

Aiua Bigba To Bira

Schedule XLV-Form No. 134

EE Kuyi Co Schombel DIVISION

A.E. Kuyi Maikhelum/2 SUB-DIVISION

2631

MEASUREMENT BOOK

Sch. XLV—Form No. 134

ELZ. Ruedo / Johnson DIVISION
AB. Ruedo Marchelony SUB-DIVISION

Measurement Book

No.

2631

Name of Officer _____

Date of first entry _____

Date of last entry _____

प्रमाणित किया जाता है कि इस मापे युक्त
 में मशीन और कुल 100 (सौ) फुट की दूरी
 की रजिस्ट्रार कार्यालय में 24 मई 2022 को
 मरवापुर की निशान किया जाता है

Schedule PLV-Form No. 134

NOTES

REFERENCE TO P. W. D. CODE, (M.P. 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
 - (i) "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. Tlie cancellation being attested. See also paragraph or 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.

Sch. XLV-form No. 134.

1st 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! -					Repairs of
road from Alumbigha to Bisoa.					
Agency! -					M.G. Construction
P.CO. Const area Tehana Bnd					
Agreement No -					08/MBD/2019-20
Date of commencement					
Date of Completion.					
Date of measurement					
Date of Entry					

RECORD ENTRY

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

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

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

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

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

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

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

as per spec & disn of E/I

No	length (m)	width (m)	Thick ness (m)	Qty (m ³)
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12	2.10	0.85	0.175	3.7485
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9	2.30	1.10	0.160	3.6432
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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7	1.90	0.90	0.170		2.0349
11	2.00	0.75	0.150		2.4750
9	1.80	0.95	0.175		2.6933
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	2.10	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

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
No.	Length	Width	Thickness		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
Total = 90.1132					
Limit = 89.250 m ³					

RECORD ENTRY

3) Bonding, laying & spreading
 & Compaction WBM GR-II
 - do - do -

No. of Pots	Length (m)	Width (m)	Thickness (m)	Qty (m ³)
12	2.1	0.85	0.075	1.6065
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

for 8/5/20
 Ar

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
No. of pits	length (m)	width (m)	Thickness (m)		Qty (m ³)
16	1.80	2.15	0.075		4.644
14	3.15	0.60	0.075		1.9845
17	1.80	0.90	0.075		2.0655
Total = 57.375 m ³					

checked
Red 8/5/20

RECORD ENTRY

4) bonaling, laying & spreading & Compacting of WBM BR-II

- to - do -

No.	length (m)	width (m)	Thickness (m)	Qty (m ³)
9	1.850	1.050	0.075	1.310
7	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	0.900	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	2.678
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

Red

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
No.	length	width	Thick ness		Qty (m ³)
13	1.900	1.050	0.075		1.245 ✓
14	1.750	0.950	0.075		1.245 ✓
20	1.950	0.750	0.075		2.194 ✓
17	2.150	1.250	0.075		3.426 ✓
13	1.300	1.10	0.075		1.394 ✓
10	1.750	0.550	0.075		0.722 ✓
12	2.100	1.20	0.075		2.268 ✓
16	1.530	1.30	0.075		2.418 ✓
9	2.450	1.750	0.075		3.2240 ✓
12	2.300	1.150	0.075		2.381 ✓
8	1.750	1.050	0.075		1.103 ✓
11	1.450	1.90	0.075		2.273 ✓
15	1.950	1.250	0.075		2.742 ✓
16	2.05	1.200	0.075		2.952 ✓
7	1.650	1.150	0.075		0.996 ✓
20	1.900	1.050	0.075		2.993 ✓
23	2.250	1.200	0.075		4.658 ✓
14	1.650	1.250	0.075		2.166 ✓
12	2.100	0.850	0.075		1.606 ✓
18	1.750	1.100	0.075		2.362 ✓
22	2.050	1.250	0.075		4.228 ✓
11	1.750	1.150	0.075		1.850 ✓
7	1.750	0.550	0.075		0.505 ✓
9	1.450	0.850	0.075		0.831 ✓
8	1.200	1.050	0.075		0.756 ✓
21	1.850	1.000	0.075		2.913 ✓

Continuation

Rtn

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
14	1.500	0.950	0.075		1.496 ✓
12	2.050	1.250	0.075		2.306 ✓
15	1.350	1.150	0.075		1.746 ✓
20	1.500	1.000	0.075		2.250 ✓
17	2.100	1.200	0.075		3.213 ✓
7	1.950	2.750	0.075		2.815 ✓
24	2.10	1.000	0.075		3.780 ✓
21	2.25	0.950	0.075		3.367 ✓
13	1.45	1.150	0.075		1.626 ✓
17	1.95	0.850	0.075		2.113 ✓
20	1.55	1.100	0.075		2.558 ✓
Total =					115.24 m ³

As Limit = 114.75 m³

RECORD ENTRY

5) Providing and applying primer coat with bitumen emulsion (SS-1)
- do - do -

No.	Length (m)	Width (m)	Area (m ²)
9	1.850	1.050	= 17.4825 ✓
7	2.400	1.350	= 22.680 ✓
10	1.450	0.890	= 12.9050 ✓
18	2.150	1.250	= 48.3750 ✓
15	1.530	1.350	= 31.3875 ✓
20	2.310	0.900	= 41.550 ✓
16	2.050	1.100	= 36.08 ✓

Continuation

For

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
No.	Length	Width			Area (m ²)
6	2.210	0.950	2		12.570
8	1.750	1.150	2		16.100
22	2.350	1.050	=		54.285
24	1.750	0.850	=		35.700
11	1.950	1.210	=		25.740
7	2.250	1.300	=		20.475
15	2.450	1.150	=		42.2625
13	1.900	1.050	=		25.935
14	1.750	0.950	2		23.275
20	1.750	0.750	=		29.250
17	2.150	1.250	=		45.6875

13	1.300	1.100	=		18.590
10	1.750	0.530	=		9.625
12	2.100	1.200	=		30.240
16	1.550	1.300	=		32.240
9	2.450	1.950	=		42.9975
12	2.300	1.150	=		31.740
8	1.750	1.050	=		14.700
11	1.450	1.90	=		30.305 17.545
15	1.950	1.250	=		36.5625
16	2.050	1.200	=		39.360
7	1.650	1.150	=		13.2825
20	1.900	1.050	=		39.900
23	2.250	1.200	=		62.100
14	1.650	1.250	=		28.875
12	2.100	0.850	=		21.420

Continuation

Roh

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
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	0.530	=	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	=	23.2875	
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	

Total = 1530 m²

24/5/20
 AE

6) P/v g applying tack coat with bitumen emulsion

vide item No - 65, 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 formix sub-facing material — do — do —					
vide item no — 05					
Page No — 08					
Qty. = 1530 m ²					
Re ^d 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 = 480.00				
2 = 96.00				
1 x 3.00 x 3.5 = 10.50				
Total = 5158.50 m ²				

Re^d 26/5/20

9) providing & laying semi-dense bituminous concrete — do — do —				
Area vide item no — 08				
Page No. — 09				
Area Qty = 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.	
10) Construction of Subgrade & earthen shoulder					
- do - do -					
$2 \times 13 \times 30 \times 1.00 \times 0.40 = 312 \text{ m}^3$					
$2 \times 10 \times 30 \times 1.00 \times 0.40 = 240 \text{ m}^3$					
$2 \times 22 \times 30 \times 1.00 \times 0.40 = 528 \text{ m}^3$					
$2 \times 1 \times 10 \times 1.00 \times 0.40 = 8 \text{ m}^3$					
					Total = 1088 m ³

Permit Rs. ~~Rs. 25000~~
AE

JE

Abstract of Cost

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

V-T-M-B P-01

~~0.272~~ Hact @ Rs. 49524.68 ~~13372~~

Limit. 27

= 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. 1,29,613.40

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					
57.375 m ³ @ Rs. 2417.90					
					= 1,38,727.10
4/6) Providing, laying, spreading and compacting WBM-GR-					
- do - do - V.T.M.B P-6					
114.75 m ³ @ Rs. 2270.18					
					= Rs. 2,60,503.11
5/7) Providing & applying prime coat with bitumen emulsion SS-					
- do - do - V.T.M.B P-8					
1530.00 m ² @ Rs. 166.37 41.07					
= Rs. 62837.00 Rs. 2,54,546.10					
7/8) Providing, laying & rolling of close graded premix surface material - do - do -					
V.T.M.B P-(9)					
1530.00 m ² @ Rs. 166.37					
= Rs. 2,54,546.10					
8/9) Providing & applying tack coat					
- do - do					
1530.00 m ² V.T.M.B P-8					
5158.50 m ² V.T.M.B P-9					
6718.50 m ²					
Continuation					
lt 6696.30 m ² @ Rs. 13.94/m ²					
= Rs. 93346.00					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8/10) providing & laying semi-dense bituminous Concrete - do - do -					
				VTMB P.9	
128.963 m ³					
128.78 m ³ @ Rs				8061.82/m ²	
				Rs = 1038136.00	
9/3 Construction of subgrade & earthen shoulder - do - do				VTMB P.10	
1088.00 m ³ @ Rs				176.75	
				= Rs 192304.00	
Total = Rs. 21,83,384.00					
Less 5.10% as per agreement = (-) Rs. 1,11,353.18					
Total = 20,72,030.82					
Prant Ks.					
Ref					
JE					
AE					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Material Statement					
<hr/>					
①	E/W	1088 m ³ ✓			
②	Stone metal (GSB-II)	26489.25 m ³			
Stones	26.5 - 9.5 mm	39.865 m ³			550/86
Aggregate	9.5 - 2.36 mm	28.56 m ³			411.52
	2.36 mm & below	45.518 m ³			116.8
③	(Local Sand)				427.1
	WBM (WBM Gr-II)	57.375 m ³			458
	(WBM Gr-II)	114.75 m ³			
④	Stone Metal	208.27 m ³			533.71
	Stone Screening	15.49 + 27.54 = 43.03 m ³			Ref
⑤	Binding (Moorum)	4.59 m ³			131.28
⑥	Stone dust	43.03 m ³ ✓			345.52
	(Type-B - 11.2 mm)				
⑦	Bitumen (SDBC)	15.20 MT			
⑧	Stone chips (SDBC)				
	9.5 - 7.5 mm	107.28 m ³			528.94
	7.5 - 4.75 mm	107.28 m ³			Ref
	4.75 & below	77.16 m ³ ✓			200.49
	9.5 to 0.075 (MSS type)	41.31 m ³			
	Filler	3.85 m ³			Ref
⑨	Stone chips (MSS)	41.31 m ³			470.04
⑩	Bitumen (MSS)	2.907 MT			

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Emulsion (R5-1) - 1.81 MT					
⑩ Emulsion (R5-1) = 1.307 MT					
framed R5					
JE					
20/06/20					
24/06/20					

1st on Account bill

Memo of Payment for Rs 2072031=

SD @ 5%	→	103602=
I.T @ 2%	→	41441=
L.Cess @ 1%	→	20721=
CAST @ 1%	→	20721=
SAST @ 1%	→	20721=
Pay	→	147341=
S. fee	→	37025=
by cheque	→	1680459
Bill Amount		2072031=

Passed for Rs 2072031 = Twenty Lakh
Seventy two thousand thirty one only.

Executive Engineer
Water Division
Bikaner

20/06/20