

Aiua Bigha To Biera

Schedule XLV-Form No. 134

EE Kayi Co Tehanab DIVISION

A.E. Kayi Makhelumb SUB-DIVISION

2531

MEASUREMENT BOOK

Sch. XLV—Form No. 134

E.E. Rudy (Co) Tdankly DIVISION
A.E. Rudy Markedown SUB-DIVISION

Measurement Book

No.

2631

Name of Officer _____

Date of first entry _____

Date of last entry _____

पुनः जाँच किया जाता है कि इस मापे पुनः जाँच
 में महीने अंश वृत्त 100 (मै) पुनः जाँच
 की जायेगी यदि यह सही पाया जाये तो
 मरबुदापुल की तिथि किम जाता है

Schedule PLV-Form No. 134

NOTES Executive Engineer

REFERENCE TO P. W. D. CODE (M) Division
 Para 39 & 81 Jehanabad

In recording detailed measurements the following general instructions should be carefully observed :-

- (a) Subject to such subsidiary orders as may be laid down by the local Government detailed measurements should be recorded only by Executive or Assistant Engineers or by Executive subordinates in-charges of work to whom measurement books have been supplied by the Executive Engineer for the purpose.
- (b) All measurements should be bear taken down in a measurement book Form 23, issued for the purpose, no where else.
- (c) Each set of measurement should commence with entries starting-
 - (i) In the case of bills for work done :-
 - (a) Full name of work as given in estimate
 - (b) Situation of work (c) Name of contractor.
 - (d) Number and date of his agreement and
 - (e) Date of measurement
 - (f) "Stock", (ii) "Purchase" for direct issue to (here enter full name of work as given in estimate)
 - (ii) "Purchase" for (here enter full name of work as given in estimate) issued to contractor on and
 - (d) Date of measurements and should end with the Paid initials of the officer marking the measurement, see also paragraph 24, A suitable abstract should than

be prepared which / should collect in the case of measurement for work done, the total quantities of each distinct item of work relating to each sanctioned sub-head.

- (d) As all payments for work supplies are based on the quantities recorded in the measurement books it is incombent upon the person taking the measurement to record the quantities clearly and accurately. If the measurements are taken in connection with a running contract account on which work has been previously measured he is further responsible (1) that reference to the last set of measurements is recorded and (2) that if the entire job or contract has been completed the fact is recorded prominently just above his initials.
- (e) Entries should be record continuously in the measurement book No blank pages may be left and no page be turn out. Any page left in adveltenly must be cancelled by diagonal nes. The cancellation being attested. See also paragraph of the Public Work Department Code.
- (f) No entry may be erased, of a mistake is made it shold be correct (and dated) by the responsible officer in the manner prescribed in paragraph 335 of the Public Works Department Code. When any measurements are cancelled, the cancellation, must be supported by the dated initials of the officer ordering the cancellation or by refrence to his orders initialled by the officer who made the measurements In either case the reason for cancellation should be provided with an index which should be kept up to date.

Est on A/c Bill

Name to work—

Situation of work—

Agency by which work is executed—

Date of measurement—

No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work :- Repair of road from Alunbigha to Bhoj.					
Agency :- M.G. Construction & Co. Const area Jehanabad					
Agreement No - 08/MBD/2019-20					21/07/2020
Date of Commencement - 21/07/2020					10/12/2019
Date of Completion - 07/09/2020					
Date of measurement - 17/06/2020					
Date of Entry -					

RECORD ENTRY

1) Cleaning & grubbing of road lang - do - do -

$$2 \times 30 \times 30 \times 1.00 = 1800 \text{ m}^2$$

$$2 \times 15 \times 30 \times 1.00 = 900 \text{ m}^2$$

$$2 \times 1 \times 10 \times 1.00 = 20 \text{ m}^2$$

$$\text{Total} = 2720 \text{ m}^2$$

$$\text{In Hect.} = \frac{2720}{10000} = 0.272 \text{ Hect.}$$

2) Construction of granular sub-base GR-II - do - do -

as per spec & ratio of E/T

NO	length (m)	width (m)	Thick ness (m)	Qty (m ³)
12	2.10	0.85	0.175	3.7485
9	2.36	1.10	0.160	3.6432

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
7	1.90	0.90	0.120		2.0347
11	2.00	0.75	0.150		2.4750
9	1.80	0.95	0.195		2.6733
10	2.10	0.80	0.155		2.6040
8	1.95	0.95	0.175		2.5935
14	1.40	0.70	0.140		1.9208
16	1.80	1.05	0.150		4.5360
9	2.00	0.70	0.160		2.0160
10	1.95	0.65	0.175		2.2181
13	1.65	0.95	0.155		3.1585
8	2.30	0.80	0.170		2.5024
9	2.20	0.85	0.175		2.9453
15	1.65	0.55	0.160		2.1780
17	1.85	0.70	0.165		3.6325
11	1.90	0.75	0.150		2.3573
12	1.40	0.95	0.175		2.7930
10	1.95	0.80	0.175		2.7300
13	1.60	0.70	0.150		2.1840
18	1.45	0.95	0.165		4.0912
15	1.30	1.10	0.175		3.7538
9	1.50	1.00	0.160		2.1600
10	2.10	0.950	0.175		3.4913
12	2.00	0.80	0.175		3.3600
8	1.90	0.75	0.150		1.7100
11	1.55	0.85	0.165		2.3913
16	1.90	1.10	0.175		5.8520

Continuation

Rash

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	No.	Length	width	Thick ness	Qty (m ³)
12	1.75	1.05	0.145		3.1973
15	2.00	0.60	0.160		2.8800
9	1.80	0.80	0.175		2.2680
checked					Total = 90.1132
Red injun					Limit = 89.250 m ³

RECORD ENTRY

3) Providing, laying & spreading
of Compaction URM GR-II
-do- do-

No. of Pots	Length (m)	width (m)	Thick ness (m)	Qty (m ³)
12	2.1	0.85	0.075	1.6005
9	2.3	1.10	0.075	1.7078
11	2.00	0.75	0.075	1.2375
9	1.80	0.95	0.075	1.1543
10	2.10	0.80	0.075	1.2600
8	6.50	2.14	0.075	8.3460
14	2.10	1.20	0.075	2.6460
9	1.40	1.10	0.075	1.0395
7	1.25	2.40	0.075	1.5750
4	2.10	1.50	0.075	0.9450
13	1.45	2.65	0.075	3.7464
16	4.80	1.30	0.075	7.4880
18	4.40	1.75	0.075	10.3950
13	3.40	1.13	0.075	3.7460
17	1.00	1.35	0.075	1.7213

Continuation

Red injun
8/5/20
Ar

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
No. of pits	Length (m)	width (m)	Thick ness (m)		Qty (m ³)
16	1.80	2.15	0.075		4.644
14	3.15	0.60	0.075		1.7845
17	1.80	0.70	0.075		2.0655
Total = 57.375 m ³					

4) formling, laying & boarding?
Compacting of WBM BR-II
 - to - do -

No.	Length (m)	width (m)	Thick ness (m)	Qty (m ³)
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9	1.850	1.050	0.075	1.310
9	2.400	1.350	0.075	1.707
10	1.450	0.890	0.075	0.968
18	2.150	1.250	0.075	3.630
15	1.550	1.350	0.075	2.354
20	2.310	0.950	0.075	3.119
16	2.050	1.100	0.075	2.706
6	2.200	0.950	0.075	0.941
8	1.750	1.150	0.075	1.208
22	2.350	1.050	0.075	4.071
24	1.750	0.850	0.075	0.678
11	1.950	1.20	0.075	1.730
7	2.250	1.30	0.075	1.535
15	2.450	1.15	0.075	3.169

Continuation

Pach

Particulars	Details of actual measurement				Contents of area
	W	L	B	H	
110	Length	Width	Depth	Area	9.97 (m ³)
13	1.90m	1.95m	0.95		1.995
14	1.75m	1.95m	0.95		1.945
20	1.95m	1.75m	0.95		2.194
17	2.15m	1.20m	0.95		3.426
13	1.30m	1.10	0.95		1.394
10	1.75m	1.55m	0.95		0.722
12	2.10m	1.20	0.95		2.268
16	1.55m	1.30	0.95		2.418
9	2.45m	1.95m	0.95		3.2240
12	2.30m	1.15m	0.95		2.381
8	1.75m	1.55m	0.95		1.103
10	2.45m	1.60	0.95		2.273

15	1.95m	1.25m	0.95		2.742
16	2.05	1.20m	0.95		2.952
7	1.65m	1.95m	0.95		0.996
20	1.90m	1.00m	0.95		2.993
23	2.25m	1.20	0.95		4.658
14	1.65m	1.25m	0.95		2.166
12	2.10m	0.85m	0.95		1.606
18	1.75m	1.70m	0.95		2.362
22	2.05m	1.75m	0.95		4.228
11	1.95m	1.15m	0.95		1.850
7	1.75m	0.75m	0.95		0.505
19	1.45m	1.80m	0.95		0.831
8	1.20m	1.05m	0.95		0.756
21	1.85m	1.40m	0.95		2.913

Continuation

Per m²

ENTRANCES	DETAILS OF ACTUAL MEASUREMENT				CONTENTS OF AREA
	No.	L	B	D	
14	1.570	1.930	0.795		1.496
12	2.220	1.220	0.795		2.326
15	1.320	1.150	0.795		1.746
20	1.370	1.770	0.795		2.250
17	2.110	1.220	0.795		3.213
7	1.920	2.220	0.795		2.815
24	2.10	1.770	0.795		3.780
31	2.25	0.950	0.795		3.367
13	1.45	1.120	0.795		1.626
17	1.95	0.830	0.795		2.113
20	1.55	1.170	0.795		2.558
Total =					115.24 m ²

Net Limit = 114.75 m²

RECORD ENTRY

5) Providing and applying bricks
 cont with brickwork calculation (SS-1)
 - do - do -

No.	Length (m)	width (m)	Area (m ²)
9	1.850	1.050	= 17.4825
7	2.400	1.320	= 22.680
10	1.450	0.890	= 12.9050
18	2.150	1.250	= 48.3750
15	1.330	1.350	= 31.3875
20	2.310	0.970	= 41.550
16	2.050	1.170	= 36.08

Continuation

P. H.

Particulars	Records of Actual Measurement				Endpoints of Area
	H ₁	L	H	B	
APR	1.100	1.100			1.100
1	1.100	1.100			1.100
2	1.100	1.100			1.100
3	1.100	1.100			1.100
4	1.100	1.100			1.100
5	1.100	1.100			1.100
6	1.100	1.100			1.100
7	1.100	1.100			1.100
8	1.100	1.100			1.100
9	1.100	1.100			1.100
10	1.100	1.100			1.100
11	1.100	1.100			1.100
12	1.100	1.100			1.100
13	1.100	1.100			1.100
14	1.100	1.100			1.100
15	1.100	1.100			1.100
16	1.100	1.100			1.100
17	1.100	1.100			1.100
18	1.100	1.100			1.100
19	1.100	1.100			1.100
20	1.100	1.100			1.100
21	1.100	1.100			1.100
22	1.100	1.100			1.100
23	1.100	1.100			1.100
24	1.100	1.100			1.100
25	1.100	1.100			1.100
26	1.100	1.100			1.100
27	1.100	1.100			1.100
28	1.100	1.100			1.100
29	1.100	1.100			1.100
30	1.100	1.100			1.100
31	1.100	1.100			1.100
32	1.100	1.100			1.100
33	1.100	1.100			1.100
34	1.100	1.100			1.100
35	1.100	1.100			1.100
36	1.100	1.100			1.100
37	1.100	1.100			1.100
38	1.100	1.100			1.100
39	1.100	1.100			1.100
40	1.100	1.100			1.100
41	1.100	1.100			1.100
42	1.100	1.100			1.100
43	1.100	1.100			1.100
44	1.100	1.100			1.100
45	1.100	1.100			1.100
46	1.100	1.100			1.100
47	1.100	1.100			1.100
48	1.100	1.100			1.100
49	1.100	1.100			1.100
50	1.100	1.100			1.100
51	1.100	1.100			1.100
52	1.100	1.100			1.100
53	1.100	1.100			1.100
54	1.100	1.100			1.100
55	1.100	1.100			1.100
56	1.100	1.100			1.100
57	1.100	1.100			1.100
58	1.100	1.100			1.100
59	1.100	1.100			1.100
60	1.100	1.100			1.100
61	1.100	1.100			1.100
62	1.100	1.100			1.100
63	1.100	1.100			1.100
64	1.100	1.100			1.100
65	1.100	1.100			1.100
66	1.100	1.100			1.100
67	1.100	1.100			1.100
68	1.100	1.100			1.100
69	1.100	1.100			1.100
70	1.100	1.100			1.100
71	1.100	1.100			1.100
72	1.100	1.100			1.100
73	1.100	1.100			1.100
74	1.100	1.100			1.100
75	1.100	1.100			1.100
76	1.100	1.100			1.100
77	1.100	1.100			1.100
78	1.100	1.100			1.100
79	1.100	1.100			1.100
80	1.100	1.100			1.100
81	1.100	1.100			1.100
82	1.100	1.100			1.100
83	1.100	1.100			1.100
84	1.100	1.100			1.100
85	1.100	1.100			1.100
86	1.100	1.100			1.100
87	1.100	1.100			1.100
88	1.100	1.100			1.100
89	1.100	1.100			1.100
90	1.100	1.100			1.100
91	1.100	1.100			1.100
92	1.100	1.100			1.100
93	1.100	1.100			1.100
94	1.100	1.100			1.100
95	1.100	1.100			1.100
96	1.100	1.100			1.100
97	1.100	1.100			1.100
98	1.100	1.100			1.100
99	1.100	1.100			1.100
100	1.100	1.100			1.100

13	1.300	1.300			1.300
14	1.300	1.300			1.300
15	1.300	1.300			1.300
16	1.300	1.300			1.300
17	1.300	1.300			1.300
18	1.300	1.300			1.300
19	1.300	1.300			1.300
20	1.300	1.300			1.300
21	1.300	1.300			1.300
22	1.300	1.300			1.300
23	1.300	1.300			1.300
24	1.300	1.300			1.300
25	1.300	1.300			1.300
26	1.300	1.300			1.300
27	1.300	1.300			1.300
28	1.300	1.300			1.300
29	1.300	1.300			1.300
30	1.300	1.300			1.300
31	1.300	1.300			1.300
32	1.300	1.300			1.300
33	1.300	1.300			1.300
34	1.300	1.300			1.300
35	1.300	1.300			1.300
36	1.300	1.300			1.300
37	1.300	1.300			1.300
38	1.300	1.300			1.300
39	1.300	1.300			1.300
40	1.300	1.300			1.300
41	1.300	1.300			1.300
42	1.300	1.300			1.300
43	1.300	1.300			1.300
44	1.300	1.300			1.300
45	1.300	1.300			1.300
46	1.300	1.300			1.300
47	1.300	1.300			1.300
48	1.300	1.300			1.300
49	1.300	1.300			1.300
50	1.300	1.300			1.300
51	1.300	1.300			1.300
52	1.300	1.300			1.300
53	1.300	1.300			1.300
54	1.300	1.300			1.300
55	1.300	1.300			1.300
56	1.300	1.300			1.300
57	1.300	1.300			1.300
58	1.300	1.300			1.300
59	1.300	1.300			1.300
60	1.300	1.300			1.300
61	1.300	1.300			1.300
62	1.300	1.300			1.300
63	1.300	1.300			1.300
64	1.300	1.300			1.300
65	1.300	1.300			1.300
66	1.300	1.300			1.300
67	1.300	1.300			1.300
68	1.300	1.300			1.300
69	1.300	1.300			1.300
70	1.300	1.300			1.300
71	1.300	1.300			1.300
72	1.300	1.300			1.300
73	1.300	1.300			1.300
74	1.300	1.300			1.300
75	1.300	1.300			1.300
76	1.300	1.300			1.300
77	1.300	1.300			1.300
78	1.300	1.300			1.300
79	1.300	1.300			1.300
80	1.300	1.300			1.300
81	1.300	1.300			1.300
82	1.300	1.300			1.300
83	1.300	1.300			1.300
84	1.300	1.300			1.300
85	1.300	1.300			1.300
86	1.300	1.300			1.300
87	1.300	1.300			1.300
88	1.300	1.300			1.300
89	1.300	1.300			1.300
90	1.300	1.300			1.300
91	1.300	1.300			1.300
92	1.300	1.300			1.300
93	1.300	1.300			1.300
94	1.300	1.300			1.300
95	1.300	1.300			1.300
96	1.300	1.300			1.300
97	1.300	1.300			1.300
98	1.300	1.300			1.300
99	1.300	1.300			1.300
100	1.300	1.300			1.300

Red

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	B.	
No.	Length (m)	Width (m)		Area (m ²)	
18	1.750	1.00	=	31.500	
22	2.050	1.250	=	56.875	
11	1.950	1.150	=	24.6675	
7	1.750	0.550	=	6.7375	
9	1.450	0.850	=	11.093	
8	1.200	1.050	=	10.080	
21	1.850	1.000	=	38.850	
14	1.500	0.950	=	19.950	
12	2.05	1.250	=	30.750	
15	1.350	1.150	=	23.2825	
20	1.500	1.000	=	30.000	

17	2.100	1.200	=	42.840	
7	1.950	2.750	=	37.5375	
24	2.100	1.000	=	50.400	
21	2.250	0.950	=	44.8875	
13	1.450	1.150	=	21.6775	
17	1.950	0.850	=	28.1775	
20	1.550	1.100	=	34.100	

~~Per m² for~~ Total = 1530 m²

6) Plastering tack coat
with bitumen emulsion

Rate 172m No - 05, P-08

Qty = 1530 m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7) Providing, laying & setting of close graded granular sub-base material - do - do -					
vide item no - 05					
Page No - 08					
Qty. = 1530 m ²					
Recd 25/5/20					
RECORD ENTRY					
8) Providing & applying tack coat with bitumen emulsion (RS-1) - do - do -					
{ 15 x 30 x 3.75 = 1687.5					
{ 11 x 30 x 3.75 = 1237.5					
{ 18 x 30 x 3.75 = 2025.0					

{ 1 x 30 x 3.75 = 112.50				
{ 1 x 10 x 3.75 = 37.50				
Extra for widening				
{ 1 x 6.00 x 16.00 = 96.00				
2				
{ 1 x 3.00 x 3.5 = 10.50				
Total = 5158.50 m ²				

Recd 26/5/20

9) Providing & laying Semi-dense bituminous concrete - do - do -					
Area vide item no - 08					
Page No. - 09					
Area = 5158.50 m ²					

Continuation

$$\text{Qty.} = 5158.50 \times 0.025 = 128.963 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7) Providing, laying & sealing of close graded brown sand facing material - do - do -					
vide item no - 05					
Page No - 08					
Qty. = 1530 m ²					
Per 26/10/15					
RECORD ENTRY					
8) Providing & applying tack coat with bitumen emulsion (RS-1) - do - do -					
$15 \times 30 \times 3.75 = 1687.5$					
$11 \times 30 \times 3.75 = 1237.5$					
$18 \times 30 \times 3.75 = 2025.0$					
$1 \times 30 \times 3.75 = 112.50$					
$1 \times 10 \times 3.75 = 37.50$					
Extra for widening					
$\frac{1}{2} \times 6.00 \times 16.00 = 48.00$					
$= 48.00$					
$1 \times 3.00 \times 3.5 = 10.50$					
Total = 5158.50 m ²					
Per 26/10/15					
9) Providing & laying Semi-dense bituminous concrete - do - do -					
Area vide item no - 08					
Page No. - 09					
Area = 5158.50 m ²					

Continuation

$$\text{Qty.} = 5158.50 \times 0.025 = 128.96 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10) Construction of Subgrade & earthen shoulder					
- do - do -					
$2 \times 13 \times 30 \times 1.00 \times 0.40 = 312 m^3$					
$2 \times 10 \times 30 \times 1.00 \times 0.40 = 240 m^3$					
$2 \times 22 \times 30 \times 1.00 \times 0.40 = 528 m^3$					
$2 \times 1 \times 10 \times 1.00 \times 0.40 = 8 m^3$					
					Total = 1088 m ³

Permit Rs. 2000/-
 17/06/2020
 JE

Abstract of Cost

1/1) Cleaning & grubbing of road land - do - do -

V.T.M.B P-01

0.272 Hect @ Rs 49524.68 13372

Limit. 2.7

= Rs. 13372.00

2/4) Construction of granular sub-base - do - do -

V.T.M.B P-01

89.25 m³ @ Rs. 1452.25

= Rs. 1,29,613.10

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3/5) Providing, laying, spreading & compacting WBM-GR-II					
- do - do - V.T.M.B P-03					
59.375 m ³ @ Rs. 2412.90					
					= 1,38,727.10
4/6) Providing, laying, spreading and compacting WBM-GR-S					
- do - do - V.T.M.B P-6					
114.95 m ³ @ Rs. 2270.18					
					= Rs. 2,60,505.10
5/7) Providing & applying prime coat with bitumen emulsion					
- do - do - V.T.M.B P-8					

1580.17 m ² @ Rs. 41.07					
					= Rs. 63847.10
6/8) Providing, laying & rolling of close graded premix surface material - do - do -					
V.T.M.B P-(9)					
1580.17 m ² @ Rs. 108.82					
					= Rs. 1,70,506.10

7/9) Providing & rolling tack coat					
- do - do					
1580.17 m ² V.T.M.B P-10					
1580.17 m ² V.T.M.B P-10					
1580.17 m ²					

Continuation
 11 8696.80 m² @ 13.12/m²
 = Rs. 98948.10

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/10) Providing & laying semi-circular bituminous Concrete—do—do—					
				VTMB P 9	
108.063 m ²					
128.78 m ² @ Rs				8061.32/m ²	
				Rs = 1088136.00	
9/5 Construction of subgrade & earthen shoulder—do—do				VTMB P 10	
1088.00 m ² @ Rs				176.75	
				= Rs 192304.00	
Total = Rs 21,83,384.00					
Less 5.10% as per agreement = (Rs 1,11,353.16)					

Total = 20,72,030.84				
8/10) Providing & laying semi-circular bituminous Concrete—do—do—				
VTMB P 9				
108.063 m ²				
128.78 m ² @ Rs 8061.32/m ²				
Rs = 1088136.00				
9/5 Construction of subgrade & earthen shoulder—do—do				
VTMB P 10				
1088.00 m ² @ Rs 176.75				
= Rs 192304.00				
Total = Rs 21,83,384.00				
Less 5.10% as per agreement = (Rs 1,11,353.16)				
Total = 20,72,030.84				
8/10) Providing & laying semi-circular bituminous Concrete—do—do—				
VTMB P 9				
108.063 m ²				
128.78 m ² @ Rs 8061.32/m ²				
Rs = 1088136.00				
9/5 Construction of subgrade & earthen shoulder—do—do				
VTMB P 10				
1088.00 m ² @ Rs 176.75				
= Rs 192304.00				
Total = Rs 21,83,384.00				
Less 5.10% as per agreement = (Rs 1,11,353.16)				
Total = 20,72,030.84				

Continuation

Spec. XLV Form No. 134

Particulars	Quantity of material in various units				Remarks or notes
	No.	L	B	C	
Reinforced concrete					
(1) B/W = 1038 m ²					
(2) Solid metal (G.I. = 11)					21.89 m ³
26.5 = 9.5 mm					39.86 m ³
7.5 = 2.36 mm					28.56 m ³
2.21 mm & below					45.518 m ³
(3) W.B.M. (W.B.M. = 11)					57.37 m ³
(W.B.M. = 11)					114.75 m ³
(4) Stone Metal = 208.27 m ³					208.27 m ³
Stone Metal = 15.44 m ³					15.44 m ³
(5) Gravel (W.B.M.) = 4.59 m ³					4.59 m ³

(1) Stone dust = 13.03 m ³					13.03 m ³
(Type-B = 11.2 mm)					
(2) Bitumen (1000) = 15.20 m ³					15.20 m ³
(3) Stone chips (1000)					
7.5 = 2.5 mm = 10.7					10.7 m ³
9.5 = 4.75 mm = 10.7					10.7 m ³
9.5 = 4.75 mm = 10.7					10.7 m ³
4.75 & below = 27.16 m ³					27.16 m ³
Filler = 2.85 m ³					2.85 m ³
(4) Stone chips (1000) = 41.8 m ³					41.8 m ³
(5) Bitumen (1000) = 2.94 m ³					2.94 m ³

Continuation

2nd on A/c Bill

Sch. XLV—Form No. 134

15

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work: Repair of Road from Aluabigha to Biring.					
Agency: M. H. Construction & Co. Govt Area Tehsil Badli					
Ag. No.: CS 1180/2019-20					
Date of Commencement: 21/01/2020					
Date of Completion: 09/09/2020					
Date of measurement: 02/09/2020					

- ① Providing & fixing of Rec ms grade Km local Stone of Standard design
— do — do —
Qty = 3 mts.
- ② 200 m² Stone — do — do —
Qty = 5 mts.
- ③ Providing & fixing of reflective/ cautionary mandating & information sign board — do — do —

Continuation

Sch. XIV - Form No. 134

Particulars	Details of actual measurement				Contents of bags
	No.	L	B	W	
600 mm equilateral triangle					
Qty = 10 NOS.					
(4) 600 mm Circular					
— do — do —					
Qty. = 2 NOS.					
(5) 600 mm x 450 mm rectangular					
Qty. = 3 NOS.					
(6) Road marking with hot applied thermoplastic					

Confound — do — do —
 $2 \times 500 \times 0.150 = 150 \text{ m}^2$
 $2 \times 500 \times 0.150 = 150 \text{ m}^2$
 $2 \times 360 \times 0.150 = 72 \text{ m}^2$
 Total = 272 m²

(7) Providing & fixing of
 typical mmbsy information
 sign board with logo
 — do — do —
 Qty. = 4 NOS.

Pramt R.
 02/07/2020
 JE

Continuation

Rds.
 9/7/20
 JE

Abstract of Cost

17

Sch. XIV - Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of Work: - Repairs of road from New to Khatwas					
Agency: - M. G. Construction & Co. Court Road Jhannabad					
Ag. No. - 08 mnd / 2019-20					
Date of agreement - 21/01/2020					
Date of completion - 07/09/2020					
Date of commencement - 10/12/2019					

1/1) Clearing & grubbing of road land - do - do -

V.T.M.B. P-10

0.29 Hect. @ Rs. 79524.68

= Rs. 13571.00

2/4) Construction of granular sub-base - do - do -

V.T.M.B. P-10

87.25 m³ @ Rs. 1452.25/m³

= Rs. 129613.10

3/5) Providing, laying, spreading & compacting of wear - 18 - do - do -

Continuation V.T.M.B. P-11

57.375 m³ @ Rs. 2417.90/m³

= Rs. 138722.10

281711 =

Particulars	Detailed actual measurement				Contents of pages
	No.	LL.	EB	CD	
4/6) Providing, laying, spreading & compacting of wear - III V.T.M.B P-11					
114.75 m ³ @ RS. 2270.15					
= RS. 260503.10					
5/2) Providing & applying prime coat with bitumen emulsion SS-1 - do - do - V.T.M.B P-11					
1530.10 m ² @ RS. 41.07/m ²					
= RS. 62837.10					
6/9) Providing & applying tank coat - do - do - V.T.M.B P-11					
6696.30 m ² @ RS. 13.94/m ²					
= RS. 93346.10					
7/8) Providing laying and rolling of close graded premix surface material - do - do - V.T.M.B P-11					
1530.10 m ² @ RS. 166.37/m ²					
= RS. 253546.10					
8/10) Providing & laying Semi- dense bituminous concrete - do - do - V.T.M.B P-12					
128.963 m ³ @ RS. 8061.32/m ³					
= RS. 1038136.10					

Continuation

1391079-
1709368-

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/3) Construction of subgrade & earthen shoulder - do -					
do - V.T.M.B P-12					
1088.10 m ³ @ Rs. 176.25					
= Rs. 192304.10					
10/11) Providing & fixing of Rec mis grade km local Stone - do - do -					
V.T.M.B P-15					
3 NOS @ Rs. 1890.57/each					
= Rs. 5672.10					
11/12) 200m Stone					
do - do - V.T.M.B P-15					
5 NOS @ Rs. 563.64/each					
= Rs. 2815.10					
12/14) Providing & fixing of set-to-set electrified sign board - do - do -					
V.T.M.B P-16					
equilateral triangle					
10 NOS @ Rs. 3516.40/each					
= Rs. 35164.10					
13/15) 600 mm Circular					
V.T.M.B P-16					
2 NOS @ Rs. 3610.75/each					
= Rs. 7221.10					
14/16) 600 mm x 450 mm rectangular					
V.T.M.B P-16					
3 NOS @ Rs. 3480.32/each					
= Rs. 10441.10					

Continuation

1942525
2244636

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
15/19) Road marking with hot applied thermoplastic Compound - do - do - ✓ T.M.B P-16					
272.00 m ² @ Rs 735.75/m ²					
= Rs. 20124.00					
16/20) Providing & fixing of typical round logo as per spec - do - do - ✓ T.M.B P-16					
04 NOS. @ Rs. 8999.95/each					
= Rs. 35999.80					
					36000

				2480760
Total = Rs.	2489760.00			
Less 5% + 95 = (-) Rs.	126519.00			
per agreement	126519.00			
= Rs.	2362782.00			
Less for previous	2351247			
payment = (-) Rs.	2072051.00			
= Rs.	290751.00			
	282210			
DAO 5887 9/11/19.2020				
band Rs	Rs			
02/07/2020	9/7/20			
JE	AE			

Continuation

21

n No. 134			
Details of actual measurement			
	B.	C.	D.

Particulars	2019	2020
1. Opening Balance	100	100
2. Add: New Deposits	50	50
3. Less: Withdrawals	(20)	(20)
4. Closing Balance	130	130

No.

L.

B.

D

D

D

5. 1. 5.

9. June 21

L. 055

LIST

01/06/21

5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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BY	CL
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Deber

(Two)

Sum

40

10/10/10

0440

750

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[illegible]

1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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2000

Continuation

3rd & final bill

22

Sch. XLV—Form No. 13c

Sch. XLV—Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Repair of road from Alnabigha to Bissa.					
Agency:- M.G. Construction & Co. Ghat area Jehanabad					
Agreement no:- 08/MBD/2019-20 21/07/2020					
Date of Commencement					
from 10/12/2019 to 01/01/2020					
Date of Completion- 09/09/2020					
Date of measurement					
= 03/09/2020					

① Providing direction & Place identification Signs with size more than 0.9 sqm
Size board - do - do -

$$10 \times 0.433 \times (0.6)^2 = 1.562 \text{ m}^2$$

$$2 \times 0.785 \times (0.6)^2 = 0.565 \text{ m}^2$$

$$3 \times 0.60 \times 0.45 = 0.810 \text{ m}^2$$

$$2 \times 0.95 \times 1.55 = 2.946$$

$$2 \times 0.65 \times 0.65 = 0.846$$

$$\text{Qty} = 3.792 \text{ sqm}$$

② Planting of trees by road side (Avenue trees) - do -

- do -

1360 m

40 m

34 trees

(Along one side) due to canal

from K.S.
03/09/2020
JE

Abstract of cost

23

Sch. XLV—Form No. 134

Sch. XLV—Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L.	B.	D.	
Name of works:— Repair of road from Alumbigha to Bisan					
Agency:— M.G. Construction & Co. Const area Jehanabad					
Agreement No.:— 08/MBO/2019-20					
Date of Commencement—					
10/12/2019 20/12/2019					
Date of Completion— 09/09/2020					
Date of measurement—					
					03/09/2020

1/1) clearing & grubbing of road land -do-do-

V-T.M.B P-17

0.27 Hect. @ Rs. 49524.68
=Rs. 13371.00

2/4) Construction of granular Sub base -do-do-

V-T.M.B P-17

89.25 m³ @ Rs. 1452.25/m³
=Rs. 129613.00

3/5) Providing laying, spreading & compacting of WBM-II -do-do-

V-T.M.B P-17

57.375 m³ @ Rs. 2417.90/m³
=Rs. 138727.00

Continuation

281711=

Particulars	Details of actual measurement				Quantity of area
	No.	L.	B.	D.	
4/6) Providing, laying, spreading & compacting of WBM-II					
- do - V.T.M.B P-18					
114.45 m ³ @ Rs. 2296.18/m ³					
= Rs. 260503.10					
5/7) Providing & applying prime coat with bitumen emulsion					
SS-1 - do - do - V.T.M.B P-18					
1530.00 m ² @ Rs. 41.09/m ²					
= Rs. 62837.00					
6/9) Providing & applying tack coat					
- do - do - V.T.M.B P-18					
6676.20 m ² @ Rs. 13.94/m ²					
= Rs. 73846.10					
7/8) Providing, laying and rolling of close graded premix sur- face					
- do - do - V.T.M.B P-18					
1530.00 m ² @ Rs. 166.37/m ²					
= Rs. 257596.10					
8/10) Providing and laying Semi dense bituminous concrete					
- do - do - V.T.M.B P-18					
128.963 m ³ @ Rs. 8061.32/m ³					
= Rs. 1038136.10					
9/13) Construction of sub grade & earthen shoulder					
- do - do - V.T.M.B P-18 19					
1088.00 m ³ @ Rs. 176.75/m ³					
= Rs. 192304.00					

Continuation

2183283=

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
10/11) Providing & fixing of Rec MIS grade Km local Stone					
-do- do- V.T.M.B P-19					
05 NOS. @ Rs. 1890.57/each					
= Rs. 5672.10					
11/12) 200mm Stone - do-					
V.T.M.B P-19					
05 NOS. @ Rs. 563.02/each					
= Rs. 2815.10					
12/14) Providing & fixing of retro-reflectised Siger board - do - do -					
V.T.M.B P-19					

Equilateral & triangle					
10 NOS. @ Rs. 3570.40/each					
= Rs. 35704.10					
13/15) 600mm Circular - do-					
V.T.M.B P-19					
02 NOS. @ Rs. 3610.73/each					
= Rs. 7221.46					
14/16) 600mm x 450mm - do-					
V.T.M.B P-19					
03 NOS. @ Rs. 3480.52/each					
= Rs. 10441.56					
15/19) Road marking with hot applied thermoplastic compound					
-do- do- V.T.M.B - P-20					

Continuation

272.10 m² @ Rs. 735.75/m²
= Rs. 200124.10

2444760=

Sch. XIV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	O	
12/1) Landings & fixing of typical masonry base etc -					
- do - V-T-M-B P-20					
00 NIS @ RS. 5777.95/each					
= RS. 38000.00					
12/1) Landings & erecting of dissection & place identification signs - do - do -					
V-T-M-B P-22					
8.792 m ² @ RS. 12040.15					
= RS. 45656.00					
12/1) Planting of trees by road					
12/1) (over the trees) - do - do					

V-T-M-B P-22					
3.3 NIS @ RS. 797.08					
= RS. 27169.00					
Total = RS. 25555.55					
Add 12/1) & 11/1) = 4)					
332 226.00					
= RS. 268791.00					
Less 5.10 + 15 per					
agreement (-) RS. 14716.50					
= RS. 254074.50					
Less for provision					
payment (-) RS. 93572.00					
= RS. 160502.50					

Amount Rs. 160502.50

05/09/2020

JE

Continuation

2nd & Final bill
memo of Payment for Rs 384145

19207=00

S. D 5% + (pay of 27) → 2464

Other 27 → 75434=00

Sch. XLV Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B. 1st 31			7183		46537
L. 1st 11			3842		
E. 1st 11			3842		
S. 1st 11			3842		
Royalty			2687		
By cheque			337612		
			TO → 384145		

Passed for Rs 384145/- (Three lakhs
eighty four thousand one hundred
and forty five Rupees
Rs 337612/- (Three lakhs
seven thousand six hundred
and twelve Rupees)

Executive Engineer
R. W. D. (W) Division
Changanassery

9/10/2020
07/10/2020