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R.W.D. Wany Sub - Div - Kutchumb.

Executive Engineer

Rural Works Division, nt

Works Division Aurangabad

5/12/19

Schedule XLV - Form No. 134.

E.E. Aurangabad. DIVISION.

A.E. Kutchumb. SUB-DIVISION.

MEASUREMENT BOOK

2523

511189

Name of owner Sri Baban Ram A.E. Kutchumb.

Date of first entry

Date of last entry

Page number of the book :

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
3rd cut and fill					
N/w - construction of road from					
NH-139 Nerrur to Simara					
Chandampure.					
Agency - Sri Bhim Singh.					
CNCL Sl. No - 25(SO 48)					
Agreement No - 43 SBD/2019-20.					
Date of work start - 10/11/2019					
Date of completion - 09/11/2020.					
Date of entry -					
Measurement -					
① Construction of					
G.S.B.					
$1 \times 11 \times 4.05 \times 0.20 =$					8.91 m^3
$1 \times 9 \times 4.05 \times 0.10 =$					3.65 m^3
$1 \times 8 \times 1.00 \times 0.10 =$					0.80 m^3
widening & expansion.					
$5 \times 20 \times 0.90 \times 0.10 =$					9.00 m^3
1 x 20 x 0.75 x 0.10 =					1.50 m³
					22.26 m^3
② Providing and laying					
1:3:6 Gravel - (11)					
$1 \times 20 \times 3.75 \times 0.075 =$					5.63 m^3
and surfacing curve.					
S.T. $5 \times 20 \times 0.60 \times 0.075 =$					4.50 m^3
c.c. $1 \times 9.00 \times 1.50 \times 0.075 =$					1.01 m^3
$1 \times 11 \times 1.30 \times 0.075 =$					1.07 m^3
$2 \times 6.15 \times 0.85 \times 0.075 =$					0.78 m^3
					12.99 m^3
③ Construction of Cement					
Concrete pavement					
M-30					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	'D	
1 x 15.00 x 3.75 x 0.160 =					9.00 m ³
width of					
9.00 x 1.50 x 0.16 =					2.16 m ³
11.00 x 1.30 x 0.16 =					2.28 m ³
2 x 6.15 x 0.85 x 0.16 =					1.67 m ³
					<u>15.11 m³</u>

④ Providing and apply

Primer coat (SS-1)

25 x 30 x 3.75 =	2812.50 m ²
25 x 30 x 3.75 =	2812.50 m ²
10 x 30 x 3.75 =	1125.00 m ²
1 x 20 x 3.75 =	75.00 m ²
5 x 20 x 0.60 =	60.00 m ²
	<u>6885.00 m²</u>

⑤ Providing and apply

tack coat

25 x 30 x 3.75 =	2812.50 m ²
25 x 30 x 3.75 =	2812.50 m ²
10 x 30 x 3.75 =	1125.00 m ²
1 x 20 x 3.75 =	75.00 m ²
5 x 20 x 0.60 =	60.00 m ²
	<u>6885.00 m²</u>

⑥ Providing and apply

17.55 mm thick

25 x 30 x 3.75 =	2812.50 m ²
25 x 30 x 3.75 =	2812.50 m ²
10 x 30 x 3.75 =	1125.00 m ²
1 x 20 x 3.75 =	75.00 m ²
5 x 20 x 0.60 =	60.00 m ²

Continuation

6885.00 m²

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(7) construction of subgrade and earthen shoulders.					
$2 \times 60 \times 30 \times (1.182 \times 0.075 + 1.388 \times 0.20)$					
					$= 1318.32 \text{ m}^3$
$2 \times 17 \times 30 \times 0.375 \times 0.335$					$= 128.14 \text{ m}^3$
					1446.46 m^3

(8) construction of embank.	
mett with material	
EW calculation.	

Chainage	Fill Area	Heav Area	Dist.	Fill volume.
0	6.486	-	-	-
50	6.647	6.567	50	328.325
100	9.048	7.848	50	392.375
150	9.241	9.145	50	457.225
200	8.610	8.926	50	446.275
250	8.673	8.642	50	432.075
300	8.426	8.550	50	427.475
350	8.986	8.706	50	435.300
400	8.521	8.754	50	437.675
450	8.084	8.303	50	415.125
500	8.515	8.300	50	414.975
550	8.172	8.344	50	417.175
600	8.656	8.414	50	420.700
650	3.360	6.008	50	300.400
700	3.688	3.524	50	176.200
750	3.365	3.527	50	176.325
800	3.695	3.530	50	176.500
850	3.541	3.618	50	180.900
900	3.498	3.520	50	175.975
950	3.731	3.615	50	180.725

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F. Qty.	11446.11 m ³
deduction:					
				Subgrade p.sh. etc.	(-) 2755.96 m ³
				G.S.B	(-) 1235.90 m ³
				W.B. Cr. 1/2	(-) 662.68 m ³
				C.C. pav. 7-30	(-) 312.11 m ³
				Net Qty =	6519.46 m ³
(i) For 1000 m Leay =					1521.69 m ³
(ii) For 100 m Leay =					4966.99 m ³
(9) Road master p. like hat					
applied thermoplastic					
compound over B.F. Surface.					
2 x 60 x 30 x 0.10 =					360.00 m ²
(10) Road master p. like hat					
applied thermoplastic					
compound over C.C. Surface.					
2 x 17 x 30 x 0.10 =					102.00 m ²
(11) painting on parapet					
Wall					
Top 2 x 2 x 6.15 x 0.40 =					9.84 m ²
1 x (7.80 + 6.80) x 0.40 =					5.84 m ²
1 x (9.85 + 7.50) x 0.40 =					6.94 m ²
2 x 8.34 x 0.40 =					6.67 m ²
Side 2 x 4 x 6.15 x 0.60 =					29.52 m ²
1 x 4 x (7.80 x 0.60 =					17.52 m ²
1 x 4 x 8.68 x 0.60 =					20.02 m ²
Front 4 x 4 x 0.40 x 0.60 =					3.84 m ²
4 x 0.40 x 0.60 =					0.96 m ²
					121.98 m ²
(12) Providing and fixing of					
typical M.H.S.Y. sign board					3 nos

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(13) Providing & fixing of Traffic sign					1
No more Sum 20/12/20 AE	(i)	600 mm equilateral triangle - 12 Nos.			
	(ii)	800 x 600 mm rectangular - 6 Nos.			
	(iii)	600 x 450 mm rectangular - 4 Nos.			
(14) Planting of Trees					
		by the road side -			180 Nos.
No more Sum 20/12/20 AE	(15)	R.C.C. 1:1.5 grade			
		boundary pillar -			64 Nos.
(16) Providing & laying of R.C.C. Pipe of 300 mm					
		9 x 4 x 2.50 =			90.00 m
No more Sum 20/12/20 AE	(17)	Setting out pillars			
	(i)	Benchmark pillar -			3 Nos.
	(ii)	Reference pillar -			9 Nos.

Sum/Kumar
7/10/2020
JB

~~Sum~~
20/12/20
AE

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
<u>ABSTRACT OF COST</u>					
(1) clearing and grubbing good land.					
1.62 Hec. vide TMBP. 11					
					@ R. 49739 = 47/Hec-R. 80578 = 00
(2) Excavation for roadway in soil using manual.					
164.25 m ³ vide TMBP. 11					
					@ R. 82 = 01/m ³ - R. 13470 = 00
(3) construction of embankment with material obtained from roadway cutting.					
98.55 m ³ vide TMBP. 11					
					@ R. 27 = 98/m ³ - R. 2757 = 00
<hr/>					
(4) construction of embankment with material obtained from borrow pits vide TMBP - 18 to 20					
(i) For 1000 m lead.					
(ii) For 100					
1521.69 m ³ @ R. 187 = 23/m ³ - R. 284906 = 00					
(ii) For 150 m lead.					
4966.99 m ³ @ R. 132 = 56/m ³ - R. 658424 = 00					
(5) construction of subgrade and earthen shoulders.					
1309.50 m ³ vide TMBP. 12					
1446.46 m ³ vide TMBP. 18					
2755.96 m ³					
					@ R. 189 = 60/m ³ - R. 5225302 = 00
					R. 1562665 = 00

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
				B.F.R.	1562665 = 4
⑥ construction of					
G.S.B.					
1213.64	m ³	side TMBP - 12			
22.26	m ³	side TMBP - 16			
1235.90	m ³	@ 2514 = 76/m ³			R. 3107992 = 4
⑦ Providing and laying					
WBM grading. III					
649.69	m ³	side TMBP - 12			
12.99	m ³	side TMBP - 16			
662.68	m ³	@ 3816 = 68/m ³			R. 2528840 = 4
⑧ E/W excavation for					
found ⁿ of structure					
260.95	m ³	side TMBP - 12			
		@ 285 = 71/m ³			R. 74556 = 4
⑨ Providing p.c.c. M-15					
in foundation.					
30.67	m ³	side TMBP - 12			
		@ 5525 = 98/m ³			R. 169482 = 4
⑩ Providing p.c.c. M-15					
in open foundation.					
33.40	m ³	side TMBP - 13			
		@ 6245 = 67/m ³			R. 208605 = 4
⑪ supplying fitting and					
placing HYSD bars.					
0.15	m ³	side TMBP - 13			
		@ 76761 = 77/m ³			R. 11514 = 4
⑫ Providing p.c.c. M-20					
in sub structure.					
188.31	m ³	side TMBP - 13			
		@ 6487 = 35/m ³			R. 1221633 = 4

Continuation

R. 8885287 = 4

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.P.R.		
(13) Providing and laying					
R.C.C. HP 4 H.P. pipe of 1580 mm					
37.50 m ³ wide TMB P-13					
					$\text{Ct } 4214 = 24/n \rightarrow 158034 = 0$
(14) Providing R.C.C. M-25					
in sub-structure.					
9.87 m ³ wide TMB P-13					
					$\text{Ct } 7263 = 26/n^3 \rightarrow 71688 = 0$
(15) Supplying ditting and					
placing 4x50 bar.					
0.984 m ³ wide TMB P-13					
					$\text{Ct } 76911 = 33/n^2 \rightarrow 75681 = 0$
(16) Providing and laying					
filter media					
19.31 m ³ wide TMB P-13					
					$\text{Ct } 3225 = 89/n^3 \rightarrow 62292 = 0$
(17) Back filling behind					
abt and return wall					
0.34.20 m ³ wide TMB P-14					
					$\text{Ct } 742 = 214/n^3 \rightarrow 25441 = 0$
(18) Providing and laying R.C.C.					
M-30 in S/S.					
4.38 m ³ wide TMB P-14					
					$\text{Ct } 7973 = 51/n^3 \rightarrow 34924 = 0$
(19) Supplying ditting and					
placing 4x50 bar.					
0.32 m ³ wide TMB P-14					
					$\text{Ct } 78034 = 13/n^2 \rightarrow 24971 = 00$
(20) Construction of cement					
concrete pavement M-30					

Continuation

R. 9338318 = 0

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.P. 4.		
297.00 m ³ side TWP - 14					
15.11 m ³ side TWP - 17					
312.11 m ³ @ 6715241/m ³					2095947 = 0
(21) Providing and laying					
Primer coat (55-1)					
6885.00 m ² side TWP - 17					
@ 54 = 88/m ²					377849 = 0
(22) Providing and applying					
tack coat.					
6885.00 m ² side TWP - 17					
@ 18 = 42/m ²					126822 = 0
(23) Providing and laying					
M.S.S. 20 mm thick.					
6885.00 m ² side TWP - 17					
@ 23 = 54/m ²					1594153 = 0
(24) Road marking with hot					
applied thermoplastic					
compared on B.T. surface.					
360.00 m ² side TWP - 20					
@ 850 = 93/m ²					306335 = 0
(25) Road marking with hot					
applied thermoplastic					
compared on c.c. surface.					
102.00 m ² side TWP - 20					
@ 953 = 99/m ²					97307 = 0
(26) Painting on parapet					
wall.					
121.98 m ² side TWP - 20					
@ 108 = 98/m ²					13293 = 0
					4. 13950024 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
			B.P.S.		
(27) Providing and fixing of typical M45Y sign board.					
3 Nos. Wide TMS P-20					
					Q. 10046 = 09/e - 30138 = 0
(28) Providing and fixing of Traffic sign					
Wide TMS P-21					
(i) 600 mm equilateral triangle					4051 = 00
11 not found					
20.12.20					
AE					
(ii) 600 x 600 mm rectangular.					
Not found					
20.12.20					
AE					
(iii) 600 x 450 mm rectangular.					
Not found					
20.12.20					
AE					
(29) Planting of trees by the road side.					
180 Nos. Wide TMS P-21					
					Q. 749 = 73/e - 2134951 = 0
(30) R.C.C. 17-15 grade boundary pillar.					
Not found					
20.12.20					
AE					
(31) Providing and laying of R.C.C. pipe of 300 mm					
90.00 m Wide TMS P-21					
					Q. 988225/m - 88943 = 0
(32) Setting out pillar.					
Wide TMS P-21					
(i) Benchmark pillar.					
Not found					
20.12.20					
AE					
5 Nos. Q. 4295 = 99/e - 12888 = 0					

Continuation

13. F 4

Not found

9 Nov.

$$e_{1957} = 12$$
$$17614 = 6$$

5 km
= 2.12.30

$$14384858 = 0$$
~~AE~~

Less 10% (175 per kg)

$$1438486 = v$$
$$\begin{array}{r} 12946372 \end{array} \rightarrow 0$$

Less previous payment	(5)	9656967	=	0
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$$R_2: 3289405 = 6$$


Sunil Kumar

411012020


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Thurs m.B was 84.00000000

before me on 20.12.20



20.12.20

~~A 2~~
$$\downarrow 3166787 = 00$$


2012.20

AE

C 99

~~OKS 10/24~~
~~31/12/20~~