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Work Sub-Min-Bahar.

5/12/19
Executive Engineer
Road Works Division, Aurangabad
5/12/19

Schedule KLV - Form No. 134.

E.E. Aurangabad. Division.

A.E. Bahar Sub-Division.

MEASUREMENT BOOK.

511247

2505

Shi Lal Bahadur A.E. Bahar.

Date of the entry

Use of the entry

निगाह नवः गेट डेस, गण ।

Sch. XLV-Form No. 134					Contents of area
Particulars	Details of actual measurement				
	No.	L	B	D	
Lrth & A/E Bill					
Name of work - Gravel <u>Gravel</u> charan					
Road to Ajamiya Under					
(mmsy)					
Name of Agency - Dilip Kr					
Sectusat Deo Aurangabad					
Agreement No - 31SRD/2019-20					
Agreement Rate - 10% below as					
as per B.O.P. Rate.					
Agreement value - 13400/75=					
date of work start - 20-10-19					
date of completion - 19-10-20					

date of measurement - 16-11-20

(1/14) construction of P.C.C					
m ₃ o grade --- 20-run					
Slop - $\frac{2 \times (3.40 + 3.60)}{2} \times 0.160 = 1.344 \text{ m}^3$					
1 No x 30.0 x $\frac{(3.75 + 3.75)}{2} \times 0.160 = 18.0 \text{ m}^3$					
1 No x 30.0 x $\frac{(3.75 + 3.75)}{2} \times 0.160 = 18.0 \text{ m}^3$					
1 No x 30.0 x $\frac{(3.75 + 3.80)}{2} \times 0.160 = 18.12 \text{ m}^3$					
1 No x 30.0 x $\frac{(3.75 + 3.75)}{2} \times 0.160 = 18.0 \text{ m}^3$					
1 No x 15.0 x $\frac{(3.75 + 3.85)}{2} \times 0.160 = 9.12 \text{ m}^3$					
1 No x 15.0 x $\frac{(3.80 + 4.40)}{2} \times 0.160 = 9.84 \text{ m}^3$					
Total Qty					= 92.424 m ³

Continuation

$BF. 9 + 7 = 32.424 m^3$
37

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
$15.0 \times \left(\frac{3.75 + 3.50}{2} \right) \times 0.160 = 8.70 m^3$					
$15.0 \times \left(\frac{3.50 + 3.30}{2} \right) \times 0.160 = 8.16 m^3$					
$15.0 \times \left(\frac{3.30 + 3.80}{2} \right) \times 0.160 = 8.52 m^3$					
$7.80 \times \left(\frac{3.80 + 3.60}{2} \right) \times 0.160 = 4.617 m^3$					
$13.50 \times \left(\frac{4.10 + 4.0}{2} \right) \times 0.160 = 8.748 m^3$					
$30.0 \times \left(\frac{4.0 + 3.75}{2} \right) \times 0.160 = 18.60 m^3$					
$15.0 \times \left(\frac{2.80 + 2.40}{2} \right) \times 0.160 = 6.24 m^3$					
$15.0 \times \left(\frac{2.40 + 3.40}{2} \right) \times 0.160 = 6.96 m^3$					
$15.0 \times \left(\frac{3.40 + 2.50}{2} \right) \times 0.160 = 7.08 m^3$					
$15 \times \left(\frac{2.50 + 4.0}{2} \right) \times 0.160 = 7.80 m^3$					
$15 \times \left(\frac{4.0 + 3.60}{2} \right) \times 0.160 = 9.12 m^3$					
$6.0 \times \left(\frac{3.60 + 5.30}{2} \right) \times 0.160 = 4.272 m^3$					
$15.0 \times \left(\frac{5.30 + 3.40}{2} \right) \times 0.160 = 10.4 m^3$					
Entire slop -					
$\left(\frac{4.0 + 5.30}{2} \right) \times 8.30 \times 0.160 = 6.175 m^3$					
$15.0 \times \left(\frac{3.40 + 3.50}{2} \right) \times 0.160 = 8.28 m^3$					
$15.0 \times \left(\frac{3.50 + 3.85}{2} \right) \times 0.160 = 8.82 m^3$					
$15.0 \times \left(\frac{3.85 + 3.60}{2} \right) \times 0.160 = 8.94 m^3$					
$30.0 \times \left(\frac{3.60 + 3.75}{2} \right) \times 0.160 = 17.64 m^3$					
$30.0 \times \left(\frac{3.75 + 3.75}{2} \right) \times 0.160 = 18.0 m^3$					
$15.0 \times \left(\frac{3.75 + 3.70}{2} \right) \times 0.160 = 8.94 m^3$					
$10.50 \times \left(\frac{3.70 + 3.90}{2} \right) \times 0.160 = 6.384 m^3$					
$15.0 \times \left(\frac{3.90 + 3.70}{2} \right) \times 0.160 = 9.12 m^3$					
$8.0 \times \left(\frac{3.70 + 3.75}{2} \right) \times 0.160 = 4.768 m^3$					

Continuation
= 298.746 m³

$$BF = 917 = 298746m^2$$

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>Link Slope:</u>					
$2.80 \times \frac{(8.90 + 4.70)}{2} \times 0.160 = 3.04m^3$					
$15.0 \times \frac{(8.60 + 3.55)}{2} \times 0.160 = 8.58m^3$					
$15.0 \times \frac{(3.55 + 3.25)}{2} \times 0.160 = 4.76m^3$					
$12.30 \times \frac{(3.25 + 3.25)}{2} \times 0.160 = 7.38m^3$					
<u>Link in Shanthi:</u>					
$15.0 \times \frac{(3.40 + 2.50)}{2} \times 0.160 = 7.08m^3$					
$15.0 \times \frac{(2.50 + 2.10)}{2} \times 0.160 = 5.52m^3$					
$15.0 \times \frac{(4.05 + 3.20)}{2} \times 0.160 = 8.70m^3$					
$15.0 \times \frac{(3.20 + 4.20)}{2} \times 0.160 = 8.88m^3$					
$15.0 \times \frac{(4.20 + 3.30)}{2} \times 0.160 = 9.0m^3$					
$4.40 \times \frac{(3.30 + 3.10)}{2} \times 0.160 = 2.25m^3$					

$$15.0 \times \frac{(3.75 + 3.75)}{2} \times 0.160 = 9.0m^3$$

$$= 376.936m^3$$

$$\text{Supplying qty} = 376.38m^3$$

(2/16) kilometre Stone.
Qty = 3.0 Nos.

(3/17) 200m Stone -
Qty = 10.0 Nos.

(4/20) Retro-reflectorised.

Traffic sign -

600mm equivalent Tangle.
Qty = 20.0 Nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
⑤ 300 mm x 600 mm rectagle. Qty = 8.0 nos.					
⑥ 600 mm x 450 mm rectagle Qty = 8.0 nos.					
⑦ Road marking with Hot applied for BT. Portion - - - - Both sides.					
2 x 5 No x 30.0 x 0.100 =					30.0 m ²
2 x 15 No x 30.0 x 0.100 =					90.0 m ²
2 x 21 No x 30.0 x 0.100 =					126.0 m ²
2 x 11 No x 30.0 x 0.100 =					66.0 m ²
2 x 3 No x 30.0 x 0.100 =					18.0 m ²
2 x 5 No x 30.0 x 0.100 =					30.0 m ²
					<u>360.0 m²</u>
⑧ 22 Road marking with Hot applied for C.C Surface - - - Both sides.					
2 x 11 No x 30.0 x 0.100 =					66.0 m ²
2 x 3 No x 30.0 x 0.100 =					18.0 m ²
2 x 1 No x 18.0 x 0.100 =					3.60 m ²
2 x 4 No x 30.0 x 0.100 =					24.0 m ²
2 x 1 No x 12.0 x 0.100 =					2.40 m ²
2 x 2 No x 30.0 x 0.100 =					6.0 m ²
2 x 1 No x 15.0 x 0.100 =					3.0 m ²
					<u>123.0 m²</u>

Continuation

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

9
23 Planting of Tree
by the road side.
- - - - -

Qty = 180 nos.

Range

16-11-20
7.5

Date of work
24.11.20

10
677 Construction of Embankment with approved
materials - - - - -
as per graph

Chk.	Top Area	Ave. Area	L	Volume
0.00	4.926	-	-	-
50.0	3.621	4.273	50	213.675
100.0	5.193	4.407	50	220.35
150.0	6.132	5.662	50	283.125
200.0	7.120	6.626	50	331.30
250.0	6.213	6.666	50	333.325
300.0	5.121	5.667	50	283.35
350.0	4.926	5.023	50	251.175
400.0	4.936	4.929	50	246.45
450.0	4.523	4.732	50	236.60
500.0	5.125	4.824	50	241.20
550.0	5.612	5.368	50	268.425
600.0	5.461	5.536	50	276.825
650.0	5.312	5.386	50	269.325

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
C.H.	C/S Area	Area	L		110/1000
700.0	5.131	5.221	50		261.075
750.0	5.789	5.46	50		273.0
800.0	6.132	5.96	50		298.025
850.0	6.125	6.128	50		306.425
900.0	7.132	6.628	50		331.425
950.0	4.132	5.632	50		281.60
1000.0	4.323	4.227	50		211.375
1050.0	5.200	4.761	50		238.075
1100.0	5.780	5.49	50		274.50
1150.0	5.980	5.88	50		294.0
1200.0	3.210	4.595	50		229.75
1250.0	6.789	4.999	50		249.975
1300.0	6.931	6.860	50		343.0
1350	6.931	6.931	50		346.55
1400	6.921	6.926	50		346.30
1450	6.312	6.616	50		330.825
1500	7.892	7.102	50		355.10
1550	7.621	7.756	50		387.825
1600	7.821	7.721	50		386.05
1650	7.312	7.566	50		378.325
1700.0	6.661	6.986	50		349.325
1750.0	6.431	6.546	50		327.30
1800.0	3.215	4.823	50		241.150
1850.0	1.256	2.235	50		111.775
1900.0	1.300	1.278	50		63.90
1950.0	1.311	1.305	50		65.27
2000.0	1.225	1.268	50		63.40
2050.0	1.261	1.243	50		62.15

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	Volume
CH-	c/s Area	Average Area		L	
2100.0	1.271	1.266	50		63.30
2150.0	1.312	1.291	50		64.575
2200.0	1.315	1.313	50		65.675
2250.0	1.751	1.533	50		76.65
2300.0	1.322	1.536	50		76.825
2350.0	1.750	1.536	50		76.825
2400.0	1.810	1.78	50		89.00
2445.0	1.310	1.56	15		23.40
				Total =	11398.848 m ³

~~Deduction of~~

① Subgrade - 4917.107 m³

② G.S.B. - 1429.19 m³

③ W.B.M. cm-3 = 692.81 m³

④ P.C.C = 376.38 m³

Total Embankment = 3983.358 m³

⑩ Embankment for 100m
(leaf) qty = 2135.928 m³

⑩ Embankment for 1000m
(leaf) qty = 1847.43 m³

Sch. XLV-Form No. 13443

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

11
28

Painting on Parapet wall

Paint in two coats, on
Top, $5 \text{ No} \times 2 \times 6.15 \times 0.40 = 24.60 \text{ m}^2$
Side, $5 \text{ No} \times 4 \times 6.15 \times 0.60 = 73.80 \text{ m}^2$
End $5 \text{ No} \times 4 \times 0.40 \times 0.60 = 4.80 \text{ m}^2$
 $= 103.20 \text{ m}^2$

Ramji
24-11-20
7-6

27-11-2020

AB Borou

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

ABSTRACT of 10ST.

(1) Providing & Fixing of
working bench mark

Qty white trans P-31 = 3.0 nos.

@ RS = 4213.04 / each = RS = 12,639.20

(2) Providing and Fixing
working bench mark

Qty white trans P-31 = 9.0 nos.

@ RS = 1917.0 / each = RS = 17253.00

(3) Cleaning & Grubbing
Road Level

Qty white trans P-31 = 1.69 nos.

@ RS = 49731.47 / 1 nos = RS = 84060.00

(4) Box cutting excavation for
Road crossing

Qty white trans P-31 = 82.50 m³

@ RS = 82.01 / m³ = RS = 6766.00

(5) Construction of Embankment
with approved materials
for 60% of cutting

Qty white trans P-31 = 49.50 m³

@ RS = 27.98 / m³ = RS = 1385.00

Co. RS = 1,22,103.00

Continuation

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

$$BF = PS = 1,22,103 = \infty$$

⑦ Construction of Embankment

- ment. with approved material up to (1000 m lead)

$$Qty \text{ wide } + m P-3 = 1618.80 m^3 \quad \text{Run}$$

$$Qty \text{ wide } + m P-42 = 1847.43 m^3$$

$$@ PS = 132.56 / m^3 = PS = 2,83,139 = \infty$$

⑧ Construction of Embankment

- ment with approved material up to (1000 m lead)

- - - - -

$$Qty \text{ wide } + m P-42 = 1847.43 m^3$$

$$@ PS = 187.23 / m^3 = PS = 3,45,894 = \infty$$

⑨ U.S.B. with well

graded material

- - - - -

$$Qty \text{ wide } + m P-32 = 1429.19 m^3$$

$$@ PS = 2436.10 / m^3 = PS = 34,81,650 = \infty$$

⑩ WBM Loc-3, Providing

laying, Spreading and

compacting - - - - -

$$Qty \text{ wide } + m P-32 = 692.61 m^3$$

$$@ PS = 3850.63 / m^3 = PS = 2,66,77,55 = \infty$$

⑪ Prime coat - Providing &

applying prime coat

$$Qty \text{ wide } + m P-33 = 6885.0 m^2$$

$$@ PS = 54.92 / m^2 = PS = 3,73,124 = \infty$$

$$Co PS = 72,73,665 = \infty$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = RS = 7273665 = 00$
(12) 12					Tack coat - Providing & applying. Tack coat.
					Qty white tmop-33 = 6885.0 m ²
					@ RS = 18.43/m ² = RS = 1,26,391 = 00
(13) 13					MSS - 20mm thick
					Type-B, Binding, laying, Spreading & Rolling.
					Qty white tmop-33 = 6885.0 m ²
					@ RS = 230.66/m ² = RS = 1,58,823.22
(14) 14					P.C.C M30 grade in concrete
					Qty white tmop-33 = 376.38 m ³
					@ RS = 6557.28/m ³ = RS = 24,68,033.76
(15) 15					Kilometre Stone.
					Qty white tmop-33 = 2.0
					@ RS = 2242.89/each = 6729.78
(16) 16					200m Stone
					Qty white tmop-33 = 10.0
					@ RS = 647.44/each = RS = 6474.40
(17) 17					Providing and fixing logo of Project mmsy
					Qty white tmop-33 = 3.0
					@ RS = 10017.22/each = RS = 30052.00
					C.O. RS. = 11,50,007.60

Continuation

BS = RS = 11,50,076 = 10
47

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(18/20) Retro-reflectorised Traffic sign - - - - - 600mm Equilateral Triangle - Qty wide Tmp P-38 = 2.00 @ RS = 4036.86 / each = RS = 80737.20					
(19/20) 800 x 600mm rectangle - Qty wide Tmp P-39 = 8.0 @ RS = 7703.37 / each = RS = 61627.20					
(20/21) 600mm x 450mm rect sub Qty wide Tmp P-39 = 6.00 @ RS = 5326.93 / each = RS = 31962.20					
(21/21) Road marking with hot applied - - - - - Qty wide Tmp P-39 = = 360.0 m ² @ RS = 850.93 / m ² = RS = 306335.20					
(22/22) Road marking with hot applied for C.C. portion - - - - - Qty wide Tmp P-39 = = 123.0 m ² @ RS = 953.99 / m ² = RS = 1,17,341.20					
(23/23) Planting of tree by the Road sides - - - - - Qty wide Tmp P-40 = 180.0 @ RS = 749.73 / each = RS = 1,34,951.20 @ RS = 1,22,33,029.20					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = PS = 122,33,029 = \infty$
(24) 24 Earth work in excavation.					
For foundation - - - - -					
Qty wide + ms P-33 = 149.0m ³					
@ RS = 285.71/m ³ = RS = 42571 = ∞					
(25) 25 Providing M15 as leveling					
course in foundation - - - - -					
Qty wide + ms P-34 = 23.0m ³					
@ RS = 5411.43/m ³ = RS = 124463 = ∞					
(26) 26 P.C.C. M20 in sub-					
- structure in head wall - - - - -					
- - - - -					
Qty wide + ms P-34 = 168.70m ³					
@ RS = 6383.00/m ³ = RS = 1076812 = ∞					
(27) 27 Providing and laying					
R.C.C. NP-3 Pipe - - - - -					
for 1000 mm ϕ - - - - -					
Qty wide + ms P-34 = 37.50m					
@ RS = 4140.48/m = RS = 155268 = ∞					
(28) 28 Painting on parapet					
wall - - - - -					
Qty wide + ms P-48 = 103.20m ²					
@ RS = 108.98/m ² = RS = 11247 = ∞					
(29) 29 Providing and laying					
of a R.C.C. Hummer Pipe - 300					
mm ϕ conduit - - - - -					
Qty wide + ms P-2 = 70.00m					
@ RS = 975.96/m = RS = 68313 = ∞					
(Continuation)					
@ RS = 137,11,703 = ∞					

Scanned with CamScanner

Sch. XLV-Form No. 134 50

Particulars	Details of actual measurement		Contents of area
	No.	D	
Executive Engineer			
Rural Works Divn. ml			
Works Division, Aurangabad			
5/12/19			

Materials Statement(1) Course sand - 169.37 m^3 (2) Stone metal - 838.30 m^3 (3) Stone chips - 524.63 m^3 (4) Spine dust - 166.27 m^3 (5) Emulsion SS-I = 5.852 m^3 (6) Emulsion RS-I = 1.858 m^3 (7) Bitumen (5-90) = 13.081 m^3

Rangal

24.11.20

J.E