

Agency Sri Satish Kir

Tandava K Pakerajogaj' M. N. Belalgh

~~XXXXXXXXXXXX~~

PHUR P. W. D

RE. DE. M  
A. N. H. S. Y

E. E. R. I. S. I. D. A. B. A. L. D. DIVISION

ASSISTANT ENGINEER. R. W. D. S. I. D. DIVISION

WORKS. SUB-DIV. K. U. T. H. U. M. B. G.

MEASUREMENT. WORK. NO. 10 - [ 2600 ]

~~XXXXXXXXXXXX~~

Certified that the M.B contain 100  
(one hundred) pages by printing  
machine and issued to Sri Baban  
Ran A.E R.w.d work sub-div.  
Kutumba.

July 10/2017

Executive Engineer  
Road Works Depart. of  
Works Division, Aurangabad

Schedule XLV - Form No. 134.

E.E R.w.d Aurad DIVISION.

Assistant Engineer SUB-DIVISION:

R.w.d work sub-div-kutumba.

MEASUREMENT BOOK.

2600  
211315

Name of officer Sri Baban Ran A.E

R.w.d work sub-div kutumba

Date of first entry \_\_\_\_\_

Date of last entry \_\_\_\_\_

Page number of the book \_\_\_\_\_

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				
Nf. Construction of road from Tandisa Mahorajganj to Belgas.					
Agency. Sri Satish Kumar.					
Agreement No. 16 S.D.D./2020-21					
Date of work start. 08/06/2020.					
Date of completion. 07/03/2021					
Date of entry.					
Measurement:					

① clearing and grubbing road land.					
					$2 \times 14 \times 30 \times 3.50 = 2940.00 \text{ m}^2$
					$2 \times 1 \times 10 \times 3.50 = 70.00 \text{ m}^2$
					$\underline{3010.00 \text{ m}^2}$
					$= 0.30 \text{ Hec.}$

② E/W in excavation for foundation of structure					
H.W. 3x 2x					$3.90 \times 1.15 \times 1.50 = 40.36 \text{ m}^3$
Below pit 3x 1x					$5.35 \times 1.13 \times 0.365 = 6.62 \text{ m}^3$
					$\underline{46.98 \text{ m}^3}$

③ Providing p.c.c. 1:1:5 in open foundation.					
H.W. 3x 2x					$3.90 \times 1.15 \times 0.5 = 4.07 \text{ m}^3$
Below pit. 3x 1x					$5.311 \times 1.13 \times 0.25 = 4.50 \text{ m}^3$
					$\underline{8.57 \text{ m}^3}$

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
④ Providing p.c.c. 4.20					
6 substructure					
H.W. 3x2x	3.60	$\frac{1.00+0.40}{2}$			$2.78 = 42.03 \text{ m}^3$
parapet. 3x2x	3.60	0.40	0.60		$= 5.18 \text{ m}^3$
Less pipe 3x2x	0.785	$(0.85)^2$		0.53	$(-) 1.72 \text{ m}^3$
					<u><math>45.49 \text{ m}^3</math></u>

⑤ Providing and lay. p

R.C.C. WP 4 pipe of 600 mm dia.

$3 \times 3 \times 2.50 = 22.50 \text{ m}^3$

⑥ Providing and lay. p

R.C.C. pipe of 300 mm dia.

$2 \times 4 \times 2.50 = 20.00 \text{ m}^3$

⑦ Construction of embankment with material.

etc. calculation

Chainage	Rip Area	Mean Area	Dist.	Fill Volume
0	4.106	-	-	-
50	4.895	4.575	50	218.750
100	7.798	4.351	50	216.550
150	4.057	4.036	50	201.800
200	4.668	4.361	50	218.050
250	4.723	4.695	50	234.770
300	4.667	4.693	50	234.675
350	4.625	4.644	50	232.225
400	4.387	4.507	50	225.22
430	3.732	3.908	30	117.24
			Total	<u><math>1899.28 \text{ m}^3</math></u>
			Less exist	$(-) 1732.18 \text{ m}^3$

Continuation  $\phi_1 - 167.18 \text{ m}^3$

80% of  $\phi_1 - 133.68 \text{ m}^3$



Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
(8) Construction of Subgrade and earthen shoulders.					
14 x 30 x $\frac{6.83+7.71}{2} \times 0.30$					916.65 m <sup>3</sup>
1 x 10 x $\frac{6.83+7.71}{2} \times 0.30$					21.83 m <sup>3</sup>
					<u>938.48 m<sup>3</sup></u>
(i) Cut up to 1000 m					61.12 m <sup>3</sup>
(ii) Cut up to 100 m					877.36 m <sup>3</sup>
(9) Construction of G.S.B.					
14 x 30 x 4.05 x 0.20					340.20 m <sup>3</sup>
1 x 10 x 4.05 x 0.20					8.10 m <sup>3</sup>
					<u>348.30 m<sup>3</sup></u>
(10) Provision of Paving with grade. III					

14 x 30 x 3.75 x 0.075					118.13 m <sup>3</sup>
1 x 10 x 3.75 x 0.075					2.81 m <sup>3</sup>
					<u>120.94 m<sup>3</sup></u>
Sunilkumar					
17/11/2020					
S.E.					
					23.11.20
					A.E.

Continuation

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Particulars	Details of actual measurement				Contents of area
	No	L	B	D	
ABSTRACT OF COST					
(1) Clearing and grubbing road land.					
0.30 Hec. wide TMS P-1					
					@ 51133 = 76/Hec. = 15340 = v
(2) E/W in excavation found of structure.					
46.98 m <sup>3</sup> wide TMS P-1					
					@ 269534/m <sup>3</sup> = 12653 = v
(3) Providing p.c.c. 7-15 in open foundation					
8.54 m <sup>3</sup> wide TMS P-1					
					@ 4974 = 27/m <sup>3</sup> = 42480 = v

(4) Providing p.c.c. 7-20 in substructure					
45.49 m <sup>3</sup> wide TMS P-2					
					@ 5775 = 20/m <sup>3</sup> = 262714 = v
(5) Providing an layer R.C.C. pipe of 300 mm.					
22.50 m wide TMS P-2					
					@ 1035 = 10/m = 23290 = v
(6) Providing an layer R.C.C. pipe of 300 mm.					
20.00 m wide TMS P-2					
					@ 904250/m = 18092 = v
(7) Construction of embankment with masonry					

Continuation  
 133.68 m<sup>3</sup> wide TMS P-2  
 @ 131503/m<sup>3</sup> = 17516 = v  
 { 392085 = v

