NH-83 To Kukri Bigha.
MMGSY(SC)

Schedule XLV-Form No. 134

EE RWD (W) Jehanabad DIVISION

A.E, RWD (W) Makhdumpur SUB-DIVISION

2572

Measurement Book

Sch. XLV - Form No. 134

EE, RWD (co) Jehanabad DIVISION

AE, RWD (co) Makhdumpur SUB-DIVISION

Measurement Book

No. 2572

Name of officer ______________________

____

Date of first entry ______________________

Date of last entry ______________________

प्रमाणित किया जाता है कि इस मापी पुस्तिका में कुल 100 (सौ) पृष्ठ है। इसे श्री राजेन्द्र प्रसाद सिंह, सहायक अभियंता [illegible] उप प्रमंडल [illegible] को [illegible] किया जाता है।

Schedule PLV-Form No. 134

NOTES

REFERENCE TO P.W.A. CODE CHP I. VII

Para 39 & 81

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 commende with entries tarting-

(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

(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 adveitenly must be cancelled by diagonal lines. The cancellation being attested. See also paragraph or the Public Work Department Code.

(f) 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 officver 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 upto date.

3rd and Final Bill

Sch. XLV-Form No. 134

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

Name of work :- Construction of road from NH-83 to Kukoribigha (Under MMGSY)

Agency :- Kumar Siddharth Prakash Pirmansoor, Ramna Road, P.O - Head post office Gaya.

Agreement No :- 12 SBD/2019-20

Agreement Date :- 24/07/2020

Date of Completion :-

Date of measurement :-

① Construction of Subgrade & earthen Shoulder - do - do -

Sides of GSB :-

$2 \times 10 \times 30.00 \times 0.600 \times 0.100 = 36.00 m^3$

$2 \times 10 \times 30.00 \times 0.600 \times 0.100 = 36.00 m^3$

Sides of WBM :-

$2 \times 10 \times 30.00 \times 0.600 \times 0.075 = 27.00 m^3$

$2 \times 10 \times 30.00 \times 0.600 \times 0.075 = 27.00 m^3$

Sides of CC Road :-

$2 \times 10 \times 30.00 \times 0.600 \times 0.160 = 57.60 m^3$

$2 \times 10 \times 30.00 \times 0.600 \times 0.160 = 57.60 m^3$

Total = $241.20 m^3$

② Construction of Un-reinforced PCC Pavement. Thickness as per design - do - do -

Continuation

$1 \times 1 \times 10.00 \times \left(\frac{9.80+6.30+4.20}{3}\right) \times 0.160 = 10.83 m^3$

Sch. XLV-Form No. 134

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

1 × 10 × 50.10 × 5.95 × 0.160 = 180.10 m³

1 × 1 × 50.10 × 5.95 × 0.160 = 18.07 m³

1 × 2 × 50.10 × 5.40 × 0.160 = 32.67 m³

1 × 4 × 50.10 × 5.55 × 0.160 = 68.16 m³

1 × 1 × 50.10 × $\left(\frac{5.50 + 5.60}{2}\right)$ × 0.160 = 17.04 m³

1 × 3 × 50.10 × $\left(\frac{5.60 + 5.70}{2}\right)$ × 0.160 = 47.57 m³

1 × 1 × ~~28.10~~ 18.10 × $\left(\frac{5.30 + 5.70}{2}\right)$ × 0.160 = 10.57 m³

Total = 387.60 m³

Extra widening on curve

5 × 18.10 × $\left(\frac{5.95 + 5.40 + 5.25 - 5.95}{3}\right)$ × 0.160 = 7.75 m³

Total Qty = 394.55 m³

(5) Laying brick soling layer on prepared sub grade with brick on end according to lines, grades and cross section —do— —do—

2 × 10 × 30.10 × 0.250 = 150.10 m²

2 × 9 × 30.10 × 0.250 = 135.45 m²

= 285.50 m²

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Providing & fixing of Rcc M15 grade km stone -do- -do-					
Qty = 02 Nos.					
(5) 200 mm stone -do-					
Qty = 02 Nos.					
(6) Providing & fixing of Retro-reflective Cautionary, mandatory and mandatory sign board -do- -do-					
600 mm ~~equilateral triangle~~ Circular					
Qty = 04 Nos.					
(7) ~~600mm x 450mm~~ 900 mm equilateral triangle					
Qty = 04 Nos.					
(8) Road marking with hot applied thermoplastic compound -do- -do-					
2 x 10 x		30.00 x	0.100		= 60.00 m²
2 x 10 x		30.00 x	0.100		= 60.00 m²
2 x 1 x		30.00 x	0.100		= 6.00 m²
2 x 1 x		28.00 x	0.100		= 5.60 m²
					131.60 m²
(9) Providing & fixing of typical MMGSY informatory sign board with logo -do- -do-					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Qty = 02 NOS.					
(10) Providing & laying of RCC pipe duct, 350 mm dia. — do — do —					
Qty = (02 NOS. places) = 15.00 m					
(11) Construction of embankment with material obtained from borrow pits — do — do —					
Chainage (m)	Area (m2)	Mean Area (m2)		Dist. (m)	Vol. m3
0	3.272				
50	3.697	3.485		50	174.25
100	3.495	3.596		50	179.80
150	3.646	3.571		50	178.55
200	3.432	3.539		50	176.95
250	2.374	2.903		50	145.15
300	2.383	2.379		50	118.95
350	2.388	2.386		50	119.30
400	2.300	2.344		50	117.20
450	2.359	2.330		50	116.50
500	1.675	2.017		50	100.85
550	1.678	1.677		50	83.85
600	0.853	1.266		50	63.30
650	0.844	0.849		50	42.45
			E/W Qty including Crust		= 1617.10 m3

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Deductions :-					
Subgrade – 241.20 m³ (P-15)					
GSB – 69.20 m³ (P-9)					
WBM Gr-III – 186.~~74~~ m³ (P-10)					
PCC (M30) – 374.35 m³ (P-16)					
Total Qty = 871.49 m³					
Net E/W Qty = 1617.10 – 871.49					
= 725.61 m³					
for 1000 m lead (100%)					
= 725.61 × 1 = 725.61 m³					
Ramit Kr. 04/12/2020 JE					
04.12.2020 AE					

Continuation

Abstract of Cost

Sch. XLV-Form No. 134

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

Name of work :- Construction of road from NH-83 to Kulai-bigha (under MMGSY)

Agency :- Kumar Siddhartha Prakash Piramansar, Ramna Road, P.O. - Head post office, Gaya.

Agreement no :- 12SBD/2019-20

Agreement date :- 24/07/2020

Date of completion :-

Date of measurement - 04/12/2020

1/1) Setting out working bench-mark -do-do- VTMB P-10

01 No. @ Rs. 3609.95/each

= RS 3610.00

2/2) Reference pillars -do- VTMB P-10

03 Nos. @ Rs. 1640.35/each

= Rs. 4922.00

3/6) Construction of embankment with material obtained from borrow pits -do-do- VTMB P. for 1000 m lead (100%)

725.61 m3 @ Rs. 175.11/m3

= Rs. 127062.00

Continuation

Sch. XLV-Form No. 134

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

1/3) Clearing & grubbing of road land -do- do- VTMB P-11
0.260 Hact. @ Rs. 49524.66/hact
= Rs. 12876.00

5/21) E/W in excavation for foundation -do- do- VTMB P-11
31.324 m^3 @ Rs. 285.17/m^3
= Rs. 8932.00

6/22) Providing PCC M15 in foundation -do- do- VTMB P-11
5.691 m^3 @ Rs. 4210.59/m^3
= Rs. 23968.00

7/23) Brick masonry work in cement mortar (1:4) -do- do- VTMB P-11
27.738 m^3 @ Rs. 5670.27/m^3
= Rs. 157281.00

8/24) Providing RCC NP3 pipe of 600 mm φ -do- do- VTMB P-11
15.00 m @ Rs. 1165.17/m
= Rs. 17477.00

9/25) Plastering with cement mortar (1:4) 15 mm thick -do- -do- VTMB P-11
76.95 m^2 @ Rs. 148.77/m^2

Continuation

= Rs. 11448.00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
10/8) Construction of granular Sub-base (gr-1) by providing well graded material -do-do- VTMB P-13					
89.20 m³ @ Rs. 1371.10/m³					
= Rs. 1,10,149.10					
11/9) Providing, laying, spreading & compacting of WBM Gr-II -do-do- VTMB P-12					
186.99 m³ @ Rs. 2113.90/m³					
= Rs. 399,199.00					
12/0) Construction of subgrade & earthen shoulder -do-do- VTMB P-15					
241.20 m³ @ Rs. 223.07/m³					
= Rs. 53790.10					
13/10) Construction of non-reinforced PCC of thickness as per design -do-do- VTMB P-16					
394.95 m³ @ Rs. 5079.00					
= Rs. 2000932.10					
14/11) Laying, bare sealing layer on prepared subgrade -do-do- VTMB P-16					
285.00 m² @ Rs. 452.33/m²					

Continuation

= Rs. 128914.10

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

15/11) Providing & fixing of RCC 1.. kilometre stone -do- -do- VTMB P-17

02 Nos. @ Rs. 562.57/each

= Rs. 1125.00

16/12) Km stone -do- -do-

02 Nos. @ Rs. 1776.10/each

= Rs. 3552.10

17/14) Providing & fixing of retro-reflectorised, Cautionary, mandatory & informatory sign board -do- -do-

600 mm Circular VTMB P-17

04 Nos. @ Rs. 3625.47/each

= Rs. 14502.00

18/15) 900 mm equilateral triangle -do- -do-

VTMB P-17

04 Nos. @ Rs. 5236.65/each

= Rs. 20947.00

19/16) Road marking with hot applied thermoplastic compound -do- -do- VTMB P-17

131.60 m2

Lt. 130.00 m2 @ Rs. 766.53/m2

= Rs. 99649.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
20/17) Providing & laying of RCC pipe duct 300mm dia — do — — do — VTMS P-18					
15.00 m @ Rs. 893.47/m					
= Rs. 13402.00					
21/20) Providing & fixing of typical MMGSY informatory Sign board with logo — do — do — VTMS P-18					
02 Nos. @ Rs. 9029.12/each					
= Rs. 18058.00					
Total = Rs. 3227004.00					
Add 12% GST = (+) Rs. 387240.00					
1% Lab. Cess = (+) Rs. 32270.00					
= Rs. 3614244.00					
Less 10% as per agreement = (-) Rs. 361424.00					
= Rs. 3252820.00					
Less for previous payment = (-) Rs. 762736.00					
= Rs. 2490084.00					
DAO CAT 8.3.2021					
Permit Rs. 08/03/2021 JE					08.03.2021 AE

Continuation