प्रतिलिपि MR-14/119-20 Lakhisarai

Shedule XLV Form No. 134.

आजुनी पुरा से टाल्हा ग्राम P.M.G.S.Y

DIVISION

25 M.B.D 20-21

Cost - 3974250

Maint - 1514304

SUB-DIVISION

Total:- 54,88554=

लं० - 1.59 K.M.

Measurement Book

प्रारंभ - 12-02-21 M.B - 621/20-2-21

समाप्ति - 11-11-21

श्री रजनीश कुमार

प्रमाणित किया जाता है कि इस मापीपुस्त सं० 621 में कुल 100 पन्ने हैं जो अजनी ग्राम से राम बाजार P.M.G.S.Y. पथ निर्माण कार्य हेतु संबंधित A.E श्री प्रवीण कुमार सिंह के नाम से निर्गत किया जाता है।

22.12.2021

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, लखीसराय

20-2-21

Sch. XLV - Form No. 134

________________ DIVISION

________________ SUB-DIVISION

Measurement Book

No. 621

~~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, CHPI.VII
Para 30 & 31

1. 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 stating —
      (i) In the case of bills for work done :-
         (a) Full name of wok as given in estimate
         (b) Situation of work
         (c) Name of contractor,
         (d) Number and date of his agreement and
         (e) Date of measurement
      (ii) In case of bills for supply for materials :-
         (a) Name of Supplier
         (b) Number and date of his agreement for order,
         (c) Purpose of supply in one of the following forms applicable of the case —
         (i) :Stock" (for all supply for stock purpose)
         (ii) "Purchase" for direct issue to the work (full name of work as given in estimate may be mentioned)
         (iii) "Purchase" for (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 25)

      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.

   (e) 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.
   (f) 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 advertently must be cancelled by diagonal lines. The cancellation being attested. See also paragraph or the Public Work Department Code.
   (g) No entry may be erased, of 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 installed by the officer who made the measurements in either case the reason for cancellation should be recorded.

      Each measurement book should be provided with an index which should be kept up to date

1st and/c Bill & Final

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- Construction/ Maintenance of Road from Jamunapul to Tal Sharma					
Agency:- Sri Rajnish Kumar, at- Patarpur, PO- Dariyapur					
Distt:- Lakhisarai					
Agg. No. 25 MSD/2020-21					
Date of Commencement:- 12.2.21					
Date of Completion					11.11.21

Record Entry

1. Clearing & Grubbing of road

Land $2 \times 20 \times 30.00 \times 1.00 = 1200.00 m^2$

$2 \times 20 \times 30.00 \times 1.00 = 1200.00 m^2$

$2 \times 10 \times 30.00 \times 1.00 = 600.00 m^2$

$2 \times 3 \times 30.00 \times 1.00 = 180.00 m^2$

$3180.00 m^2$

$= \frac{3180.00}{10000.00}$ Hect

$= 0.318$ Hect

Say 0.32 Hect

2. Scarifying the Soil up

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Bituminous surface					
15 × 10.40 × 3.75 = 562.50 m²					
				C/F 540.00 m²	
3. Constructing of Granular Sub-base Course II					
1 × 8.40 × 1.90 × 0.15 = 2.28 m³					
1 × 8.40 × 2.30 × 0.15 = 2.76 m³					
1 × 8.40 × 2.60 × 0.15 = 3.12 m³					
1 × 8.40 × 2.40 × 0.15 = 2.88 m³					
1 × 7.40 × 2.60 × 0.15 = 2.73 m³					
1 × 8 m × 2.50 × 0.15 = 3.00					
1 × 9.40 × 2.60 × 0.15 = 3.51 m³					
1 × 8.40 × 2.35 × 0.10 = 1.88 m³					
1 × 9.40 × 2.10 × 0.10 = 1.89 m³					
1 × 8.40 2.40 × 0.10 = 1.92 m³					
1 × 7.40 × 2.50 × 0.10 = 1.75 m³					
1 × 7.40 × 2.10 × 0.10 = 1.47 m³					
1 × 8.40 × 2.60 × 0.10 = 2.08 "					
1 × 8.40 × 2.40 × 0.150 = 2.88 "					
1 × 9.40 × 2.50 × 0.150 = 3.37 "					
1 × 8.40 × 2.50 × 0.150 = 3.00 "					
1 × 8.40 × 2.50 × 0.150 = 3.00 "					
1 × 9.40 × 2.40 × 0.150 = 3.24 "					
1 × 9.40 × 1.80 × 0.150 = 2.56 "					
1 × 8.40 × 2.40 × 0.1502 = 2.88 "					
1 × 7.40 × 1.90 × 0.150 = 2.56					
					5476 m³

Continuation

C/F 5178 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Providing laying spreading and Compacting GSB					
	1	8.70	2.10	0.075 =	1.26 m³
	1	8.40	2.50	0.075 =	1.50 m³
	1	8.70	2.60	0.075 =	1.56 "
	1	8.90	2.80	0.075 =	1.68 "
	1	7.90	2.80	0.075 =	1.47 "
	1	8.90	2.70	0.075 =	1.62 "
	1	9.90	2.80	0.075 =	1.85 "
	1	8.70	2.55	0.075 =	1.53 "
	1	9.70	2.30	0.075 =	1.55 "
	1	8.70	2.60	0.075 =	1.56 "
	1	7.90	2.70	0.075 =	1.42 "
	1	7.70	2.30	0.075 =	1.21 "
	1	8.90	2.80	0.075 =	1.68 "
	1	8.70	2.60	0.075 =	1.56 "
	1	9.90	2.70	0.075 =	1.82 "
	1	8.90	2.70	0.075 =	1.62 "
	1	9.70	2.60	0.075 =	1.76 "
	1	9.90	2.10	0.075 =	1.42 "
	1	8.90	2.60	0.075 =	1.56 "
	1	9.90	2.10	0.075 =	1.42 "
	1	8.90	2.60	0.075 =	1.56 "
	1	9.90	2.40	0.075 =	1.62 "
	1	4.90	2.30	0.075 =	0.69 "
	1	3.90	2.30	0.075 =	0.52 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1 ×	2.00 ×	2.90 ×	0.075 =	0.44 m³
	1 ×	6.00 ×	2.40 ×	0.075 =	1.08 "
	1 ×	7.00 ×	2.50 ×	0.075 =	1.31 "
	1 ×	3.00 ×	2.71 ×	0.075 =	0.61 "
	1 ×	2.00 ×	2.50 ×	0.075 =	0.38 "
	1 ×	8.00 ×	2.50 ×	0.075 =	1.50 "
	1 ×	9.00 ×	2.50 ×	0.075 =	1.69 "
					42.47 m³
5 Providing laying and spreading Compacting WBM Contd					
	1 ×	8.00 ×	2.30 ×	0.075 =	1.38 m³
	1 ×	8.00 ×	2.70 ×	0.075 =	1.62 m³
	1 ×	8.00 ×	2.80 ×	0.075 =	1.68 m³
	1 ×	8.00 ×	3.00 ×	0.075 =	1.80 m³
	1 ×	7.00 ×	3.00 ×	0.075 =	1.58 m³
	1 ×	8.00 ×	2.90 ×	0.075 =	1.74 m³
	1 ×	9.00 ×	3.00 ×	0.075 =	2.03 m³
	1 ×	8.00 ×	2.75 ×	0.075 =	1.65 m³
	1 ×	9.00 ×	2.50 ×	0.075 =	1.69 m³
	1 ×	8.00 ×	2.80 ×	0.075 =	1.68 m³
	1 ×	7.00 ×	2.90 ×	0.075 =	1.52 m³
	1 ×	7.00 ×	2.50 ×	0.075 =	1.31 m³
	1 ×	8.00 ×	3.00 ×	0.075 =	1.80 m³
	1 ×	8.00 ×	2.81 ×	0.075 =	1.68 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
	17	9.00	2.30	0.075	1.96 m³
	17	8.00	2.90	0.075	1.74 m³
	17	9.00	2.80	0.075	1.89 "
	17	9.00	2.70	0.075	1.83 "
	17	8.00	2.80	0.075	1.68 "
	17	9.00	2.31	0.075	1.53 "
	17	8.00	2.80	0.075	1.68 "
	17	9.00	2.60	0.075	1.76 "
	17	4.00	2.50	0.075	0.75 "
	17	3.00	2.50	0.075	0.56 "
	17	2.00	3.10	0.075	0.47 "
	17	6.00	2.60	0.075	1.17 "
	17	7.00	2.70	0.075	1.42 "
	17	3.00	2.90	0.075	0.65 "
	17	2.00	2.70	0.075	0.41 "
	17	8.00	2.70	0.075	1.62 "
	17	9.00	2.70	0.075	1.82 "
	17	19.00	3.10	0.075	4.42 "
	17	18.00	3.50	0.075	4.73 "
	17	19.00	3.20	0.075	4.56 "
	17	20.00	3.40	0.075	5.10 "
	17	19.00	3.40	0.075	4.85 "
	17	19.00	3.10	0.075	4.42 "
	17	18.00	3.50	0.075	4.73 "
	17	17.00	3.20	0.075	4.08 "
	17	19.00	3.60	0.075	5.13 "
	17	19.00	3.50	0.075	4.99 "

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1 ×	19.00	× 3.10	× 0.075 =		4.42 m³
1 ×	20.00	3.00	× 0.075 =		4.50 "
1 ×	19.00	× 3.40	× 0.075 =		4.85 "
1 ×	17.00	× 3.50	× 0.075 =		4.46 "
1 ×	19.00	× 3.40	× 0.075 =		4.85 "
1 ×	19.00	× 3.20	× 0.075 =		4.56 "
1 ×	18.00	× 3.30	× 0.075 =		4.46 "
1 ×	19.00	× 3.20	× 0.075 =		4.56 "
1 ×	18.00	× 3.40	× 0.075 =		4.59 "
1 ×	18.00	× 3.10	× 0.075 =		4.19 "
1 ×	18.00	× 3.00	× 0.075 =		4.05 "
1 ×	17.00	× 3.40	× 0.075 =		4.34 "
1 ×	15.00	× 3.50	× 0.075 =		3.94 "
1 ×	17.00	× 3.40	× 0.075 =		4.34 "
1 ×	17.00	× 3.40	× 0.075 =		4.34 "
1 ×	16.00	× 3.25	× 0.075 =		3.90 "
1 ×	17.00	× 3.20	× 0.075 =		4.08 "
1 ×	16.00	× 3.40	× 0.075 =		4.08 "
1 ×	15.00	× 3.10	× 0.075 =		3.83 "
1 ×	17.00	× 3.50	× 0.075 =		4.46 "
1 ×	16.00	× 2.80	× 0.075 =		3.36 "
1 ×	17.00	× 2.90	× 0.075 =		3.70 "
					190.12 m³

5 Providing and applying Prime Coat with Bitumen emulsion SS, on area of Patch work with WBM Gr III

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		i.e.	190.12 / 0.075		m^2
			2534.93 m^2		
		Say	2534.90 m^2		
6. Providing laying & rolling of closed graded Premix surfacing					
Area same as item No. (5) TMBP (5)					
	i.e. 2534.90 m^2				
7. Providing and applying Tack Coat					
Area of WBM (G-III) P(7) = 2534.90 m^2					
For BT + Existing CC Pav.					
33 × 30.00 × 3.75 = 3712.50 m^2					
1 × 10.00 × 3.75 = 37.50 m^2					
18 × 30.00 × 3.75 = 2025.00 m^2					
Extra Widenings					
3 × 18.00 × ((5.05 + 3.75)/2 − 3.75) = 35.10 m^2					
4 × 22.00 ((5.15 + 3.75)/2 − 3.75) = 61.60					
3 × 15.00 ((5.05 + 3.75)/2 − 3.75) = 29.25					
5 × 24.00 ((5.15 + 3.75)/2 − 3.75) = 84.00					
					8519.85 m^2

Continuation

Sch. XLV-Form No. 134

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

8. Providing laying & Compacting SDBC

33 × 30.00 × 3.75 × 0.025 = 92.81 M^3

1 × 10.00 × 3.75 × 0.025 = 0.94 M^3

18 × 30.00 × 3.75 × 0.025 = 50.625 m^3

Extra widening

3 × 18.00 $\left(\frac{5.05 + 3.75}{2} - 3.75\right)$ × 0.025 = 0.88 m^3

4 × 22.00 $\left(\frac{5.15 + 3.75}{2} - 3.75\right)$ × 0.025 = 1.54 m^3

3 × 15.00 $\left(\frac{5.05 + 3.75}{2} - 3.75\right)$ × 0.025 = 0.73 m^3

5 × 24.00 $\left(\frac{5.15 + 3.75}{2} - 3.75\right)$ × 0.025 = 2.1 m^3

149.625 m^3

9. (i) S/F/F ordinary Km stone Post

02

(ii) 200m stone Post ~~70~~ nos

07 nos

10. S/F/F Direction & place identification Board

2 × 1.2 × 0.8 = 1.92 m^2

11. S/F/F Retro reflectorised Traffic signs

(i) 600mm equilateral Traffic Board ~~19 nos~~ / ~~45~~

21 nos

·ion

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(iii) 600 mm Circular Board					9.00 nos
(iii) 600 mm x 450 mm Triangular					3 nos
(iv) 900 mm x 600 mm Hop Board					6 nos
(v)					
12. S/P/P Boundary pillars					
39 nos					
(13) Planting Trees					
19.00 nos					
14. Road marking with Thermoplastic Compound					
Lot applied Paint					
	2+33+30.00×0.1 =				198.00 m2
	2+1+10.00×0.1 =				2.00 u
	2+8+30.00×0.1 =				108.00 u
					308.00 m2
14. Providing and fixing information Board with Logo					
02 nos					
15. Providing & laying pembled Strips with thermoplastic Paint					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
~~Hor~~					
	5.00 × 3.00 × 0.50 =				7.50 m²
16 Construction of subgrade & Earthen shoulder					
2 × 5 × 30.00 × .75 × .3 =					67.50
2 × 46 × 30 × 1.00 × 0.45 =					~~828.00~~ 1242.00
2 × 1 × 20.00 × 1.5 × 0.45 =					~~27.00~~ 27.00
					1336.50
[signature] 08.11.21 JE		[signature] 8.11.21 AE			

Continuation

Sch. XLV-Form No. 134

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

ABSTRACT OF COST

1/1 clearing & Grubbing of Road Land
VT MBP (1)
0.32 Hect @ Rs 49464.05/Hect Rs 15828.00

2/2 Providing scarifying the BT surface
VT MBP (1)-(2)
540.00 m² @ Rs 15.40/m² Rs 8316.00

3/4 Constructing granular sub base G-II
VT MBP (2)
51.78 m³ @ Rs 1372.96/m³ Rs 71092.00

4/5 Providing laying & spreading WBM G-II and compacting the same.
VT MBP (4)
42.47 m³ @ Rs 2503.20/m³ Rs 1,06311.00

5/6 Providing laying, spreading and compacting WBM III

Rs 2,01,547.00

Sch. XLV-Form No. 134

BPMS 2,01547.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
VTMBP (6)					
190.12 m³ @MS		2095.41/m³ MS			3,98379.00
6/7 Provdip and applyip Prime Coat VTMBP (7)					
2534.90 m² @MS		41.26/m² MS			1,04590.00
7/8 Provdip and applyip Tack Coat VTMBP (7)					
8519.85 m² @MS		13.99/m² MS			1,19193.00
8/9 Provdip MSS closed graded Premix Surface VTMBP (9)					
2534.90 m² @MS		191.77/m² MS			486118.00
9/10 Provdip & layip SDBC as per Sg VTMBP (8)					
149.625 m³ @MS		9382.52/m³ MS			1403860.00

MS 27,13,687.00

Continuation

Sch. XLV-Form No. 134 BP Rs 2713687.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10/11 S/F/F ordinary					
km Stone Post					
VTMBP (8)					
02 Nos @ Rs 1968.75/ Each Rs					3938.00
11/12 S/F/F 200 m Stone					
Post					
VTMBP 8					
07 Nos @ Rs 572.00 Each Rs					4004.00
12/13 S/F/F Direction 2 place					
Board.					
VTMBP (8)					
1.92 m² @ Rs 12263.61 Each Rs					23456.00
13/14 S/F/F 600 mm equi					
lateral Tragular					
Board					
VTMBP (8)					
21 Nos @ Rs 3529.68 Each Rs					74123.00
14/15 S/F/F 600 mm circular					
Board					
VTMBP (9)					
9.00 Nos @ Rs 3663.40 Each Rs					32971.00

Rs 2852179.00

Continuation

Sch. XLV-Form No. 134

BPMS 2852/17

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
15/16 SIP/12 600 mm x 450 mm Rectangular Board VTM/BP (9)					
03 Nos	Cms	3532.98	Each Rs		10599.00
16/17 SIP/12 octagon Board (Stop Board) VTM/BP (9)					
06 Nos	Cms	7565.71	Each Rs		45394.00
17/18 Providing & laying grumbled Stripes VTM/BP (9) (10)					
7.50 m²	Cms	883.10/m²	Rs		6623.00
18/19 SIP/12 Boundary pillar as per Cms VTM/BP (9)					
32 Nos	Cms	505.22	Each Rs		16167.00
19/21 Planting of Trees and their maintainance VTM/BP (9)					
18 Nos	Cms	800.30	Each Rs		14405.00
20/22 Road marking with hot applied Paints					Rs 2991367.00

Continuation

Sch. XLV-Form No. 134

BPM 294537.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
VTM BP	(9)				
308.00 mtrs		883.10	mts		271995.00
21/23 S/F/P information Board with Logo VTM BP	(9)				
02 Nos @		9313.79	Each	Rs	18628.00
22/03 Constructing Sub Grade & Earthen Shoulders VTM BP	(16)				
1336.50 m³ @		176.47	/cum	Rs	235852.00
				Rs	3471842.00
Add 1% Labr Cess				+ Rs	34718.00
Add 12% Cost				+ Rs	416621.00
				Rs	3923181.00
less 0.05%				+ Rs	1960.00
				Rs	3925141.00
less Previous Payment				(-)	0.00
				Rs	3925141.00

02.6.22 JE

2.6.22 AE

Continuation

P.T.O.

Sch. XLV-Form No. 134

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

materials statement
UP-To-Date

1 EFW (subgrade) fill - 1336.50 m³

(2) Stone metal 26.5 mm to 9.5 mm
= 23.09 m³

(3) Stone chips 9.5 mm to 2.36 mm
= 16.56 m³

(4) Below 2.36 mm = 26.41 m³

(5) Stone metal ~~6~~ ~~53 mm to 22.4 mm~~ 63 mm to 45 mm
51.39 m³

(6) Stone screening = 11.04 m³

(7) Filler materials = 0.85 m³

(8) Stone metal 53 mm to 22.4 mm
230.04 m³

(9) Screening = 55.13 m³

10' Stone chips - 68.44 m³
(13.2 mm to 0.09 mm)

(11) Stone chips 9.5 mm to 4.75 mm
= 124.65

(12) Stone chips 4.75 and Below
= 89.66

(13) Filler materials = 6.61 m³

Continuation

P.T.O.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) Bitumin Emulsion RS1 = 2.343 mt					
(15) Bitumin Emulsion SS1 = 2.155 mt					
(16) Bitumin 890/VG10 =					
	4.816 + 17.264				
	= 22.08 MT				

02.6.22

SB