

Kasul chowk to Kukurua Hamjan-tla
(Dakshin Pila)
Schedule XLV-Form No. 134

DIVISION
Executive Engineer
Rural Works Department
SUB-DIVISION

Bayisi

Bayisi

Lucky Sinha

Measurement Book

1027

MMGSH 08-18-2015
AG-07 MBD 12014-20
MMGSH- (WB)

3rd on A/c Bill
21
 Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Name of Work - Const ⁿ of road from Kachel Chok to Kakrua Hajian Tola					
Name of agency - Lucky Sinta					
Agreement No - 09/MBD/2020-21					
Date of commencement - 12/02/2020					
Date of completion - In progress					

Record Measurement

① Construction of embankment
 With material obtained from
 Borrow pits - do - do -
 $1 \times 60.0 \times 5.2 \times 0.60 = 187.2 \text{ m}^3$

② E/w in excavation of landⁿ
 as per drawing and $\frac{1}{4}$ s.
 - do - do -

For base slab
 $1 \times 11.40 \times 6.0 \times 1.10 = 75.24$
 For cutoff wall
 $2 \times 11.0 \times 0.3 \times 2.0 = 13.20$
 For R/wall
 $4 \times 5.0 \times 2.45 \times 1.50 = 73.50$
 $\text{Total} = 161.94 \text{ m}^3$

12/05/23
 AC

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Record Measurement</u>					
① P/V M-JS (PCC 1:2.5:5) as in found ⁿ trenches as per drawing and T.S.					
Below base slab					
					$1 \times 11.40 \times 6.0 \times 0.10 = 6.84 \text{ m}^3$
Below cut off wall					
					$2 \times 11.0 \times 0.50 \times 0.10 = 1.10 \text{ m}^3$
Below return ⁿ wall					
					$4 \times 5.0 \times 2.45 \times 0.15 = 7.35 \text{ m}^3$
					T = 15.29 m^3
					14/05/23

<u>Record Measurement</u>					
① S/F and placing HTSD bar reinforcement in sub-structure complete as per drawing and T.S.					
Cut off wall					
10mm ϕ					$2 \times 2 \times 10 \times 11.0 = 440 \text{ m}$
					@ 0.617 kg/m — 271.48 kg
8mm ϕ					$2 \times 74 \times 3.70 = 547.6 \text{ m}$
					@ 0.395 kg/m — 216.30 kg
					T = 487.78 kg
					= 0.488 MT
					17/05/23
					AC

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
② P/v plain/reinforced cement concrete in sub structure as per drawing - do - do - cut off wall M-20					
					$2 \times 11.0 \times 0.30 \times 2.0 = 13.20 \text{ m}^3$
③ Sand filling in foundation trenches as per drawing and T.S.					
					$2 \times 6.28 \times 3.585 \times 2.5 = 112.50 \text{ m}^3$
					181.573 H.E.

Reinforcement Measurement

① S/F and placing HYSD bar reinforcement sub structure complete as per drawing and T.S.					
① 6mm ϕ 2x2x40 x 3.42 x 1.58 = 864.58m					
@ 1.58 kg/m					1366.04 kg
① 12mm ϕ 2x40 x 6.07 = 485.6m					
@ 0.89 kg/m					432.18 kg
① 10mm ϕ 2x2x34 x 6 = 816m					
@ 0.617 kg/m					503.47 kg
3 x 2 x 17 x 6 = 652m					
@ 0.617 kg/m					377.60 kg
① 16mm ϕ 2x40 x 6.07 = 485.6m					
Continuation @ 1.58 kg/m					767.25 kg

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① 10mm ϕ 4x40x1.30 = 208 m					
					@ 0.617 kg/m — 128.34 kg
② 16mm ϕ 4x30x5.32 = 899.84 m					
					@ 1.58 kg/m — 1421.75 kg
③ 12mm ϕ 2x38x5.32 = 449.92 m					
					@ 0.89 kg/m — 400.43 kg
④ 10mm ϕ 2x2x40x3.42 = 547.2 m					
					@ 0.617 kg/m — 337.62 kg
					T — 5734.68 kg
					= 5.735 MT
					<i>20/05/23</i> <i>AE</i>

Record Measurement

- ① P/v plain/reinforced Cement concrete in sub-structure as per drawing and T.S.
RCC M-25
Base slab -

$$1 \times 11.40 \times 6.0 \times 0.4 = 27.36 \text{ m}^3$$

- ② P/v plain reinforced Cement concrete in sub structure as per drawing and T.S.
PCC M-20

R/wall

$$4 \times 5.0 \times 1.33 \times 1.0 = 26.6 \text{ m}^3$$

Continuation

20/05/23
AE

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

Record Measurement

- ① P/v plain/reinforced cement concrete in sub-structure as per drawing and T.S

RCC M-25

Side wall $2 \times 6.0 \times 0.50 \times 1 = 6.0 \text{ m}^3$

Middle wall $1 \times 6.0 \times 0.40 \times 5.0 = 2.40 \text{ m}^3$

Haunches $4 \times 6.00 \times 0.02 = 0.48 \text{ m}^3$

8.88 m^3

- ② P/v plain/reinforced cement concrete in sub-structure

as per drawing and T.S

PCC M-20

R/wall $4 \times 5.0 \times 1.33 \times 1.20 = 31.92 \text{ m}^3$

27/05/23
AE

Record Measurement

- ① P/v plain/reinforced cement concrete in sub-structure as per drawing & T.S.

RCC M-25

Side wall $2 \times 6.0 \times 0.50 \times 1.2 = 7.2 \text{ m}^3$

Middle wall $1 \times 6.0 \times 0.40 \times 1.2 = 2.88 \text{ m}^3$

10.08 m^3

- ② P/v weep holes - do do -

Continuation

36 Nos

27/05/23
AE

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

Material Statement

- ① E/W - 299.77 m^3
 ② Stone chips - 120.0 m^3
 ③ Coarse sand - 60.0 m^3

Abstract of Cost

①/160 Setting out pillar
 one No. pillar sep. for 1 KM
 Vide page No. (16) - 4 Nos
 @ Rs 4921.00/no - Rs 19684.00

②/161 Setting out pillar
 4 Nos of reference pillar for 1 KM
 Vide page No. (16) 14 Nos
 @ Rs 2258.00/no - Rs 31612.00

③/162 Clearing and grubbing road
 land - do - do
 Vide page No. (16) 0.76 Hm
 @ Rs 55990.67/Hm - Rs 42609.00

④/163 Concrⁿ of embankment with
 approved material - do - do
 Vide page configuration (16) 2137.413 m^3
 @ Rs 198.32/m³ - Rs 423892.00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑤/164 Const ⁿ of subgrade and earthen shoulder - do - do -					
Flexible pavement					
Vide page No (12) 4915.12 m ²					
@ Rs 200.12/m ²					Rs 983909 = 00
⑥/165 Const ⁿ of subgrade and earthen shoulder - do - do -					
Rigid pavement / CC portion					
Vide page No (17) 976.50 m ²					
@ Rs 200.10/m ²					Rs 195398 = 00
⑦/166 Const ⁿ of granular sub-base - do - do -					
Vide page No (17) 2244.33 m ²					
@ Rs 3031.39/m ²					Rs 6938099 = 00
⑧/167 P.V. laying, spreading and compacting stone aggregate NBM Gyr-II - do - do -					
Vide page No (18) 168.75 m ²					
@ Rs 3805.52/m ²					Rs 642181 = 00
⑨/171 Const ⁿ of panel concrete plain Cement concrete M-30 - do - do -					
Vide page No (18) 225.0 m ²					
@ Rs 8017.77/m ²					Rs 1803998 = 00

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
⑩/78 P/v and fixing logo of Information MMS project - do - do -				
Vide page No (17) - 2 Nos				
@ Rs 11105.81/No - Rs 22212=00				
⑪/87 E/w in excavation in found ⁿ - do - do -				
Vide page No (17) 150.48 m ²				
@ Rs 294.78/m ² - Rs 44358=00				
⑫/88 P/v sand filling in found ⁿ - do - do -				
Vide page No (17) 11.42 m ³				
@ Rs 629.81/m ³ - Rs 735=00				
⑬/89 P/v PCC M-50 in found ⁿ trench - do - do -				
Vide page No (18) 8.60 m ³				
@ Rs 6080.35/m ³ - Rs 52296=00				
⑭/90 P/v PCC M-15 in levelling course - do - do -				
Vide page No (18) 24.68 m ³				
@ Rs 5872.43/m ³ - Rs 144932=00				
⑮/91 P/v PCC M-20 in sub 2 nd - do - do -				
Vide page No (18) 10.535				
@ Rs 6588.05/m ³ - Rs 704582=00				
⑯/92 P/v and fixing 1000mm Rcc NP3 pipe - do - do -				
Vide page No (18) - 30 m				
@ Rs 3810.62/m - Rs 114319=00				

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
⑩/78 P/v and fixing logo of Information MMS project - do - do -				
Vide page No (17) - 2 Nos				
@ Rs 11105.81/No - Rs 22212=00				
⑪/87 E/w in excavation in found ⁿ - do - do -				
Vide page No (17) 150.48 m ²				
@ Rs 294.78/m ² - Rs 44358=00				
⑫/88 P/v sand filling in found ⁿ - do - do -				
Vide page No (17) 11.42 m ³				
@ Rs 629.81/m ³ - Rs 7185=00				
⑬/89 P/v PCC M-50 in found ⁿ trench - do - do -				
Vide page No (18) 8.60 m ²				
@ Rs 6080.35/m ² - Rs 52296=00				
⑭/90 P/v PCC M-15 in levelling course - do - do -				
Vide page No (18) 24.68 m ²				
@ Rs 5872.43/m ² - Rs 144932=00				
⑮/91 P/v PCC M-20 in sub 2 nd - do - do -				
Vide page No (18) 10.535				
@ Rs 6588.05/m ² - Rs 704582=00				
⑯/92 P/v and fixing 1000mm Rcc NP3 pipe - do - do -				
Vide page No (18) - 30 m				
@ Rs 3810.62/m - Rs 114319=00				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
17 /106 Const ⁿ of embankment with material obtained from borrow pits — do — do — Vide page No (21) 187.20m ³ @ Rs 198.32/m ³ — Rs 37126.00					
18 /193 E/w in excavation for structure as per drawing Vide page No (21) 161.94m ³ @ Rs 294.76/m ³ — Rs 47737.00					
19 /195 P/v concrete for plain /reinf ⁿ Concrete in open — do — do PCC M-15 Vide page No (22) 15.29m ³ @ Rs 5872.43/m ³ — Rs 89789.00					
20 /199 S/F and placing HYSD bar reinforcement in — do — do — Vide page No (22) 0.488 Vide page No (24) 5.735 T — 6.223 MT @ Rs 75000.00/MT — Rs 466725.00					
21 /194 P/s sand filling in foundation trenches as per drawing — do — do — Vide page No (23) 112.569m ³ @ Rs 624.85/m ³ — Rs 70334.00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
②/96 P/v plain/reinforced Cement Concrete in sub structure Complete as per drawing & T.S					
PCC M-20					
Vide page No. ②③					13.20 m ³
Vide page No. ②④					26.60 m ³
Vide page No. ②⑤					31.82 m ³
T					71.72 m ³
② Rs 6660.29/m ³					Rs 477672.00
③/107 P/v plain/reinforced Cement Concrete in sub structure Complete as per drawing & T.S					
RCC M-25					
Vide page No. ②⑤					27.36 m ³
Vide page No. ②⑥					8.88 m ³
Vide page No. ②⑦					10.08 m ³
T					46.32 m ³
② Rs 7703.54/m ³					Rs 356829.00
④/200 P/v weep holes - do - do -					
Vide page No. ②⑧					36 Nos
② Rs 127.95					Rs 4606.00
					Rs 14222034.00
Less 0.01% Rs 1422					= 00
					Rs 14220612.00
Less previous pay Rs 12169993					= 00
					Rs 2050613.00

Continuation

24/10/23
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