

Agency - Patnamakant

Ambar Moharajen 12th to Bhogii

Schedule XIV - Page No. 1315

(K.M. 1.5.4)

DHAR. P. W. D.

He is to be

E. R. & Co. Ltd. - Ahmedabad Division

Assistant Engineer - Road and Division

Work Sub Division - Nadiad

MEASUREMENT BOOK

2536

Certified that this measurement 100
(one hundred) paces by prisms machine
and Issued to sri Dinesh Singh
A.E. Rural Works Sub-Div. Nabinagar

Enr. 9
Executive Engineer
Rural Works Department
Works Division, Aurangabad

5/12/19

Schedule XLV - Form No. 134.

E.E. Aurangabad DIVISION.

A.E. Nabinagar SUB-DIVISION.

MEASUREMENT BOOK.

2536

555635

sri Dinesh Singh A.E. Rural

Date of survey work sub div. Nabinagar

Date of last entry _____

निहा. नवीनट डेम, गण ।

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					101A 629.84m ³
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					15.39"
CH. 641m to 777m Acc. position					
110x30mx3.75mx0.10m					11.25"
110x30mx3.75mx0.10m					11.25"
110x30mx3.75mx0.10m					11.25"
110x30mx3.75mx0.10m					11.25"
110x30mx3.75mx0.10m					11.25"
110x30mx3.75mx0.10m					11.25"
110x16mx3.75mx0.10m					6.00"
CH. 777m to 1008m off E. of N. 135°					
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x21.4mx4.05mx0.20m					17.01"
GAP 1008m to 1011.10m					
CH. 1011.10m to 1490m BT position					
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"
110x30mx4.05mx0.20m					24.30"

Continuation

1113.29m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		1712	1113	29m3	
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x28.90m x 4.05m x 0.20m					23.411
					1282.50m ³

Ch 1690m to 1720m Pcc portion

GSD Excavation

210x30m x 0.375m x 0.10m					2.251
210x30m x 0.375m x 0.10m					2.251
210x30m x 0.375m x 0.10m					2.251
210x30m x 0.375m x 0.10m					2.251
210x30m x 0.375m x 0.10m					2.251
210x30m x 0.375m x 0.10m					2.251
210x10m x 0.375m x 0.10m					0.751

GSD in Earthen portion Pcc portion

110x30m x 3.75m x 0.10m					11.251
110x30m x 3.75m x 0.10m					11.251
110x5m x 3.75m x 0.10m					1.8751

1720m to 2125m BT portion

110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301
110x30m x 4.05m x 0.20m					24.301

Continuation

1488.975m³

GAP Re ce e n t s De d u c t

1 hr 30 min 40 min 20 min (-) 2.51 %

Exakt $\text{Masse } 9.10 \text{ mg}$ $\frac{10 + 4.10}{2} \times 0.2 \text{ cm} = 12.60''$

144.	1 hr 30 min 4.05 mo 0.20 m ~ 24.30"
ctm	1 hr 30 min 4.05 mo 0.20 m ~ 24.30"

Continuation 2078.215 m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		R1A 2078.215m ³			
11 x 30m x 4.05m x 0.20m					24.30
12 x 30m x 4.05m x 0.20m					24.30
13 x 30m x 4.05m x 0.20m					24.30
14 x 30m x 4.05m x 0.20m					24.30
15 x 30m x 4.05m x 0.20m					24.30
16 x 30m x 4.05m x 0.20m					24.30
17 x 30m x 4.05m x 0.20m					24.30
18 x 30m x 4.05m x 0.20m					24.30
19 x 15m x 4.05m x 0.20m					12.15

Excess width of 6.83 feet

21 x 30m x 0.375m x 0.10m					
22 x 30m x 0.375m x 0.10m					2.25
23 x 29m x 0.375m x 0.10m					2.175

Sadok Bartha BT Portion

11 x 30m x $\frac{8.10 + 5.10}{2} \times 0.20m$					6.50
12 x 30m x $\frac{5.10 + 4.10}{2} \times 0.20m$					3.60
13 x 30m x 4.05m x 0.20m					24.30
14 x 30m x 4.05m x 0.20m					24.30
15 x 30m x 4.05m x 0.20m					24.30
16 x 30m x 4.05m x 0.20m					24.30
17 x 30m x 4.05m x 0.20m					24.30
18 x 30m x 4.05m x 0.20m					24.30
19 x 30m x 4.05m x 0.20m					24.30
20 x 30m x 4.05m x 0.20m					24.30
21 x 30m x 4.05m x 0.20m					24.30
22 x 30m x 4.05m x 0.20m					24.30
23 x 30m x 4.05m x 0.20m					24.30

Continuation 2566.59m²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		POLF 2566.59 m ³			
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 30m x 4.05m x 0.20m					24.30
1 mup 19m x 4.05m x 0.20m					15.39

Pee Portion

1 mup 30m x 3.75m x 0.10m					2.25
1 mup 30m x 3.75m x 0.10m					11.25
1 mup 8m x 3.75m x 0.10m					3.00

Erected ceiling portion

2 mup 30m x 0.375m x 0.10m					2.25
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2 mup 30m x 0.375m x 0.10m					2.25
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2 mup 5.40m x 0.375m x 0.10m					0.375
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Erected towards Dhoro

3 mup 4.05m x 0.20m					2.43
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2749.33 m³
2741.23 m³

(4) Provision, carrying & free lay
and connecting slab & gate -
Cm 13m-3

Cm 0 to 1008 mm for 2 cc calculations

1 mup 22.40m x 15 + 11.50 + 8.10 + 6.30					
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+ 4.60 + 4.10 + 4.10					
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7 x 0.075m					
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=					12.61 m ³
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1 mup 32 mup 30m x 3.75m x 0.075m					270.00
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1 mup 26 mup 3.75m x 0.075m					7.31
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Continuation

289.92 m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					1211.92m
GAP Reculwls CH					1008.4m
					1011.10m
CH 1011.10m					21.25m
37m x 30m		3.75m	0.075m		312.19m
1.10m x 3.75m			0.075m		0.31m
2.50m x 3.75m			0.075m		0.785m
Deduct Rec culwls					
3.10m x 3.75m			0.075m		0.87m
Sahu bapha towards					
1m x 9.00m		10m + 4m		0.075m	4.725m
29m x 30m		3.75m	0.075m		244.69m
6m x 3.75m			0.075m		16.875m
Towards Sadak bapha					
1m x 5.00m		8.00m + 5.00m		0.075m	2.44m
1m x 4.00m		5.00m + 4.00m		0.075m	1.35m
1m x 27m		30m	3.75m	0.075m	227.81m
1m x 19m		3.75m	0.075m		5.34m
Extra Reculwls					
Shorfa 5.00m		5.00m	0.075m		1.875m
Sahabph		3.00m	0.075m		2.10m
Sadale bapha		6.50m x 4.70 + 7.40 + 12.00		0.075m	3.92m
		5.70m x 3.75m		0.075m	
		5.70m x 6.00m + 3.75		0.075m	2.08m
Total Dlgre					
3.00m x 3.75m			0.075m		0.84m

Continuation

115.595m
116.375m

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
5/10 Providing and applying Primer coat 10% BT for 10m					
Emulsion SS,					
CH 0.10 to 641.10m					
22m x 1.5m + 11.50 + 8.10 + 6.10					
+ 4.60 + 4.10 + 4.10					
				7	= 168.14 m ²
20m x 30m 3.75m = 2250.00					
19m x 30m 3.75m = 71.25					
CH 641m to 777 m Peefor 10m					
CH 77m to 1008.10m BT for 10m					
7m x 30m 3.75m = 787.50					
21m x 3.75m = 78.75					
1008.10m to 1011.10m					
Peefor 10m					
3.10m x 3.75m = 11.625					
CH 1011.10m to 1490m BT for 10m					
15m x 30m 3.75m = 1687.50					
28.90m x 3.75m = 108.325					
1490m to 1720m Peefor 10m					
1720m to 2125m BT for 10m					
131m x 30m 3.75m = 1462.50					
25m x 3.75m = 93.75					
15					56.25
Peefor 10m towards Sahabitha					
1m x 9m x 10m + 4.10 = 63.10					
24m x 30m 3.75m = 2700.00					
6m x 3.75m = 22.50					
Peefor 10m towards Sahabitha					
1m x 5.10m x 8.10 + 5.10 = 32.50					
1m x 4.10m x 5.10 + 4.10 = 18.10					
Continuation					
					9555.39 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
		121A			7555.39m
		21m x 30m x 3.75m =			2362.50"
		4m x 3.75m =			15.00"
Area of road					
		3m x 3.75m =			10.50"
					11943.39m
					11905.89m
(6/11) Provisional supply of concrete with bitumen Emulsion R.S.S.					11905.89m
Qty of concrete (5) for (33) =					11943.39m
(7/12) Mix of surface type - B					
Provisional supply of close graded premix					
Surface mix of 20mm thickness					
Qty of concrete (6) for (33) =					11943.39m
(8/13) Construction of 4m reinforced					
placement concrete					
Main Road					
		9m x 15m x 3.75m x 0.16m =			8100m
		1.00m x 3.75m x 0.16m =			0.60"
Toward Bhop & village					
		15m x 15m x 3.75m x 0.16m =			13500"
Extra - 5m x 5m x 0.16m =					4.00"
Towards Bahu Singh					
		10m x 15m x 3.75m x 0.16m =			90.00"
Extra 8.00m x 3.50m x 0.16m =					4.48"
Toward Sadiq Singh					117.00"
		13m x 15m x 3.75m x 0.16m =			117"

Continuation

816.25m

432.08m

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
		PMF			432.08
Emp - 6.5m x 12.1m x 7.40 + 4.70				x 0.16m = 8.35"	
			3		
5.7m x 3.75m x 6.10m				x 0.16m = 4.45"	
			2		
					444.88 m ³

Planting of trees by the road & etc = 100m

Construction of Embankment
material approved material
obtained from borrow pits

2nd - 4th - P.M.F. - Measure of Dist Volume
m³

0	3.766	-	-	-
1	50	5.225	4.496	50 224.775
2	100	5.927	4.566	50 228.30
3	150	4.118	4.013	50 200.625
4	200	3.888	4.003	50 200.15
5	250	6.452	5.17	50 258.50
6	300	5.677	6.065	50 303.225
7	350	6.621	6.149	50 307.45
8	400	5.343	5.982	50 299.10
9	450	5.439	5.391	50 269.55
10	500	5.129	5.284	50 264.20
11	550	4.85	4.99	50 249.425
12	600	5.668	4.959	50 247.95
13	650	5.494	5.281	50 264.05
14	700	4.831	5.163	50 258.125
15	750	4.869	4.70	50 235.00
16	800	6.803	5.736	50 286.80
17	850	5.17	6.037	50 301.825

Continuation

Sch. XLV-Form No. 13435

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Settle - etc. Dist. from 1st to 9th - Volume					
19 900	4.457	4.814	50	240.675	
20 950	4.277	4.367	50	218.35	
21 1000	6.449	5.353	50	268.15	
22 1050	4.375	5.412	50	270.60	
23 1100	3.739	4.057	50	202.85	
24 1150	4.981	4.36	50	218.00	
25 1200	4.433	4.707	50	235.35	
26 1250	5.40	4.917	50	245.825	
27 1300	5.986	5.693	50	284.65	
28 1350	4.457	5.222	50	261.075	
29 1400	4.958	4.708	50	235.375	
30 1450	3.10	4.029	50	201.45	
31 1500	3.909	3.905	50	175.225	
32 1550	4.164	4.037	50	201.825	
33 1600	3.809	3.987	50	199.325	
34 1650	3.817	3.813	50	190.65	
35 1700	2.082	2.95	50	147.475	
36 1750	5.991	4.037	50	201.825	
37 1800	5.935	5.963	50	298.15	
38 1850	5.963	5.949	50	297.45	
39 1900	7.063	6.513	50	325.65	
40 1950	5.821	6.442	50	322.10	
41 2000	5.681	5.751	50	287.55	
42 2050	5.532	5.607	50	280.325	
43 2100	5.385	5.459	50	272.925	
44 2125	5.689	5.537	25	138.425	
				10620.35 m ³	
Less 2000 nee culverts					
2 nee 750 x 3100 0.30				13.55	
				10606.40 m ³	

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
LINK 2					
Stn - ch - P/B	Area	Mean	D/A Volume		
1 0	5.45	-	-	-	175
2 50	6.491	5.971	50	298.525	
3 100	8.048	7.26	50	362.925	
4 150	6.45	7.239	50	361.95	
5 200	7.908	7.179	50	358.95	
6 250	7.665	7.787	50	389.325	
7 300	8.42	8.043	50	402.125	
8 350	7.456	7.938	50	386.90	
9 400	7.21	7.333	50	366.65	
10 450	8.192	7.701	50	385.050	
11 500	6.727	7.46	60	372.925	
12 550	6.869	6.798	50	339.90	
13 600	5.403	6.136	50	306.80	
14 650	7.491	6.447	50	322.35	
15 700	6.844	7.168	50	358.325	
16 750	2.353	4.359	50	229.925	
17 800	3.107	2.730	50	136.50	
18 838	2.573	2.840	38	107.92	
					5497.19525
Total Qty = 10606.40 + 5486.208					
+ 5497.195 = 21589.803 m ³					
<u>Deduct</u>					
(i) Subgrade				9637.305	
(ii) G.S.B				2739.315	
(iii) Gr 1/1				1114.51	
(iv) Rec				444.88	
(v) M.S.S				239.83	

Continuation 7363.963 m³

Continuation 9 189102-00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					189102=0
(4) Construction of embankment with material obtained from borrow pits					
20.25 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 27.88/m ³ -					56720
(5) Construction of embankment with 1/2 m ³ of 1/2 m ³					
5144.13 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 132.86/m ³ -					681906=0
(6) Construction of embankment with 1/2 m ³ of 1/2 m ³					
2209.19 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 187.23/m ³ -					413627=0
(7) Construction of Sub Grade and earthen Shoulders					
9637.35 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 187.23/m ³ -					1827233=0
(8) Granular Sub base with well graded material					
2739.315 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 227.81/m ³ -					6223203=0
(9) Driveway, Caving, Spreader and Compaction of sub grade					
1114.51 m ³ of 1/2 m ³ @ 10 ft (38) TMS					
@ 3658.78/m ³ -					4077747=0
					813413385=0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					MIS 1, 34, 13, 38520
(10/10) Provide and apply prime coat 2.5% bitumen emulsion SS, 11905.89 m ² Qty vide 96m (5) Page (33) TMB @ 54283/m ² - 652800=0					
(11/11) Provide and apply GCL coat 6.5% bitumen emulsion NS, 11905.89 m ² Qty vide 96m (6) Page (33) TMB @ 1840/m ² - 219068=0					
(12/12) Mixe of surface type B provide, laying and rolling of close grade concrete 11905.89 m ² Qty vide 96m (7) Page (33) TMB @ 234.98/m ² - 2797289=0					
(13/13) Construction of 4m deep reinforced plain concrete concrete frame 444.88 m ³ Qty vide 56m (8) Page (31) TMB @ 6657.50/m ³ - 2961789=0					
(14/16) Provide and fixing of typical MMSY Project Logo 240 Qty vide 96m (9) Page (20) TMB @ 9969=60=0 19939=0					
(15/23) Excavation of 168.989 m ³ Qty vide 96m (6) Page (20) TMB @ 28571/m ³ - 48280=0					
(16/24) Provide and fix M15 as level course in foundation Continuation 201, 12550=0					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					20116 2.01, 12,550=00
26.42m ³ fly ash brick @ 1400 TMS					
@ 5252=00/m ³ →					138763=00
(17/25) Plain/reinforced concrete					
concrete in slab structure					
173.61m ³ fly ash brick @ 1400 TMS					
@ 15214.64/m ³ →					1079297=00
(18/26) 1200mm dia 1200mm deep pipe					
52.50m ³ fly ash brick @ 1400 TMS					
@ 1105.64/m ³ →					58046=00
1000mm dia					
15.00m fly ash brick @ 1400 TMS					
@ 4190=00/m ³ →					62852=00
(19/33) 1200mm dia 1200mm deep					
of a reinforced concrete concrete					
pipe deep 300mm					
180m fly ash brick @ 1400 TMS					
@ 985=00/m ³ →					177107=00
(20/34) 1200mm dia 1200mm deep					
Excavation					
148.64m ³ fly ash brick @ 1400 TMS					
@ 285=00/m ³ →					42468=00
(21/35) 2nd floor foundation					
2.02m ³ fly ash brick @ 1400 TMS					
@ 488=00/m ³ →					983=00
(22/36) 1200mm dia 1200mm deep					
in foundation					
21.97m ³ fly ash brick @ 1400 TMS					
@ 5252=00/m ³ →					115386=00
Continuation					2,1787,452=00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					MPB 2, 17, 87, 452=0
(22/37) Concrete Misc concrete in foundation					94.43m ³ qty vide 8m (15) (16) (17) TMB
					@ 9522 = 1m ³ → 3495946=00
(24/35) Plain/Reinforced concrete in substructure					45.37m ³ qty vide 8m (15) (16) (17) TMB
					@ 5724 = 1m ³ → 259741=00
(25/39) Plain/Reinforced concrete in substructure					6.59m ³ qty vide 8m (16) (17) TMB
					@ 6214 = 1m ³ → 40954=00
(26/40) Recons in ditches					
					7.36m ³ qty vide 8m (17) (18) TMB
					@ 7414 = 1m ³ → 54567=00
(27/41) Silt and Plaster in bar in reinforcement					0.98432m ³ qty vide 8m (18) (19) TMB
					@ 78041 = 1m ³ → 76888=00
(28/22) Plaster of fine bit 200/500					1000 qty vide 8m (18) (19) TMB
					@ 5749 = 1m ³ → 74973=00
					R 2, 27, 90, 451=0
					Loss of cement (18) 227 90 45=0
					2, 05, 11, 406=0
Loss of stone					
					201 vide 8m (18) (19) TMB
					@ 1, 84, 94, 406=0

Continuation

Less 2nd cost A/C
 500/1 wide plate (15) @ 85,82,000 = 00
 Less 3rd cost A/C
 200/1 wide plate (15) @ 2,60,600 = 00
 Rs 1,11,6,51,806 = 00

~~25/11/2020~~

⑦ EARTH $\frac{8316.625}{1690.625} \text{ m/s}$

② Coarse Sand 1343.55 M³

③ Coarse aggregate
stone aggregate - 4860.60 m³

① Propane Supply by Hindustan Petroleum Corporation Ltd.

Gaya Institute no. 13656/2000

832 dated 30/9/2020 = 22.8138MT

Consumed	= 22.6212 MJ
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$$\text{Balance} = 0.1926 \text{ MT}$$

② Emulsion Stability by Aspetro Products LLP

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Silkrista 29/2/2020 Pafna					
In water no. AS 000126/20-21					
Collet 20/9/20 RS ₁ = 3400.00 KG					
Consumed = 3274.12 KG					
Balance = 125.88 KG					
SS ₁ = 10200.00 KG					
Consumed = 10120.00 KG					
Balance = 80 KG					
20/10/20					
22					

Continuation