

Name of road - SPM road to Ranjgarh.
(Munay, Awadhgarh, NDB)

Schedule XLV Form No. 134.

10/9BD/23-24

MIS Ambay Construction

DIVISION

10/9BD/23-24 SUB-DIVISION

Measurement Book

1318

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Name of work:- SPM road to Rangoli					
Land or MMGSY (new chart, NDA)					
A.G.S-No:- 10-SAD/23-24					
Package No:- NCB-BRRP2-Mysore					
Agency:- M/s Ambeg Construction					
Date of start:- 15/12/2023					
Stipulated date of completion:- 14/12/2024					
Aug-value (Ans) :- ₹ 76,86,945/-					
W.M.D. = ₹ 6,95,060/-					
₹ 83,82,000/-					
Rate of Agrement:- 0.11, bldg					

Record Measurement					
1 - 0 to 278 m					
① Const of 4-23 A.M.T					
B + portion					
$1 \times 3.60 \times [(16.80 + 8.50) - 4.05] \times 0.20 = 6.19 \text{ m}$					
$\frac{1}{2}$					
$1 \times 23.40 \times [(8.50 + 4.05) - 4.05] \times 0.20 = 10.4 \text{ m}$					
$\frac{1}{2}$					
$3 \times 20.00 \times [4.05 + 4.35 + 4.05] - 4.05 \times 0.20 = 1.20 \text{ m}$					
$\frac{3}{3}$					
Ch - 336.70 to 649.50 m					
$1 \times 11.20 \times [(5.70 + 6.20) - 4.05] \times 0.20 = 4.26 \text{ m}$					
$\frac{2}{2}$					
$1 \times 8.00 \times [(11.50 + 4.05) - 4.05] \times 0.20 = 5.96 \text{ m}$					
Loss for already measured					
$1 \times 9.20 \times 4.05 \times 0.20 = (-) 7.45 \text{ m}$					
20.57 m					
(1)					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Pcc Posing</u>					
<u>L 27.8 to 336.70m</u>					
	1	3.00	3.75	0.100	11.25 m ³
	1	2.87	3.75	0.100	10.76 "
<u>L - 64.50m to 157.78m</u>					4.82
<u>1 x 10.00 x (5.90 + 3.25) / 2 x 0.100</u>					3.62
<u>1 x 1.850 x 3.75 x 0.100 =</u>					6.94 "
<u>@ 8.50</u>					3.19 "
<u>1 x 19.50 x (3.40 + 3.55) x 0.100</u>					6.78 "
<u>1 x 11.50 x (4.00 + 4.60) x 0.100</u>					4.95 "
					40.68 m ³
					41.75 (B)
<u>Total A + B = 20.57 + 40.68</u>					61.35 m ³
					62.32 m ³

(2) Excavation for found 2
of structure.

360 dia cylinder

12 x 3.66 x

3 6.00 0.60 1.00 10.80 m³

i.e. 10.80 m³

(3) Laying 1st class (Type 'A')
bedding

12 2.50 0.60 0.25 4.50 m

i.e. 4.50 m³

(3A) Length of eastern shoulder

2 x 9 x 3.00 x 1.300 x 0.200 = 140.40 m³

2 x 10 x 3.00 x 1.300 x 0.200 = 156.00 m³

296.40 m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) River & laying R.C.C. NP ₃					
H.P. 300 mm dia					
	12 x 2.50				
	= 30.00 m				
(5) River laying spreading					
R Compacting - below BM					
UV - 3					
h = 0 to 2.78 m (Below BM)					
1 x 3.60 x (16.50 + 8.20) / 2 x 0.075 = 3.33 m ³					
1 x 2.3.40 x (8.20 + 3.75) / 2 x 0.075 = 10.49 m ³					
1 x 11.40 x 3.75 x 0.075 = 3.21 m ³					
	x 3.00 m = 9.00 m ³				
	50.63				
	3 x 20.00 x (3.75 + 4.10 + 3.75)				
	3 x 0.075 = 17.40				
Ch - 2.78 to 3.36.70 m (below P.W)					
1 30.00 3.75 x 0.075 8.44 m ³					
1 28.70 3.75 x 0.075 8.07 m ³					
Ch - 3.36.70 m to 6.49.50 m (B.e.p.w)					
8 30.00 3.75 x 0.075 67.50 m ³					
1 / 28.30 3.75 x 0.075 7.96 m ³					
1 x 11.20 x (5.40 + 5.90) 4.75 m ³					
2 x 6.075 = 4.49 m ³					
1 x 8.00 x (11.20 + 3.75) x 0.075 = 4.49 m ³					
1 x 25.50 x 3.75 x 0.075 = 7.17 m ³					
Ch - 6.49.50 m to 7.89 m (below P.W)					
3 30.00 3.75 x 0.075 = 25.31 m ³					
	218.75 m ³				

Particulars	Details of actual measurement				Contents of area B/F m^3
	No.	L.	B.	D.	
					218.75
	1	18.50	3.75	0.075	5.20
	1	19.50	$(3.40 + 3.55) \times 0.075$		5.08
				2	
	1	11.50	$(4.60 + 4.00) \times 0.075$		3.71
					232.74
			i.e. 232.74 m^3		

(6) Contents of un reinforced

Free pavement m-30

Ch - 27.8 to 336.70 m

	1	30.00	3.75	0.16	18.000 m^3
	1	28.70	3.75	0.16	17.22
	Ch - 649.50 to 789 m				
	1	10.00	$(5.90 + 3.75) \times 0.16$		7.72
			2		
	1	8.50	3.75×0.16		5.10
	3	30.00	3.75×0.16		54.00
	1	19.50	$(3.40 + 3.55) \times 0.16$		10.84
			2		
	1	11.50	$(4.60 + 4.00) \times 0.16$		7.91
			2		
			i.e. 120.79 m^3		

(7) Contents PCC paving m-15cf section area $(0.30 + 0.60 + 0.30) \times 0.15$

$$\approx 15.00 m = 2.70 m^3$$

cf section area $(0.45 + 0.75 + 0.45) \times 0.15$

$$\approx 24.00 m = 5.94 m^3$$

$$8.64 m^3$$

By
28/02/2024
AE(JE)

By 28/02/2024
Continuation AC

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF COST</u>					
① Setting out work complete with construction of bench mark.					
Qty under TMB P/4 item ①					
0.800 km (C) 17.685/m ² (u.m.s) 14148=					
② Clearing grass & removal of rubbish					
Qty under TMB P/4 item ②					
0.48 hect. (C) 19930.80 / 4 = 4983=					
③ Excavation in soil using handbara excavator					
Qty under TMB P/4 item ③					
27.18 m ³ (C) 103.96/m ³ = 2826=					
④ Removal of unsuitable soil					
Qty under TMB P/5 item ④					
5.44 m ³ (C) 103.96/m ³ = 566=					
⑤ Construction of embankment with material obtained from roadway cutting.					
Qty under TMB P/5 item ⑤					
21.74 m ³ (C) 88.71/m ³ = 1820=					
⑥ Construction of embankment up to 100m level					
Qty under TMB P/5 item ⑥					
1443.32 m ³ (C) 217.07/m ³ = 31330=					
					D 342928=

Particulars	Details of actual measurement				Contents of area B1F
	No.	L.	B.	D.	
(7) Content of embankment upto 100cm head by rule TMB P/5 item (7)					b 342228=
360.83 m ³ Q/H 26.79/m \Rightarrow 96627>c					
(8) Content of subgrade/shoulder by rule TMB P/5 item (8)					
1605.60 m ³ Q/H 438.03/m \Rightarrow 833133>c					
(9) Content of base-I by rule TMB P/5 item (9) = 519.75 m ³					
\therefore 1 : 1 P/10 item (1) = 62.32 "					
Limited to 581.60 m ³ \Rightarrow 582.07 m ³					
Q/H 2823.72/m ³ \Rightarrow 1642276>					
(10) Plinthing, spreading & compacting to cubm 4 m ⁻³					
by rule TMB P/12 item (5)					
232.74 m ³ Q/H 4098.04/m ³ \Rightarrow 953778=					
(11) Content of un-reinforced P.C.C 14 Pavement m-30					
by rule TMB P/12 item (2)					
120.75 m ³ Q/H 7427.03/m ³ \Rightarrow 897111>					
					b 4765153>c

Particulars	Details of actual measurement				Contents of area <u>315</u>
	No.	L.	B.	D.	
					₹ 47,65,153/-

(12) ~~Contents of P.C.C.M + 15~~
 15 drain.

Qty value in BP/ 2 tile m (7)

8.64 m (2) ₹ 6346.87/- \Rightarrow ₹ 54837/-
~~8.64 m (2) ₹ 6346.87/- \Rightarrow ₹ 54837/-~~
 ₹ 48,19,390/-

Labour cost 1/- \Rightarrow ₹ 48980/-

G.S.T 18/- \Rightarrow ₹ 867598/-

₹ 5735788/- (A)

Storage fee (updated)

Item (6) 1443.32 x 35.25 x 0.10 = 5088/-

Item (7) 360.83 x 35.25 x 0.10 = 1222/-

Item (8) 1.802.00 x 68.10 x 0.10 = 12553/-

Item (9) 58.60 x 870.25 x 0.10 = 50614/-

Item (10) 232.74 x 1434.24 x 0.10 = 33381/-

Item (11) 120.79 x 1071.32 x 0.10 = 12940/-

Item (12) 864 x 1216.67 x 0.10 = 10514/-

117299/-

(B)

A + B = ₹ 5853087/-

Less 8.11/- for below = (C) ₹ 6438/-
 ₹ 5846649/-

Less already paid with / 6 = (D) ₹ 3164683/-
 ₹ 2681966/-

<u>(D)</u>	<u>(E)</u>
28/02/2021	28/02/2021
AB/SC	PC
CPL	PC
•	•
•	•