

MR-N 19-20 Group-14

Schedule XLV-Form No. 134

LO53 (LO33) to Agaiya

~~LO53~~

Agaiya. 05 MBP
22-23

Cont - 4296580 =

DIVISION

Point - 2132962 =

Below 2.4

6429542 =

SUB-DIVISION

125-22 to 11-02-23

MB - 723
125-22

MEASUREMENT BOOK

MIS Satyadon. 120.

प्रमाणित किया जाता है
कि इस मापने पर सं. 723
के कुल 100 पत्रों में से
MIR Group-14 में से 1023 (1023) में से
एच निम्नलिखित रूप में संबंधित
A-E में से संबंधित कार्यों, या-1-1
के मापने में से प्रमाणित है।

 12.5.22

कार्यपालक
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय
12.5.22

Sch. XLV—Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No. 723
12.5.22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

Name of Officer _____

Date of first entry _____

Date of last entry _____

Schedule PLV-Form No. 134

NOTES

**REFERENCE TO P. W. A. CODE, CHPL. VII
Para 39 & 81**

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-charge of work to whom measurement books have been supplied by the Executive Engineer for the purpose.
- (b) All measurements should be 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 incumbent 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 recorded continuously in the measurement book No blank pages may be left and no page be turned out. Any page left inadvertently must be cancelled by diagonal lines. The cancellation being attested. See also paragraph of the Public Works Department Code.
- (f) No entry may be erased, if a mistake is made it should 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 reference 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.

1st & Final Bill

Name of 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: - Construction of					
Maintenance of 6033 (6033)					
to Agency Road					
Agency Sateendra Kumar and					
Co. Construction (P) Ltd					
G-7 Tara Towers Exhibition					
Road Patna - I					
Agg No. 05 MND / 22-23					
Date of Commencement					12.5.22
Date of Actual Completion					12.5.22

Record Entry

1) Cleaning and Grubbing of road Land

$$2 \times 33 \times 30.00 \times 1.00 = 1980.00$$

$$2 \times 1 \times 10.00 \times 1.00 = 20.00$$

$$2 \times 33 \times 30.00 \times 1.00 = 1980.00$$

$$2 \times 1 \times 10.00 \times 1.00 = 20.00$$

$$2 \times 18 \times 30.00 \times 1.00 = 1080.00$$

$$2 \times 1 \times 7.00 \times 1.00 = 14.00$$

$$2 \times 1 \times 7.00 \times 1.00 = 14.00$$

$$= 5094.00$$

$$10000.00 \sim 0.5094 \text{ Hec}$$

Say 0.51 Hec

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2. <u>Construction of granular sub-base by PWDip</u>					
<u>half spreaded manually</u>					
<u>600</u>					
1x8m	+1.90	+0.150	=	2.28 m ³	
1x7m	+1.40	+0.150	=	1.47 m ³	
1x6m	+1.50	+0.150	=	1.35 m ³	
1x9m	+1.30	+0.150	=	1.76 m ³	
1x10m	+1.10	+0.150	=	1.65 m ³	
1x8	+1.00	+0.150	=	1.20 m ³	
1x9m	+1.20	+0.150	=	1.62 m ³	
1x8m	+1.30	+0.150	=	1.56 m ³	
1x7m	+1.40	+0.150	=	1.47 m ³	
1x6m	+2.00	+0.150	=	1.85 m ³	
1x4m	+2.00	+0.150	=	1.20 m ³	
1x3m	+1.70	+0.150	=	0.77 m ³	
1x5m	+2.30	+0.150	=	1.73 m ³	
1x4m	+1.50	+0.150	=	0.90 m ³	
1x5m	+1.90	+0.150	=	1.43 m ³	
1x7m	+2.20	+0.150	=	2.21 m ³	
1x3m	+2.40	+0.150	=	1.08 m ³	
1x6m	+2.20	+0.150	=	1.98 m ³	
1x4m	+2.70	+0.150	=	1.26 m ³	
1x7m	+1.70	+0.150	=	1.79 m ³	
1x5m	+1.90	+0.150	=	1.43 m ³	
1x4m	+2.00	+0.150	=	1.20 m ³	
1x5m	+2.40	+0.150	=	1.80 m ³	
1x4m	+2.20	+0.150	=	1.32 m ³	
Continuation					
1x8m	+2.70	+0.150	=	3.24 m ³	
					39.570 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D.	
1x 8.00 x 2.90 x 0.075 = 1.74 m ³					
1x 8.00 x 1.90 x 0.075 = 1.14 m ³					
1x 7.00 x 2.00 x 0.075 = 1.05 m ³					
1x 5.00 x 2.10 x 0.075 = 0.79 m ³					
1x 7.00 x 2.20 x 0.075 = 1.16 m ³					
1x 8.00 x 2.30 x 0.075 = 1.38 m ³					
1x 7.00 x 1.90 x 0.075 = 1.00 m ³					
1x 14.00 x 2.10 x 0.075 = 2.24 m ³					
1x 12.00 x 2.00 x 0.075 = 1.80 m ³					
1x 9.00 x 1.80 x 0.075 = 1.22 m ³					
1x 10.00 x 2.40 x 0.075 = 1.80 m ³					
1x 16.00 x 2.30 x 0.075 = 1.90 m ³					
1x 9.00 x 2.00 x 0.075 = 1.35 m ³					
1x 12.00 x 2.20 x 0.075 = 1.80 m ³					
1x 8.00 x 2.25 x 0.075 = 1.35 m ³					
1x 11.00 x 2.30 x 0.075 = 1.90 m ³					
1x 9.00 x 2.00 x 0.075 = 1.35 m ³					
1x 7.00 x 2.00 x 0.075 = 1.05 m ³					
1x 8.00 x 1.90 x 0.075 = 1.14 m ³					
1x 4.00 x 2.10 x 0.075 = 0.63 m ³					
					48.12 m ³
					47.68 m ³
4. Form for laying 200 mm and					
compacted 150 mm 60 mm					
1x 8.00 x 2.20 x 0.075 = 1.32 m ³					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
1x 7.00	1.70	0.075			0.89 m ²
1x 6.00	1.80	0.075			0.81 m ²
1x 9.00	1.60	0.075			1.08 "
1x 10.00	1.40	0.075			1.05 "
1x 9.00	1.50	0.075			1.01 "
1x 8.00	1.30	0.075			0.78 "
1x 8.00	1.60	0.075			0.96 "
1x 7.00	1.70	0.075			0.89 "
1x 6.00	2.30	0.075			1.04 "
1x 4.00	2.30	0.075			0.69 "
1x 3.00	2.00	0.075			0.45 "
1x 5.00	2.60	0.075			0.98 "
1x 4.00	1.80	0.075			0.54 "
1x 5.00	2.20	0.075			0.83 "
1x 7.00	2.50	0.075			1.31 "
1x 3.00	2.70	0.075			0.61 "
1x 6.00	2.50	0.075			1.13 "
1x 4.00	2.40	0.075			0.92 "
1x 7.00	2.00	0.075			1.05 "
1x 5.00	2.20	0.075			0.83 "
1x 4.00	2.30	0.075			0.69 "
1x 5.00	2.70	0.075			1.01 "
1x 4.00	2.50	0.075			0.75 "
1x 8.00	3.00	0.075			1.80 "
1x 8.00	2.00	0.075			1.20 "
1x 7.00	2.10	0.075			1.10 "
1x 5.00	2.20	0.075			0.83 "
1x 7.00	2.30	0.075			1.24 "

Continuation

27.56 m²

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents area
	No.	L.	B.	D.	
1x 8" w x 2.40 x 0.075 =					1.94 m
1x 7" w x 2.00 x 0.075 =					1.05 "
1x 14" w x 2.20 x 0.075 =					2.31 "
1x 12" w x 2.10 x 0.075 =					1.89 "
1x 9" w x 1.90 x 0.075 =					1.28 "
1x 10" w x 2.50 x 0.075 =					1.88 "
1x 11" w x 2.40 x 0.075 =					1.98 "
1x 9" w x 2.20 x 0.075 =					1.49 "
1x 9" w x 2.10 x 0.075 =					1.42 "
1x 8" w x 2.35 x 0.075 =					1.41 "
1x 11" w x 2.40 x 0.075 =					1.98 "
1x 9" w x 2.10 x 0.075 =					1.42 "
1x 7" w x 2.10 x 0.075 =					1.10 "
1x 8" w x 2.40 x 0.075 =					1.70 "

1x 4" w x 2.20 x 0.075 =					0.66 "
1x 8" w x 1.80 x 0.075 =					1.08 "
1x 9" w x 2.40 x 0.075 =					1.35 "
1x 7" w x 1.50 x 0.075 =					0.79 "
1x 10" w x 2.20 x 0.075 =					1.65 "
1x 8" w x 2.00 x 0.075 =					1.20 "
1x 7" w x 2.15 x 0.075 =					1.13 "
1x 10" w x 2.00 x 0.075 =					1.50 "
1x 11" w x 1.90 x 0.075 =					1.57 "
1x 10" w x 1.85 x 0.075 =					1.39 "
1x 9" w x 1.80 x 0.075 =					1.22 "
1x 10" w x 2.00 x 0.075 =					1.50 "
1x 8" w x 2.10 x 0.075 =					1.26 "
1x 11" w x 1.60 x 0.075 =					1.32 "

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 × 9.00 × 1.80 × 0.075 =					1.22
1 × 8.00 × 2.20 × 0.075 =					1.32
1 × 11.00 × 2.40 × 0.075 =					1.98
1 × 12.00 × 2.10 × 0.075 =					1.89
1 × 10.00 × 2.50 × 0.075 =					1.88
					75.33 m ³
					Limit 74.40 m ³

5. Providing and applying

Prime Coat with

SS₁

Area = Area of

WBM 6 × 11

wide P & T

$$\text{ie. } \frac{74.40 \text{ m}^2}{0.075}$$

$$= 992.00 \text{ m}^2$$

6. Patch work over WBM

Area using MSS

Qty same as Area of

Prime Coat i.e. 992.00 m²

For Profile Correction in

old P.C.

$$2 \times 15.00 \times 1.00 = 30.00$$

$$3 \times 10 \times 1.1 = 33.00$$

$$1055.00 \text{ m}^2$$

Limit Continuation 1041.50 m²

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Principle and apply					
7. Tack lot over					11
Area and for					
SDBC					
Wid P					1041.50 m
1 x 33 x 30.00 x 3.75 =					3712.50 m ²
1 x 1 x 10.00 x 3.75 =					37.50 m ²
1 x 33 x 30.00 x 3.75 =					3712.50 m ²
1 x 1 x 10.00 x 3.75 =					37.50 m ²
1 x 18 x 30.00 x 3.75 =					2025.00 m ²
1 x 1 x 7.00 x 3.75 =					26.25 m ²
Extra work					
2 x 15.00 x 0.95 =					28.50 m ²
4 x 12.00 x 1.00 =					48.00
1 x 20.00 x 1.00 =					20.00
					10,689.25
					Limit 10,689.00 m ²
8. Principle and apply					
Sewer Dense Bottoming					
Concrete					
1 x 33 x 30.00 x 3.75 x 0.025 =					92.81 m ³
1 x 1 x 10.00 x 3.75 x 0.025 =					0.94 m ³
1 x 33.00 x 30.00 x 3.75 x 0.025 =					92.81 m ³
1 x 10.00 x 3.75 x 0.025 =					0.94 m ³
18 x 30.00 x 3.75 x 0.025 =					50.63 m ³
1 x 3.00 x 3.75 x 0.025 =					0.65 m ³
Extra work					
2 x 15.00 x 0.95 x 0.025 =					0.71 m ³
4 x 12.00 x 1.00 x 0.025 =					1.20 m ³
1 x 20.00 x 1.00 x 0.025 =					0.50 m ³
					Limit 241.17 m ³
					241.19 m ³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Limit	241.17m		
9. Construction of Subgrade and Earthen Shoulder					
	2+11	30m	0.600	0.300	118.80 m ³
	2+33	70m	0.900	0.300	534.60
	2+1	10m	0.900	0.300	5.40
	2+33	30m	0.900	0.300	534.60
	2+1	10m	0.900	0.300	5.40
	2+33	30m	0.900	0.300	534.60
	2+1	7m	0.900	0.300	3.78
					1315.98
					m ³
10. SIFR ordinary kerb stone					
					03 NM
11. SIFR 200 mm stone					
					11 NM
12. SIFR Ditch					
					2 place boards
	2+1.2	70.8			1.92m ²
13. SIFR 92 to 100 mm raised					
					Profile Sign Board

Continuation

P.T.O.

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) 600 mm equilateral triangular Board 15 mm 12 mm					
(11) 600 mm circular Board 08 mm					
(12) 600 mm x 450 mm Rectangular board 03 mm					
(13) 900 mm octagon stop Board 02 mm					
(14) S/P/A Boundary pillars 32" 50 mm					
(15) Road markings with bit applied					
2 x 33 x 30.4 x 0.1 = 198.4					
2 x 1 x 10.4 x 0.1 = 2.08					
2 x 33 x 30.4 x 0.1 = 198.4					
2 x 1 x 10.4 x 0.1 = 2.08					
2 x 18 x 30.4 x 0.1 = 108.72					
Continuation					
2 x 1 x 7.4 x 0.1 = 1.48					
					509.40 m ²

Continuation

09.11.22
JL

UP
9/10/22
RE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/ clearing and grubbing road VTMP ①					
0.51 hect Crs 51101.12/hect AS 26062.7					
2/ Construction of granular sub base by Pondip well graded material VTMP ②					
39.57 m ² Crs 1501.45/m ² AS 59412.7					
3/ Pondip laying and compaction AS 11 VTMP ④					
47.68 m ² Crs 2758.67/m ² AS 131531.7					
4/ Pondip laying and compaction AS 11 VTMP ⑦					
74.40 m ² Crs 2393.71/m ² AS 178062.7					
5/ Pondip and applying prime coat VTMP ⑧					
992.40 m ² Crs 47.72/m ² AS 42378.7 Ad. 72/m ²					
6/ Pondip patch work over 7					

Continuation

M 437,445.77

B.P. 15 437 445 m

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
WBM surface width 55					
RTM 17.17					
1041.50 m ² CMS 164.55 m ² MS					171374.2
7/8 Paved layer and applying Tack coat					
RTM 17.17					
10688.10 m ² CMS 14.52 m ² MS					155190.2
8/9 Paved and layer with compacted Semi Dense Bituminous Concrete					
RTM 17.17					
241.17 m ² CMS					
241.17 m ² CMS 9362.93 m ² MS					225805.8
9/10 Construction of sub grade & shoulder					
RTM 17.17					
1315.98 m ² CMS 189.41 m ² MS					249260.2
10/10 S/P/R ordinary km					
RTM 17.17					
03 NM CMS 2041.72 CMS MS					6125.2

Continuation

M 3277 459.2

3277452

3277457.2

MS 3277459.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
11 SIP/R 200 mm square					3277459.~
11 Post					
VTMP (9)					
11.00 m ² EPS 579.09 Each MS					6370.~
12 SIP/R Discrete					
12 2 place board					
VTMP (9)					
1.92 m ² EPS 12192.12 Each MS					23409.~
13 SIP/R 600 mm equilateral					
13 Triangular board					
VTMP (10)					
12 m ² EPS 3532.30 Each MS					42388.~
14 SIP/R 600 mm circular					
14 board					
VTMP (10)					
08 m ² EPS 3661.89 Each MS					29295.~
15 SIP/R 600 x 450					
15 mm rectangular					
board					
03 m ² EPS 3572.77 Each MS					10598.~
16 SIP/R 900 mm circle					
16 - small board					

Continuation

MS 3389519.~

3389512.~

3389517.~

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
VTMP (10)					3389519.00
02MS 205 7525.55 each 13					15051.00
17 SIPR Boundary					
18 pillar					
VTMP (10)					
32MS 205 510.35 each 14					16331.00
18 Road marking with					
19 hot applied thermo					
plastic cap					
VTMP (10)					
509.40 m ² 205 735.01 each 15					37442.00
19 SIPR Typical in for					
20 rubber board and					
of new maintenance					
Policy					
VTMP (11)					
02MS 205 9483.09 each 15					18966.00
20 Paved brick work					
22 in (1.5) in concrete					
VTMP (11)					
5.76 m ² 205 5768.17 each 15					33225.00
21 Paved CP in (1.4)					

Continuation

15 3847516.00

3847509

3847514.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>material statement</u>					
① Earth 315.98 m³					1315.98
② Stone metal 26 mm to 95 mm					
= 17.65 m ³					
③ Coarse sand - 15.04 m ³					
④ Stone chips 9.5 mm to 23.6 mm					
9.90 m ³					
⑤ Stone metal 63 mm to 45 mm					
57.30 m ³					
⑥ Stone screenings = 12.79 m ³					
⑦ Filler material (Stone dust) = 0.95 m ³					
⑧ Stone metal 53 mm to 22.4 mm					
90.02 m ³					
⑨ Screenings - 21.58 m ³					
⑩ Bitumen Emul/RS, = 0.8432 MT					
⑪ Bitumen RS, = 2.934 MT					
⑫ Bitumen S90 = 1.98 MT + 27.83 MT					
= 29.81 MT					
12. Stone chips - 28.12 m ³ + 355.97 m ³					
Continuation					

Continuation

09.11.22
SE

VV
6/11/22
AB

1st and Final bill

B.F - 4271175 = 00

17/11/22

19

Sch. XLV Form No. 134

213559 =

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
17. 1. 1000				42712 =
17. C. 1000				42712 =
17. S. 1000				42712 =
Royal 1/2				139533 =
S/F				17588 =
Pigsties				3686935 =
Total				4271175 = 00

Registered Area - Forty two
Lakh Seventy one thousand
one hundred Seventy five

22/11/22

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
प्रमण्डल, लखीसराय
11-22

Continuation