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28/11/2019

Electrical Engineer

R. W. D. Links
Shirley

611182

Sch. XLV-Form No. 134

DIVISION

SUB-DIVISON

Measurement Book

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73/8

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3rd on A/c Bill					
Name of work: - Construction of road from PWD Ghorasaha Path to Ghorasahan ward no. 06 & 07 (Saw Tola & Musalman Tola) Under MMGSY (SC) Agency - Hind Construction Bareilly, Dhaka					
Agreement no - 17 SPB/2019-20					
Date of work order - 20/11/2019					
Date of completion as per Agreement - 19/8/2020					
Date of Measurement - 09/06/2020					
① Providing, laying & spreading & compacting WBSM					
Gr III					
$5.0m \times \frac{4.60+3.75}{2} \times 0.075m = 1.56m^3$					
$15.0m \times \frac{3.75+3.50}{2} \times 0.075m = 4.07m^3$					
$19.0m \times \frac{3.50+4.20}{2} \times 0.075m = 5.48m^3$					
$12.0m \times \frac{4.20+4.0}{2} \times 0.075m = 3.69m^3$					
$4.0m \times \frac{4.0+2.75}{2} \times 0.075m = 1.01m^3$					
$15.0m \times \frac{2.75+4.80}{2} \times 0.075m = 4.24m^3$					
$17.0m \times \frac{4.80+3.90}{2} \times 0.075m = 5.54m^3$					
Continuation					
25.03m ³					
25.59m ³					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				Rd	25.59m ³ 25.03m ³
18.0m x	2	3.90m + 3.50		x 0.075m =	4.99m ³
15.0m x	2	3.50m + 3.75		x 0.075m =	4.07m ³
20.0m x	2	3.75 + 3.60		x 0.075m =	5.51m ³
20.0m x	2	3.60 + 3.50		x 0.075m =	5.32m ³
25.0m x	2	3.50 + 3.25		x 0.075m =	6.32m ³
21.0m x	2	3.25 + 3.60		x 0.075m =	5.39m ³
24.0m x		3.60m		x 0.075m =	6.48m ³
11.0m x	2	3.60 + 4.50		x 0.075m =	3.34m ³

19.0m x	2	4.50 + 5.0		x 0.075m =	6.76m ³
26.0m x	2	5.0m + 2.80		x 0.075m =	8.58m ³
24.0m x	2	3.80m + 4.70		x 0.075m =	7.65m ³
30.0m x		4.70m		x 0.075m =	10.57m ³
9.0m x	2	4.70 + 3.90		x 0.075m =	2.90m ³
<u>Branch</u>					
20.0m x	2	3.40 + 4.0		x 0.075m =	5.55m ³
20.0m x	2	4.0m + 3.50		x 0.075m =	5.62m ³
30.0m x	2	3.50 + 3.85		x 0.075m =	8.26m ³
9.50m x		3.85m		x 0.075m =	2.74m ³
15.0m x	3	2.90 + 1.90 + 3.15		x 0.075m =	2.98m ³
11.0m x	2	3.15 + 2.45		x 0.075m =	2.31m ³
14.0m x	3	2.45 + 1.60 + 1.55		x 0.075m =	1.96m ³

Continuation

$$= 132.89m^3$$

16/6/2020

① Construction of Unrurf.

P.C.C Pavement of

M₂₅ grade

5.0m	$\times \frac{4.60 + 3.75}{2}$	$\times 0.160m = 3.34m^3$
15.0m	$\times \frac{3.75 + 3.50}{2}$	$\times 0.160m = 8.70m^3$
19.0m	$\times \frac{3.50 + 4.20}{2}$	$\times 0.160m = 11.70m^3$
12.0m	$\times \frac{4.20 + 4.0}{2}$	$\times 0.160m = 7.87m^3$
4.0m	$\times \frac{4.0 + 2.75}{2}$	$\times 0.160m = 2.16m^3$
15.0m	$\times \frac{2.75 + 4.80}{2}$	$\times 0.160m = 9.06m^3$
17.0m	$\times \frac{4.80 + 3.90}{2}$	$\times 0.160m = 11.83m^3$
18.0m	$\times \frac{3.90 + 3.50}{2}$	$\times 0.160m = 10.65m^3$

Continuation

65.31m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					Bf 65.31m ³
15.0m x	$\frac{3.50+3.75}{2}$				$\times 0.160m = 8.70m^3$
	$\frac{3.75+3.60}{2}$				
20.0m x	$\frac{3.60+3.50}{2}$				$\times 0.160m = 11.36m^3$
20.0m x	$\frac{3.50+3.25}{2}$				$\times 0.160m = 13.50m^3$
	$\frac{3.25+3.60}{2}$				
21.0m x	$\frac{3.60+4.50}{2}$				$\times 0.160m = 13.82m^3$
24.0m x	$\frac{4.50+5.00}{2}$				$\times 0.160m = 14.14m^3$
26.0m x	$\frac{5.00+3.80}{2}$				$\times 0.160m = 18.30m^3$
	$\frac{3.80+4.70}{2}$				
24.0m x	$\frac{4.70+3.90}{2}$				$\times 0.160m = 6.19m^3$
20.0m x	$\frac{3.90+4.00}{2}$				$\times 0.160m = 11.84m^3$
	$\frac{4.00+3.50}{2}$				
20.0m x	$\frac{3.50+3.85}{2}$				$\times 0.160m = 12.0m^3$
30.0m x	$\frac{3.85+2.90}{2}$				$\times 0.160m = 17.16m^3$
	$\frac{2.90+1.90}{2}$				
9.50m x	$\frac{1.90+3.15}{2}$				$\times 0.160m = 5.85m^3$
15.0m x	$\frac{3.15+2.45}{2}$				$\times 0.160m = 6.36m^3$
11.0m x	$\frac{2.45+2.15}{2}$				$\times 0.160m = 4.92m^3$
Continuation					
					280.71m ³

20/06/2020

① Providing & applying
2 coat of water based
Cement paint

$2 \times 5 \times 30.0m \times 0.100m =$	$30.0m^2$
$2 \times 5 \times 30.0m \times 0.100m =$	$30.0m^2$
$2 \times 5 \times 30.0m \times 0.100m =$	$30.0m^2$
$2 \times 18.50m \times 0.100m =$	$3.70m^2$
$2 \times 1.50m \times 0.100m =$	$0.20m^2$
	$94.00m^2$

② Road Marking

Area Same $= 94.00m^2$

Scanned by CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(3) Providing & fixing of Maintenance Board					2 Nos
(4) Providing & fixing of R.C.C m/s grade					
km Stone				—	1 No.
200m Stone				—	2 Nos.
Boundary Pillar				—	9 Nos
(5) Providing & fixing of Red reflectorised Cautionary Board					
600mm Δ				—	2 Nos
600mm x 450mm $\square$				—	2 Nos
900mm octagon				—	2 Nos
(6) Laying Brick strip layer on prepared subgrade					
$2 \times 5 \times 30.0m \times 0.375m$					$= 112.50m^2$
$2 \times 4 \times 30.0m \times 0.375m$					$= 90.0m^2$
$1 \times 29.0m \times 0.375m$					$= 10.87m^2$
					$= 213.37m^2$
20/6/2020 J.E					
20/06/2020 NE					

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
District rd. Const.				
(1) Constn of Red. (100)				
Burgies				
0.4701 m wide Tms P13				
① 11922=44				5604=00
(2)				
3 Clearing & Grubbing				
of road land including				
uprooting veg.				
0.144 m wide Tms P13				
① 49174=86				6884=00

(3)				
Box cutting				
35.25m ² wide Tms P13				
① 76=18				2685=00
(4)				
Laying Brick soling				
8 Layer on prepared				
Subgrade				
213.37m ² wide Tms P21				
① 497=94				1,06,246=00
(5)				
Construction of granular				
Sub-base by spreading				
grading material				
46.53m ² wide Tms P13				
① 3092=14				1,43,877=00
Continuation				2,65,296=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6) 10 Providing laying spreading & Compacting worn Sur III			BF		2,65,296=00
126.55 m ³ vide m/s P14					
6.34 m ³ vide m/s P18					
132.89 m ³ @ 385/1=34					5,11,805=00
(7) 14 Construction of Un-reinf. P.C.C Pavement of M25 grade					
268.97 m ³ vide m/s P14					
284.82 m ³ @ 8124=03					23,13,886=00
(8) 16 Providing & laying of R.C.C M15 grade Kurr Stone					
1 No. vide m/s P21					
@ 2781=58					2782=00
9 17 200 mm Stone					
2 Nos vide m/s P21					
@ 728=54					1457=00
(10) 18 Boundary Pillar					
9 Nos vide m/s P21					
@ 562=01					5058=00
					31,00,284=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Providing & applying 2 coat off water based paint			Bsf		31,00,284=00
94.0m ² vide TMS P20					
① 102=88					9671=00
(12) Road Marking					
94.0m ² vide TMS P20					
① 850=92					79,986=00
(13) Providing & fixing of information Board					
2 Nos vide TMS P14					
① 11593=59					23,187=00
(14) Providing & fixing of Maintenance Board					
2 Nos vide TMS P21					
① 11593=59					23,187=00
(15) Providing & fixing of Redo reflective cautionary Board					
600mm Δ					
2 Nos vide TMS P21					
① 4000=55					8001=00
					32,44,316=00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Bsf	32,44,316=00	
(16)					
27	600mm	450mm			
2 Nos	vide	Trms P21			
	4583=75				9168=00
(17)					
28	900mm	octagon			
2 Nos	vide	Trms P21			
	8732=44				17,465=00
					32,70,949=00
5.5% below as per					
Agreement					1,79,902=00

Rs 30,91,047=00

Less Paid upto 2nd A/c

Bill vide Trms P15 4,26,07,702=00

Rs 4,83,345=00

20/6/2020
JE

20/6/2020
JE

Material statement

- ① Local sand - 8.53m³
- ② Coarse sand - 7.13m³
- ③ stone dust - 1.52m³
- ④ stone metal - 7.67m³
- ⑤ stone chips - 14.26m³

⑥ Bricks Continuation 11309mm