

MMGSY-ST

Schedule XLV-Form No. 134

Name of work:- Const. of Road from
pipri than to Nichean Basti

RWD Works Division, **DIVISION**

Kishanganj-2 MB No. 1066

Thakurganj **SUB-DIVISION**

Name of Agency- Kanhaiya Lal Mahato

MEASUREMENT BOOK

प्रमाणित किया जाता है कि इस माप पुस्त में
(एक सौ) मुद्रित दोहरे पृष्ठ हैं जो २३.१.३३२५ तोष
सहायक अभियंता, ग्रा० का० वि० कार्य अवर प्रमण्डल...
के नाम से निर्गत किया जाता है।

22/4

कार्यपालक अभियंता
ग्रा० का० वि० कार्य प्र
किशनगंज-2

22/4/2

Re-issue to Shri Gayresh Tripathi
J.E. Thakurganj
A.E.
22/4/2

Sch. XLV—Form No. 134

RWD, (W) Div. Kishanganj DIVISION
Thakurganj SUB-DIVISION

Measurement Book

No. 1066.

Name of Officer Sri Ashutosh Kumar
Assistant Engineer.

Date of first entry _____

Date of last entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	2nd On A/c bill				
(i) Name of work:—	Const. of				
	Road from Pipritthan				
	to Nishan basti under				
	Thakurganj Block by				
	MMGSy (ST)				
(ii) Name of Agency:—	Sri Kanhaiya Lal Mahla.				
	At Thana colony, Thakur				
	ganj (Kishanganj)				
(iii) Agreement No—	10/MMGSy/				
	ST/SBD/2020-21				
(iv) Date of start—	22/09/20				

Record Entry

(1)	E/w in excavation for structure cell Comp.				
	Box culvert - $1 \times 6.0 \times 3.50 \times 0.65 = 13.65$				
	C.O.W - $2 \times 3.50 \times 1.30 \times 1.80 = 16.38$				
	R/W - $4 \times 2.90 \times 3.88 \times 1.80 = 80.91$				
					110.94 M ³
(2)	Plain Cement Concrete PCC				
	M15 (1:2:5:5) in Raveling Course below open foundation all up.				
	Box culvert - $1 \times 6.0 \times 2.50 \times 0.100 = 1.50$				
	R/W - $4 \times 2.90 \times 2.88 \times 0.200 = 6.67$				
					8.17 M ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Providing PCC M15 (1:2:5:5) Concrete for plain concrete in open foundations all Comp.					
R/W - $4 \times 2.50 \times 2.475 + 1.775 \times 1.60$					
				2	$= 34.0 \text{ M}^3$
C.O.W - $2 \times 2.50 \times 0.300 \times 1.50 = 2.25 \text{ M}^3$					
					36.25 M^3
(4) Supplying, fitting and placing HYSD bar reinf. in substructure all comp.					
10mm $\bar{\Phi}$ - $40 \times 2.70 \times 0.62 = 66.96$					
12mm $\bar{\Phi}$ - $40 \times 2.70 \times 0.89 = 96.12$					
10mm $\bar{\Phi}$ - $40 \times 2.70 \times 0.62 = 66.96$					
12mm $\bar{\Phi}$ - $30 \times 2 \times 2.50 \times 0.62 = 60.00$					
6-10mm $\bar{\Phi}$ - $30 \times 2 \times 1.20 \times 0.62 = 44.64$					
12mm $\bar{\Phi}$ - $42 \times 2 \times 3.80 \times 0.89 = 284.088$					
10mm $\bar{\Phi}$ - $96 \times 6.20 \times 0.62 = 369.024$					
					1035.422
					kg
					Limit - 986.0 kg
					ie, 0.986 MT
(5) Plain/Reinforced Concrete M-20 in substructure all comp.					
Bottom slab - $1 \times 6.0 \times 2.50 \times 0.250 = 3.75$					
Sidewall - $2 \times 6.0 \times 2.0 \times 0.250 = 6.0$					
R/W - $4 \times 2.50 \times 1.01 \times 1.78 = 17.97$					
					27.72
					M^3
(6) Providing weep holes all up.					
					32 Nos.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) Supplying, fitting and placing H/S/D bar reinf. in Super Structure all comp.					
12mm $\bar{\Phi}$ - $40 \times 2.70 \times 0.89$					$= 96.12$
10mm $\bar{\Phi}$ - $40 \times 2.70 \times 0.62$					$= 66.96$
12mm $\bar{\Phi}$ - $30 \times 2.80 \times 0.62$					$= 52.08$
10mm $\bar{\Phi}$ Haunch - $40 \times 2 \times 1.42 \times 0.62$					$= 70.432$
8mm $\bar{\Phi}$ - $30 \times 4 \times 1.20 \times 0.39$					$= 56.16$
12mm $\bar{\Phi}$ - $8 \times 2.50 \times 0.89$					$= 17.80$
Chair 12mm $\bar{\Phi}$ - $10 \times 2.10 \times 0.89$					$= 17.80$
					<u>377.352</u>
					$\frac{19}{\text{Limit}} - 370.00$
					ie. 0.370 MT

(8) Providing and laying reinforced Cement-Concrete in Super structure all comp.					
Slab - $1 \times 6.0 \times 2.50 \times 0.250$					$= 3.75$
Haunch - $4 \times 6.0 \times 0.011$					$= 0.27$
Kerb - $2 \times 2.50 \times 0.25 \times 0.300$					$= 0.380$
					<u>4.395</u>
					M^3

(9) Const of Reo Reinf of M-25 grade in Cast in situ all comp.					

$$2 \times 2.50 = 5.0 \text{ M}$$

(10) Drainage spouts all comp.					
					$2 \times 2 = 4 \text{ Nos}$

(11) Providing and laying Cement					
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Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Concrete in Wearing Course					
M-30 all comp.					
$1 \times 5.50 \times 2.50 \times 0.075 = 13.75$					M ³

(12) Back filling behind abutment,
W/wall and R/W all comp.

$$2 \times 2.50 \times 5.20 \times 0.200 = 5.20$$

$$2 \times 2.50 \times 4.26 \times 1.78 = 37.79$$

$$42.99 \text{ M}^3$$

Deduct

(A)

$$\text{filter media} - 2 \times 4.26 \times 0.600 \times 1.70 = 8.69$$

$$4 \times 1.90 \times 0.600 \times 2.01 = 9.16$$

$$17.85$$

M³

(13) Providing and laying filter
material all comp.

$$2 \times 4.26 \times 0.600 \times 1.70 = 8.69$$

$$4 \times 1.90 \times 0.600 \times 2.01 = 9.16$$

$$17.85 \text{ M}^3$$

(14) PCC/RCC M-20 in substructure
in R/W all comp.

$$4 \times 2.50 \times 0.075 = 0.75 \text{ M}^3$$

N/

15/9/20

JE

Continuation

Continuation

28/X/20
JE

Sch. XLV—Form No. 134

Continuation

23/11/20
JE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
(1)	Providing & fixing of working bench mark pillars all comp.				
	vide TMB Page No-9				
	item No -(1)				
	(i) Working bench mark —				
	0.900 KM @ Rs. 3853=06				
	Per km — Rs. 3468=00				
	(ii) Ref. pillars — 0.900 KM				
	@ Rs. 1766.38/km Rs. 1590=00				
(2)	clearing & Grubbing Road				
	Land all comp.				
	0.200 Ha @ Rs. 49,496=70				
	Per Ha — Rs. 9899=00				
(3)	Excavation for Road way				
	in soil using manual means all comp.				
	vide TMB Page No-9/10				
	item No -(3)				
	18.75 M ³ @ Rs. 76=89/M ³ Rs. 1442=00				
(4)	Const of embankment				
	with material obtained from borrow pits all comp.				
	vide TMB Page No-(10)				
	item No -(4)				

Continuation

C.O Rs. 16,399=00

BF-A. 16,399=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF- $\text{Rs. } 13,96,993=00$
(7)	Const. of Granular Subbase by providing well graded materials all up. vide TMB Page No-11 item No-(7) for Rigid portion				
					20.0 M ³ @ $\text{Rs. } 1870=91$
					Per M ³ — $\text{Rs. } 37,418=00$
(8)	Providing, laying, spreading and compacting stone aggregates of specific size to WBM for II				
					vide TMB Page No-11 item No-(8)
					186.47 M ³ @ $\text{Rs. } 4555=97$
					Per M ³ — $\text{Rs. } 8,49,552=00$
(9)	Providing, laying, spreading and compacting stone aggregates of specific size to WBM for III all comp. vide TMB Page No-(12) item No-(9)				
					14.34 M ³ @ $\text{Rs. } 4555=97$
					Per M ³ — $\text{Rs. } 65,333=00$
					/
					C.O. — $\text{Rs. } 23,49,296=00$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF-16.23,49,296=00
(10) E/w in excavation for foundation of structure all up.					
vide TMB Page No-12					
item No-(10)					
29.800 M ³ @ Rs. 260.59					
Per M ³ — Rs. 7766=00					
(11) Providing RCC M15 (1:2:5:5) concrete in open foundation all up.					
vide TMB Page No-12					
item No-(11)					
2.960 M ³ @ Rs. 5553=96					
Per M ³ — Rs. 16,440=00					
(12) Providing and laying concrete for foundation all up. (M-20)					
vide TMB Page No-13					
item No-12					
30.61 M ³ @ Rs. 6274=05					
Per M ³ — Rs. 1,92,049=00					
(13) Providing and laying RCC pipe NPS for culverts all up.					
vide TMB Page No-(13)					
item No - (13)					
7.50 M @ Rs. 4097.50					
Per M — Rs. 30,731=00					
					/
					C.O-16.25,96,282=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF-As. 25,96,282=00
(14)	E/w in excavation for foundation of the structure all up.				
	vide TMB Page No-15				
	item No-(1)				
	110.94 M ³				
	@Rs. 260.59/M ³ Rs. 28,910=00				
(15)	Plain Cement Concrete PCC				
	M(15) in levelling course all up.				
	vide TMB Page No-15				
	item No-(2)				
	8.17 M ³ @Rs. 5553=				
(16)	Foundation for all up				
	vide TMB Page No-16				
	item No-3				
	36.25 M ³ @Rs. 6274.05				
	Per M ³ — Rs. 2,27,434=				
(17)	Supplying, fitting and placing HYSD bar reinforcement in substructure all up.				
	vide TMB Page No-16				
	item No-4				
	0.986 MT @Rs. 53,165.53				
	Per MT — Rs. 52,421=00				
	C.O. Rs. 28,50,423=00				

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF—Rs. 29,50,423=00
(18)	plain/Reinforced Concrete				
	M-20 in Substructure all up.				
	vide TMB Page No-16				
	item No-5				
	27.72 M ³ @ Rs. 6485.38				
	Per M ³ — Rs. 1,79,775=00				
(19)	Providing weep holes all				
	Comp.				
	vide TMB Page No-16				
	item No-6				
	32 No @ Rs. 109.71				
	vide TMB Page No-16				
	vide TMB Page No-17				
	item No-7				
	0.370 MT @ Rs. 54,233.52				
	Per MT — Rs. 20,066=00				
(21)	Providing and laying reinforced				
	Concrete in Superstructure				
	all up.				
	vide TMB Page No-17				
	item No-8				
	4.395 M ³ @ Rs. 7532.65				
	Per M ³ — Rs. 33,106=00				
	C.O. Rs. 3,86,881=00				

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF-As. 34, 12, 317=00
					vide TMB Page No-18
					item No - 13
					17.85 M ³ @ Rs. 4303.28
					Per M ³ — Rs. 76,814=00
(27)					Pcc/Rcc M-20 in Sub
					Structure in R/W of bridge
					all up.
					vide TMB Page No-18
					item No - 14
					0.75 M ³ @ Rs. 6485.38
					Per M ³ — Rs. 4864=00
(28)					Providing and applying
					emulsion (Rs-1) all up.
					vide TMB Page No-19
					item No - (1)
(31)					2455.25 M ²
					@ Rs. 42.82/M ² — Rs. 1,05,134=00
(29)					Providing and applying
					tar coat with bitumen
					emulsion (Rs-1) all up.
					vide TMB Page No-19
					item No - 2
					2455.25 M ²
(30)					@ Rs. 14.50/M ² — Rs. 35,601=00
					/
					C.O. — Rs. 36,34,730=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					BF—Rs. 36,34,730=00
(30)	Providing, laying and rolling of close-graded premix surfacing material of 20mm thick all up.				
	vide TMB Page No-19				
	item No-3				
(30)	2455.25 M ²				
	@Rs. 215.66/M ² —Rs. 5,29,499=00				
(31)	Const of unreinforced plain cement concrete pavement M30 all up.				
	vide TMB Page No-20				
	item No-1				
	Per M3 —Rs. 10,56,977=				
(32)	Providing & fixing of—				
	typical MNGSY informatory signboard with logo & citizen information all up.				
	vide TMB Page No-20				
	item No-2				
	2 Nos @Rs. 9242.56				
	each —Rs. 18,485=00				
	/				
	Rs. 52,39,685=00				
	Less 0.06% below				
	as per Agreement —Rs. 3144=00				
	(—)				
	Continuation				
	Rs. 52,36,541=00				

Continuation