

Sharwan & Sunny Const. P.V.T.

Kuthumba Neli Nee to Kethari

~~Shree~~ ~~104-7~~ ~~am~~ ~~ke~~ ~~DS~~

Kg. N. S. S. y

THUR. P. W. D.

E. E. R. W. D. W. O. N. ~~Th~~ ~~am~~ ~~gab~~ ~~el~~ ~~DR~~ ~~VI~~ ~~CI~~ ~~ON~~

A. E. Kuthumba. ~~S~~ ~~IO~~ ~~D~~ ~~D~~ ~~I~~ ~~V~~ ~~I~~ ~~S~~ ~~I~~ ~~O~~ ~~N~~

WEASUMMENT. BOOK

Nb [2774]

Certified That This M.B. Contain (100)
Pages By Printing Machine And Issued
To Sri.....Babam Ram.....A.E. R.W.D
Work Sub-Div.....Kutumba.....

[Signature]
10/7/20
Executive Engineer
Rural Works Division, m
Works Division, Aurangabad
[Signature]
10/7/20

Schedule XLV - Form No. 134.

E.C. Abdul DIVISION.

A.E. Kutumba SUB-DIVISION.

MEASUREMENT BOOK

211112

2774

Name of holder Sri Babam Ram A.E.
Kutumba.

Date of form entry _____

Date of last entry _____

विद्यार्थी नाम, पता :

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.	
1st on A/C Bill					
Measurement - Construction of road from					
Kurumbal Mahi Road to					
Kathaniyandhi Road N.M. Galy					
Agency - Shardaam & Sunny					
Construction Pvt Ltd					
Daskiya Mhe Arangasat.					
Agreement - 116/8.B.D/2020-21					
Dated Starting - 02/9/2020					
Dated Completion - 01/9/2021					
Rate - 101.60/m ² for D & R					

Measurement					
① Excavation of					
Working BM Pit - 1					
1x1 = 1 No					
② clearing and grubbing					
roadbed - 12.5					
2x7x30m x 4.0m (w) = 1680m ²					
1x1x30m x 4.5m (w) = 135.00m ²					
2x7x30m x 4.0m (w) = 1680.00m ²					
3x30m x 4.5m (w) = 405.00m ²					
1x1x30m x 4.0m = 120.00 "					
2x10x30m x 3.5m (w) = 2100 "					
2x1x14m x 3.5m = 98.00 "					
					6218.00m ²
③ 62 Heccher					
④ Dismantling of Culvert - 12.5					
⑤ Cement Curb					0.60m ²
⑥ " " " "					1.60m ²

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(37) Dr.					
- d.					
... ..					
(38)					
... ..					
etc - d.					
... ..					22.50 M
(4) Excavation for					
- d.					
2x 11x30m x 0.55m x 0.10m = 36.30 M ³					
2x 1x20m x 0.55m x 0.10m = 2.20 M ³					
... ..					38.50 M ³
(5) Cost of					
- d.					
... ..					
... ..					
... ..					22.05 M ³
(7.8) Cost of					
... ..					
- d.					
8x30m x 7.26m x 0.30m = 523.87 M ³					
Cost of					
(31)					
... ..					
H.W. 3x2x6.45m x 1.40m x 1.50m = 81.27 M ³					
... ..					
... ..					89.50 M ³
(32)					
(1:2.5:5) in					
H.W. 3x2x6.45m x 1.40m x 0.15m = 8.127 M ³					
... ..					
... ..					13.85 M ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(28) <u>Calculation of concrete work</u> <u>for slab - d. 12</u>					
$3 \times 2 \times 6.15 \times 0.825 \times 3.18 = 96.81 \text{ m}^3$					
$4 \times 3 \times 2 \times 6.15 \times 0.40 \times 0.62 = 9.15 \text{ m}^3$					
					105.96 m ³
<u>Less for d. 12</u>					
$3 \times 2 \times 0.7857 \times (1.23)^2 \times 0.622 = 4.44 \text{ m}^3$					
					101.52 m ³
(29) <u>Calculation of</u> <u>green B. for 150mm</u> <u>d. - d. 12</u>					
$3 \times 3 \times 2.50 = 22.50 \text{ m}$					
(30) <u>Calculation of</u> <u>200mm dia. for 150mm</u> <u>d. - d. 12</u>					
$2 \times 3 \times 2.50 = 15 \text{ m}$					
$1 \times 2 \times 2.50 = 5 \text{ m}$					
					20.00 m
(31) <u>Calculation of</u> <u>constant of 150mm</u> <u>d. - d. 12</u>					
$4 \times 3 \times 2.50 = 30 \text{ m}$					
<u>Calculation of</u> <u>150mm dia. for 150mm</u> <u>d. - d. 12</u>					
S.N. dia	Area	Mean Area	Length	Volume	
	m ²	m ²	m	m ³	
1	0	3.129			
2	50	3.212	3.171	50	158.525
3	100	2.009	2.611	50	130.525
4	150	3.229	2.644	50	132.200
5	200	2.911	3.095	50	154.75
6	250	1.325	2.118	50	105.90
7	300	2.080	1.703	50	85.125
8	350	2.180	2.130	50	106.50

Continuation

S.N.	Particulars	Details of actual measurement				Contents of area
		No.	L	B	D	
	Cha	Fill area in m ²	Man Area in m ²	Length in m	B.Poly	Volume in m ³
9	400	3.216	2.898	50		134.90
10	450	0.385	1.801	50		90.025
11	500	0.290	0.338	50		16.875
12	550	0.00	0.145	50		7.250
13	582	0.00	0.00	32		0.00
14	0	0.988				
15	50	1.591	1.288			64.40
16	100	2.485	2.038			101.900
17	150	1.811	1.998			99.900
18	200	0.794	1.153			57.625
19	250	2.005	1.400			69.975
20	300	1.850	1.928			96.875
21	314	1.960	1.505			26.670
				Total		1639.420 m ³

Lead - 1000M - 635.44 m³

Lead - 1000M - 1004.00 m³

2.6121
J-E

Measurement

①/16 Working ground level

Length G.S.D 9(1) - 0.21

Width 2x12m x 3 to 0.55 x 0.10m = 4.26 m³

Time 2x8m x 0.55 to 1.50 x 0.10 = 1.64 m³

Time 2x10m x 1.25 to 0.58 x 0.10m = 1.80 m³

Time 2x8x21m x 0.50m x 0.10m = 4.20 m³

① 11.90 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
Topsoil over lumpy	1x12m	$\frac{9+4.10}{2}$	$\times 0.10m$		$7.86m^2$
Turning					
	1x8m	$\frac{6+4.10}{2}$	$\times 1.0m$		4.04
Turning	1x10.0m	$\frac{5.50+4.10}{2}$			4.80
Waste Rate	2x21m	$\times 4.0m$	$\times 0.10m$		$16.80m^2$
		(B)			$33.50m^2$
over lumpy	1x6x30m	$\times 3.80m$	$\times 0.10m$		$68.48m^2$
	1x1x8m	$\times 3.80m$	$\times 0.10m$		$3.04m^2$
	1x10x30m	$\times 4.10m$	$\times 0.10m$		$123.00m^2$
	1x1x22m	$\times 4.10m$	$\times 0.10m$		9.02
	1x8x30m	$\times 4.05m$	$\times 0.20m$		$194.40m^2$
	1x14m	$\times 4.05m$	$\times 0.10m$		$5.67m^2$
	1x2x30m	$\times 3.75m$	$\times 0.10m$		$22.50m^2$
		(C)			$222.52m^2$

① Gravel

1x8.30m	$\times 1.75m$			$14.52m^2$
1x9.15m	$\times 1.65m$			15.10
2x7m	$\times 2.0m$			28.00
1x7.85m	$\times 1.5m$			11.77
2x5m	$\times 2m$			$20.00m^2$
				$89.40m^2$

Volume = $89.40m^2 \times 0.10m = 8.94m^3$

Total G.S. Blank area

$$= (A) + (B) + (C) + (D) = 510.96m^2$$

② Gravel

and surface of

W.B.M. of 3-d B.I.

At Joints	1x12m	$\frac{8.80+4.10}{2}$		$76.80m^2$
		2		

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
1. Trench 1x8m x 5.90+4.0m = 76.80m ²					39.60m ²
" 1x10m x 5.50+4.0m = 47.50m ²					
2x2m x 4m (cur) = 168.00m ²					
1x6x30m x 3.5m = 67.50m ²					
1x1x8m x 3.2m = 30.40					
1x10x30m x 3.80m = 1120.00					
1x1x20m x 3.80m = 83.60					
1x2x20m x 3.5m = 235.90					
1x8x30m x 3.5m = 900.00					
1x14m x 3.75m = 52.50m ²					
					3418.00m ²

$$\text{Value} = 3418m^2 \times 0.075m = 256.35m^3$$

(7.8) ~~Sub-structure~~

~~excavation~~

~~at~~

~~at~~

2x19x30m x 1.20m (cur) x 0.075m

= 102.60m²

2x1x24m x 1.20m x 0.075m = 4.32m³

2x19x30m x 1.40m x 0.20m = 319.20m³

2x1x24m x 1.40m x 0.20m = 13.44m³

2x8x30m x 0.50m x 0.175 = 42.00m³

2x1x10m x 0.50m x 0.175 = 1.75m³

483.31m³

TH Sub-structure and Bottom

shoulder = 2523.87m³

" " " 483.31

1007.18m³

Qty of 100mm = 625.44m³ 309.41m³

Qty of 100mm = 290.20m³ 697.77m³

(8) Sub-structure

of 100mm

Continuation

Sch. XLV-Form No. 134

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Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
④ Const of embankment - d dip slope at 1:1 - d @ 1/2 m ² per m ³ (2)					
					= 22.08 m ²
@ 26 = 11/m ² - R					575.20
⑤ Const of embankment - d borrow pit - d leading to 100m d. @ 1/2 m ² per m ³ (2)					
					= 1004.00 m ²
@ 121 = 0.3/m ² R					131.54
⑦ Const of embankment - d borrow pit - d leading to 1000m @ 1/2 m ² per m ³ (2)					
					= 635.44 m ²
@ 174 = 94/m ² - R					1111.64 = 0
⑧ Const of earth shoulder - d 100m @ 1/2 m ² per m ³ (6)					
					= 309.41 m ²
@ 176 = 0.8/m ² - R					546.23 = 0
⑨ Const of earth shoulder - d 100m @ 1/2 m ² per m ³ (6)					
					= 697.77 m ²
@ 14127/m ² - R					9850.4 = 0
⑩ Layer - d G.S. (1) - d 1/1 @ 1/2 m ² per m ³ (5)					
					= 510.96 m ² - R
@ 2671 = 84					R-1365203 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(14) Survey of N.P. M.Y. - 3					
— d. 512					
Area T.M.B. No. ②					
= 256.35 m ²					
① 37.99 = 90 m ² R. 974104 =					
(15) Survey of N.P. M.Y. - 4					
— d. M.M. G.S. 4					
578 m Bnd - d					
Area T.M.B. No. ②					
= 256					
① 307 = 20 m ² R. 18614 =					
(16) Survey of N.P. M.Y. - 5					
300 m d. R. 11 m					
Area T.M.B. No. ②					
= 20 m					
① 902 = 46 m ² R. 18049 =					
(17) Survey of N.P. M.Y. - 6					
for boundary - d					
Area T.M.B. No. ②					
= 89.40 m ²					
① 289 = 32 m ² R. 24077 =					
(18) Survey of N.P. M.Y. - 7					
quad in field - d					
Area T.M.B. No. ②					
= 13.80 m ²					
① 5031248 m ² R. 69434 =					
(19) Survey of N.P. M.Y. - 8					
Sub. Inland - d					
Area T.M.B. No. ②					
= 105.96 m ²					
① 5824 = 16 m ² R. 617128 =					

Continuation

