

Agency - Ram Narayan Singh

Jangl Bighat Impamphant (K1.K1.h.8.Y)

Schedule XIV - Form No 1345

For use only

DATE P.W.D.

E.E.R.W.D. WORK Arrangabad Division

Assistant Engineer R.W.D. Sub-Division

Sub-Division - Behun

MEASUREMENT BOOK No 12506

Certified that this M.O. contains
in (one hundred) pages by Printers -
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Bahadur pd. A.E. R.W.D. Work Sub-
Div. Bahra.


Executive Engineer
Rural Works Division, at
Works Division, Aurangabad

5/12/19

E.E. Aurangabad. DIVISION.
A.E. Bahra S.D. DIVISION.

MEASUREMENT BOOK.

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2506

Sri Lal Bahadur pd. A.E. Bahra.

Date of first entry

Date of last entry

निहात. गणिते वस. गण ।

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
4th & Final bill					
Name of work - Construction of Road from Jangi Bgha. to Immamganj					
Name of Agency - Ram Nandan Singh Karama Road Aurangabad					
Agreement No - 47 SBO/2019-20					
Agreement Rate - 10% below of B.O. Rate					
Date of work start - 22-11-2019					
Date of Comp - 21-11-2020 ^{Pub}					
Date of Actual Comp - 02-01-2021					
Date of measurement - 02-01-2021					

(1) Construction of subgrade
& earthen shoulder

Both sides

Adjacent to L.S.B in BT

$$= 2 \times 6 \text{ No} \times 30.0 \times \frac{(1.50 + 1.20)}{2} \times 0.20 = 97.20 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 20.0 \times \frac{(1.50 + 1.10)}{2} \times 0.20 = 10.40 \text{ m}^3$$

$$2 \times 4 \text{ No} \times 30.0 \times \frac{(1.30 + 1.0)}{2} \times 0.20 = 55.20 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 16.0 \times \frac{(1.50 + 1.20)}{2} \times 0.20 = 8.64 \text{ m}^3$$

$$2 \times 8 \text{ No} \times 30.0 \times \frac{(1.40 + 1.20)}{2} \times 0.20 = 124.80 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 14.0 \times \frac{(1.50 + 1.1)}{2} \times 0.20 = 7.28 \text{ m}^3$$

$$2 \times 7 \text{ No} \times 30 \times \frac{(1.50 + 1.2)}{2} \times 0.20 = 113.40 \text{ m}^3$$

$$= 416.92 \text{ m}^3$$

Adjacent to WBM in BT

$$2 \times 6 \text{ No} \times 30.0 \times \frac{(1.20 + 1.00)}{2} \times 0.075 = 29.70 \text{ m}^3$$

$$2 \times 1 \text{ No} \times 20.0 \times \frac{(1.20 + 1.0)}{2} \times 0.075 = 3.15 \text{ m}^3$$

$$\text{Total} = 449.77 \text{ m}^3$$

$$BF = 417 = 449.77 m^3$$

Sch. XLV-Form No. 13430

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
2x 4 No x 30.0 x 1.0 x 0.075					= 18.0 m ³
2x 1 No x 16.0 x $\frac{(1.2+1.0)}{2}$ x 0.075					= 2.64 m ³
2x 8 x 30.0 x $\frac{(1.2+1.0)}{2}$ x 0.075					= 239.60 m ³
2x 1 No x 14.0 x $\frac{(1.2+1.0)}{2}$ x 0.075					= 2.20 m ³
2x 7 No x 30.0 x $\frac{(1.2+1.0)}{2}$ x 0.075					= 34.65 m ³

Adjacent to U.S.B. (in P.C.)

$$2x 14 No x 30.0 x 0.375 x 0.100 = 31.50 m^3$$

Adjacent to W.B.M.M.

$$2x 14 No x 30.0 x 0.375 x 0.075 = 23.625 m^3$$

Adjacent of P.C.

$$2x 14 No x 30.0 x 0.300 x 0.160 = 40.32 m^3$$

$$\text{Total} = 642.305 m^3$$

(2) Flared Shouldering

= laying bricks setting

layer = 20 - 20

$$2x 19 No x 30.0 x 0.250 = 195.0 m^2$$

$$2x 1 No x 15.0 x 0.250 = 7.50 m^2$$

$$= 202.50 m^2$$

(3) Kilometre Stone

- - - - -

$$\phi + 7 = 2.0 \text{ Nos.}$$

(4) 200 mtr Stone

$$\phi + 7 = 6.0 \text{ Nos.}$$

(5) Boundary Pillar

Winged Post - - - - -

$$\phi + 7 = 27.0 \text{ Nos.}$$

Continuation

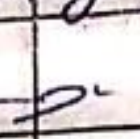
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(5) Providing & fixing of concrete reflecting 600mm equilateral					
Qty = 10.0 Nos.					
(6) 800mm x 600mm rectangle					
Qty = 6.0 Nos.					
(7) 600 x 450 mm rectangle					
Qty = 6.0 Nos.					
(8) Road marking with hot applied thermoplastic					
In B.T. Portion					
$2 \times 12 \text{ Nos} \times 30 \times 0.100 = 72.0 \text{ m}^2$					
$2 \times 10 \text{ Nos} \times 30 \times 0.100 = 60.0 \text{ m}^2$					
$2 \times 4 \text{ Nos} \times 30 \times 0.100 = 24.0 \text{ m}^2$					
$2 \times 1 \text{ Nos} \times 20 \times 0.100 = 4.0 \text{ m}^2$					
Total = 160.0 m ²					
(9) Road marking with hot applied thermoplastic					
In C.C. Portion					
$2 \times 14 \text{ Nos} \times 30.0 \times 0.100 = 84.0 \text{ m}^2$					
$2 \times 1 \text{ Nos} \times 5.0 \times 0.100 = 1.0 \text{ m}^2$					
Total = 85.0 m ²					
(10) Planting of Trees & their maintenance for one year					
Qty = 76.0 Nos.					

Continuation

Continuation

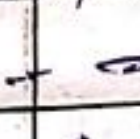
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	

ABSTRACT OF COST

(1) Providing & fixing setting out pillar - 

Qty wire temp P-23 = 2.0 No.

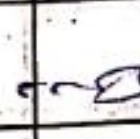
@ RS = 4205.24 / each 2 RS = 8410.200

(2) Providing & fixing of working bench mark reference pillar - 

Qty wire temp P-23 = 4.0 No.

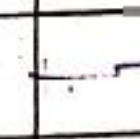
@ RS = 1914.67 / each 2 RS = 7658.70

(3) Clearing & grubbing

Road land - 

Qty wire temp P-23 = 0.86 Hec.

@ RS = 49739.247 / Hec 2 RS = 42725.20

(4) Construction of Embankment for 100 m lead - 

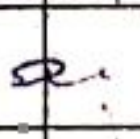
Qty wire temp P-23 = 743.0 m³

@ RS = 187.23 / m³ = RS = 1,39,112.00

(5) Construction of Embankment for 100 m lead -

Qty wire temp P-23 = 854.5 / m³

@ RS = 132.56 / m³ = RS = 1,13,274.20

(6) Construction of subgrade & earthen shoulder - 

Qty wire temp P-24 = 2319.75 m³

Qty wire temp P-30 = 6412.305 m³
= 2962.055 m³

@ RS = 189.60 / m³ = RS = 5,61,606.20

Continuation
(@ RS = 8,72,836.20)

Sch. XLV-Form No. 134					
Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
$BF = RS = 8,72,836.00$					
(7) Providing & laying up					
R.C.C. - 30mm of H.P.C					
Conduct -					
Qty wide Tms P-24 = 30.00					
@ RS = 971.01/m = RS 2,29,130.00					
(8) Providing & fixing masonry					
Logo of Project -					
Qty wide Tms P-24 = 3.00					
@ RS = 10034.90/Each = RS 30,104.00					
(9) Construction of U.S.R.					
With well graded,					
materials					
Qty wide Tms P-24 = 823.30 m ³					
@ RS = 2524.77/m ³ = RS 20,78,656.00					
(10) Providing, laying &					
Spreading & curb					
WBM m ² -					
Qty wide Tms P-25 = 351.42 m ³					
@ RS = 4040.72/m ³ = RS 14,19,980.00					
(11) Earthwork in excav					
in form -					
Qty wide Tms P-25 = 59.60					
@ RS = 285.71/m ³ = RS 17,028.00					
(12) Providing M.S for					
leveling course -					
Qty wide Tms P-25					
= 9.20 m ³					
@ RS = 5485.57/m ³ = RS 50,430.00					
(13) P.C.C M20 grade in					
in sub structure					
Qty wide Tms P-25 = 67.32 m ³					
@ RS = 6466.81/m ³ = RS 4,35,346.00					
Continuation					
@ RS = 49,33,510.00					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF = RS = 49,335/0 = 00
(14) Providing and laying NR3 Pipe - 1000 mm ϕ , Qty with m3 P-26 = 15.0 m @ RS = 4111.20/m = RS = 61,668 = 00					
(15) Prime Coat - Providing and applying Prime Coat with bitumen etc. Qty with m3 P-26 = 3060.0 m ² @ RS = 55.0/m ² = RS = 1,68,300 = 00					
(16) Tack Coat - Providing and applying Tack Coat Qty with m3 P-26 = 3060.0 m ² @ RS = 18.46/m ² = RS = 56,488 = 00					
(17) MSS - 20 mm thick Type-B, Qty with m3 P-26 = 3060.0 m ² @ RS = 234.40/m ² = RS = 7,17,264 = 00					
(18) Construction of P.C.C. M30 grade of concrete Qty with m3 P-26 = 260.10 m ³ @ RS = 6640.66/m ³ = RS = 17,27,236 = 00					
(19) Hand Skouldering Laying brick soling Qty with m3 P-30 = 202.50 m ² @ RS = 525.75/m ² = RS = 1,06,464 = 00 Co. RS = 77,70,930 = 00					

Continuation

Particulars	Details of actual measurement			Contents of area
	No.	L	B	
				$BF \times PS = 77,70,930.20$
(20) Kilometre Stone				
Qty wire Tm3 P-30 = 2.0				
@ PS = 2261.73 / each = PS = 4523.20				
(21) 200m Stone				
Qty wire Tm3 P-30 = 6.0				
@ PS = 650.75 / each = PS = 3904.20				
(22) Painting & fitting of legs of post				
(22) Traffic sign -				
600mm square				
Qty wire Tm3 P-31 = 10.0m				
@ PS = 4045.70 / each = PS = 40457.20				
(23) 800 x 600mm rectangle				
Qty wire Tm3 P-31				
			= 6.0m	
@ PS = 7712.20 / each = PS = 46,273.20				
(24) 600mm x 450mm				
Qty wire Tm3 P-31 = 6.0				
@ PS = 5335.77 / each = PS = 32,015.20				
(25) Road marking with hot applied thermom in BT.				
Qty wire Tm3 P-31 = 160.0m ²				
@ PS = 850.93 / m ² = PS = 1,36,149.20				
(26) Road marking with hot applied - - -				
Qty wire Tm3 P-31 = 88.0m ²				
@ PS = 953.99 / m ² = PS = 8,1089.20				
@ PS = 8,15,340.20				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF = RS = 81,15,340.20
27) Planting of Trees					
there maintenance for					
one year					
Qty wile TmB R 31.76.00					
@ RS 749.73/Each					RS 256,979.20
28) Painting on parapet					
wall two coat					
Qty wile TmB R 32.00					
					= 36.04 m ²
@ RS 2108.98/m ²					RS = 3928.00
29) Boundary Pillar/wall					
Post					
Qty wile TmB R 30.00					
					524.00
@ RS = 530.44/Each					2 RS = 12,731.20
					= 81,88,978.00
Less 10% below					= 8,18,898.00
					= 73,70,080.00
Less Previous paid RS =					67,88,417.00
Net RS =					5,81,663.00

Ranjan
28-01-2021

J.B.

C.B.F.

3/4/21

12-02-21
A.B. B.S.M.

Continuation