

Agency - Subodh Kh. ~~Subodh Kh.~~

Tefekiya Mchah-to Mchahit bhoj

~~Subodh Kh.~~

MMhsy (Sc)

Subodh Kh.

E.E. Road. Wony - ~~Subodh Kh.~~

Assistant Engineer Road. ~~Subodh Kh.~~

Wony Sub. Division - ~~Subodh Kh.~~

Subodh Kh.

2522

Certified that this M.B. contains -
100 (one hundred) pages by Printers -
Machine and bound to Shri Lal Bahadur
Pr. A.E. R.W.D. Warg, Sub-Div. Baran.

5/12/19

Executive Engineer
Rural Works Division, nt
Works Division, Aurangabad

5/12/19



Schedule XLV - Form No. 134.

E.E. Aurangabad DIVISION.

A.E. Baran SUB-DIVISION.

MEASUREMENT BOOK

2522

212237

Name of owner Shri Lal Bahadur Pr. A.E.
Baran.

Date of Form only

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L	B	D	
<u>4th & A/C Bill</u>					
Name of work - Construction of Road					
from Tadariva, Alahar to					
Mahalingam (mmusy)					
Name of Agency - Subodh Kr.					
Agreement No - 56 SBD/2019-20					
Date of work start - 28-01-2020					
Date of completion - 27-01-21					
Agreement Rate - 10 % below					
as per B.O.P. rate.					
Date of measurement - 20-12-2020					
Date of entry - 20-12-2020					

1/10 Prime cost - Providing
and applying Primer coat
- - - - - Do - - - - - Do - - - - -

Chk - 0.10 to 1250m

$$\frac{1 \text{ No} \times 15.0 \times (5.80 + 3.75)}{2} = 71.625 \text{ m}^2$$

$$1 \text{ No} \times 30.0 \times 3.75 = 112.50 \text{ m}^2$$

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Continuation

$$10.047 = 1084.125 \text{ m}^2$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
B.F. = 0.17 = 3684.125 m ²					
Curve - 3,					
1 No x 2.0 x (3.25 + 5.0 + 3.25) = 62.50 m ²					
1 No x 30.0 x 3.75 = 112.50 m ²					
1 No x 30.0 x 3.75 = 112.50 m ²					
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1 No x 30.0 x 3.75 = 112.50 m ²					
1 No x 30.0 x 3.75 = 112.50 m ²					
1 No x 30.0 x 3.75 = 112.50 m ²					
1 No x 30.0 x 3.75 = 112.50 m ²					
1 No x 20.0 x 3.75 = 75.00 m ²					
End Point: 1 No x 14.0 x (3.75 + 3.50) = 52.85 m ²					
					52.85 m ²
Total = 4774.475 m ²					

Rajiv

20.12.20
J.E20.12.2020
H.B. RajuDate of measurement
21.12.20

(2/11)

Tack coat - Providing,
applying, and setting of (for
tack coat)

Qty = Same as same

Qty wide msp-36

Qty items No (1/10) = 4774.475 m²

(2/12)

msp-20mm thick - Type-B

Providing, laying and rolling
of ac. msp-20mm thickQty = Same as same
items No (1/10) = 4774.475 m²
Rajiv
21.12.20

Sch. XLV-Form No. 134				Contents of area
Particulars	Details of actual measurement			
	No.	L	B	
		Date of measurement		
		05-01-2021		
17 Hard shouldering :-				
17 Laying brick sarking layer				
on prepared sub				
Both sides				
				$2 \times 8 \text{ No} \times 30.0 \times 0.250 = 120.0$
				$2 \times 1 \text{ No} \times 10.0 \times 0.250 = 5.0$
				$2 \times 3 \text{ No} \times 30.0 \times 0.250 = 45.0$
				$2 \times 1 \text{ No} \times 18.0 \times 0.250 = 9.0$
				$2 \times 7 \text{ No} \times 30.0 \times 0.250 = 260.0$
				$2 \times 4 \text{ No} \times 30.0 \times 0.250 = 60.0$
				$2 \times 1 \text{ No} \times 19.0 \times 0.250 = 9.50$
				<u>2308.50</u>

2/15 kilometre stone

Qty = 2.0 nos.

3/15 200 m stone

Qty = 6.0 nos.

4/16 Providing and fixing

Logo of Project

Qty = 2.0 nos.

5/18 Boundary pillar

Qty = 32 nos.

6/19 Retro-reflector

Traffic sign

600mm square

Qty = 14 nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Date of measurement</u>					
10-01-2021					
① Construction of subgrade and Earthen shoulder					
--- DO ---					
<u>Adjacent of L.S.D in BT Paving</u>					
<u>Both sides</u>					
$2 \times 9 \text{ No} \times 30.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
$2 \times 1 \text{ No} \times 15.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
$2 \times 23.0 \text{ No} \times 80.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
$2 \times 1 \text{ No} \times 15.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
$2 \times 8 \text{ No} \times 30.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
$2 \times 1 \text{ No} \times 20.0 \times \frac{(1.50+1.20)}{2} \times 0.200 =$					
<u>Adjacent of W.B.M.</u>					
$2 \times 9.0 \times 30.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 44.55$					
$2 \times 1 \text{ No} \times 15.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 2.475$					
$2 \times 23 \text{ No} \times 80.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 113.35$					
$2 \times 1 \text{ No} \times 15.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 2.475$					
$2 \times 8 \text{ No} \times 30.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 39.60$					
$2 \times 1 \text{ No} \times 20.0 \times \frac{(1.2+1.0)}{2} \times 0.075 = 23.30$					
<u>C.C. Paving</u>					
<u>Adjacent of L.S.D</u>					
$2 \times 16.0 \text{ No} \times 30.0 \times 0.375 \times 0.100 = 36.0$					
$2 \times 1 \text{ No} \times 20.0 \times 0.375 \times 0.100 = 1.50$					
$2 \times 4 \text{ No} \times 30.0 \times 0.375 \times 0.100 = 9.0$					
<u>Adjacent of W.B.M.</u>					
$2 \times 16.0 \times 30.0 \times 0.375 \times 0.075 = 27.0$					
$2 \times 4 \text{ No} \times 30.0 \times 0.375 \times 0.075 = 6.75$					
<u>Rec.</u>					
$2 \times 16 \text{ No} \times 30.0 \times 0.300 \times 0.160 = 46.08$					
$2 \times 4 \text{ No} \times 30.0 \times 0.300 \times 0.160 = 11.52$					

Continuation

Summary Total = 1018.80 m³

10-01-21

Sch. XLV-Form No. 134

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L	B	D	
<u>ABSTRACT OF COST.</u>					
① Provisioning & fixing of working bench mark					
Qty wide TMB P-28 = 2.0					
@ RS = 4162.41 / each = RS = 8325 = 00					
② Reference pillar					
Qty wide TMB P-28 = 7.0					
@ RS = 1891.02 / each = RS = 13237 = 00					
③ Clearing & grubbing					
Road land - - - - -					
Qty wide TMB P-28 = 1.32 Hec					
@ RS = 49739.47 / Hec = RS = 65656 = 00					
④ Box-cutting & Execution for Road work - - - - -					
Qty wide TMB P-30 = 48.0 m ³					
@ RS = 62.01 / m ³ = RS = 3936 = 00					
⑤ Construction of Embankment					
4 - ment for 60% of embankment - - - - -					
Qty wide TMB P-30 = 28.80 m ³					
@ RS = 27.98 / m ³ = RS = 806 = 00					
⑥ Construction of Embankment with approved materials (100m lead) - - - - -					
Ramp					
J.E.					

Ranjit

J.E.

Continuation

Date of measurement
4-11-2021

Sch. XLV-Form No. 134

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

1/5th Construction of Embankment with approved materials.

As per graph up to 6m.

Height (m)	C/S area as coll.	Avg. Area (m ²)	L (m)	Volume (m ³)
0.0	5.233	—	—	—
50.0	5.213	5.226	50	261.30
100.0	5.037	5.125	50	256.25
150.0	5.024	5.030	50	251.525
200.0	5.336	5.18	50	259.00
250.0	5.687	5.514	50	275.775
300.0	6.174	5.930	50	296.525
350.0	6.714	6.714	50	335.70
400.0	6.173	6.443	50	322.175
450.0	5.332	5.752	50	287.625
500.0	5.321	5.326	50	266.325
550.0	5.187	5.256	50	262.70
600.0	5.732	5.459	50	272.975
650.0	6.193	5.962	50	298.125
700.0	5.931	6.062	50	303.10
750.0	5.891	5.911	50	295.55
800.0	6.163	6.027	50	301.35
850.0	4.213	5.188	50	259.40
900.0	4.918	4.565	50	228.275
950.0	4.312	4.615	50	230.75
1000.0	5.162	4.737	50	236.85
1050.0	5.932	5.547	50	277.35
1100.0	5.692	5.542	50	277.10

Continuation

CH. c/s Area. (Avg. Length) / Volume. (m³)
 SCA/XL V-Form No. 134 (m²) / (m³)

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
1150	5.785	5.738	50		286.925 m ³
1200	5.658	5.721	50		286.075 m ³
1250	5.981	5.819	50		290.985
1300	4.132	5.056	50		252.825
1350	3.924	4.028	50		201.40
1400	4.916	4.42	50		221.00
1450	4.625	4.77	50		238.52
1500	4.432	4.528	50		226.425
1550	4.884	4.698	50		232.90
1600	4.321	4.602	50		230.125
1650	4.468	4.394	50		219.725
1700	4.983	4.725	50		236.275
1750	5.100	5.041	50		252.075
1800	4.982	5.041	50		252.05

1850 4.863 4.922 50 246.125

1890 4.123 4.493 40 179.72

Total Qty = 9908.665 m³

Deduction Qty.

(1) Subgrade - 3202.80 m³

(2) U.S.B - 978.485 m³

(3) W.B.M - 441.78 m³

(4) P.C.C - 391.68 m³

(5) Hand Soling - 38.50 m³

Net Qty = 4855.47 m³

(1/5) Embankment for (1000 m lead) = 2415.20 m³

(1/6) Embankment for (1000 m lead) = 2440.27 m³

Continuation

Ranjan
20.01.2021
J.E.

21.01.21
H.D. Bhowmik

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

ABSTRACT OF COST.

① Providing & fixing of
working bench marks.

Qty wide-trms P-28 = 2.0 Nos

@ RS = 4162.41 / each = RS = 8325 = 00

② Reference pillar

Qty wide-trms P-28 = 7.0

@ RS = 1891.02 / each = RS = 13237 = 00

③ Cleaning & grubbing

road lands

Qty wide-trms P-28 = 1.32 Nos

@ RS = 49789.47 / Nos = RS = 65656 = 00

④ Box cutting - Execution
for roadway

Qty wide-trms P-30 = 48.0 m³

@ RS = 82.61 / m³ = RS = 3936 = 00

⑤ Construction of Embankment
for 60% of

Qty wide-trms P-30 = 28.80 m³

@ RS = 27.98 / m³ = RS = 806 = 00

⑥ Construction of Embankment
with approved

materials

Qty wide-trms P-42 = 2415.20 m³

@ RS = 132.56 / m³ = RS = 320158 = 00

⑦ Construction of Embankment

with approved materials

for 1000 m continuation
Qty wide-trms P-42 = 2440.29 m³

@ RS = 187.23 / m³ = RS = 456892 = 00

@ RS = 869,011 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF = RS = 869,011 = ∞
(8/7) Construction of Subgrade and shoulders					
					Qty wide TMB P-31 = 2184.0 m³
					Qty wide TMB P-39 = 1018.80 m³
					= 3202.80 m³
					@ RS = 189.6 / m³ RS = 607,250 = ∞
(9/8) In. S.B. with well graded materials					
					Qty wide TMB P-32 = 978.435 m³
					@ RS = 2271.81 / m³ RS = 22,22,818 = ∞
(10/9) K.B.M. including - 3, Binding, laying, spreading and compacting					
					Qty wide TMB P-32 = 411.78 m³
					@ RS = 3658.78 / m³ RS = 16,16,376 = ∞
(11/10) Prime coat - Binding and applying Prime coat					
					Qty wide TMB P-36 = 4774.475 m²
					@ RS = 54.83 / m² RS = 2,61,784 = ∞
(12/11) Tack coat - Binding and applying Prime coat					
					Qty wide TMB P-36 =
					Continuation 4774.475 m²
					@ RS = 18.40 / m² RS = 87,850 = ∞
					@ RS = 56,65,090 = ∞

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$Bf = RS = 5,665,090 = \infty$
(13) mix sand surfacing					
(12) Type-B, providing					
laying and setting of					
Qty water m/s P-36					$= 4,774.475 m^2$
@ RS = 234.95/m ²					$RS = 11,21,763 = \infty$
(14) Cement concrete Pavement					
(13) M30 grade of					
Concrete					
Qty water m/s P-32					$= 391.68 m^2$
@ RS = 6637.50/m ²					$RS = 26,07,610 = \infty$
(15) Hand shouldering					
Laying Brick soling layer					
on prepared sub grade					
Qty water m/s P-37					$= 308.50 m^2$
@ RS = 525.24/m ²					$RS = 1,62,037 = \infty$
(16) Kilometre Stone					
(15)					
Qty water m/s P-37					$= 2.0 m^2$
@ RS = 2199.99/each					$RS = 4400 = \infty$
(17) 200m Stone					
(15)					
Qty water m/s P-37					$= 6.0$
@ RS = 639.85/each					$RS = 3839 = \infty$
(18) 100m Stone					$RS = 95,64,739 = \infty$

Continuation

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

$$BF = BS = 95.64739200$$

18
18 Boundary & lining

log of messy. Bnd.

Qty wire Tms P-22 = 4.0

$$@ RS = 9969.60 / \text{each} = 39,878.20$$

19
18 Boundary pillar / corner

Qty wire Tms P-32 = 32.00

$$@ RS = 525.20 / \text{each} = 16,806.40$$

20
19 Retro - reflector

Qty wire Tms P-37 = 14.00

$$@ RS = 4013.10 / \text{each} = 56,183.40$$

21
20 800 x 600 mm rect

Qty wire Tms P-38 = 4.0

$$@ RS = 7679.61 / \text{each} = 30,718.20$$

22
19 600 x 450 mm rect

Qty wire Tms P-38 = 4.0

$$@ RS = 5303.17 / \text{each} = 21,213.20$$

23
20 Road marking with

hot applied thermoplastic

Qty wire Tms P-38 = 250.00

$$@ RS = 850.93 / \text{m}^2 = 2,12,732.00$$

24
21 Road marking with hot

applied thermoplastic

Qty wire Tms P-38 = 128.00

$$@ RS = 953.95 / \text{m}^2 = 1,22,111.20$$

$$Co-RS = 1,00,64,380.20$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF: PS = 1,00,64,380 = W
(25/22) planting of tree by the road side					
					Qty wide TMB P-38 = 125.0 mbs.
					@ PS = 749.73 / Each = PS = 93,716 = W
(26/23) Earth work in excavation for foundation of stn					
					Qty wide TMB P-29 = 62.63 m ³
					@ PS = 285.71 / m ³ = PS = 17,894 = W
(27/24) Providing M15 (1:2:5)					
					Qty wide TMB P-29 = 11.40 m ³
					@ PS = 5252.0 / m ³ = PS = 59,873 = W
(28/25) 12.0 m ² in sub-structure					
					Qty wide rubble TMB P-30 = 60.68 m ³
					@ PS = 6214.64 / m ³ = PS = 3,77,104 = W
(29/26) Providing & laying pipe. NP-3					
					Qty wide TMB P-30 = 30.0 m
					@ PS = 1197.75 / m = PS = 35,932 = W
(30/27) Painting on parapet wall					
					Qty wide TMB P-38 = 49.92 m ²
					@ PS = 108.98 / m ² = PS = 5440 = W

Continuation

Co-PS. = 1,06,54,339.200

