

Musy (Awan) Land
Name of road:— Musy road off culvert to Mohammadpur
Ravidas Talq.

Schedule XLV-Form No. 134

10/SBD/23-24

M.S Ambay Construction

DIVISION

River side, Chakri

SUB-DIVISION

Measurement Book

1345

Ist on 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:-	m m 434 road to cut				
Cultivation to M. Shaukat Mohammad p48					
Roads to Sq. L. m 434, Awashash, NDB)					
L = 0.800 km					
Agg No:- 10-SB 01/23-24					
Name of Contractor - M/s Ambay construction					
Package No - NDB-BRRP 2-25-Masayshi					
Date of start - 15/12/2023					
Intended date of completion - 14/12/2023					
Rate of agreement - 0.11 f. rate					
Agreement value - On 1st E 81,786/-					

		Mounds	6.362
		Total Agreed value = E 88,14,743/-	

Record of measurement

i) Setting out work - do -	
all comp.	
or	0.800 km.
2) clearing grass & removing of rubbish	
2 x 800m x 3.00	= 4800m ²
	i.e. 0.48 hect.
3) Dismantling of existing structure	
(a) cement cone	

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D	
	1	3.50	3.38	0.15	1.77 m ³
					ie 1.77 m ³

(b) Bank masonry				
	2 x 8.00 x 0.825 x 3.00 =			39.60 m ³
	ie 39.60 m ³			

(c) H.P.C. AAC brick ground

10.00 m

(d) Box cutout (2x2 M)

↓ Excavation for structure.

Box	1	6.00	3.50	0.60	12.60 m ³
Cut-off wall	2	3.50	1.30	1.75	15.93 m ³
R/Wall	4	3.32	3.42	1.80	81.68
					710.21 m ³

ie 110.21 m³

(e) P.v P. ce M-15 (1+2+1.5)

in found

Box cutout	1	6.00	2.50	0.100	1.50 m ³
R/Wall	4	3.32	2.42	0.200	6.42 m ³
					7.92 m ³

ie 7.92 m³

(f) S/F P. H/SO brick etc -

structure. Found

cut off wall

12 dia longitudinal

$$2 \times 2.4 \times 2.50 \times 0.888 = 106.56 \text{ kg}$$

8 dia ring

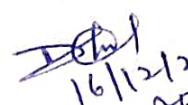
$$2 \times 2.0 \times 3.50 \times 0.395 = 55.30 \text{ m}^3$$

Continuation

ie 0.16 M.T

161.86 kg


 16/12/23
A.E.S.K


 16/12/23
A.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(7) Plr p.c.e/ ^{1/2} ca m-20 in open founda					
Rusell -	4	2.92	2.017	0.20	4.71 m ³
	4	2.92	1.917	0.20	4.48 "
	4	2.92	1.817	0.20	4.24 "
Da	4	2.92	1.717	0.20	4.01 "
	4	2.92	1.617	0.20	3.78 "
	4	2.92	1.517	0.20	3.54 "
	4	2.92	1.417	0.20	3.31 "
	4	2.92	1.317	0.20	3.08 "
Cuboid	2	2.50	0.300	1.50	2.25 "
					33.40 m ³
					ie- 33.40 m ³

(8) S/APP H/S/D bearing reinforcement

in Sub-structure.

Bottom slab -	100 bottom & top main		
	@ 140fc		
	2 x 44 x 2.50 x 0.617 =	135.74 m ⁴	
100 binder @ 200fc	2 x 14 x 5.00 x 0.617 =	103.66 m ⁴	
Chair 12-4	20 x 1.20 x 0.888 =	21.31 m ⁴	
Wall outer @ 140fc			
	2 x 44 x 4.00 x 0.617 =	217.18 m ⁴	
Inner 104 @ 140fc			
	2 x 44 x 3.00 x 0.617 =	162.89 m ⁴	
Haunch 84 @ 140fc			
	2 x 44 x 1.20 x 0.345 =	41.71 m ⁴	
bottom L 12-4 @ 140fc			
	2 x 44 x 1.50 x 0.888 =	117.22 m ⁴	

Continuation

799.71 kg

18/12/23
AE
18/12/23
AE

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Particulars	Details of actual measurement				Contents of area <u>B/H</u>
	No.	L.	B.	D.	
Top dia & 200 dia					7.997 kg
4 x 1.5 x 6.00 x 0.617	=	222.12			
Top corner bar (2 Nos all 100)					
2 x 44 x 1.50 x 0.617	=	81.44 "			
Top haunch B & C 140 dia -					
2 x 44 x 1.20 x 0.395	=	47.11 "			
					1144.98 kg
					i.e. 1.144 m ³
					BD BD BD 181.22
					181.22 AE
(g) E/W in excavation for road work					
charge	Cut Area	Dist	Volum		
0 to 25	0 + 0.16	25	200 2.00		
250 - 250	$\frac{0.02 + 0.12}{2}$	25	1.75		
250 - 275	$\frac{0.12 + 0}{2}$	25	1.50		
350 - 375	$\frac{0.08 + 0.05}{2}$	25	1.62		
400 - 425	$\frac{0.06 + 0.06}{2}$	25	1.50		
600 to 625	$\frac{0 + 0.70}{2}$	25	11.25		
625 - 650	$\frac{0.30 + 1.00}{2}$	25	23.75		
650 - 675	$\frac{1.00 + 0.40}{2}$	25	17.50		
675 - 700	$\frac{0.40 + 0.36}{2}$	25	9.50		
700 - 725	$\frac{0.36 + 0.70}{2}$	25	13.25		
725 - 750	$\frac{0.70 + 0.70}{2}$	25	17.50		
750 - 775	$\frac{0.70 + 0.80}{2}$	25	18.75		
775 - 800	$\frac{0.80 + 0.70}{2}$	25	18.75		

Continuation

138.62

93

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1d) Removal of unbanked area with depth upto					
		100m			
2-d.f. of item (9)					
i.e. 2-d.f. of 138.62					
		2	27.72 m ³		
(11) Centre of embankment with material obtained from road way cutting					
O.d.g. = Item 9 - item 10					
= 138.62 - 27.72					
		2	110.90 m ³		
(12) S.F.P. 1x3D bar reinforcement in Super structure					
Top slab - Bottom 12@ 125 mm					
— 49 x 2.70 x 0.888 = 117.48 m ³					
bottom 10@ 140 mm					
— 44 x 2.70 x 0.617 = 73.30 m ³					
10@ binder @ 500 mm					
2 x 14 x 6.00 x 0.617 = 103.66 m ³					
Chair 12@					
— 20 x 2.00 x 0.898 = 35.52 m ³					
Parapet -					
100 mm x 2 x 14 x 1.75 x 0.617 = 30.23 m ³					
8@ binder @ 6 x 2.00 x 0.395 = 11.38 m ³					
Total					371.57 m ³
					0.370 MFT

Continuation

21/12/23
AE/52DBP
21/12/23
AE

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

(13) Plv Rec M-25 in Sub-structure.

Bottom slab	1	6.00	2.50	0.25	3.75 m^3
Side wall	2	6.00	2.50	0.25	7.53 m^3
Roof	4	$6.00 \times \frac{1}{2}$	0.15×0.15	0.27 m^3	
					11.55 m^3
					ie 11.55 m^3

(14) Plv weep hole at all comp.

$3 \text{ EN} \rightarrow$

(15) Plv A.C.C M-25 in Super-structure -

Top slab - 1 2.50 6.00 0.25 = 3.75 m^3

Kerb 2 2.50 0.25 0.58 = 0.63 m^3

4.38 m^3

ie 4.38 m^3

(16) Plv per m-20 in Substructure

R/Wall - $4 \times 2.32 \times (1.62 + 0.40) \times 1.78 = 16.24 \text{ m}^3$

ie 16.24 m^3

(17) Plv filter mesh at all comp.

Behind boxcar 2 4.61 0.60 1.75 = 3.68 m^3

Behind R/Wall 4 2.82 0.60 1.87 = 10.41 m^3

20.09 m^3

ie 20.09 m^3

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(18) Back filling behind abut R/Wall					
	2	2.92	5.20	0.20	6.07 m ³
	2	2.92	4.61	1.783	48.483
Length for Sides & top embankm					20.09
					33.98
					m ³
					Re- 33.98 m ³ .

(19) P/lr drainage invert

-04 m.s-

(20) constant embankment -to-

all comp.

chainage	Area _q	Mean Area	Dist	Volume
(m)	(m ²)	(m ²)	(m)	(m ³)
0	3.642	—	—	—
50	1.950	2.796	50	139.80
100	1.105	1.528	50	76.375
150	1.115	1.110	50	55.500
200	1.097	1.106	50	55.300
250	1.130	1.114	50	55.675
300	1.053	1.052	50	54.575
350	1.151	1.102	50	55.100
400	1.429	1.290	50	64.500
450	1.555	1.492	50	74.600
500	2.993	2.274	50	113.700
550	2.641	2.817	50	140.850

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
600	3.084	2.863	50	-	143.125
650	2.932	3.008	50	-	150.400
700	2.930	2.931	50	-	146.550
750	3.057	2.994	50	-	149.675
					1475.725

1) 100 m road

$$2 \text{ sqf. of } 1475.725 = 1180.58 \text{ m}^3$$

1) 1000 m road

$$20 \text{ sqf. of } 1475.725 = 295.145 \text{ m}^3$$

~~20 sqf~~

~~295.145~~

A/E

~~100~~

~~295.145~~

A/E

② Compt of subgrade

earthen shoulder

Flexible pavement portion

$$\text{Subgrade} - 10.30 \text{ m} \times (7.10 + 8.30)/2$$

$$\times 0.30 = 693 = 0$$

$$8 \times 30 \text{ m} \times 7.70 \times 0.30 = 554.40$$

$$1247.40 \text{ m}^3$$

i.e. 1247.40 m^3

~~20~~

~~1247.40~~

A/E

~~100~~

~~1247.40~~

A/E

③ Compt of C.S.B.G. - I

$$\text{Flexible} \quad 4.30 \text{ m} \times 4.05 \times 0.200 \times 97.20 \text{ m}^3 \\ \text{portion}$$

$$4.30 \text{ m} \times 4.05 \times 0.200 \times 97.20 \text{ m}^3$$

$$4.30 \text{ m} \times 4.05 \times 0.200 \times 97.20 \text{ m}^3$$

$$291.60 \text{ m}^3$$

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Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
					291.60m ³
Perimeter (widening)	2	6x30 = 180	0.875	x 0.100	31.50
	2	1x20 = 20	0.875	x 0.100	3.50
Profit & carry away	4	5.00	1.20	0.100	2.40
	6	1.50	0.60	0.200	2.88
	2	8.00	0.90	0.15	2.16
	1	20.00	2.00	0.100	4.00
	1	16.00	1.50	0.100	2.40
	2	4.00	1.80	0.15	2.16
					51.00m ³
Total (A) + (B) -					342.60 m ³

~~(22)~~~~SDP 1/2024~~~~AESIC~~~~SDP~~~~1/2024~~~~PK~~

(23)

Planting, spreading &

Compacting at 63% 45-3

Proportion	6	30.00	3.75	0.075	50.63m ³
	1	20.00	3.75	0.075	5.62m ³
Curve -	2	15.00	0.60 (av)	0.075	1.35m ³
					57.60m ³

i.e. 57.60m²~~(24)~~~~SDP 1/2024~~~~PK~~

(24) Content of free compartment

M-30	30.00	150		
	6	30.00	3.75	0.160
	1	20.00	3.75	0.160
				120.00m ³

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ABSTRACT OF COST

① Setting out work with
Conical & Branch Mark

② clover grass removal
of rubbish

Otg vide TMB P/1 item ②

0.48 hect. @ 19930.80/Ha 9567 =

(3) Dimension of cement con.
obj n 2.7m ³ P/ 2.7m ³ ① ④
1.77 m ³ ③ 678.16 m ³ ③ 1200 m ³ ⑤ 249762

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Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
				b	24976/-
④ Dismantling Brich masonry					
Qty wide TMB p/2 item (3) (6)					
39.60 m ³ CB 773.10/m ³ = 30615/-					
⑤ Removal of all types of					
- UP. (600+50mm dia)					
Qty wide TMB p/2 item (3) (c)					
110.00 m ³ CB 349.80/m ³ 3498/-					
⑥ Excavation in soil using					
Hydraulic excavator					
Qty wide TMB p/4 item (3)					
Limited 13840m ³					
138.62 m ³ CB 103.96/m ³ 14388/-					
⑦ Removal of unremovable					
Soil					
Qty wide TMB p/3 item (3) (d)					
27.72 m ³					
1000m ³ CB 103.96/m ³ 2878/-					
Limited 27.68 m ³					
⑧ Construction of embankment					
with material obtained from					
Roadway cutting					
Qty wide TMB p/5 item (11)					
= 110.90					
Cum. Total to 110.72 m ³					
CB 83.711/m ³ 9268/-					
					13 85614/-

Continuation

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Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
					85614=
(9) Contract embankment -dr upto 100 m (each)					
standard TMB P/B Item (22) (1)					
1180.58 m ³ @ 15 217.071 m ³ \Rightarrow 256269=					
(10) Contract embankment -dr upto 100 m (each)					
standard TMB P/B Item (22) (1)					
295.145 m ³ @ 15 267.791 m ³ \Rightarrow 79037=					
(11) Contract subgrade / Boulders					
standard TMB P/B Item (21)					
124740 m ³ @ 15 1247.40 m ³					
4 m \times 10.2 m \times 1.5 = 190.80					
1438.20 m ³					
215 438.03 m ³ \Rightarrow 629375=					
(12) Contract B.G-I					
standard TMB P/B Item (22)					
342.60 m ³ @ 15 2813.02 m ³ \Rightarrow 963741=					
(13) Plv, laying & spreading D					
Comparing datum Gm-B					
standard TMB P/B Item (23)					
57.60 m ³ @ 15 4082.63 m ³ \Rightarrow 235159=					

Continuation

2243795=

13
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Particulars	Details of actual measurement				Contents of area B/F
	No.	L.	B.	D.	
					22437952
(14) Count of un-reinforced					
17. Pavement m-3 o.					
obj width MB 8/2 item (24)					
120.00 m ³ Q 8 7472.87 m ³ 896744=					
(15) Elw in excavation for					
30 foundn of structure					
obj width MB 8/2 item (4)					
110.21 m ³ Q 8 398.62 m ³ 43932=					
(16) PIV pccm - 15 in sub-struc.					
30 obj width MB 8/2 item (5)					
7.32 m ³ Q 8 6395.76 / m ³ 50654=					
(17) PIV pccm m-20 in					
34 open foundn					
obj width MB 8/3 item (7)					
33.40 m ³ Q 8 7236.01 m ³ 241683=					
(18) PIV Rec m-25 in super					
35 structure					
obj width MB 8/3 item (15)					
4.38 m ³ Q 8 9138.83 m ³ 40028=					
(20) SLEIP HYD bar reinforcement					
in foundn					
obj width MB 8/2 item (6)					
0.16 MT Q 8 80034.16 MT 128052=					

✓ 353564 =

Continuation

Particulars	Details of actual measurement				Contents of area sq ft
	No.	L.	B.	D.	
					135356412

(20) SIFP HYSD bar reinforcement
in substructure.

Qty videtMB P/4 item (8)

1.140 mT @ M 80257.72/M \Rightarrow 91434=

(21) SIFP HYSD bar reinforcement

in superstructure.

Qty videtMB P/5 item (12)

0.380 mT @ M 81815.45/M \Rightarrow 31090=

(22) PIPER m-20 in Substructure

Qty videtMB P/6 item (16)

16.24 m³ @ M 7879.90/m³ \Rightarrow 127370=

(23) PLV weep hole

40 Qty videtMB P/6 item (14)

36 Nos @ M 153.13/each \Rightarrow 5513=

(24) PLV R-20 m-25 in sub-

structure.

Qty videtMB P/6 item (13)

11.55 m³ @ M 8600.76/m³ \Rightarrow 95339=

(25) Back filling behind
abutment parapet

Qty videtMB P/7 item (18)

33.98 m³ @ M 996.15/m³ \Rightarrow 33849=

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Particulars	Details of actual measurement				Contents of area _{sq ft}
	No.	L.	B.	D.	
					3924836~
(26) P.M & laying filter					
43 mading					
obj value TMB P/B Item (17)					
20.09 m ³ @ H 3278.98 m	3				65875~
(27) P.M drainage spout					
46					
obj value TMB P/B Item (18)					
04 Nos @ M 1525.63 each					6102~
					39968732
Labour cars 1./-					399692
bust 184.					719437~
					4756279~
					(A)
Seamridge tax					
1433.20 x 68.10 + 0.10 = 9794~					
Item (1) 1430.55~					
Item (2) 342.60 x 870.25 + 0.10 = 29815~					
Item (3) 57.60 x 1434.24 + 0.102 = 8261~					
item (4) 12000 x 1671.32 + 0.102 = 12856~					
item (5) 7.92 x 1216.67 + 0.102 = 964~					
Item (7) 33.40 x 1126.46 + 0.102 = 3762~					
Item (8) 16.24 x 1126.46 + 0.102 = 1829~					
Item (18) 4.38 x 1126.46 + 0.102 = 493~					
Item (24) 11.55 x 1126.46 + 0.102 = 1301~					
					69075~
A+D = 4756279~					
					(B)
					48253542

Continuation

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