4.80 m ²
					313.00 m ²
Providing and applying prime coat with bitumen emulsion SS1					
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	10	30.00	3.75		= 1125.00 m ²
	6	30.00	3.75		= 675.00 m ²
	4	15.00	6.00		= 360.00 m ²
	2	25.00	3.80		= 190.00 m ²

1	10.00	2.65		= 26.50 m ²
1	10.00	3.75		= 37.50 m ²
				8109.00 m ²

6/ Providing and applying truck coat

Qty. Same as item no (4) P/B/ = 8109.00 m²

7/ Providing laying and rolling Chalk

Graded prepared surface

Qty. Same as item no (4) P/B/ = 8109.00 m²

8/ Reinforced Cement Concrete Mix

Grade km Stone

A/ Ordinary km Stone = 4.00 m³

B/ 2000 Stone = 12.00 m³

9/ Construction of plain reinforced

Cement Concrete Substructure

as per technical specification

for bit. Culvert

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	3 x 4	x 2.92	x 0.40	x 0.60	8.41 m ²
10/ providing and laying filter media with granular crushed aggregate as per specification					
Behind board	3 x 2	x 4.61	x 0.60	x 1.70	28.21 m ³
Behind gutter wall	3 x 4	x 2.32	x 0.60	x 1.87	31.23 m ³
					59.44 m ³

IV Cost of embankment as approved

Material	Ch	F/A (m ²) / M/A (m ²)	B.	Dust (m)	Qty (m ³)
00	5.069	—	—	—	—
50	4.851	4.960	50	248.00	
100	5.213	5.032	50	251.60	

150	5.134	5.174	50	258.675
200	5.455	5.295	50	264.715
250	5.263	5.359	50	267.95
300	5.384	5.324	50	266.175
350	5.264	5.324	50	266.200
400	7.052	6.158	50	307.900
450	9.261	8.157	50	407.825
500	11.477	10.369	50	518.450
550	5.311	8.394	50	419.700
600	6.785	6.048	50	302.400
650	7.317	7.251	50	352.550
700	7.987	7.652	50	382.600
750	8.678	8.333	50	416.625
800	3.629	6.154	50	307.675
850	6.183	4.906	50	245.300

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch 177	177		22.37	0.17	
900	7.857	7.220	50		351.00
950	5.650	6.754	50		387.625
1000	5.855	5.753	50		287.625
1050	5.172	5.544	50		275.675
1100	5.463	5.318	50		265.875
1150	5.529	5.496	50		274.80
1200	9.162	7.346	50		367.225
1250	5.349	7.256	50		362.775
1300	7.001	6.175	50		308.750
1350	8.267	7.634	50		381.700
1400	6.239	7.253	50		362.650
1450	7.233	6.726	50		336.800
1500	7.658	7.222	50		372.225
1550	6.723	7.191	50		359.525
1600	5.235	6.229	50		311.450
1650	5.059	5.397	50		269.850
1700	6.665	5.862	50		293.100
1750	4.169	5.417	50		207.85
1800	3.804	3.987	50		199.325
1850	4.772	4.291	50		214.525
1900	3.597	4.187	50		209.350
1950	9.120	6.359	50		317.925
2000	5.508	7.314	50		365.700
2050	9.493	7.501	50		375.025
2100	6.828	8.186	50		429.275
2150	8.720	7.834	50		391.700
2200	7.189	7.990	50		390.475
2250	5.314	6.252	50		312.575

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch FPI	M/M		2.11		2.11
2300	6.564	5.239	50		296.950
2350	5.423	5.849	50		292.425
2400	5.313	5.223	50		261.150
2450	4.388	4.851	50		242.525
2500	4.943	4.666	50		233.275
2550	4.812	4.878	50		243.875
2600	3.948	4.380	50		219.000
2650	4.898	4.423	50		221.150
2700	5.452	5.175	50		258.750
2750	6.694	6.073	50		303.650
2800	8.898	7.796	50		389.800
2850	9.800	9.349	50		467.450
2900	6.640	5.220	50		411.00
2950	5.898	6.269	50		313.450
3000	4.260	5.079	50		253.950
3060	4.862	4.516	60		273.660
					19150.935 m ³
Less Subgrade & Shoulder					
	4444.575	+ 313.00			= 44757.575 m ³
Less Grub 1667.39 m ³					
					= 44757.575 m ³
Less WB/M Gr III 838.12 m ³ + 39.525 m ³ = 877.645 m ³					
Less CC Pavement 324.00 m ³ + 250.80 m ³ = 574.80 m ³					
					11273.525 m ³
(a) For Lead up to 1000m					
	48% of 11273.525 m ³				= 5411.292 m ³
					Limit = 5400.45 m ³
(b) For Lead up to 100m					
	52% of 11273.525				= 5862.23 m ³

Continuation

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Particulars	Details of actual measurement			Contents in m³
	No.	L.	B.	
1/ Casting of concrete for 1st floor slab				
2/ Reinforced concrete for 1st floor slab				
3/ Providing and fixing 1st floor slab				
Citizen Information & Notice Board				
4/ Reinforced concrete for 1st floor slab				
Misganga boundary pillar				
5/ Providing and fixing 1st floor slab				
Traffic Light				
(a) 600mm equilateral triangle				
(b) 800mm x 600mm Rectangles				
(c) 600mm x 450mm Rectangles				
1A/ Road Marking with hot applied thermoplastic compound on 700mm				
$2 \times 30 \times 30.00 \times 0.10$				$= 180.00 \text{ m}^2$
$2 \times 30 \times 30.00 \times 0.10$				$= 180.00 \text{ m}^2$
$2 \times 10 \times 30.00 \times 0.10$				$= 60.00 \text{ m}^2$
$2 \times 1 \times 20.00 \times 0.10$				$= 4.00 \text{ m}^2$
				114.00 m^2
1B/ Road Marking with hot applied PVC pavement				
$2 \times 10 \times 30.00 \times 0.10$				$= 60.00 \text{ m}^2$
$2 \times 10 \times 30.00 \times 0.10$				$= 60.00 \text{ m}^2$
$2 \times 10 \times 30.00 \times 0.10$				$= 60.00 \text{ m}^2$
$2 \times 2 \times 20.00 \times 0.10$				$= 8.00 \text{ m}^2$
				188.00 m^2
1C/ Painting of parapet wall				

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Black and white Strips</u>					
Top	2x2x	3.600	0.400	=	<u>2.885.76 m²</u>
Side	2x4x	3.600	0.600	=	<u>17.28 m²</u>
Front	2x4x	0.400	0.600	=	<u>1.92 m²</u>
Top	7x2x	6.15	0.400	=	<u>34.44 m²</u>
Side	7x4x	6.15	0.600	=	<u>103.32 m²</u>
Front	7x4x	0.400	0.600	=	<u>6.72 m²</u>
Top	3x2x	8.34	0.400	=	<u>20.016 m²</u>
Side	3x4x	8.34	0.600	=	<u>60.098 m²</u>
Front	3x4x	0.400	0.600	=	<u>2.88 m²</u>
					<u>252.384 m²</u>
<u>Shaded</u> 12-11-2020 J.F.					

Abstract of Cost

1/	providing and fixing Benchmark			
a/	Benchmark pillar			
	Qty. vide item no 1 (a) P(22)			
				= 4 Nos
	@ Rs 4206.36			= Rs 16825.00
b/	Reference pillar			
	Qty. vide item no 1 (b) P(24)			
				= 12 Nos
	@ Rs 1911.83			= Rs 22942.00
2/	Clearing and grubbing road land			
	Qty. vide item no (2) P(22)			
				= 2.14 Ha
	@ Rs 49739.47			= Rs 106442.00
3/	Earthwork in cutting			
3				

Continuation

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Qty wide item no (3) P(24)					- 20.50 m ³
@ 82.01/m ³					- Rs 5782.00
1/ Cost of embankment with ground material					
2/ Lead upto 100m					
Qty wide item no (3) P- 46					- 5100.45 m ³
@ 187.23					- Rs 1216126.00
For Lead upto 100m					
Qty wide item no (6) P- 46					- 582.23 m ³
@ 132.56					- Rs 772092.00
Shoulder					
Qty wide item no (5) P(24)					- 4449.52 m ³
@ wide item no (3) P(24)					- 313.00 m ³
					4757.52 m ³
Linear					4757.53 m ³
@ 189.11					- Rs 899696.00
3/ Cost of G.S. Gr I					
Qty wide item no P(3)					- 1667.39 m ³
@ 2285.63/m ³					- Rs 3811037.00
7/ Providing and laying W.O.M. Gr III					
Qty wide P(32) item no (2)					- 838.12 m ³
Qty wide item (1) P- (4)					- 39.25 m ³
					877.645 m ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① 3220.33					= Rs 01835.00
9/ Providing and fixing M14 G.S. Lugs					
Qty. vide P-19/					= 2 Nos
Qty. vide P-47/ Item no 9/					= 3 Nos
					5 Nos
② Rs 9987.40					= Rs 49937.00
9/ Dismantling of old structure					
Qty. vide P-19/					= 6.63 m ³
③ Rs 474.67					= Rs 3147.00
6/ B/Masonry					
Qty. vide P-19/					= 223.74 m ³
④ Rs 228.15					= Rs 51046.00
8/ H.P. 600 mm dia					
Qty. vide P-19/					= 40.00 m
⑤ Rs 229.83					= Rs 9193.00
10/ E/W in excavation for foundation					
Qty. vide Item no 10/ P-33/					= 525.09 m ³
⑥ Rs 285.71					= Rs 164309.00
11/ Providing RCC M/c grade in foundation					
Qty. vide Item no 11/ P-33/					= 61.62 m ³
⑦ Rs 5293.08					= Rs 326159.00
12/ Providing RCC M/c grade					
Qty. vide Item no 12/ P-33/					= 306.52 m ³
⑧ Rs 6246.48					= Rs 191467.00
13/ Supplying and fitting High bar					
Qty. vide P-15/					= 52.50 m

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Q19 742.14				=B	76399.00
21/ Providing and fitting HVS DBA					
1 st layer 21.9m ²					
Qty vide Item no. 23/ = 1.11 MT					
Q19 78015.52				=B	86601.00
22/ Construction of natural stone cement concrete pavement					
1 st layer 22.9m ²					
Qty vide Item no. 19/ = 329.00m ³					
Qty vide Item no. 2/ 19/ = 250.80m ³					
					579.80m ³
Q19 6474.72				=B	3721382.00
23/ Planting of tree by the road side					
Qty vide Item no. 12/ 19/ = 200 Nos					
Q19 749.73				=B	149946.00
24/ Providing and applying prime coat with bitumen emulsion SS-1					
Qty vide Item no. 5/ 19/ = 8109.00m ²					
Q19 594.61				=B	442832.00
25/ Providing and applying top coat with bitumen emulsion RS-1					
Qty vide Item no. 6/ 19/ = 8109.00m ²					
Q19 18.33				=B	148638.00
26/ Providing, laying and sealing closed graded pebble surface					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Qty. vide item no. 7) P(43)					
					= 8109.00m ²
@ Rs 227.08					= Rs 1841392.00
27/ Reinforced Cement Concrete					
18/ M/s grade km stone					
(a) Ordinary km stone					
Qty. vide item no 8(a) P(44)					
					= 4 Nos
@ Rs 2210.99					= Rs 8844.00
(b) 200m stone					
Qty. vide item no 8(b) P(44)					
					= 12 Nos
@ Rs 641.75					= Rs 7701.00
28/ Construction of channel bed with material obtained from box cutting					
Qty. vide item no 10) P(47)					
					4230m ²
@ Rs 27.98/m ²					= Rs 1183.00
29/ Reinforced Cement Concrete					
18/ M/s grade boundary pillar					
Qty. vide item no 12) P(47)					
					= 2 Nos
@ Rs 526.33					= Rs 32896.00
30/ providing and fixing Retro reflector					
9/ Traffic sign					
(a) 600mm equilateral triangle					
Qty. vide item no 12) P(47)					
					= 28 Nos
@ Rs 4021.95					= Rs 112614.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
b) 800mm x 600mm g.e. latagela					
Qty. vide item no (12) b P-47					
					= 12 Nos
@ Rs 7688.45					= Rs 92261.00
c) 600mm x 450mm g.e. latagela					
Qty. vide item no. 13(c) P-47					
					= 8 Nos
@ Rs 5312.02					= Rs 42496.00
31/ Road marking with hot applied					
thermo plastic compound on BT surface					
Qty. vide item no (14) P-47					
					= 424.00m ²
@ Rs 850.93					= Rs 360794.00
32/ Road marking with hot applied					
thermo plastic compound on CC pavement					
Qty. vide item no (15) P-47					
					= 189.00m ²
@ Rs 953.99					= Rs 179350.00
33/30 Painting of parapet wall					
Qty. vide item no (16) P-48					
limited to 82.95					= 252.389m ²
@ Rs 108.98					= Rs 27504.00
					Total Rs 2,09,30,384.00
34/ Providing and laying 300mm dia					
duct pipe					
Qty vide item no (21) P-42					
					= 120m
@ Rs 985.54					= Rs 118264.00
Continuation					2,10,48,648.00

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	D.
BF -				RS-2,10,48,648.00
Less 10% as per Agreement				(-1R) 21,04,865.00
				RS 18,43,783.00
Less previous payment				(-1R) 13,9,96452.00
Shut				5147331.00
12/35				
12/35 providing PCC Disgrade in substructure				
Qty. wide		P-10		234.11 m ³
Qty. wide		P(11)		17.65 m ³
Qty. wide		P(20)		30.77 m ³
Qty. wide		P(44)		8.41 m ³
				320.94 m ³
AB 6246.48				= RS 20,04,745.00
35/40 providing and laying filter media				
Qty. wide		P(44)		
				259.44 m ³
AB 3254.27				= RS 18,1545.00
				RS 2,13,20267.00
Less 10% as per Agreement				(-1R) 21,32,027.00
				RS 19,18,8240.00
Less previous payment				(-1R) 1,38,60,091.00
Shut				RS 53,28,149.00
12/11-2020				
J.E				

Continuation