

Contract road & all work with 2107 - 42/21
of 2 Karnataka roads works & 2nd NAGALAND works
Schedule XLV-Form No. 134

Executive Engineer

R. H. D. Works Division

Shimoga

DIVISION

SUB-DIVISION

11/11

MEASUREMENT BOOK

3861

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1st on A/c	Bill			
1W:- Construction of Road & C.D. Work with Maintenance for Bikhonpur R. E. O. Road to Kurmi Tula under Parihar Block					
Gr. No:- S.B.N.-58/2023-24					
Agency:- Manoj Raj					
D.O.S:- 30.12.023					
D.O.C:- 29.12.024					

Record Entry/ Measurement

① Earth Work in excavation for foundation					
H.W.-	2	6.45	1.40	1.50	= 27.09 M ³
Below Pipe-	1	4.85	1.53	0.365	= 2.708 M ³
					= 29.798 M ³
② P.C.C in levelling course					
	2	6.45	1.40	0.15	= 2.709 M ³
	1	4.93	1.53	0.25	= 1.886 M ³
					= 4.595 M ³
Signature					
	10/1/24				
Signature					
	10/1/24				

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
① DIL RCC Main Sewer Pipe					
4.12 - 2 x 6.10 x 0.825 x 3.9 = 32.283 m ³					
4.13 - 2 x 6.10 x 0.40 x 1.0 = 4.88 m ³					
4.14 - 2 x $\frac{3.14}{4} \times 0.23^2 \times 0.522 = 0.0478 m^3$					
					~ 35.423 m ³
② DIL RCC NP 100mm dia Sewer Pipe					
3 x 2.50 = 7.50 m ³					
③ Painting on parapet wall					
4.15 - 2 x 6.10 x 0.40 = 4.88 m ²					
4.16 - 4 x 6.10 x 0.60 = 14.64 m ²					
4.17 - 2 x 2.70 x 0.40 x 0.60 = 0.36 m ²					
					= 20.48 m ²
<u>Initialed</u> 12/1/24 <u>Kumar</u> 18/1/24					
Record Entry					
① Earth work in around fund ⁿ					
4.18 - 2 x $\frac{3.14}{4} \times 1.33^2 \times 60 = 31.058 m^3$					
R. wall - 2 x 1.767 x 1.93 x 1.60 = 10.913 m ³					
Floor under Back Slab - 1 x 7.70 x 1.20 x 0.25 = 2.31 m ³					
					= 44.28 m ³
Add 10% extra for slope					= 4.428 m ³
					= 48.707 m ³
② Sand filling in fund ⁿ trenches					
— do —					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x7.70	x1.62	9x0.10	= 1.254 m ³		
Shriyansh 20/1/24					
Kumar 20/1/24 7.2					
Record Entry					
① Br. PCC m ¹⁵ in open foundation					
2x 9.55	2.133	x0.20	= 3.882 m ³		
2x1.767	x1.93	x0.20	= 1.364 "		
1x7.70x	1.736	x0.15	= 2.005 "		
= 7.251 m ³					
Shriyansh 20/1/24					
Kumar 21/1/24 7.					
Record Entry					
① Brick masonry in m (1:4) in foundation					
Below G.L.					
Alt - 2x4.15	x1.63	3x1.40	= 18.975 m ³		
R.wall - 2x1.767	x1.43	x1.40	= 7.675 "		
= 26.05 m ³					
② Brick masonry (1:4) in sub-structure					
Above G.L.					
Alt - 2x	3.75	x0.917	x1.30	= 8.936 m ³	
R.wall - 2x1.984	x0.665	x1.59	= 4.95 "		
= 13.131 m ³					
Shriyansh 18/1/24					
Kumar 28/1/24 7.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
① Supply & fitting of reinforcement in concrete slab					
8mm Ø:-	2x10	7.24	0.70	33	57.72 kg
	2x10	7.24	0.70	33	25.27 "
					= 82.99 kg
② P/L PCC in subgrade					
top:-	2x3.75	0.70	0.20		1.05 m ³
sub:-	2x3.75	0.70	0.20		0.67 m ³
total	2x2.20	0.40	0.15		0.26 m ³
					= 2.034 m ³
③ Bitumont painting over top surface					
	2x3.75	0.70			5.25 m ²
	2x3.75	0.24			1.80 "
					= 7.05 m ²
Swami Kumar 6/2/24 6/2/24					
Record Entry					
① Supply, fitting & placing H.Y. S. D. Bar - Deck Slab:-					
16mm Ø:-	51x	2.20	1.58		177.27 kg
12mm Ø:-	12x	7.50	0.89		80.10 "
12mm Ø:-	51x	2.20	0.89		99.86 "
12mm Ø:-	12x	7.50	0.89		80.10 "
					= 437.33 kg.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
② P/L Acc m/s in deck slabs					
1x 7.50x 2.28 x 0.24 = 4.104 m ³					
③ Pr. filling joint sealing compound.					
1x 7.50 = 7.50 m					
Signature <i>[Signature]</i> Date 10/1/24					
Signature <i>[Signature]</i> Date 10/1/24					
Record Entry					
① Brick Masonry (1:3) in parapet wall					
2x 4.0x 0.40x 0.60 = 1.92 m ³					
② Pr. 15mm thick Cement Plaster (1:4)					
2x 0.917 x 1.30 = 2.383 m ²					
1x 7.50 x 1.30 = 9.75 "					
4x 0.665 x 1.59 = 4.229 "					
4x 2.084 x 1.30 = 10.834 "					
4x 2.30x 0.29 = 2.668 "					
2x 8.0x 0.60 = 9.60 "					
1x 8.0x 0.40 = 3.20 "					
2x 0.40 x 0.60 = 0.48 "					
= 43.145 m ²					
③ Pr. 15mm Cement Punning					
2x 2x 4.0 x 0.60 = 9.60 "					
2x 4.0 x 0.40 = 3.20 "					
2x 0.40 x 0.60 = 0.48 "					
= 13.28 m ²					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Rect. Weep hole $2 \times 6 + 4 \times 4 = 28$ m ²					
Sirianah 15/2/24					
Kumar 75/9/24					
Recd Entry					
② Setting out pillars $= 0.502$ km					
③ clearing & grubbing Road land. $1 \times (30.0 + 23.0) \times 3.50 = 185.50$ m ² $1 \times (30.0 + 26.0) \times 3.50 = 156.10$ " $= 1746.50$ m ² = 0.175 Ha.					
④ Excavation of soil for road work $2 \times (30.0 + 23.0) \times 0.525 \times 0.10 = 5.56$ m ³ $2 \times (4 \times 30.0 + 19.0) \times 0.525 \times 0.10 = 14.60$ " $= 20.16$ m ³					
⑤ Excav. of Roadway by manual means. Qty. Same as ④. NO. (3) = 20.16 m ³					
⑥ Construction of embankment with roadway cutts. Qty. = 60 x 9. NO. (3) = 12.10 m ³					
⑦ Constg embankment with log pile. $2 \times 4 \times 30.0 \times 1.05 \times 0.70 = 176.40$ m ³ $2 \times 4 \times 30.0 \times 0.90 \times 0.70 = 129.60$ " $2 \times 1 \times 25.0 \times 1.0 \times 0.70 = 35.0$ " $= 341.0$ m ³					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record Entry					
Conn ⁿ of subgrade curve & shoulder					
10 x 30.0	x	5.25	x	0.30 = 47	2.50 m ³
1 x 7.0	x	5.25	x	0.30 = 11	0.30
					= 483.53 m ³
Signature					
25/2/24					
Record Entry					
Conn ⁿ of G.S. B. G. & T					
File correction:-					
4 x 1.50	x	1.50	x	0.10 = 0.9	m ³
6 x 2.80	x	1.90	x	0.10 = 3.18	"
Full width					
2 x (30.0 + 23.0)	x	0.525	x	0.10 = 5.56	"
2 x (4 x 30.0 + 19.0)	x	0.525	x	0.10 = 14.60	"
1 x (30.0 + 23.0)	x	3.75	x	0.10 = 19.88	"
1 x (4 x 30.0 + 19.0)	x	3.75	x	0.10 = 52.13	"
Earthwork					
Portion - (10 x 30.0)	x	3.75	x	0.20 = 225.0	"
1 x 7.0	x	3.75	x	0.20 = 5.25	"
					= 326.51 m ³
Signature					
10/3/24					
Record Entry					
26/3/24					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
P.L. spreading & compacting w.b.m. Gr III					
(30.0+23.0) X 375 X 0.075 =					14.30 m ³
14 X 30.0 + 26.0 X 375 X 0.075 =					15.44 "
					= 140.34 m ³
Survey done by					
12/11/24					
Kumar					
12/11/24					
<u>Abstract of Cost</u>					
1. P.F working bench mark					
Qty. vide TM BIP-6 = 0.502 km					
@ Rs 30581.56 per km =					Rs 15352.0
2. clearing & grubbing Road Land.					
Qty. vide TM BIP-6 = 0.175 Ha.					
@ Rs 75573.34 per ha =					Rs 13225.0
3. Excav for road by using manual/machine					
Qty. vide TM BIP-6 = 20.16 m ³					
@ Rs 186.85 per M ³ =					Rs 3767.0
4. Contract work month with roadway cutting					
Qty. vide TM BIP-6 = 12.10 m ³					
@ Rs 61.52 per M ³ =					Rs 744.0
Continuation					= Rs 33088.0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				817.6	33088.0
1. Excavation of High level excavation					
Qty. wide TM BIP - 6 =		20.16		m ³	
@ 103.96 per m ³					2096.0
2. Construction of embankment with loose soil					
Qty. wide TM BIP - 6 =		341.0		m ³	
@ 140.15 per m ³					47791.0
3. Construction of subgrade & center shoulder					
Qty. wide TM BIP - 7 =		483.53		m ³	
@ 222.50 per m ³					107585.0
5. Construction of G.S.B. Grt					
Qty. wide TM BIP - 7 =		26.51		m ³	
@ 4263.68 per m ³					1392134.0
9. P/L Spreading W.B.M. Grt					
Qty. wide TM BIP - 8 =		140.34		m ³	
@ 5630.20 per m ³					798563.0
10. Earthwork in excavation for found ⁿ					
Qty. wide TM BIP - 1 =		9.798		m ³	
@ 427.09 per m ³					12726.0
11. P/L Premises in levelling cover					
Qty. wide TM BIP - 1 =		4.595		m ³	
@ 8176.13 per m ³					37569.0
12. P.C.C. in substructure					
Qty. wide TM BIP - 2 =		35.40		m ³	
@ 9434.44 per m ³					334064.0

Continuation

2765616.0

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13				818.2	755516.0
25 PIL RCONF	3	1000 mm	114 mm	114 mm	
Qty. vide TM BIP-	2	7.50 m			
		@ 7295.33 per m			54715.0
26 Painting on parapet wall					
Qty. vide TM BIP-	2	20.48 m ²			
		@ 136.22 per m ²			2790.0
5					
7. Earthwork in excavation for structure					
Qty. vide TM BIP-	2	48.707 m ³			
		@ 427.09 per m ³			20802.0
6					
8. Sand filling in foundation trenches					
Qty. vide TM BIP-	3	1.254 m ³			
		@ 565.68 per m ³			709.0
17					
29 PIL PCC					
Qty. vide TM BIP-	3	7.251 m ³			
		@ 8176.13 per m ³			59285.7
18					
30. Brick masonry (1:4) in foundation					
Qty. vide TM BIP-	3	26.05 m ³			
		@ 7343.33 per m ³			191294.0
19					
31. Brick masonry (1:4) in substructure					
Qty. vide TM BIP-	3	13.13 m ³			
		@ 7690.41 per m ³			100983.0
20					
32 PIL PCC (RCC M20) in substructure.					
Qty. vide TM BIP-	4	2.034 m ³			
		@ 9434.44 per m ³			19190.0
Continuation					3215384.0

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
RCC door frame in built-up concrete				R 15-20	3215384.
Bitument painting over top surface					
Qty. vide TM B/P - 4 = 7.05 m ²					
@ Rs 19.99 per m ²				R 141.0	
RCC window slab					
Qty. vide TM B/P - 5 = 4.104 m ³					
@ Rs 10630.21 per m ³				R 43873.0	
Supply, fitting & placing H.F.S.D. bar					
Qty. vide TM B/P - 4 = 82.99 kg					
TM B/P - 4 = 437.33 "					
= 520.32 kg					
= 0.52 M @ Rs 81798.40 per MT				R 42535.0	
Pr. filling joint sealing compound					
Qty. vide TM B/P - 5 = 7.50 m					
@ Rs 59.16 per m				R 444.0	
Brick masonry (1:3) in parapet					
Qty. vide TM B/P - 5 = 1.92 m ³					
@ Rs 7941.90 per m ³				R 15248.0	
Pr. 15mm thick C.P. (1:4)					
Qty. vide TM B/P - 5 = 43.145 m ²					
@ Rs 562.18 per m ²				R 24255.0	
Pr. 15mm Cement Putting.					
Qty. vide TM B/P - 5 = 13.28 m ²					
@ Rs 65.54 per m ²				R 870.0	
Continuation					R 3342750.0

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/F	2B	342750.0
0. R. Brick masonry in wall					
Side TM	B/P-	6228.0	0.0		
		236.04		2B	6609.0
				2B	3349359.0
Add	1st	L.C.		2B	33494.0
Add	181.	GST		2B	602885.0
Add	107.	S.F.		2B	34393.0
				2B	4020131.0
Less 1.11% Below				2B	44623.0
				2B	3975508.0

Shri
12/4/24

Sumit
12/4/24
1.2

C.F.D
29/04/20