

51751

2132 195721 2422 42 29 25717 161127

Schedule XLV-Form No.-134

congratulatory letter-2, 2114/19 and 18412 DIVISION

2112/19, 2114-2, and 2422 No - SUB-DIVISION

MEASUREMENT BOOK 676

229945 → 136124 45219249 210 1840

IS on A/c Bill

1

Name of work - Construction of Road in Tigraya
 Situation of work - Bishay Hesper Road to
 Agency by which work is executed - Hesper Road
 Date of measurement - 13/11/21
 No. and date of agreement - 42580/2021-21
 (These four lines should be repeated at the commencement
 of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2.0w. Commencement		27-08-2020			
2.0w. Completion		26-08-2021			
2.0w. Measurement		26-08-2021			
1) Providing & Fixing of working Bench Mark					
Bench mark Pillar				2.16	
2) Reference Pillar				0.51	
3. Clearing & grubbing Road to					
2x 1430x2.50/10000					1.0014
4. Box cutting					
2x 450x0.50x0.1100					47.25
2x 530x0.370x0.10					39.25
					87.00
5. Construction of curb and box of 82.00					52.20
6. Construction of curb and in box of 82.00					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S.N.	Ch.	Area	Encav	Dist	Qty
1	0				
2	50				
3	100				
4	150				
5	200				
6	250				
7	300				
8	350				
9	400				
10	450	3.29			
11	500	1.611	2.457	50	1.632.525
12	550	1.780	1.696	50	24.775
13	600	1.592	1.687	50	84.325
14	650	2.337	1.965	50	98.250
15	700	2.506	2.422	50	121.075
16	750	4.004	2.255	50	162.750
17	800	4.308	2.656	50	132.800
18	850	1.388	1.248	50	67.400
19	900	1.469	1.429	50	71.425
20	950	1.866	1.668	50	83.325
21	1000	1.669	1.768	50	88.325
22	1050	2.069	1.969	50	98.450
23	1100	2.635	2.472	50	123.600
24	1150	1.650	2.163	50	108.425
25	1200	1.407	1.529	50	76.425

Continuation

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Particulars	Details of measurement				Contents of area
	No.	L.	B.	D.	
21	1250	1.454	1.431	50	71.525
22	1300	1.351	1.403	50	70.125
28	1350	1.558	1.455	50	72.725
29	1400	4.312	2.935	50	146.250
30	1430	2.424	3.393	50	101.790
					1985.6523
20% of 1985.65					1389.0013
7. Construction Environment					115.210
30% of 1985.65					595.6913
8. Construction Substructure					58.515
Cost of Substructure					31.251
					98226.13
450 x 7.27 x 0.30					98226.13
For Land 100000					98226.13
30% of 98226.13					294.6813
9. Construction Substructure					294.6813
Cost of Substructure					294.6813
70% of 98226.13					687.5813
10. Construction Substructure					687.5813
Cost of Substructure					687.5813
2x200 x 0.525 x 0.10					21.00
2x250 x 0.525 x 0.10					26.25
Pit Repair	5	1.20	1.20	0.10	0.72
	10	1.50	0.30	0.10	0.45
	6	5	0.60	0.10	1.80
	6	5	0.80	0.10	2.40

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	8	1.20	1.50	0.10	1.44
	10	1.50	2.50	0.10	3.75
	8	2.20	2.50	0.10	4.50
	5	2.10	1.80	0.10	1.89
	8	1.8	1.60	0.10	2.30
	6	1.50	1.40	0.10	1.26
	8	1.20			
Gris B. Brown 4.44					
	12	2.00	2.45	0.10	5.100
	12	2.00	2.45	0.10	5.1025
Compass	12	4.50	4.05	0.20	36.450
C.C. Port...					

	12	3.50	3.25	0.10	
	12	2.30			
Profile Correction					
	10	1.60	1.30	0.10	2.08
	6	5	0.80	0.10	2.40
	6	5	0.75	0.10	2.25
	8	1.30	1.60	0.10	1.66
	9	1.50	2.50	0.10	3.375
	8	2.30	2.50	0.10	4.60
	6	2.10	1.80	0.10	2.268
	7	1.70	1.80	0.10	2.154
	6	1.60	1.50	0.10	1.44
Gris B. Brown	22	5.30	0.375	0.10	3.975
					676.487

Boody
06/02/2021
DE

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Revised measurement			
1/51 Dismissing & cutting stone					
Cement concrete					
	2.1	3.50	1.14	0.15	1.20
	1.7	3.50	1.38	0.15	1.77
					2.97 M ³
2/52 Dismissing & cutting stone					
	2.1	4.21	1.825	0.20	3.466
	2.1	4.87	1.825	0.20	3.860
					7.326 M ³
3. Retaining wall					
5.3 up to 600mm					1500 M
5.4 above 600mm to 900mm					1000 M
1/50 Providing Laying & R.C.					
PIPE dia 300mm					2400
Hympipe - 600mm dia					
3.1 Earth work in retaining wall					
Providing					
	4.1	2.390	1.15	1.50	53.82
	4.1	2.535	1.13	0.265	8.828
					62.648
3.2 Providing mix p.c. (1:2:5)					
as per drawing					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	4x2	6.390	x1.15	x0.15	53.8
	4x1	5.311	x1.13	x0.25	6.00
					<u>11.3000</u>
33. P/97/Ric 17546 Str					
	4x2x	3.600	x0.40	x1.50	2.8 = 56.044
For 97/1	4x2x	3.60	x0.40	x0.60	= 6.912
					<u>62.956</u>
(1/16) An/P/D					
	4x2x	0.785	x0.83	x0.53	2.296
					<u>60.664</u>
2y P/97/Ric 17546 Str					
	4x	3.285		20.00	22.404
	Bed	(4/1.24)	2.19	2.24	
1. E/W/Concrete for P/97					
36	1x6	0.50	x0.65		12.65
CA 4/1.24	2x	3.50	x1.30	x0.180	16.38
Return 1/1.24	4x	3.32	x3.42	x1.50	81.68
					<u>111.714</u>
2. P/97/Ric 17546 Str					
38	1x6	0.50	x0.10		1.50
	4x	3.32	x2.42	x0.20	6.42
					<u>7.924</u>
Return 1/1.24	4x	2.95	x2.50	x1.32	1.60 = 31.344

Continuation

Sch. XLV-Form No. 13A

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2/3	175	Reinforcement			
Foundation					
	12.11M	3	5 Nos x 3.16M		= 110.60M
			110.60M x 0.85		= 98.434 kg
10mm	19 Nos	x 6.00		114.50M	
	42 Nos	x 3.20		134.40	
	15 Nos	x 6.00		90.00	
Chair bar	10x	2.50M		25.000M	
	2x	30x	1.10	66.00	
W-41	62x	3.40	x 4.10	571.2	
	1766	14.00	x 5.00	118.5	
				1408.60	
				1408.60 x 0.62 kg/M	873.348
					971.734 kg
				Sum 0.97173 M	
6 Plain/Rec in 846 sand					
42	1x	6.00 x 2.50	x 0.25	3.25	
	2x	6.00 x 2.50	x 0.25	6.00	
Hand	4x	6.00	x 0.4	0.22	
					10.020
4 Plain/Rec in 846 sand					
40					
Reinforcement					
	4x	2.95	x 7.16	x 0.40	x 1.78 = 16.284
Kodak	9/2/2021				

Continuation

Sch. XLV-Form No. 134

Sch. XLV-Form No. 154					Contents of area	
Particulars	Details of actual measurement					
	No.	L.	B.	D.		
		Recess mounting				
12/47	Supply	Fittings and				
	ply	Hydro bar				
100MM.	47	3.20	150.04	M		
	18	6.00	108.00	"		
	42	3.10	136.20	"		
	15	6	90.00	"		
Charr bn	12	3.00	36.00			
	21	3.10	72			
			591.24			
	591.24	44	0.62	1.7	366.56	

		say	0.36656	M	
14/46	Providing and bury	Recess			
	Supply	Deck S/R			
	2.50	6.00	0.25		2.75 M ³
Kurb	2d	2.50	0.50	0.25	0.63
					4.38 M ³
14/48	For 90°	Concreting			
	2d	8.34	10.40	10.60	400 M ³
16/50	Provide	SP17			
		4 M ³			
44	Back Filling	behind Abutment			
	2.92	5.20	10.80	6.00	
	2.1	2.92	4.00	1.78	48.13

Continuation

54.10 M³

Abstract of cost

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Priming & Flaring work					
benham					
vidyut p				0	
0.24 CR		3770.41			7541
2. Refuse p/m					
vidyut p				0	
5.40 CR		1698.73			8494
3. clearing and grubbing					
vidyut p				0	
1.50 CR		5113.26			51134
4. Dug out					

8.74 CR	7416				6552
5. Construction of embankment					
vidyut p				0	
5.22 CR	2611.10				1343
6. Construction of embankment					
vidyut p				3	
1388.50 CR	131.03				182066
7. Construction of embankment					
vidyut p				3	
5.85 CR	174.94				104210
8. Construction of bridge					
and other works					
vidyut p				3	
294.68 CR	176.58				517398

Continuation

413099

Sch. XLV-Form No. 134

Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
9. Containing of 843 galls				
and 100000 50000			3	
687.58 PERS		141.17		97066.
10. Containing of 80000				
842 6000 - 100000		14		
676.18714 CL		1947.54		1323314
11. Ponds 10000 80000				
10000 8000			9	
329.68714 CL		2862.18		1086732.
30. Ponds and 10000				
of 10000 10000			5	
2411 CL		916.85		22004.
31. E/W extension for 10000				
10000 P.			5	
620.68714 CL		26932		16820
32. Ponds 10000 10000				
10000 10000			6	
11.38714 CL		4222.49		48108.
32. Ponds 10000 10000				
10000 P.			6	
60.6614 CL		4961.55		300968.
34. Ponds 10000 10000				
10000 P.			6	
30000 CL		1064.9		31920.

Continuation

3340081

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
36 E/W 17 below 9m for Redm					
width 13 P				6	
111.2113 CR 269.32					30086
37 Providing Concrete for P/S 17					
width 13 P				6	
7.9211 CR 4225.49					33482
38 Providing Concrete for P/S 14					
width 13 P				6	
31.2411 CR 4771.46					149537
40 P/S 17/18 17 Sub Str					
width 13 P				7	
16.2811 CR 4301.53					80774
42 P/S 17/18 17 Sub Str					
width 13 P				7	
10.0211 CR 3548.28					53599
43 Supplying Fitting and Plan					
Hyd ber width 13 P (7)					
0.9211 CR 4574.62					44454
44 Back P/S 17/18 17 Sub Str					
width 13 P				9	
34.2811 CR 3021.46					24081
45 Providing large P/S 17/18					
width 13 P				89	
19.8211 CR 2531.8113					50168

Continuation

Scanned with CamScanner

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			R ₁ R ₂		4403792
(C) 100	100	64	100		440379
				R ₁	396343
Kodas					
21.372					
DE					
100					1000
100				2	
20					
100					1000

Continuation