

for Khushboo Kumari

Jobardian Paded to Middle School -

~~Jobardian Paded to Middle School -~~

M.M.H.Sy

DEAR P. W. D.

E.E. Road Work Arranged Division

Assistant Engineer S.D. Division

Work Sub Division - BARUA

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2591

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K. Yadvendra A.E. R.W.D Work
Sub Division Barun

Ymk
10/7/20
Executive Engineer
Rural Works Division, ni
Works Division, Awaragaba
10/7/20



Schedule XLV - Form No. 134.

G.E. R.W.D A.BAG Division.

Assistant Engineer Sub-Division.

R.W.D Work Sub Division - BARUN

MEASUREMENT BOOK.

222281

2591

Sri Krishan K. Yadvendra

A.E. Subdivision BARUN

Date of first entry _____

Date of last entry _____

पिठा पत्रिका देल, मल :

Particulars	Details of actual measurement				Lengths of area
	No.	L	B	D	
2nd 2 ^{1st} Bill					15
Name of work - Construction of.					
Road from Gokarathun Pahar					
to middle School under					
(Mmussy) S.K					
Name of Agency - Smt. ^{Rhusbp} Khusbp					
Kumari, village - Bakan					
Aurangabad					
Agreement No - 07-SB/pca-21					
Agreement Rate - 10% below					
of B.O.G. Rate -					
Estimate cost - 43,76,169 = 00					
Agreement value - 39,38,552 = 00					
Part (A)					
Date of work start - 08-06-20					
Date of completion - 08					
= 07-03-2021					
Date of measurement -					
24-12-2020					
(1/5) Construction of subgrade					
and Earthen shoulder.					
- - - - - All up.					
Adjacent to P.C.C.					
$2 \times 2.0 \text{ m} \times 30.0 \times 0.375 \times 0.160$					
= 7.20 m ³					
$2 \times 1.1 \text{ m} \times 30.0 \times 0.375 \times 0.160$					
= 39.60 m ³					
$1 \times 3 \text{ m} \times 30.0 \times 0.375 \times 0.160$					
= 5.40 m ³					
$1 \times 2 \text{ m} \times 30.0 \times 0.375 \times 0.160$					
= 3.60 m ³					

Continuation
(0.44) = 55.80 m³

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = 47.7 = 55.80 m^3$
					$2 \times 2.0 \times 30.0 \times 0.275 \times 0.140$
					$= 7.20 m^3$
					$2 \times 1.10 \times 10.0 \times 0.275 \times 0.140$
					$= 1.20 m^3$
					$CF + TT + PF = 64.20 m^3$

Room

24-12-2020
S.E.

Date of measurement

27-01-2021

(1/11)

Hand Shovel work
laying brick Soling.

Laying on Parapet

Prepared submural

- - - - -

$$2 \times 2.0 \text{ No} \times 30.0 \times 0.250 = 30.0 m^2$$

$$2 \times 11.0 \text{ No} \times 30.0 \times 0.250 = 165.0 m^2$$

$$1 \times 3.0 \text{ No} \times 30.0 \times 0.250 = 22.50 m^2$$

$$2 \times 2.0 \text{ No} \times 30.0 \times 0.250 = 30.0 m^2$$

$$2 \times 2.0 \times 30.0 \times 0.275 = 30.0 m^2$$

$$2 \times 1 \text{ No} \times 10.0 \times 0.250 = 5.0 m^2$$

$$= 282.50 m^2$$

(2/12)

Kilometre stone

Qty = 2 Nos.

(3/12)

200m Stone

Qty = 2.0 Nos.

(4/23)

Painting on Parapet wall

Top - 2 x 3.60 x 0.40 = 2.88 m²Side - 2 x 2 x 3.60 x 0.60 = 3.64 m²End - 4 x 0.40 x 0.60 = 0.96 m²

$$= 12.48 m^2$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
14 13 Providing and fixing lego of mmsy pms Qty = 2.0 Nos.					
5 15 Boundary pillar ward post -- 50 mm Qty = 16.0 Nos.					
6 16 Providing & fixing of retro-reflectorise. -- 50 mm post. 600 mm equilateral triangle Qty = 4.0 Nos.					
7 17 600 mm rectangle Circular Qty = 4.0 Nos.					
8 18 600 mm x 600 mm rectangle -- Qty = 2 Nos					
9 19 600 mm x 450 mm rectangle -- Qty = 2.0 Nos.					
10 20 900 mm side Octagon. -- Qty = 2.0 Nos.					
11 21 Road marking with Hot Applied C.C. Part					

$$2 \times 20 \text{ Nos} \times 300 \text{ mm} \times 0.1 \text{ m} = 120.0 \text{ m}^2$$

$$2 \times 1 \text{ No} \times 10.6 \text{ m} \times 0.1 \text{ m} = 2.0 \text{ m}^2$$

$$= 122.0 \text{ m}^2$$

Ram
27-01-2021
S.E

29-01-21
AD

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

ABSTRACT OF

① Construction of Embankment

- ment with approved

materials. as per

as per graph.

CH (m)	C/S Area (m ²)	Avg Area (m ²)	L (m)	Volume (m ³)
0.00	4.081	—	—	—
50.0	4.071	4.076	50	203.80
100.0	4.325	4.198	50	209.90
150.0	4.210	4.267	50	213.375
200.0	4.180	4.195	50	209.75
250.0	4.167	4.173	50	208.675
300.0	3.912	4.039	50	201.975
350.0	3.821	3.866	50	193.325
400.0	3.755	3.788	50	189.40
450.0	3.982	3.868	50	193.425
500.0	3.830	3.906	50	195.30
550.0	3.667	3.748	50	187.425
600.0	2.830	3.248	50	162.42
610.0	2.116	2.473	10	24.73
Total Qty =				2393.50 m ³

Deduction Qty1) L.S.B = 68.49 m³2) W.B.M = 146.31 m³3) P.C.C = 373.32 m³4) Hand Shoulder = 262.5 m³5) Subgrade = 144.45 m³Net Qty = 1634.68 m³

① Embankment Qty.

for 1000m length = 1634.68 m³

Continuation

Ranjan
28-01-2021
28-01-202129-01-21
Aad

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

ABSTRACT OF COST.

① Provision and fixing of
working bench mark

Reference pillar - 1 -

Qty wide Tms P-10 = 1.0 No.

@ RS = 3821.52 / each = RS = ~~3821.52~~ 3822 = 00

② Reference pillar -

Qty wide Tms P-10 = 2.0 No.

@ RS = 1729.55 / each = RS = 3459 = 00

③ Clearing & grubbing Road
land - 1 - 100 - 100 - 100

Qty wide Tms P-10 = 0.43 Hec

@ RS = 51133.76 / Hec = RS = 21988 = 00

④ Box-cutting of Embankment
with materials - 100 - 100 - 100

Qty wide Tms P-10 = 52.78 m³

@ RS = 74.16 / m³ = RS = 3914 = 00

⑤ Construction of Embankment
- ment with materials -

60% of cut

Qty wide Tms P-10 = 31.67 m³

@ RS = 26.11 / m³ = RS = 827 = 00

⑥ Construction of Embankment
- ment up to 1000m

local - 100 - 100 - 100

Qty wide Tms P-10 = 1634.68 m³

@ RS = 174.94 / m³ = RS = 2,85,971 = 00

Continuation
@ RS = 3,19,981 = 00

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

$$BF = RS = 319,981 = \infty$$

(7) Construction of subgrade
and Earthen shoulder
for (1000 m lead)
- - - All comp.

$$Qty \text{ wide Tmp P-11} = 45.98 m^3$$

$$@ RS = 176.55/m^3 = RS = 8119 = \infty$$

(8) Construction of subgrade
and Earthen shoulder
for (100 m lead) - - -
- - - All comp.

$$Qty \text{ wide Tmp P-11} = 39.27 m^3$$

$$Qty \text{ wide Tmp P-16} = 64.20 m^3$$

$$= 98.47 m^3$$

$$@ RS = 1411.7/m^3 = RS = 13901 = \infty$$

(9) Construction of L.S.B
with well graded materials
- - - All comp.

$$Qty \text{ wide Tmp P-11} = 68.49 m^3$$

$$@ RS = 2370.05/m^3 = RS = 162325 = \infty$$

(10) L.B.M - Ur-3 - Providing,
laying, Spreading and
compacting, stone - - - PL

$$Qty \text{ wide Tmp P-11} = 146.31 m^3$$

$$@ RS = 3591.52/m^3 = RS = 525,475 = \infty$$

(11) P.C.C - M30, Construction
of P.C.C M30 grade of
Comp. - - -

$$Qty \text{ wide Tmp P-11} = 373.32 m^3$$

$$@ RS = 5921.26/m^3 = RS = 22,10,525 = \infty$$

Continuation

$$Total RS = 32,40,326 = \infty$$

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

$$BF = PB = 32,40,326 = \infty$$

(12) Hand Shoudering

- laying Brick soling

laying on prepared

- - - - - success

$$Qty \text{ wide } TmP-16 = 282.50 m^2$$

$$@ PB = 543.78/m^2 = 15 = 1,53,618 = \infty$$

(13) kilometre stone

$$Qty \text{ wide } TmP-16 = 2.0 m$$

$$@ PB = 1976.57/each = 15 = 3953 = \infty$$

(14) 200mm stone

$$Qty \text{ wide } TmP-17 = 2.0$$

$$@ PB = 550.11/each = 15 = 1100 = \infty$$

(15) Providing & Fixing

Logo of mmst

Project - - - - -

$$Qty \text{ wide } TmP-12 = 2.0$$

$$Qty \text{ wide } TmP-12 = 2.0$$

$$= 4.0$$

$$@ PB = 9206.52/each = 15 = 36426 = \infty$$

(16) Boundary Pillar

lunch post - - - - -

$$Qty \text{ wide } TmP-17 = 16.0$$

$$@ PB = 462.47/each = 15 = 7399 = \infty$$

(17) Providing & Fixing of

600mm circular

$$Qty \text{ wide } TmP-17 = 4.0$$

$$@ PB = 3658.54/each = 15 = 14,634 = \infty$$

(18) 600mm circular

$$Qty \text{ wide } TmP-17 = 4.0$$

$$@ PB = 4930.45/each = 15 = 19727 = \infty$$

Continuation

$$(10) PB = 34,77,178 = \infty$$

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

$$BF = RS = 31.77, 178 = \infty$$

19/16 300 mm x 600 mm rectyle.

$$Qty \text{ wide } Tms P-17 = 2.0 \text{ no}$$

$$@ RS = 6903.43 / \text{each} = RS = 13807 = \infty$$

20/18 600 x 450 mm rectyle.

$$Qty \text{ wide } Tms P-17 = 2.0 \text{ no.}$$

$$@ RS = 4800.26 / \text{each} = RS = 9601 = \infty$$

21/16 700 mm side octagon

$$Qty \text{ wide } Tms P-17 = 2.0$$

$$@ RS = 8826.32 / \text{each} = RS = 17653 = \infty$$

22/12 Road marking with
hot applied

L.C. portion

$$Qty \text{ wide } Tms P-17 = 122.0 \text{ m}^2$$

$$@ RS = 821.29 / \text{m}^2 = RS = 100197 = \infty$$

23/18 irrigation pipe - 300 mm ϕ .

Providing and laying of
a reinforced, cement concret.

pipe duct - 300 mm ϕ .

$$Qty \text{ wide } Tms P-12 = 20.0 \text{ m}$$

$$@ RS = 852.98 / \text{m} = RS = 17060 = \infty$$

24/19 Earth work in excavation
for foundation - 100 ft

$$Qty \text{ wide } Tms P-5 = 15.66 \text{ m}^3$$

$$@ RS = 269.32 / \text{m}^3 = RS = 4218 = \infty$$

25/20 Providing m/s P.C.C.

of levelling course

$$Qty \text{ wide } Tms \text{ continuation} = 2.85 \text{ m}^3$$

$$@ RS = 4631.93 / \text{m}^3 = RS = 13201 = \infty$$

$$@ RS = 36529 / 5 = \infty$$

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

$$BF = RS = 3652.915 = \infty$$

(26/21)

P.C.C M20 grade

in substructure -

- - - - -

$$Qty \text{ volume } m^3 P-12 = 15.17 m^3$$

$$@ RS = 5416.71 / m^3 = RS = 82171 = \infty$$

(27/22)

Providing & laying

R.C.C Pipe NP-3 formwork

- - - - -

$$Qty \text{ wide } m^2 P-13 = 750 m^2$$

$$@ RS = 910.73 / m^2 = RS = 6830 = \infty$$

(27/23)

Painting on Plaster

wall - - - - -

$$Qty \text{ wide } m^2 P-14 = 12.48 m^2$$

$$@ RS = 244.96 / m^2 = RS = 311 = \infty$$

$$Ln: Total RS = 37,42,227 = \infty$$

$$\text{Add } 12\% \text{ L.S.T. } = (+) = 44,9067 = \infty$$

$$\text{Add } 1\% \text{ L.Cess } = (+) = 37,422 = \infty$$

$$= 42,28,716 = \infty$$

$$\text{Less } 10\% \text{ below } = 42,28,72 = \infty$$

$$Net = 38,05,844 = \infty$$

$$\text{Less Previous Paid } = 34,11,909 = \infty$$

$$\text{Net RS } = 3,93,935 = \infty$$

Ranjan
29-01-2021
J.E.

29.01.2021

AB, Borello

CS

12/2/21