

Lilapurna Pmgsy Road to Barks Dihazama

Schedule XLV-Form No. 134

अधिनियम

DIVISION

ममस्य (नोड)

अधिनियम

SUB-DIVISION

RBA construction

MEASUREMENT BOOK

1619

Name to 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.	
		10 A/c Bill			
MW—	Lilabur Pongay Road to				
	Barika Diharna.				
Agency—	RAA Construction.				
AD—					
Agreement No—	SRD-8/2023-24				
Date of Start	19.7.23				
Date of completion	18.7.24				
Accepted Rate—	100% Below				

Length— 1.370 Km. 1.080 Km - BT
0.260 Km cc.

Date of entry— 30/12/23 and so on.

Details of measurement—

(1) Providing and fixing of workshop bench mark / reference pillars.

Bench mark 1 No / Km — 2 Nos

Reference Pillar 4 Nos / Km — 5 Nos.

(2) clearing and grubbing the soil (and by manual means)

$$44 \times 30.0 \times 3.50 \text{ m} \times 2 = 9240 \text{ m}^2$$

Continuation

Sch. XLV—Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		20.0	3.50	2	= 140.0 m ²
					7380 m ²
					= 0.74 Hq.
(3) Excavation for roadway					
in soil using manual means					
for carrying of cut earth.					
		2	30.0	0.375	0.100
					= 4.50 m ³
(4) Constn of Subgrade					
and earthen shoulder					
with added materials					
with lead up to 1000m					
	10	30.0	6.00 + 6.80	0.300m	
					= 576.0 m ³
	10	30.0	6.00 + 6.80	0.300m	
					= 576.0 m ³
	10	30.0	5.80 + 7.00	0.300	= 576.0 :
	6	30.0	5.80 + 7.00	0.300	= 345.60
	6	30.0	5.80 + 6.80	0.300	= 340.20
	10.0	5.80 + 6.80	0.300		= 18.90
					2 = 32.70 m ³
dmd					
30/12/22					
50					
(5) Constn of granular sub					
base by providing well					
graded materials (granular materials)					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(S) Culverts (600 mm dia)					
(i) Lining excavation for Junction.					
H.W. $2 \times 3.90 \times 1.150 \times 1.500 \times 3 = 40.365 \text{ m}^3$					
$1 \times 5.350 \times 1.130 \times 0.365 \times 3 = 6.620 "$					
					<u>46.985 m³</u>
(ii) Paving P.C.C. m. 15 as leveling course in Junction.					
$2 \times 3.90 \times 1.150 \times 0.50 \times 3 = 4.037 \text{ m}^3$					
$1 \times 5.311 \times 1.130 \times 0.250 \times 3 = 4.50 "$					
					<u>8.537 m³</u>
(iii) Paving P.C.C. m. 20 in Sub structure					
H.W. $2 \times 3.600 \times \frac{1.00 + 0.400}{2} \times 2.780 \text{ m} \times 3 = 42.034 \text{ m}^3$					
Less for H.P.					
$2 \times \frac{3.14}{4} \times (0.830)^2 \times 0.530 \times 3 = 6.1719 \text{ m}^3$					
					<u>40.315 m³</u>
Net qty —					
(iv) Paving and leveling P.C.C. like N.P. for culverts.					
$3 \times 2.50 \text{ m} = 7.50 \times 3 \text{ Nos}$					
					<u>= 22.50 m.</u>

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>a. concrete granular sub base by providing well graded materials.</u>					
<u>B.T. Portion</u>					
					$10 \times 30.0 \times 4.05 \times 0.200 \text{ m} = 243.0 \text{ m}^3$
					$10 \times 30.0 \times 4.05 \times 0.200 \text{ m} = 243.0 "$
					$10 \times 30.0 \times 4.05 \times 0.200 \text{ m} = 243.0 "$
<u>107.0 m</u>					$5 \times 30.0 \times 4.05 \times 0.200 \text{ m} = 121.50$
					$1 \times 20.0 \times 4.05 \times 0.200 = 16.20 "$
					<u>866.70 m^3</u>
<u>c.c. Portion</u>					
<u>20 pax 10 correction.</u>					
					$2 \times 30 \times 2.0 \times 0.100 \text{ m} = 1.20 \text{ m}^3$
					$2 \times 30 \times 1.50 \times 0.100 \text{ m} = 0.90 "$
					<u>2.10 m^3</u>
<u>Box</u>					
					$(2 \times 30.0) \times 0.375 \times 0.100 \times 2$
					<u>$= 4.50 \text{ m}^3$</u>
<u>overlay. earthen Portion</u>					
					$(6 \times 30.0) \times 3.75 \text{ m} \times 0.100 = 67.50 \text{ m}^3$
					$1 \times 20.0 \times 3.75 \times 0.100 = 7.50 "$
					<u>75.00 m^3</u>
<u>Extra of curvel.</u>					
					$2 \times 10.0 \times \left[\frac{4.50 + 3.75}{2} - 3.75 \right] \times 0.100$
					<u>$= 0.750 \text{ m}^3$</u>
					$1 \times 10.0 \times \left[\frac{3.75 + 5.20}{2} - 3.75 \right] \times 0.100 = 0.700 "$

7. Providing, laying & spreading
and compacting the aggregates
of W.B.M. on T.I. Kerbside

B.T. Portion

$(10 \times 30.0) \times 3.75 \times 0.075 \text{ m} = 84.375 \text{ m}^3$

$(10 \times 30.0) \times 3.75 \times 0.075 \text{ m} = 84.375 "$

$(10 \times 30.0) \times 3.75 \times 0.075 \text{ m} = 84.375 "$

$(5 \times 30.0) \times 3.75 \times 0.075 \text{ m} = 42.187 "$

$14 \times 20.0 \times 3.75 \times 0.075 \text{ m} = 5.625 "$

300.937 m³

c.c. Portion

$8 \times 30.0 \times 3.75 \times 0.100 \text{ m} = 67.50 \text{ m}^3$

$1 \times 20.0 \times 3.75 \times 0.075 \text{ m} = 5.625 "$

73.125 m³

Continuation

73.25 m3

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Extra on curves					
2x10'0" x $\left[\frac{4.00+3.75}{2} - 3.75 \right]$					$\times 0.075 \text{ m}$
					$= 0.562 \text{ m}^3$
1x10'0" x $\left[\frac{2.70+5.70}{2} - 3.75 \right]$					$\times 0.075 \text{ m}$
					$= 0.525 \text{ m}^3$
1x10'0" x $\left[\frac{5.70+3.75}{2} - 3.75 \right]$					$\times 0.075 \text{ m}$
					$= 0.544 \text{ m}^3$
Total					$= 74.756 \text{ m}^3$
dm					
27/24					
38					

B. Constn of cr-reinforced
c.c. pavement m-30 over
prepared sub base.
— all complete as per
tech. specification.

From CH 1080.0 m — 1340.0 m.

$$2 \times 15.0 \times 3.75 \times 0.160 \text{ m} = 18.00 \text{ m}^3$$

$$2 \times 15.0 \times 3.72 \times 0.160 \text{ m} = 17.86 \text{ m}^3$$

$$2 \times 15.0 \times 3.75 \times 0.160 \text{ m} = 18.00 \text{ m}^3$$

$$2 \times 15.0 \times 3.75 \times 0.160 \text{ m} = 18.00 \text{ m}^3$$

$$2 \times 15.0 \times 3.75 \times 0.160 \text{ m} = 18.00 \text{ m}^3$$

$$1 \times 20.0 \times 3.75 \times 0.160 \text{ m} = 12.00 \text{ m}^3$$

$$1 \times 10.0 \times \frac{3.75+4.50}{2} \times 0.160 \text{ m} = 6.60 \text{ m}^3$$

$$1 \times 10 \times \frac{4.50+3.75}{2} \times 0.160 \text{ m} = 6.60 \text{ m}^3$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x20.0x3.75m x 0.160m					
				=	12.00 m ³
2x15.0x3.75m x 0.160m					17.76 "
1x10.0x3.75+5.20 x 0.160m					7.12 "
1x10.0x5.20+3.75 x 0.160m					7.16 "
					159.10 m ³

9. Boundary / Fixing typical
masonry information
signboard with logo
— 2 Nos.

10. Boundary / Laying of a reinforced
concrete pipe duct
of 300 mm dia
4 Nos x 3 x 2.50 m = 30.0 m.

28.02.24
28.02.24
AE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		<u>Abstract</u>			
1. Providing and fixing of working bench mark and reference pillars.					
(i) Bench mark					vide Form P-1
2 nos					
					Co. Re 4527 = 691 — Re 9055 =
(ii) Reference pillars					vide Form P-1
5 nos					
					Co. Re 2112 = 181 — Re 10560 =
2. clearing and grubbing					
the soil (and)					
0.94 HA					vide Form P-1
					Co. Re 72697 = 86 / 119
					— Re 68336 = 11
3. Excavation for roadway in soil (Box cutting)					
4.50 m ³					vide Form P-2
					Co. Re 103 = 85 / m ³
					— Re 467 = 11
4. Construction of subgrade and earthen shoulder with lean up to 1000 m.					
2432.70 m ³					vide Form P-2
					Co. Re 263 = 321 — Re 340579 = 100
					Co. Re 728997 = 100

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5. Constr of granular sub base by spreading over graded materials (grading I)					
(i) B.T Portion	866.70	m ³			vide TORR P. 4
(ii) c.c. Portion	83.775	"			" " P. 5
	950.475	m ³			
	3483	= 30	m ³		
	3311293	=			
6. Spreading spreading and compacting stone aggregate of WBM Class III					
(i) B.T. Portion	350.937	m ³			vide TORR P. 5
(ii) c.c. Portion	74.756	m ³			" " P. 6
	275.693	m ³			
	5440	= 03	m ³		
	2043781	=			
6. Constr of un-surf cement c.c. pavement 10.30 over prepared sub base and all comply as per Tech. Specifn					
	159.10	m ³			vide TORR P. 7
	8866	= 69	m ³		
	110690	=			
7. E.M.W. excavation of foundation of structure.					
	46.985	m ³			vide TORR P. 3

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
CE 383-28/m ³					
					Rs 18008 = 00
(8) Paving P.C.C. m/s in tank					
as levelling course					
8.537 m ³					wide m/s P. 3
CE 7116-71/m ³					
					Rs 60755 = 00
(9) Paving P.C.C. m/s in					
sub structure - do -					
all complete					
40.315 m ³					wide m/s P. 3
CE 8171-55/-					Rs 329436 = 00
(10) Paving and laying P.C.C.					
pipe m/s (600 mm dia)					
22.50 m					wide m/s P. 3
CE 3225-15/m					
					Rs 72566 = 00
11. Paving & Fixing typical					
masonry in formwork					
Sign board with logo					
					2 Nos wide P. 7
CE 11458-87/-					Rs 22918 = 00
2. Paving/Laying of P.C.C. pipe					
dust of 300 mm dia					
300 m					wide m/s P. 7
CE 1035-03/m					Rs 31078 = 00
Continuation					Rs 8029522 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B.F Rs 8029522 = 00
Add GST @ 18% —					Rs 1445314 = 00
Add L.C @ 1% —					Rs 80295 = 00
Add S.Fee @ 1.65% —					Rs 132487 = 00
					<u>Rs 9687618 = 00</u>
Less 10% Below					
As per agreement C →					Rs 968762 = 00
					<u>Rs 8718856 = 00</u>
<i>[Signature]</i>					<i>[Signature]</i>
28/2/24					25.02.24
AB					ATE