MMGSY अररिया N.H.B.RRP2

Schedule XLV-Form No. 134

मटपहिमा कोईटी रोला से भाड़ग रोला तक पथ निर्माण।

MBN. 1741/23-24

कार्यपालक अभियंता
ग्रामीण कार्य विभाग कार्य प्रमण्डल
नरकटियागंज

DIVISION

SUB-DIVISION

मटपहिमा

MEASUREMENT BOOK

ठेकेदार: रंजन कुमार राय।

प्रमाणित किया जाता है, कि इस
मापी पुस्तक में कुल 100(एक सौ) पन्ना है।
जो अंको में छापी गई है इस मापी पुस्तक
को...ठेकेदार का नाम.....
ग्रामीण कार्य विभाग कार्य खादर प्रमण्डल
.....निर्गत किया जाता है।

कोड : खेमकुमार दास

28/12/23

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमण्डल
नरकटियागंज
28.12.23

Sch. XLV-Form No. 134

_____DIVISION

_____SUB-DIVISION

Measurement Book

No. 1741/23-24

Name of officer _____

_____

Date of first entry _____

Date of last entry _____

1st on A/c Bill

1.

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 - Const of road from Bharpatiya Kaini Tola to yadav Tola					
Agency - Sanjay Kumar Raj					
Agreement No - 22/2023-24					
Date of Start. - 19.12.2023					
Date of Completion - 18.12.2024					
Record Entry					
(1) Const of boarding benchmark - do - 0.734 Km					
(2) Const of reference Pillars - do - 0.234 Km					
(3) Clearing & grubbing of road/ord - do -					
	2	10	30.00	1.50	900.0
	2	10	30.00	1.50	900.0
	2	4	30.00	1.50	360.0
	2	1	14.00	1.50	42.0
				Total =	2202.0 M2

Continuation

Say = 0.22 Hect

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
4/(16) Earthwork in excavation for foundation —					
	2	6.35	1.40	1.45 =	25.78
	1	5.20	1.55	0.35 =	2.81
				Total =	27.99 m³
5/(17) R/R P.C.C M-10 goods in foundation —					
	2	6.35	1.40	0.15 =	2.67 m³
6/(18) R/R P.C.C M-15 goods in foundation,					
	2	6.20	0.825	2.55 =	26.09
less R/R 2 x π (0.62)² x 0.65 =					
= 2 x 3.14 x 0.62 x 0.62 x 0.65 = (-)					1.57
				Total =	24.52 m³.
7/(25) R/R laying 1000 MM dia R.C.C Hume Pipe					
	1	9 av	2.50 m	=	7.50 m.

14/01/2024

14/01/2024

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
	Record Entry				
1/(a)	For R.C.C m-20 in				
	foundation — do —				
	1 × 5.79 × 1.55 × 0.250 =				2.24
	2 × 6.20 × 0.40 × 0.075 =				0.37
			Total :		2.61 m³
2/(b)	For Excavation for				
	roadway Jogging				
	2 × 10 × 30.00 × 0.525 × 0.10 =				31.50
	2 × 1 × 2.00 × 0.525 × 0.10 =				0.21
	2 × 1 × 30.00 × 0.375 × 0.10 =				2.25
	2 × 1 × 19.00 × 0.375 × 0.10 =				1.43
			Total :		35.39 m³
3/(c)	Cost of embankment				
	load up to 100 m lead				
	Excavation soil — do —				
	Total 35.39 m³				
	70 × 35.39 / 100				= 24.77 m³

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
	Record Entry				
(1/20) P/F R.C.C M-15 grade in parapet - do -					
	2 x 6.20 x 0.40 x 1.20 =				5.95 m³
(2/22) P/F Backfilling behind abutment - do -					
	1 x 5.79 x 6.20 x 1.24 =				44.51
Less.	1 x 5.79 x 1.55 x 1.24 = (+)				11.13
	Total =				33.38 m³
(5/8) Const of subgrade					
& earthwork shoulder - do -					
	06 x 30.00 x 7.10 x 0.30 =				383.40
	06 x 30.00 x 8.30 x 0.30 =				448.20
	1 x 23.00 x 7.70 x 0.30 =				53.13
	Total =				884.73 m³
25/01/24 A.E.			(P) 25/01/24		
	Record Entry				
(1/21) joinding two coats including primer.					
	Coat - do -				

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
Side	4 ×	6.20	× 0.60	=	14.88
Top.	2 ×	6.20	× 0.40	=	4.96
Ends.	4 ×	0.40	× 1.20	=	1.92
U/s D/s.	2 ×	6.20	× 1.60	=	19.84
			Total	=	41.60 m³
2/23)	Fix a fixing Guide post — do —				08 Nos.
B (9)	Const. of G.S.B by well graded material — do — Profile Correction —				
	3 ×	3.60	× 1.10 × 0.10	=	1.19
	4 ×	2.80	× 1.00 × 0.10	=	1.12
	3 ×	3.80	× 1.25 × 0.150	=	1.97
	6 ×	2.60	× 1.05 × 0.10	=	1.64
	4 ×	5.40	× 0.90 × 0.10	=	1.94
	4 ×	3.85	× 1.15 × 0.15	=	2.66
	2 × 1 ×	30.00	× 0.375 × 0.10	=	2.25
	2 × 1 ×	19.00	× 0.375 × 0.10	=	1.43
	12 ×	30.00	× 4.05 × 0.20	=	291.60
	1 ×	23.00	× 4.05 × 0.20	=	18.63
	2 × 10 ×	30.00	× 0.525 × 0.10	=	31.50
	2 × 1 ×	2.00	× 0.525 × 0.10	=	0.21
	10 ×	30.00	× 4.05 × 0.10	=	121.50
			Total =		477.64

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
	Record Entry				
18/1 Cost of subgrade					
& earthen shoulders.					
	2x 20x 30.00x 1.30x 0.20 =				312.00
	2x 2x 30.00x 1.35x 0.20 =				32.40
	2x 1x 25.00x 1.30x 0.20 =				13.00
	2x 1x 30.00x 1.60x 0.10 =				9.60
	2x 1x 19.00x 1.60x 0.10 =				6.08
			Total		373.08 m3
2/32/1 P/s & fixing masonry					
Logo board —					01 no

Earth work diversity

CH	D/S	Area	Mean Area	Volume
0	0	3.018	—	—
50	50	2.189	2.604	130.125
100	50	2.495	2.342	117.10
150	50	1.892	2.194	109.675
200	50	1.883	1.888	94.375
250	50	2.985	2.434	121.700
300	50	2.440	2.713	135.625
350	50	2.485	2.463	123.125
400	50	1.381	1.933	96.650
450	50	2.427	1.904	95.200
500	50	2.453	2.440	122.000
550	50	2.039	2.246	112.300

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
600 50	2	2.834	2.937		131.825
650 50	1	2.845	2.390		116.925
700 50	2	2.247	2.046		102.300
734 34	2	2.249	2.498		84.932
			Total :		1683.957 m²
Less crust thickness					
(i) Subgrade			—		1257.81
(ii) Box cutting			—		35.39
(iii) Soil from Box cutting			—		24.77
			Total.		1317.97 m²
Net earthwork quantity					
= 1683.957 m² − 1317.97 m²					= 365.987 m²

(i) Const of embankment
Load up to 100 m length
20% of 365.987 m²
$\frac{20 \times 365.987}{100}$ = 73.19 m²

(ii) Const of embankment
Load up to 1000 m length
80% of 365.987 m²
$\frac{80 \times 365.982}{100}$ = 292.78 m²

08/2/2024 J.E

08/02/24

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
	Abstract of cost				
1/1) Const of reference					
homing benchmark —					
0.234 KM vide Page (1)					
@ 5183.30/KM — Rs					3805
2/2) Const of reference					
pillars — do —					
0.734 KM vide Page (1)					
@ 2413.13/KM — Rs					1771
3/(3) clearing & grubbing of road land —					
0.22 Hect vide Page (1)					
@ 75573.34/Hect — Rs					16626
4/(4) Excavation for roadway box cutting —					
35.39 m³ vide Page-(3)					
@ 186.85/m³ — Rs					6613
5/(5) Const of embankment from excavation soil —					
24.77 m³ vide Page (3)					
@ 69.55/m³ — Rs					1723
6/(6) Const of embankment —					

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
lead up to 100 m lead					
292.78 m³ vide Page (7)					
@ 260.10/m³			—	Rs	76152
7/(7) Const of embankment					
lead up to 100 m lead					
73.19 m³ vide Page (7)					
@ 184.82/m³			—	Rs	13527
8/(8) Const of subgrade					
& earthern shoulders					
884.73 m³ vide Page (7)					
373.08 m³ vide Page (8)					
1257.81 m³					
@ 263.63/m³			—	Rs	331596
9/(9) Const of G.S.B by					
well graded material					
477.64 m³ vide Page (5)					
@ 3989.92/m³			—	Rs	1905745
10/(10) Earthwork in excavation					
for foundation					
— do —					
27.99 m³ vide Page (2)					
@ 398.62/m³			—	Rs	11157

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
11/12) P/w P.C.C M-10 grade in foundation —					
2.67 m³ nos			Page ②		
@ 8367.33/m³			—	Rs	22341
12/18) P/w P.C.C M-15 grade in foundation —					
24.51 m³ nos			Page ②		
@ 7973.23/m³			—	Rs	195429
13/19) P/w P.C.C M20 grade in foundation —					
2.61 m³ nos			Page ③		
@ 8683.39/m³			—	Rs	22664
14/20) P/w P.C.C M-25 grade in foundation —					
5.95 m³ nos			Page ④		
@ 8247.34/m³			—	Rs	49071
15/21) Painting two coats including primer paint —					
41.60 m² nos			Page ⑤		
@ 137.63/m²			—	Rs	5734
16/22) Back filling behind abutment —					

Continuation

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Particulars	Details of actual measure No.	L.	B.	D.	Contents of area
30.38 m wide Pkge				(4)	
@ 926.70/m²			—	₹	30917
17 (23) P/L & fixing Guide Post - do -				—	
08 nos wide Pkge				(5)	
@ 700.28/each			—	₹	5602
18 (25) P/L laying 1200 MM dia RCC Pile - do -				—	
7.50 m wide Pkge				(2)	
@ 7498.45/m			—	₹	56238
19 (32) P/L & fixing MS Bolt Cage complete				—	
01 nos wide Pkge				(6)	
@ 15585.65/each			—	₹	15586
				₹	2772292
Add GST 18%				₹	499013
Add L.Cess 1%				₹	27723
Add S.Fee				₹	51463
				₹	3350491
Less 0.05% Solid				₹ (-)	1675
				₹	3348816
08/2/2024 A.O			Pkge 08 Nos		