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To Sri. Yedurandra Yadav A.E- R.W.E
Work Sub Div. BAPUN-

YK/10/7/20

Executive Engineer,
Rural Works Division, nt
Work Division, Aurangabad
10/7/20

Schedule XLV - Form No. 134.

EE. A. Bad.

DIVISION.

A.E. BAPUN-

SUB-DIVISION.

MEASUREMENT BOOK.

211558

2860

Name of officer Sri Yedurandra Yadav A.E.

BAPUN-

Date of Form entry

Date of Form entry

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 area
	No.	L	B	D	

Ies & AIC Bill

Name of work - Const. of Road
 from Pitampur Jambher Road to
 Rasulpur Bhuiya talu.

Name of Agency - Ram Narayan
 Singh - Karma Road A. Bud.
 Agreement NO - 123 SBD-20-21

Head - MMSY - S.C

Ag. date of work start - 31.07.20

Date of completion - 30.07.21

Date of measurement

(1) Setting out Pillar.

Benchmark Pillar - 2 nos.

City = 2.0 nos.

(2) Reference Pillar.

Qty = 6.0 nos.

(3) Clearing & grubbing.

Road land.

$$2 \times 6 \text{ Nos} \times 30.0 \times 3.50 = 1260.0 \text{ m}^2$$

$$2 \times 10 \text{ Nos} \times 30.0 \times 3.50 = 2100.0 \text{ m}^2$$

$$2 \times 1 \text{ Nos} \times 21.0 \times 3.50 = 147.0 \text{ m}^2$$

$$2 \times 11 \text{ Nos} \times 30.0 \times 3.50 = 2310.0 \text{ m}^2$$

$$2 \times 1 \text{ Nos} \times 9.0 \times 3.50 = 63.0 \text{ m}^2$$

$$\text{Sum Qty} = 5880.0 \text{ m}^2$$

$$= 0.588 \text{ Hec}$$

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$8 \text{ ft} \times 4 \text{ ft} = 0.5880 \text{ Ha}$
					$2 \times 12 \text{ No} \times 30.0 \times 3.5 = 0.2520 \text{ Ha}$
					<u>Total = 0.84 Ha</u>

(4) Brackling & fixing door
 of bracket - 1
 $4 \text{ ft} \times 2.0 \text{ No} \times 8$

Ramya
 02-12-2020
 J.T.

Date of measurement
 15-12-20

(1) Dismantling of existing
 structure like P.C.C
 $2 \text{ No} \times 3.50 \times 1.54 \times 0.15 = 1.62 \text{ m}^2$

(2) Dismantling of existing
 stone/brick masonry
 $2 \text{ No} \times 2 \times 6.20 \times 0.825 \times 8.0 = 61.38 \text{ m}^3$

(3) Dismantling of existing
 H.P.C - above ground
 $2 \text{ No} \times 1 \times 5.0 = 10.0 \text{ m}$

Ramya
 15-12-20
 J.T.

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

Date of measurement
22-12-20

Construction of 60mm dia. for H.P.C.

① Earth work in excavation
for foundation of structure

$$H.W. = 2 \times 3.90 \times 1.115 \times 1.50 = 13.45 m^3$$

$$\text{Below pipe} = 1 \times 5.350 \times 1.130 \times 0.315 = 2.20 m^3$$

$$= 15.65 m^3$$

② Providing M15 P.C.C. in
foundation for leveling -

$$H.W. = 2 \times 3.90 \times 1.115 \times 0.15 = 1.345 m^3$$

$$\text{Below pipe} = 1 \times 5.311 \times 1.130 \times 0.20 = 1.20 m^3$$

$$= 2.545 m^3$$

③ P.C.C. Raining
22-12-20

J.R.

Date of measurement - 05-01-21

③ P.C.C. M20 in sub-
- structure - 50 m

$$2 \times 3.60 \times \frac{(1.0 + 0.40)}{2} \times 2.780 = 14.011 m^3$$

less for pipe -

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

$$13.437 m^3$$

Raining

05-01-2021

J.R.

④ Providing & laying for.

$$H.P.C. = 3 \times 2.50 = 7.50 m.$$

Raining
10-01-21

Date of measurement
15.01.21

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

Construction of H.P.C
- 620mm ϕ

① Further work in excavation
for for foundation
- - - - -

$$\begin{aligned} \text{H.W.} &= 2 \times 3.900 \times 1.150 \times 1.5 = 13.45 \text{ m}^3 \\ &1 \times 5.350 \times 1.130 \times 0.315 = 2.207 \\ &= 15.66 \text{ m}^3 \end{aligned}$$

② Providing MIS P.C.C
(1:2:5) in deneeling -

$$2 \times 3.90 \times 1.150 \times 0.150 = 1.34 \text{ m}^3$$

$$\begin{aligned} \text{Rebar} &= 1 \times 5.311 \times 1.120 \times 0.212 = 1.25 \text{ m}^3 \\ &= 2.565 \text{ m}^3 \end{aligned}$$

R.M.M.

15.01.21

J.E.

Date of measurement - 20.01.21

③ Providing P.C.C - main
Substructure - - - - -

$$\begin{aligned} \text{H.W.} &= 2 \times 3.60 \times \frac{(1.0 + 0.40)}{2} \times 2.78 = 14.01 \text{ m}^3 \end{aligned}$$

Less for pipe -

$$\begin{aligned} &2 \times \frac{\pi}{4} \times (0.830)^2 \times 0.530 = 0.574 \text{ m}^3 \\ &13.43 \text{ m}^3 \end{aligned}$$

④ Providing & laying for
H.P.C.

$$3 \times 2.50 = 7.50 \text{ m}$$

R.M.M.

20.01.21

J.E.

Continuation

Date of measurement

61.02.21/5

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Const. of 60mm of for H.P.C.					

① Earth work in excavation for foundation.

$$\begin{aligned}
 \text{H.W.} & 2 \times 3.80 \times 1.15 \times 1.50 = 13.11 \text{ m}^3 \\
 \text{Below H.P.} & 2 \times 5.35 \times 1.13 \times 0.40 = 4.836 \text{ m}^3 \\
 & \underline{\hspace{10em}} 15.52 \text{ m}^3
 \end{aligned}$$

② Providing M15 P.C.C (1:2:5) for leveling

$$\begin{aligned}
 \text{H.W.} & 2 \times 3.80 \times 1.15 \times 0.150 = 1.311 \text{ m}^3 \\
 \text{Below H.P.} & 1 \times 5.311 \times 1.130 \times 0.250 = 1.50 \text{ m}^3 \\
 & \underline{\hspace{10em}} = 2.811 \text{ m}^3
 \end{aligned}$$

Run by
05.02.21
J.C.

Date of measurement
05.02.21

③ P.C.C Main Substructure

= W.R.

$$\begin{aligned}
 \text{H.W.} & 2 \times 3.60 \times \frac{(1.0 + 0.40)}{2} \times 2.78 = 14.01 \text{ m}^3
 \end{aligned}$$

less for pipe -

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

$$\begin{aligned}
 \text{Provision of 2 & 1/2" dia. = 15.470 m}^3 \\
 \text{H.P.C. = } & \underline{\hspace{10em}} 13.436 \text{ m}^3
 \end{aligned}$$

$$\text{H.P.C. = } 3 \times 2.50 = 7.50 \text{ m}^3$$

Run by
05.02.21
J.C.

Continuation

Date of measurement

10-02-21

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Const. of 800mm ϕ for					H.P.C

① Earth work in excavation

for foundation

$$H.K. = 2 \times 3.90 \times 1.15 \times 1.50 = 13.40 m^3$$

Below pipe

$$1 \times 5.35 \times 1.130 \times 0.365 = 2.207 m^3$$

$$= 15.66 m^3$$

② Backfilling M.S.P.C. for

leveling

$$H.K. = 2 \times 3.9 \times 1.15 \times 0.150 = 1.345 m^3$$

$$1 \times 5.311 \times 1.130 \times 0.225 = 1.350 m^3$$

$$= 2.695 m^3$$

Remarks

10-02-21

Jr

③ P.C. pipe in sub.

Structure

$$H.K. = 2 \times 3.60 \times (1.0 + 0.40) \times 2.78 = 14.61 m^3$$

less Backfill

$$2 \times \frac{1}{2} \times (0.830) \times 0.530 = 0.574 m^3$$

$$13.437 m^3$$

④ Providing & Laying

R.C.C. Pipe - N.P. 3

$$3 \times 2.50 = 7.50 m$$

Remarks

15-02-21

Jr Continuation

Date of measurement

Sch. XLV-Form No. 134 20-02-2021

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
① Construction of sub-grade & further shoulder					
	1	23.10	30.0	$\frac{7.50 + 6.50}{2} \times 0.300$	
					$= 1449.0 \text{ m}^3$
	1	10.0	$\frac{7.50 + 6.50}{2}$	$\times 0.300$	
					$= 21.0 \text{ m}^3$
					<u>Total = 1470.0 m³</u>

②
Ranjan
20-02-2021
J.A.

Date of measurement 05-03-21

① Construction of u.s.s. with well grading & materials					
	1	23.10	30.0	$\times 4.05 \times 0.200$	$= 558.9 \text{ m}^3$
	1	10	$\times 4.05 \times 0.200$		$= 81.0 \text{ m}^3$
					<u>Total = 567.0 m³</u>

Ranjan
05-03-2021
J.A.

Date of measurement -
08.06.2021

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

(1/546) Construction of
Embankment with
materials - - - - -

a) Per graph

Sta	C/S Area	AVG Area	L	Volume
0+00	5.052	—	—	—
50+00	5.120	5.086	50	254.30 m ³
100+00	5.125	5.122	50	256.125 m ³
150+00	5.130	5.127	50	256.375 m ³
200+00	5.115	5.122	50	256.12 m ³
250+00	5.120	5.117	50	255.875 m ³
300+00	4.982	5.051	50	252.55 m ³
350+00	4.625	4.803	50	240.175 m ³

400+00	5.110	4.867		243.37 m ³
450+00	5.32	5.215		260.75 m ³
500+00	4.950	5.150		257.50 m ³
550+00	4.850	4.916		245.80 m ³
600+00	4.670	4.761		238.05 m ³
650+00	5.130	4.90		245.0 m ³
700+00	5.350	5.24		262.0 m ³
Total =				3523.99 m ³

Deduction qty -

(1) M.S.B = 567.0 m³

(2) Subgrade = 1470.0 m³

Net qty = 1486.99 m³

(1/5) Embankment for 10m
level = 1210.0 m³

(1/6) Embankment for 11.0m
level = 276.99 m³

Continuation
Ranky d
08.06.21
J-E

Scanned with CamScanner

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

ABSTRACT of cost① Setting out Pillar

Qty wide trans P-1 = 2.0

② PS = 3818.42 / each PS = 7636.84

② Reference pillar

Qty wide trans P-2 = 6.0

② PS = 1726.91 / each PS = 10361.46

③ Clearing and grubbing

Road land

Qty wide trans P-2

= 0.84 Hec

② PS = 51133.76 / Hec PS = 42952.21

④ Providing & fixing of
logs of Project

Qty wide trans P-2 = 2.0

② PS = 9192.10 / each PS = 18384.20

⑤ Dismantling of Existing

Structure - P.C.C.

Qty wide trans P-2 = 1.62 m³② PS = 484.74 / m³ PS = 785.00⑥ Dismantling of Existing

Kerel miter/Brick

Qty wide trans P-2 = 0.35 m³② PS = 231.77 / m³ PS = 1422.60⑦ Removing all types
of H.P.C.

Qty wide trans P-2 = 10.0 m

② PS = 236.34 / m PS = 2363.40

② PS = 96708.00

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					Bf = RS = 96708 = ∞
(8) Earth work in excavation for foundation.					
Qty wide Tm P-9					= 15.45 m ³
Qty wide Tm P-4					= 15.66 m ³
Qty wide Tm P-5					= 15.52 m ³
Qty wide Tm P-6					= 15.66 m ³
					= 62.49 m ³
					@ RS = 269.32 / m ³ = RS = 16,830 = ∞
(9) Providing P.C.C (1:2:5)					
M15 grade of conc. in					
leveling					
Qty wide Tm P-3					= 2.565 m ³
Qty wide Tm P-4					= 2.565 m ³
Qty wide Tm P-5					= 2.81 m ³
Qty wide Tm P-6					= 2.695 m ³
					= 10.636 m ³
					@ RS = 4574.72 / m ³ = RS = 48657 = ∞
(10) P.C.C M15 grade of conc. in substructure					
Qty wide Tm P-3					= 13.437 m ³
Qty wide Tm P-4					= 13.43 m ³
Qty wide Tm P-5					= 13.436 m ³
Qty wide Tm P-6					= 13.437 m ³
					= 53.74 m ³
					@ RS = 5351.57 / m ³ = RS = 2,87,593 = ∞
					@ RS = 449,788 = ∞

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
					$BF = 11 = 4,49,788 = \infty$
(11) Borrowing & laying					
AP-3 = 100 ft. c -					
Qty wide tms P-2 = 7.50m					
Qty wide tms P-4 = 7.50m					
Qty wide tms P-5 = 7.50m					
Qty wide tms P-6 = 7.50m					
					$= 30.0m$

$$QPS = 952.63/m^2 \times 15 = 28,579 = \infty$$

(12) Construction of					
Subgrade					
Qty wide tms P-7					
					$= 1470.0m^3$

$$QPS = 176.58/m^2 \times 15 = 2,595.732 = \infty$$

(13) Const. of G.S.B.					
with well graded					
material					
Qty wide tms P-7 = 567.0m ³					

$$QPS = 2303.93/m^2 \times 15 = 34,558.95 = \infty$$

(14) Construction of Embankment for lead (100m lead.)					
Qty wide tms P-8 = 1210.0m ³					

$$QPS = 174.94/m^2 \times 15 = 2,624.1 = \infty$$

(15) Construction of Embankment for 100m lead					
Qty wide tms P-8 = 276.99m ³					

$$QPS = 131.63/m^2 \times 15 = 1,974.45 = \infty$$

$$QPS = 2292.239 = \infty$$

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Total = BF + PS =			22,92,239		= ∞
Add 12% L.S.T (+)					275,069 = ∞
Add 1% L.C (+)				22,922	= ∞
					= 25,90,230 = ∞
Less 10% below (+)					2,59,023 = ∞
Net PS =					23,31,207 = ∞
Ranjan 10-06-2021 Jr. E.					