

Agency - Santosh Kr. Dubey

Dharmaji 9/0/19

~~Serial~~ **XIV - Pura Na Ma**

1908.1.14.18.19

Section of the

BRUNN P. W. D.

E. E. R. U. D. with Arrangabod **Division**

A. E. B. A. R. U. D. **3rd Division**

NEWSPAPER BOOK No. 2838

Certified That This M.B. Contain (100)
Pages By Printers Machine And Issued
To Sri...Yaduvendra Yadav.....A.E- R.W.D
Work Sub-Div.....BARUN.....

Yaduvendra
10/7/20
Executive Engineer
Rural Works Division, ml
Work Division Barangaba

Subordinate SLV - Form No. 134.

E.E. A. Bad DIVISION.

A.E. BARUN SUB-DIVISION.

MEASUREMENT BOOK.

[2838]

211659

Sri Yaduvendra Yadav A.E. BARUN

Signature of the owner

Signature of the contractor

दिनांक: १०/७/२०

Name of work -

Situation of work -

Agency by which work is executed -

Date of measurement -

No. and date of agreement.

(These four lines should be repeated at the commencement of the measurements relating to each work)

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

I & A Bill

Name of work - Const. of Road

from Barun Nabinagar

Road to Dharmnigola.

Head - mmsy

Name of Agency - Sampash Kr

Dubey village - Harichampur

- Bidern Aurangabad.

Agreement No - 52 SBD/20-21

Agreement Rate - 10% below
of B.O.D. Rate -

Agreement value - 31,90,403.00
(Part - A)

Date of work start - 08.06.2020

Date of Comp. - 08.03.21

Date of measurement.

16-07-2020

(1) Providing & fixing Bench

mark Pillar - 10.21

Qty = 1.0 nos.

(2) Reference Pillar.

Qty = 1.0 nos.

(3) Clearing & grubbing Road.

Length = 100 m

~~8.00 x 30.00~~

Continuation
8.00 x 30.00 x 4.0 = 1680.00 m²

[illegible]

① Earth work in Excavation for foundation.

$$H.W - 2 \times 3.95 \times 1.10 \times 1.30 = 11.29 \text{ m}^3$$

Below Pipe

$$1.20 \times 5.40 \times 1.10 \times 1.0 = 5.94 \text{ m}^3$$

Σ	17.23m ³
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$$\underline{\underline{\text{Sum} = 15.66 \text{ m}^3}}$$

② Providing mix P.C.C
for leveling (1:2:5)

$$\text{Final} = 2 \times 3.95 \times 1.10 \times 0.150 \times 1.30 \text{ m}^3$$

$$1 \times 5.46 \times 1.10 \times 0.250 = 1.485$$

$$\approx 2.825 \text{ m}^3$$

Continuation

Range
22-07-20
JRE

Sch. XLV-Form No. 134

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

Date of measurement

① H.P.C - 60mm ϕ

up to L.L

$$H.P.C = 2 \times 3.65 \times (1.0 + 0.75) \times 1.30$$

$$= 8.30 m^3$$

Range

04.08.20

J.E

Date of measurement

① H.P.C - 60mm ϕ

up to L.L to R.L

$$2 \times 3.60 \times (0.75 + 0.40) \times 1.45$$

$$= 6.00 m^3$$

Parapet -

$$2 \times 3.60 \times 0.40 \times 0.60 = 1.728 m^3$$

Less for H.P.C

$$2 \times \frac{\pi}{4} \times (0.830)^2 \times 0.530 = 0.574 m^3$$

$$Total = 7.157 m^3$$

② Drivelling & laying

N.P.3 pipe

Range

15.09.20

J.E

$$= 3 \times 2.50 = 7.50 m$$

Continuation

Range
15.09.20
J.E

② Const of Embankment
with approved material ~
60% of qty = 22.05 m^3

① Providing and laying
R.C.C. - 300 mm ϕ H.P.
for irrigation - - -
2 nos $\times$ 4 nos $\times$ 2.50 = 20.00 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = 477 = 36.75 m^3$
<u>Extra for Profile (m³)</u>					
3 Nos	2.10 x	1.0	0.120		$= 0.756 m^3$
4 Nos	7.40 x 2.0 x	0.100			$= 5.92 m^3$
3 Nos	9.0 x	1.50	0.200		$= 8.10 m^3$
1 No	16.0 x 2.10 x	0.100			$= 3.36 m^3$
2 Nos	11.50 x 1.70 x	0.125			$= 4.88 m^3$
					$= 59.77 m^3$
					$Sum = 59.54 m^3$

Ramp
07-12-2020
J.G.

Date of measurement
08.02.2021

(1/10) 1st BM for 3. Provider
laying, spreading and
- - - - -

$$1 \text{ No} \times 16.0 \times \frac{(5.90 + 3.75)}{2} \times 0.075 = 5.79 m^3$$

$$1 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 8.437 m^3$$

$$1 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 8.437 m^3$$

$$4 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 33.75 m^3$$

$$1 \text{ No} \times 30.0 \times (3.75 + 4.80 \times 3.90) \times 0.075 = 9.337 m^3$$

$$2 \text{ No} \times 30.0 \times 3.75 \times 0.075 = 16.875 m^3$$

$$1 \text{ No} \times 22.0 \times (3.75 + 6.0) \times 0.075 = 8.043 m^3$$

Continuation

$$\Rightarrow \text{Qty} = 90.669 m^3$$

$$\therefore \text{bf} = 4 + 7 = 90.669 \text{ m}^3$$

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
1 No x 30.0 x 3.90 x 0.075					28.775 m ³
1 No x 30.0 x $\frac{(3.90 + 3.75)}{2}$ x 0.075					28.60 m ³
1 No x 12.0 x 3.75 x 0.075					23.375 m ³
1 No x 30.0 x $\frac{(6.10 + 3.75)}{2}$ x 0.075					11.08 m ³
2 No x 30.0 x 3.75 x 0.075					16.875 m ³
1 No x 20.0 x 3.75 x 0.075					5.625 m ³

Extrusion

$$1 \text{ No x } 9.20 \times 1.50 \times 0.075 = 1.035 \text{ m}^3$$

$$\text{Qty Total} = 146.061 \text{ m}^3$$

$$\text{Qty Limit. Sur} = 140.57 \text{ m}^3$$

Ranjan
28-02-2021
Jt.

Date of measurement:

14-02-2021

① P.C.C. Construction
of P.C.C M30 grade
of Road pavement

$$1 \text{ No x } 16.0 \times \frac{(5.90 + 3.75)}{2} \times 0.160 = 12.352 \text{ m}^3$$

$$6 \text{ No x } 30.0 \times 3.75 \times 0.160 = 108.0 \text{ m}^3$$

$$1 \text{ No x } 30.0 \times \frac{(3.75 + 4.80 + 3.90)}{3} \times 0.160$$

Continuation

$$= 19.92 \text{ m}^3$$

$$\text{Qty Total} = 140.272 \text{ m}^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$bf = 4.75 = 140.272m^3$
					$2 No \times 30.0 \times 3.75 \times 0.160 = 36.0m^3$
					$1 No \times 22.0 \times \frac{(3.75 + 6.0)}{2} \times 0.160 = 17.16m^3$
					$1 No \times 30.0 \times \frac{(3.75 + 3.90)}{2} \times 0.160$
					$= 18.36m^3$
					$1 No \times \frac{(3.90 + 3.75)}{2} \times 0.160 = 18.36m^3$
					$1 No \times 12.0 \times 3.75 \times 0.160 = 7.20m^3$
					$1 No \times 30.0 \times \frac{(6.10 + 3.75)}{2} \times 0.160$
					$= 23.64m^3$
					$2 No \times 30.0 \times 3.75 \times 0.160 = 36.0m^3$
					$1 No \times 20.0 \times 3.75 \times 0.160 = 12.0m^3$
Endure within					
					$1 No \times 9.20 \times 1.50 \times 0.160 = 2.20m^3$
					$Total = 301.192m^3$
					$Say limit = 299.88m^3$

Range
(14.02.21)
JE

Range
(14.02.2021)
JE

Date of measurement
02.02.2021

① Hand Shauldaring
Laying brick Siding layer

Both sides
Left side

$$1 No \times 15.0 No \times 30.0 \times 0.250 = 112.50m^2$$

$$1 No \times 20.0 \times 0.250 = 5.0m^2$$

$$= 117.50m^2$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Right side					$57.947 = 117.50m^2$
1 X 15 No x 30.0 x 0.250					$= 112.50m^2$
					$= 230.00m^2$

② kilometre stn

Ramp
02.02.2021
JLDate of work
27.02.2021① Construction of subgrade
and earthen shoulder

Adjacent of M.S.B.

$$2 \times 8.00 \times 30.0 \times 0.375 \times 0.10 = 18.00m^3$$

$$2 \times 5.00 \times 30.0 \times 0.375 \times 0.10 = 11.25m^3$$

$$2 \times 13.00 \times 30.0 \times 0.375 \times 0.10 = 6.75m^3$$

$$2 \times 1.00 \times 10.0 \times 0.375 \times 0.10 = 0.75m^3$$

Adjacent of M.O.M.M.

$$2 \times 6.00 \times 30.0 \times 0.375 \times 0.10 = 13.50m^3$$

$$2 \times 5.00 \times 30.0 \times 0.375 \times 0.075 = 8.437m^3$$

$$2 \times 1.00 \times 10.0 \times 0.375 \times 0.075 = 0.562m^3$$

$$2 \times 3.00 \times 30.0 \times 0.375 \times 0.075 = 5.062m^3$$

Adjacent of P.G.C.

$$2 \times 8.00 \times 30.0 \times 0.375 \times 0.160 = 28.80m^3$$

$$2 \times 3.00 \times 30.0 \times 0.375 \times 0.160 = 10.80m^3$$

$$\text{Total} = 108.909m^3$$

① Const of subgrade and

⑦ Earthen shoulder for

$$(1000m \text{ lead}) = 36.93m^3$$

⑧ Subgrade for (1000m lead)

Continuation

$$= 67.909m^3$$

Ramp
27.02.21
JL

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Date of measurement					
04.03.21					

① Construction of Embankment for 100 m level, as per Graph

CH-	C/S Area	Avg Area	L	Volume
0+0	3.800	—	—	—
50+0	3.795	3.797	50	189.875 m ³
100+0	3.960	3.877	50	193.875 m ³
150+0	4.00	3.98	50	199.0 m ³
200+0	3.820	3.91	50	195.50 m ³
250+0	3.840	3.83	50	191.50 m ³
300+0	3.700	3.77	50	188.50 m ³
350+0	3.720	3.71	50	185.50 m ³
400+0	3.380	3.55	50	177.50 m ³
450+0	3.750	3.565	50	178.25 m ³
490+0	3.100	3.425	40	137.0 m ³
Total Qty =				1836.50 m ³

Deduction Qty.

(1) P.C.C =	299.88 m ³
(2) W.B.M. =	140.57 m ³
(3) W.S.B. =	59.54 m ³
(4) Subgrade =	103.90 m ³
(5) Hand Soling =	28.75 m ³
For 100 m level Total =	1203.85 m ³

Ranjit
04.03.21
Jr

Continuation

Sch. XLV-Form No. 134

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

Date of measurement

06.03.2021

(1/13)

kilometre stone.

Qty = 2.0 Nos.

(2/14)

200mm stone.

Qty = 2.0 Nos.

(3/15)

Painting & Fixing

logo of Project

Qty = 4.0 Nos.

(4/16)

Boundary pillar

Qty = 16.0 Nos.

(5/18)

Red reflective

Traffic cone

600mm dia

Qty = 2.0 Nos.

(6/19)

600mm circular

Qty = 2.0 Nos.

(7/20)

800mm x 600mm Rectangle

Qty = 2.0 Nos.

(8/21)

600mm x 450mm

Rectangle

Qty = 2.0 Nos.

(9/22)

900mm side octagonal

Qty = 2.0 Nos.

(10/23)

Road marking with

Hot applied Thermoplastic

-

$$2 \times 16 \text{ Nos} \times 30.0 \times 0.1 \text{ m} = 96.0 \text{ m}^2$$

$$2 \times 1 \text{ Nos} \times 10.0 \times 0.1 \text{ m} = 2.0 \text{ m}^2$$

$$= 98.0 \text{ m}^2$$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
11/29 Painting on Parapet wall - 20 - 20 - 20 - 20					
Top - 2 x 3.60 x 0.40 = 2.88 m ²					
I/S = 2 x 3.60 x 0.60 = 4.32 m ²					
O/S = 2 x 3.60 x 0.50 = 3.60 m ²					
Ends = 2 x 2 x 0.40 x 0.60 = 0.96 m ²					
Total = 11.68 m ²					

Ranjan
06.03.21
JH

06.03.21
A2

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
$B.F = P.S = 235,745 = 0$					
7/7 Const. of Subgrade and earthen shoulder for (100m lead.)					
Qty wide trans P-8 = 36.93 m ³					
@ P.S = 176.58 / m ³ = P.S = 6521.20					
8/8 Const. of Subgrade and earthen shoulder for (100 m lead)					
Qty wide trans P-8 = 67.90 m ³					
@ P.S = 141.17 / m ³ = P.S = 9587.00					
9/9 L.S.B - Const. of L.S.B with well graded material					
Qty wide trans P-5 = 59.54 m ³					
@ P.S = 2339.87 / m ³ = P.S = 139316.00					
10/10 W.B.M hr 3, Providing laying, spreading & ...					
Qty wide trans P-6 = 140.57 m ³					
@ P.S = 3643.60 / m ³ = P.S = 512181.00					
11/11 Cement Concrete Pavement - Const. of P.C.C M30 grade of ...					
Qty wide trans P-7 = 299.88 m ³					
@ P.S = 5859.85 / m ³ = P.S = 1757252.00					
$10 P.S = 2660,602 = 0$					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					BF-123=2660.602 sq
(12/12) Hand Shouldering -					
laying brick soling					
layer - D. - All					
Qty wide Tms P-8=230.0m ²					
@ Rs=543.78/m ² =Rs=125069=00					
(13/13) Kilometre Stone.					
Qty wide Tms P-10=2.0					
@ Rs=1958.66/each=Rs=3917=00					
(14/14) 200 mm stone					
Qty wide Tms P-10=2.0					
@ Rs=546.82/each=Rs=1094=00					
(15/15) Bridging & Fixing					
laying Project					
Qty wide Tms P-10=4.0					
@ Rs=9189.85/each=Rs=36759=00					
(16/17) Boundary Pillar					
Qty wide Tms P-10=16.0					
@ Rs=460.94/each=Rs=7375=00					
(17/18) Retro-Reflectorise					
Truffice Sign					
600mm Equilateral Trussides					
Qty wide Tms P-10=2.0					
@ Rs=3650.21/each=Rs=7300=00					
(18/19) 600mm Circular					
Qty wide Tms P-10=2.0					
@ Rs=4922.12/each=Rs=9844=00					

Continuation

(0) Rs= 28,51,960=00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$Bf-M = 285,1960 = W$
(19/20) 500mm x 600mm Rectangular					
Qty wide Tmp P-10 = 2.0					
@ P1 = 6895.10/each = 14 = 13790 = W					
(20/21) 600mm x 450mm $\square$					
Qty wide Tmp P-10 = 2.0					
@ P1 = 4791.93/each = 14 = 9584 = W					
(21/22) 900mm Side Octagon.					
Qty wide Tmp P-10 = 2.0					
@ P1 = 8817.99/each = 14 = 17636 = W					
(22/23) Road marking with					
hot applied					
Qty wide Tmp P-10 = 98.0m					
@ P1 = 821.29/m ² = 14 = 80486 = W					
(23/24) irrigation pipe - Brind					
-ing & laying of 300					
mm ϕ R.C. H.P.C.					
Qty wide Tmp P-4 = 20.0					
@ P1 = 853.91/m = P1 = 17078 = W					
(24/25) Earth work in excavation					
for foundation					
Qty wide Tmp P-2 = 15.66m ³					
@ P1 = 269.32/m ³ = 14 = 4218 = W					
(25/26) Providing A.C.C M15					
in leveling					
Qty wide Tmp P-2 = 2.825m ³					
@ P1 = 4565.81/m ³ = 14 = 12898 = W					
Continuation					
(P1 = 30,07,650 = W)					

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = RS = 30,07,650 = \infty$
(26/27) Providing R.C.C M30 in sub structure					
Qty wide Tms P-3 = 8.30 m ³					
Qty wide Tms P-3 = 7.157 m ³					
					$= 15.457 \text{ m}^3$
					$\text{Unit} = 15.17 \text{ m}^3$
(27/28) 249.32/m³ = 11.2					
@ M = 5356.34/m ³ = 81256 = ∞					

(27/28) Providing & laying N.P. 3 600 mm ϕ pipe					
Qty wide Tms P-3 = 7.50 m					
@ RS = 912.75/m ² = 11.2					6846 = ∞
(28/29) Painting on Pucca wall					

Qty wide Tms P-11 = 11.68 m ²					
@ RS = 97.19/m ² = 11.2					1135 = ∞

G.T. Total = 30,96,887 = ∞					
Add 12.1.4. S.T. & = 3,71,626 = ∞					
Add 1.1. L.C. (+) = 30,969 = ∞					
Total = 34,99,482 = ∞					
Less 10.1. below (-) = 3,49,948 = ∞					
Net P.S. = 31,49,534 = ∞					

Rm
 08.05.21
 J.E.
 C.B.P.
 28/10/21
 21.10.21
 A.S.D.
 Continuation