

Agency - Viishore K. N. Singh

Begun Dandanya M. H. Dhoret - Misha (K. N. Singh)

Schedule XIV - Form No. 138

S. C.

For use only

BHAR P. W. D.

E. E. R. W. D. Union - Mangalad - Division

Assistant Engineer R. W. D. - Division

Union Sub. Division - Bahad

NEA-Schedule 138

25071

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Dinbhag-Bahum.

0-1
5.12.19
Executive Engineer
Rural Works Division, m
Works Division, Aurangabad
5/12/19

Schedule KLV - Form No. 124.

E.E. Aurangabad. Division.

A.E. Bahum. Sub-Division.

MEASUREMENT BOOK.

[2507]

224420

Sri. Lal Bahadur pd. A.E. Bahum.

Date of first entry _____

Date of last entry _____

निहा. मय-मिट डेस, गय ।

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4 th & final bill					
Name of work - Baran Daul					
Nagar to Bharathi Bigha.					
Name of Agency - Kishor Kr					
Singh Kshatriya Nagar					
Aurangabad.					
Agreement No - 13 SBD/2019-20					
Agreement Rate - 10% below of					
Bo.p Rate.					
Date of work start - 08-08-19					
Date of comp - 07-05-2020					
Actual date of comp -					
Date of measmt -					
07-12-2020					

① Prime cost - Providing & applying Primer coat.					
With bitumen - 100 mm					
CH - 0.00 to 3.00 m					
$10 \text{ No} \times 30.0 \times 3.75 = 1125.0 \text{ m}^2$					
CH - 6.00 m to 7.00 m					
$3 \text{ No} \times 30 \times 3.75 = 337.50 \text{ m}^2$					
$1 \text{ No} \times 10 \times 3.75 = 37.50 \text{ m}^2$					
For T-Junction at curve					
$\frac{12.0 \times (6.20 - 3.75) + 10.0 \times 3.75}{2} = 14.70 \text{ m}^2$					
At curve - 5					
$\frac{16.0 \times 2 \times (5.10 - 3.75) + 10.0 \times 3.75}{2} = 21.60 \text{ m}^2$					
$\frac{1536.30 \text{ m}^2}{2} = 1536.30 \text{ m}^2$					

Continuation

Ranjana
07-12-2020
J.B.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				Date of mch 15-12-20	
(1/8) Tack coat - Providing and applying Tack coat.					
Qty = Same as same item no. (1/8) vide					
TPB P-25 = 1536.30m ²					
(2/10) mss. 20mm thick Type-B					
(10) Providing - laying and rolling of closed graded mss.					
Qty = Same as same item no. (2) vide					
TPB P-25 = 1536.30m ²					
(3/12) Hand shouldering - Laying Brick Saline -					
Both Sides.					
2x 25.0 x 0.250 = 12.50m ²					
2x 30.0 x 0.250 = 15.0m ²					
2x 3.0 x 30.0 x 0.250 = 45.0m ²					
2x 1.0 x 16.0 x 0.250 = 8.0m ²					
2x 1.0 x 26.0 x 0.250 = 13.0m ²					
2x 2.0 x 30.0 x 0.250 = 30.0m ²					
2x 1.0 x 23.0 x 0.250 = 11.50m ²					
Total = 135.0m ²					

Continuation

Ranjit
15-12-2020
J.L

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

Date of work
27-12-2020

① kilometre stone

Qty = 1.0 Nos.

② 200m stone

Qty = 4.0 Nos.

③ Providing & fixing

logo of Project - - -

Qty = 2.0 Nos.

④ Boundary Pillar

1/2 m wall post - - -

Qty = 24 Nos.

⑤ Retro-reflective

Traffic sign - - -

600mm Equilateral

Triangle - 10 Nos.

⑥ 800mm X 600mm setting

Qty = 6.0 Nos.

⑦ 600mm X 450mm net

Qty = 6.0 Nos.

⑧ 900mm side cutting

Qty = 2.0 Nos.

⑨ Road marking with

hot applied - - -

BT - Paint on both sides

Continuation

$$\begin{aligned}
 2 \times 10 \text{ Nos} \times 30.0 \times 0.10 &= 60.0 \text{ m}^2 \\
 2 \times 3 \text{ Nos} \times 30.0 \times 0.10 &= 18.0 \text{ m}^2 \\
 2 \times 1 \text{ Nos} \times 10.0 \times 0.10 &= 2.0 \text{ m}^2 \\
 \text{Total} &= 80.0 \text{ m}^2
 \end{aligned}$$

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

⑩ Road marking with
Hot applied Thermo

In C.C. Portion.
Both Sides

$$2 \times 10 \text{ Nos} \times 30.0 \times 0.10 = 60.0 \text{ m}^2$$

⑪ Planting of tree
by the road side

$$\text{Qty} = 45.0 \text{ Nos}$$

⑫ Painting on Perimeter walls

$$\begin{aligned} \text{Top} & 2 \times 2 \times 3.60 \times 0.40 = 5.76 \text{ m}^2 \\ \text{Side} & 2 \times 4 \times 0.40 \times 0.60 = 1.92 \text{ m}^2 \\ \text{Front} & 2 \times 2 \times 3.60 \times 0.60 = 8.64 \text{ m}^2 \\ & \underline{16.32 \text{ m}^2} \end{aligned}$$

Rm
27-12-2020
J.V.
28 Bm

Date of measurement
04-01-2021

⑬ Construction of Subgrade
and earthen shoulder

BT Portion
Adjacent of L.S.D

$$2 \times 10 \text{ Nos} \times 30.0 \times \frac{(1.2 + 1.5)}{2} \times 0.20 = 150.0 \text{ m}^2$$

$$2 \times 3 \text{ Nos} \times 30.0 \times \frac{(1.2 + 1.5)}{2} \times 0.20 = 45.0 \text{ m}^2$$

$$2 \times 1 \text{ Nos} \times 10.0 \times \frac{(1.2 + 1.5)}{2} \times 0.20 = 5.0 \text{ m}^2$$

Continuation

$$\text{Co. Qty} = 200.0 \text{ m}^2$$

Sch. XLV-Form No. 134

Sch. XLV-Form NO. 154					Contents of area
Particulars	Details of actual measurement				
	No.	L	B	D	
<u>ABSTRACT of COST</u>					
					$216.0m^2$
					$35 = 216.0m^2$
<u>Adjustment of workman</u>					
<u>In B.T. portion</u>					
					$2 \times 10 No \times 30.0 \times \frac{(1.2+1.0)}{2} \times 0.075$
					$= 49.50m^3$
					$2 \times 3 No \times 30.0 \times \frac{(1.2+1.0)}{2} \times 0.075$
					$= 14.85m^3$
					$2 \times 1 No \times 10 \times \frac{(1.20+1.0)}{2} \times 0.075$
					$= 1.65m^3$
<u>In P.C.C. portion</u>					
<u>Adjustment of L.S.B</u>					
					$2 \times 30 No \times 30.0 \times 0.375 \times 0.100$
					$= 22.50m^3$
<u>Adjustment of workman</u>					
					$2 \times 10 No \times 30.0 \times 0.375 \times 0.075$
					$= 16.88m^3$
<u>Adjustment of P.C.C.</u>					
					$2 \times 10 No \times 30.0 \times 0.300 \times 0.160$
					$= 28.80m^3$
<u>Cft Total =</u>					<u>350.18m³</u>
<u>Ram</u>					
<u>04.01.2024</u>					
<u>J.B.</u>					

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

Date of measurement

27.6.2021

(1/3) Construction of Embankment

- ment - with material. of 6 Met.

Borrow pit 100 - 120

as per graph.

CH-	C/S Area	Avg Area	L	Qty Volume
0.00	5.801	—	—	—
50.0	5.12	5.460	50	2730.25 m ³
100.0	5.223	5.171	50	258.575
150.0	5.752	5.487	50	274.375
200.0	5.001	5.376	50	268.825
250.0	5.131	5.066	50	253.30
300.0	4.923	5.027	50	251.35
350.0	4.875	4.899	50	244.95

400.0	5.132	5.003	50	250.175
450.0	5.165	5.148	50	257.40
500.0	4.321	4.743	50	237.15
550.0	4.441	4.381	50	219.05
600.0	5.985	4.713	50	235.65
650.0	5.622	5.303	50	265.175
700.0	6.134	5.878	50	293.90

Total Qty. 3582.90 m³

Deduction:

(1) P.C.C = 183.38 m³(2) W.B.M. = 196.875 m³(3) 436.50 m³ = 436.50 m³(4) Subgrade = 1627.58 m³Net Qty = 1138.565 m³(1/3) Embankment for 100m bed = 520.10 m³

Continuation

(1/4) Embankment for 100m bed = 618.465 m³Ranjan
27.6.21
27.6.21
And

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST.</u>					
<u>(1) Providing & fixing of</u>					
<u>working bench mark.</u>					
<u>- - - - - All work.</u>					
<u>Qty wire Tms P-20 = 1.0 No.</u>					
<u>@ RS = 41203.33/each = RS = 41203 = W</u>					
<u>(2) Reference pillar.</u>					
<u>Qty wire Tms P-20 = 3.0 No.</u>					
<u>@ RS = 1916.58/each = RS = 5750 = W</u>					
<u>(3) Cleaning & grubbing</u>					
<u>Road land. - - - - - m</u>					
<u>Qty wire Tms P-20 = 0.43 Hec.</u>					
<u>@ RS = 49739.47/Hec @ RS = 24372 = W</u>					
<u>(4/3) Construction of Embankment</u>					
<u>with approved material</u>					
<u>for 100 m length - - - - - m</u>					
<u>Qty wire Tms P-30 = 618.485 m³</u>					
<u>@ RS = 132.56/m³ = RS = 81984 = W</u>					
<u>(5) Construction of Embankment</u>					
<u>with approved</u>					
<u>material - - - - - m</u>					
<u>for 1000 m length</u>					
<u>Qty wire Tms P-30 = 520.10 m³</u>					
<u>@ RS = 187.23/m³ = RS = 97378 = W</u>					
<u>(6) Construction of Sub-</u>					
<u>grade canal Earthen</u>					
<u>Shoulder - - - - - m</u>					
<u>Qty wire Tms P-22 = 1277.40 m³</u>					
<u>Qty wire Tms P-22 = 350.18 m³</u>					
<u>Continuation</u>					
<u>= 1627.58 m³</u>					
<u>@ RS = 189.60/m³ = RS = 308589 = W</u>					
<u>(C.R.S) = 522,282 = W</u>					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = PS = 5,22,282 = \infty$
(7) C.S.B. Construction					
of C.S.B. with well					
graded materials.					
gaveling - I - - - -					
Qty wire mesh P-22 = 436.50 m ³					
$QPS = 2538.34 / m^2 = PS = 11,07,985 = \infty$					
(8) W.B.M. work - 3, Providing,					
laying, spreading and					
compacting W.B.M. work - -					
- - - - -					
Qty wire mesh P-25 = 196.875 m ²					
$QPS = 4056.23 / m^2 = PS = 7,98,570 = \infty$					
(9) Prime coat -					
Providing & applying					
Primer coat - wet +					
- - - - -					
Qty wire mesh P-25 = 1536.30 m ²					
$QPS = 55.0 / m^2 = PS = 84,496 = \infty$					
(10) Tack-coat - Providing					
and applying Tack-coat					
- - - - -					
Qty wire mesh P-26 = 1536.30 m ²					
$QPS = 18.45 / m^2 = PS = 28,345 = \infty$					
(11) M.S.S. 20mm thick Type 'B'					
Providing, laying & rolling					
- - - - -					
Qty wire mesh P-26 = 1536.30 m ²					
$QPS = 234.68 / m^2 = PS = 360,539 = \infty$					
(12) RS. = 29,02,217 = ∞					

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF = RS = 29,02,217 = ∞
(12) P.C.C - m30					
(11) Construction of P.C.C					
m30 grade of concrete					
- - - - - All work					
Qty wide m30 P-23 = 183.38 m ³					
@ RS = 6657.84 / m ³ RS = 12,20,915 = ∞					
(13) Hand shouldering					
(12) Laying brick Soling layer					
- - - - - All work					
Qty wide m30 P-26 = 135.0 m ²					
@ RS = 525.24 / m ² RS = 70,907 = ∞					
(14) Kilomtr stone					
(13) Qty wide m30 P-27 = 1.0					
@ RS = 2266.03 / Each = RS = 2266 = ∞					
(15) 20cm Stone					
(13) Qty wide m30 P-27 = 4.0					
@ RS = 651.54 / Each = RS = 2606 = ∞					
(16) Providing & Fixing					
(14) Logo of mmb sy Project					
- - - - - All work					
Qty wide m30 P-23 = 20.00					
Qty wide m30 P-27 = 2.00					
4.0					
@ RS = 10,031.45 / Each = RS = 40,126 = ∞					
(17) Boundary Pillar					
(16) Gravel Post					
Qty wide m30 P-27 = 24.0					
@ RS = 530.54 / Each = RS = 12,733 = ∞					
Co. RS = 4,25,770 = ∞					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$13.6 = 13.6 = 42,51.770 = w$
(18/17) Retro reflective Traffic sign - -					
600mm square					
Qty white temp-27 = 10.0					
@PS = 40414.03/each = PS = 404140 = w					
(19/17) 800mm x 600mm rectup					
Qty white temp-27 = 6.0 m ²					
@PS = 7710.53 = PS = 462632 = w					
(20/17) 600mm x 450mm - rectangle - - -					
Qty white temp-27 = 6.0					
@PS = 5334.10 / each = PS = 32,0042 = w					
(21/17) 900mm side octagon					
Qty white temp-27 = 2.0					
@PS = 9883.28 / each = PS = 19766 = w					
(22/16) Road marking with Hot applied Therm BT-Portion - - -					
Qty white temp-27 = 80.0 m ²					
@PS = 850.93 / m ² = PS = 68,074 = w					
(23/19) Road marking with Hot applied - - -					
- C.C. Portion - - -					
Qty white temp-28 = 60.0 m ²					
@PS = 953.93 / m ² = PS = 57,239 = w					
Continuation					
Co-PS = 4515,556 = w					

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BS = RS = 45,556 = 00$
(24) 20	Planting of Tree by the road side -				
					Qty wide tree P-28 = 450
					@ RS = 749.73 / each = 33,738 = 00
(25) 26	Earth work in Excavation for foundation of structure -				
					Qty wide tree P-21 = 59.58 m ³
					@ RS = 2357.71 / m ³ RS = 17023 = 00
(26) 27	Providing M15 P.C.C 1:2.5:5 as leveling -				
					Qty wide tree P-21 = 9.20 m ³
					@ RS = 5497.43 / m ³ RS = 50576 = 00
(27) 28	P.C.C in substructure m20 gravel concrete -				
					Qty wide tree P-21 = 67.48 m ³
					@ RS = 6483.70 / m ³ RS = 4,37,520 = 00
(28) 29	Providing and laying R.C.C N.P.3 Pipe for H.P.C. -				
					1000 mm ϕ
					Qty wide tree P-22 = 15.0 m
					@ RS = 4111.31 / m RS = 61,670 = 00
					@ RS = 51,6,083 = 00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = RS = 51,16,083 = 00$
(29) (30) Painting on parapet wall - - - - - m					
Qty wide trans P-28 =					$16.32 m^2$
@ RS =					$108.98 / m^2 = RS = 1779 = 00$
(30) (31) Providing and laying R.C.C 300mm ϕ pipe - - - - - m					
Qty wide Trans P-21 =					$30.0 m$
@ RS =					$970.81 / m = RS = 29124 = 00$
(31) (32) Dismantling of existing structure like cement concrete -					
Qty wide trans P-20 =					$1.62 m^3$
@ RS =					$474.67 / m^3 = RS = 769 = 00$
(32) (33) Dismantling and existing structure like -					
Cement mortar -					
Qty wide trans P-20 =					$61.38 m^3$
@ RS =					$228.40 / m^3 = RS = 14019 = 00$
(33) (34) Removing all types of H.P. and stacking up to 600mm to 900mm ϕ					
Qty wide Trans P-20 =					$10.0 m$
@ RS =					$229.83 / m = RS = 2298 = 00$
Lt - Total RS =					$51,64,072 = 00$
Less 10% below () =					$5,16,407 = 00$
Li -					$46,47,665 = 00$

Continuation

Sch. XLV-Form No. 134

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