

Agency - Chandan Kt Singh

Samalbhawa (K. K. Singh)

S.C.

Schedule XIV - Form No. 134

For the year

2018 P.W.D.

E.E. 12 in D. Work - Agamgarh. DIVISION

Assistant Engineer - R.W.D. 2ND DIVISION

Work sub - Division - Bahag.

MAINTENANCE BOOK No [2504]

Certified that this M.D. Water is
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Wongy sub. Div. Baran.

5/12/19
Executive engineer
Rural Works Division, at
Works Division, Aurangabad
5/12/19

Schedule KLV - Form No. 134.

E. E. Aurangabad. Division.

A. E. Baran. Sub-division.

MEASUREMENT BOOK.

511238

2504

Sri Lal Bahadur pd. A.E. Baran.

Date of this entry _____

Unit of this entry _____

Digit. number of this entry _____

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>4th Bill</u>					
Name of work - Construction of					
Road from B.T. Road Sundergarh					
Path via Amuna to Samudra					
Name of Agency - Chandan Kumar					
Singh Anandi bag DEO Aurangabad					
Agreement No. - B.D. / 20/19. 20					
Agreement Rate - 10% below of B.O.P rate.					
Estimate cost - 10506672 = 10					
Agreement Amt - 9456005 = 10					
Date of work start - 15-10-19					
Date of Comp - 14-10-20					
Date of Actual Comp - 05-08-20					
Date of measuring - 20-7-20					
Date of Entry - 05-08-20					
(1) Construction of subgrade					
2 earthen shoulder -					
- - - - - All up					
Side of ^{U.S.B.} both side in B.T. portion.					
2.0 x 33.0 x 30.0 x					
2.0 x 33.0 x 30.0 x 1.38 x 0.20 = 546.48					
2.0 x 1.0 x 5.0 x 1.38 x 0.20 = 2.76 m ³					
Side of A/B m/l x 3					
2.0 x 33.0 x 30.0 x 1.181 x 0.075 = 159.48					
2.0 x 3.0 x 30.0 x 0.300 x 1.181 x 0.075					
= 4.08 m ³					
2.0 x 1.0 x 5.0 x 1.0 x 0.075 = 0.75 m ³					
Total = 713.50 m ³					

Continuation

P.T.O

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			BF = 114y		713.50 m ³
In P.C.C Portion					
Side of L.S.B. (both sides)					
2.0 x 13.10 x 30.0 x 0.375 x 0.110 = 110.0					
2.0 x 1.10 x 10.0 x 0.375 x 0.110 = 0.95					
Side of U.S.B. m ³					
2.0 x 13.10 x 30.0 x 0.375 x 0.075 = 30.295 m ³					
2.0 x 1.10 x 10.0 x 0.375 x 0.075 = 0.562 m ³					

Side of P.C.C

$$2.0 \times 18.0 \times 30.0 \times 0.300 \times 0.075$$

$$= 24.30 \text{ m}^3$$

$$2.0 \times 1.10 \times 10.0 \times 0.300 \times 0.075$$

$$= 0.45 \text{ m}^3$$

$$= 840.437 \text{ m}^3$$

2/3+4 Construction of Embankment with approved

material 8.1.1.50.111.

over all final up

to date graph

CH in (m)	C/S Area	Average C/S Area	Length (m)	Volume in (m ³)
0.00	5.323		0.00	
50.0	5.210	5.266	50.0	263.325 m ³
100.0	5.035	5.122	50.0	256.125 m ³
150.0	5.020	5.027	50.0	251.375 m ³
200.0	5.335	5.177	50.0	258.875 m ³
250.0	5.760	5.335	50.0	267.875 m ³

Continuation

$$10-917 = 1307.54 \text{ m}^3$$

$$BF = 0.7 = 1307.57 \text{ m}^3$$

Sch. XLV-Form No. 134

Particulars	Details of actual measurements			Copper
	No. of Strips	Area	Length	
300.0	6.182	5.981	50	283.05 m ³
350.0	6.710	6.446	50	322.30
400.0	6.172	6.44	50	322.05
450.0	6.340	6.256	50	292.80
500.0	4.210	5.275	50	263.75
550.0	4.812	4.511	50	225.53
600.0	4.322	4.567	50	228.35
650.0	4.115	4.218	50	210.925
700.0	6.302	5.208	50	266.425
750.0	4.900	5.601	50	280.05 m ³
800.0	6.520	5.26	50	288.90
850.0	6.412	5.566	50	298.30
900.0	4.325	5.366	50	268.30
950.0	6.200	5.26	50	263.0

1000.0	4.820	5.51	50	275.50
1050.0	5.115	4.967	50	248.375
1100.0	4.110	4.612	50	230.62
1150.0	4.210	4.16	50	208.00
1200.0	4.105	4.157	50	207.875
1250.0	5.05	4.577	50	228.575
1300.0	5.120	5.085	50	254.25
1350.0	5.000	5.06	50	253.0
1400.0	5.202	5.101	50	255.05
1450.0	5.932	5.567	50	278.35
1545.0	5.43	5.681	95	539.69

Total = 3180.05 m³

Now deduction

- (1) P.C.C = 336.60 m³
- (2) W.B.M = 443.22 m³
- (3) U.S.B = 1032.45 m³
- (4) Subgrade = 3756.01 m³

$$\text{Embankment} = 2611.718 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(2/3) Embankment for (1000 m lead) = 1464.345 m ³					

(2/4) Embankment for (1000 m lead) = 1147.323 m ³					
---	--	--	--	--	--

Rain
 20-07-20
 J.E.
 20/7/20
 AR

Date of mesmt.

01-08-20

(1/12) Hard shouldering - laying Back					
--	--	--	--	--	--

Soling layer on

- - - - - 20 - - - - - 200 m

both sides:

$$9.0 \times 18 \text{ Nos} \times 30.0 \times 0.250 = 270.0 \text{ m}^2$$

$$2.0 \times 1.20 \times 10.0 \times 0.250 = 5.0 \text{ m}^2$$

$$\text{Total} = 275.0 \text{ m}^2$$

(2/13) Providing & fixing

Kilometre stone

- - - - - 200 - - - - - 200 m

$$\text{Qty} = 2.0 \text{ Nos.}$$

(3/13) 200 m stone

$$\text{Qty} = 6.0 \text{ Nos.}$$

(4/14) Boundary Pillar

- - - - - 100 - - - - - 100 m

$$\text{Qty} = 32 \text{ Nos.}$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(5/17) Retro-reflective Traffic Sign -					
- - - - -					
(i) 600mm Equilateral Triangle -					
Qty = 16.0 Nos.					
(ii) 800mm x 600mm Rectangle -					
Qty = 6.0 Nos.					
(iii) 600 x 450 mm Rectangle -					
Qty = 6.0 Nos.					

(6/18) Road marking with hot applied on bituminous surface - - - - - All Comp. ss.

Both sides.

$$2 \times 33 \text{ Nos} \times 30.0 \times 0.100 = 198.0 \text{ m}^2$$

$$2 \times 1 \text{ No} \times 5.0 \times 0.100 = 1.0 \text{ m}^2$$

$$\text{Qty} = 199.0 \text{ m}^2$$

(7/19) Road marking with hot applied on R.C.C. work - - - - - All Comp. ss.

Both sides.

$$2 \times 18 \text{ Nos} \times 30.0 \times 0.100 = 108.0 \text{ m}^2$$

$$2 \times 1 \text{ No} \times 10.0 \times 0.100 = 2.0 \text{ m}^2$$

$$\text{Qty} = 110.0 \text{ m}^2$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
9/20 Planting of Tree by the road side. - - - - - Qty = 30 Nos.					
Ranoo 01-08-20 J.E.					01-08-20 J.E.
9/25 Painting on Parapet wall (Black & White) - - - - -					
4 Nos $2 \text{ Nos} \times 6.15 \times 0.4 \text{ m} = 4.92 \text{ m}^2$ $2 \text{ Nos} \times 6.15 \times 0.6 \text{ m} = 7.38 \text{ m}^2$ $4 \text{ Nos} \times 0.45 \times 0.6 \text{ m} = 0.96 \text{ m}^2$ $= 13.26 \text{ m}^2$ Total Qty = $4 \text{ Nos} \times 13.26 = 53.04 \text{ m}^2$					
<u>MATERIAL STATEMENT</u>					
Ranoo 05-08-20 J.E.					
<u>MATERIALS STATEMENT</u>					
<1> Local sand = 11.0 m^3 <2> Brick = 16755 Nos. <3>					
Ranoo 05-08-20 J.E.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST.</u>					
<u>(1) Providing & Fixing</u>					
<u>of working bench marks.</u>					
<u>- - - - - All up.</u>					
Qty videtms P-26 = 2.0 No.					
① RS = 4211.79/each = RS = 8424 = ∞					
<u>(2) Providing & Fixing</u>					
<u>of Reference pillar</u>					
<u>- - - - - All up</u>					
Qty videtms P-26 = 6.0 No.					
② RS = 1915.27/each = RS = 11492 = ∞					
<u>(3) Clearing & Grubbing.</u>					
<u>Road level - - - - - All up</u>					
Qty videtms P-26 = 1.08 Hec					
③ RS = 49739.47/Hec = RS = 53719 = ∞					
<u>(4) Construction of emb</u>					
<u>ankment for (100 m)</u>					
<u>- - - - - All up.</u>					
Qty vide. tms P-35 = 1147.323 m ³					
④ RS = 132156/m ³ = RS = 1,52,089 = ∞					
<u>(5) Construction of emb-</u>					
<u>ankment for (100 m</u>					
<u>lead) - - - - - All up.</u>					
Qty videtms P-35 = 1464.395 m ³					
⑤ RS = 187.23/m ³ = RS = 2,74,179 = ∞					
⑥ RS = 4,99,903 = ∞					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF = PS = 4,99,902 = 00
(5) Construction of sub.					
- grade. - sub. - All					
Qty vide Tm P-28 = 2915.56 m ³					
Qty vide Tm P-33 = 840.437 m ³					
= 3756.017 m ³					
@ PS = 189.60/m ³ = PS = 712,141 = 00					
(6) Construction of U.S.B					
by providing well					
graded material.					
- Do. - All					
Qty vide Tm P-29 = 1032.45 m ³					
@ PS = 2368.83/m ³ = PS = 24,45,760 = 00					
(7) Providing, Laying, Spreading and Compacting L.B.M. in III					
- Do. - All					
Qty vide Tm P-29 = 443.22 m ³					
@ PS = 3712.39/m ³ = PS = 16,45,405 = 00					
(8) Prime coat - Providing & applying Prime coat.					
- Do. - All					
Qty vide Tm P-29 = 3805.88 m ²					
@ PS = 54.87/m ² = PS = 208,829 = 00					
(9) Tack coat - Providing & applying Tack coat.					
- Do. - All					
Qty vide Tm P-29 = 3805.88 m ²					
@ PS = 1841/m ² = PS = 7,00,660 = 00					
@ PS = 5582/104 = 00					

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

MS- BF-PS = 5584.104 = 10
 (11) Providing, laying,
 and rolling of closed
 graded MIX, seal,
 Surfacing - 20 mm thick
 = 100 - 116.00

Qty wide tms P-30 = 3805.88 m²

@ PS = 227.99/m² = 10 = 8,67,708 = 10

(12) C-C-PMBO

Construction of P-C-C
 M30 grade of concrete
 = 100 - 116.00

Qty wide tms P-21 = 298.912 m³

Qty wide tms P-23 = 37.788 m³

= 336.60 m³

@ PS = 64.79.76/m³ = PS = 21,81,087 = 10

(13) Hard Shouldering

= 100 - 116.00

Qty wide tms P-35 = 275.0 m⁴

@ PS = 525.75/m² = PS = 14,4581 = 10

(14) Kilometre Stone

Qty wide tms P-35 = 2.00 m⁴

@ PS = 2225.28/each = 4451 = 10

(15) 200 m Stone

(13000) = 100 - 116.00

Qty wide tms P-35 = 6.00 m⁴

@ PS = 644.28/each = PS = 3866 = 10

@ PS = 87,85,792 = 10

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = PB = 87,85,792 = W$
(16) Boundary Pillar / 14 large of MM Insy - - - - - - All of -					
Qty wide temp - 28 = 3.0 No.					
@ PS = 10,000.78/each = 4 = 30002 = W					
(17) Boundary Pillar / 15 Curved post - - - - - - - - All of -					
Qty wide temp - 35 = 3.2 No.					
@ PS = 527.47/each = 2 = 16879 = W					
(18) Retro reflectorised 17 Traffic Sign - - - - - - All of -					
Qty wide temp - 36 = 16 No.					
@ PS = 4028.64/each = 64458 = W					
(19) 800mm x 600mm 17 ii Rectangular - 20 m Qty wide temp - 36 = 6 No.					
@ PS = 7695.15/each = 46171 = W					
(20) 600mm x 450mm 17 iii Rectangular - - - - - - All of -					
Qty wide temp - 36 = 6 No.					
@ PS = 25318.71/each = 31912 = W					
					$(0) PS = 89,75,214 = W$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
BF = RS = 89,752.14 = 0					
(21/18) Road marking with hot applied thermoplastic compound on Bituminous Surfacing. - 00 - 174					
Qty vide Tmp P-36 = 199 m ²					
@ RS = 850.33/m ² = RS = 1,69,335 = 0					
(22/19) Road marking with hot applied on P.C.C Surfacing. - 00 - 174					
Qty vide Tmp P-36 = 110.0 m ²					
@ RS = 953.99/m ² = RS = 1,04,939 = 0					
(23/20) Planting of Tree by the road side - 00 - 174					
Qty vide Tmp P-37 = 90.0 No.					
@ RS = 749.73/each = RS = 74,598 = 0					
(24/21) Earth work in excavation for foundation - 00 - 174					
Qty vide Tmp P-27 = 119.18 m ³					
@ RS 285.71/m ³ = RS = 34,052 = 0					
(25/22) Providing M15 P.C.C (1:2:5) in foundation - 00 - 174					
Qty vide Tmp P-27 = 18.306 m ³					
@ RS = 5346.19/m ³ = RS = 97,867 = 0					
@ RS = 94,56,005 = 0					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
BF=RS=94,56005200					
(26) 23	P.C.C. M20				
Providing, P.C.C.					
M20 in substructure					
Do - All					
Qty wide TMB R-27=134.96m ³					
@ RS=6305.92/m ³ RS=851047.76					
(27) 24	Providing & laying				
R.C.C. pipe NR-3					
for culvert Do - All					
Qty wide TMB R-28=30.0					
@ RS=4194.98/m RS=124649.00					
(28) 25	Painting on Parapet				
Wall (Black & White)					
Two coats. Do - All					
Qty wide TMB R-37=53.04m ²					
@ RS=108.98/m ² RS=5780.00					
(29) 26	Providing & laying				
of R.C.C. pipe duct					
Do - All					
Qty wide TMB R-27=50.0m					
@ RS=978.34/m RS=48917.00					
(30) 27	Dismantling of Exist				
ing Structure. Do - All					
Qty wide TMB R-26=0.60m ³					
@ RS=474.67/m ³ RS=285.00					
(Continuation)					
Co. RS=1,04,86,683.00					

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

$$BF = PS = 104,86,683 = 00$$

(31/28) Dismantling & Existing Structure like Culvert.

- - - - - All up.

$$Qty \text{ vide Tm } P-26 = 17.33 m^3$$

$$@ PS = 228.40/m^3 = PS = 3958 = 00$$

(32/29) Removing all Types of Humed Pipe - 20 - 111

$$Qty \text{ vide Tm } P-27 = 7.50 m$$

$$@ PS = 169.97/m = PS = 1275 = 00$$

$$Gt. Total PS = 104,91,916 = 00$$

$$\text{Less 10\% Below } (-) 1049192 = 00$$

as per B.O.P. Rate

$$= 94,42,724 = 00$$

$$\text{Less previous paid PS} = 75,64,000 = 00$$

vide Tm P-30

$$\text{Net PS} = 18,78,724 = 00$$

Ramp
05-08-20
J.E.

1/6
05/08/2020
A.E.

CSP
6/8/2020

Continuation