

OG MBD/2020-21/MR 3054

Barbatta to Sihalo via Bangam

Schedule XLV-Form No. 134

Bangs'

DIVISION

Arnu

SUB-DIVISION

MEASUREMENT BOOK

Kirdos.

1342

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.	
Name of work -	Repair of				
	road from Barbetter.				
	to Sihelo via Bangawan.				
Block -	Aman.				
Agency -	Firdos.				
Ag. NO -	06MBD/2020-21.				
Date of Commencement -	18-05-2020				
Date of Completion -	17-02-2021				
Ag. value -	Rs 1,65,26,839/- (Construction)				
<u>Record measurement</u>					
(1) Cleaning and					
grubbing road					
land in all					
complete lot -					
	2	25	30	1.0m	1500m ²
	2	25	30	1.0m	1500m ²
	2	25	30	1.0m	1500m ²
	2	25	30	1.0m	1500m ²
	2	25	30	1.0m	1500m ²
	2	10	30	1.0m	600m ²
	2	6	30	1.0m	360m ²
				Total	8460m ²
				or	0.846Ha

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
①	Ans R.C.C. girder				
	main top				
	Slab and Kerb				
Top Slab	1	4.9	6.0	135	10.29 m ²
Kerb	2	4.9	.25	30	.74 m ²
					Total = 11.03 m ²
②	Ans P.C.C.				
	gravel in chimney				
	wall				
U/S	1	20.12	1.57	15	4.74 m ²
O/S	1	24.12	1.68	15	6.08 m ²
					10.82 m ²
③	Ans P.C.C. girder				
	main in open				
	Reinforcement in				
U/S	1	20.12	1.27	68	17.37 m ²
	1	20.12	.45	68	6.29 m ²
	1	20.12	.23	45	2.13 m ²
					2.08
D/S	1	24.12	1.38	58	19.14 m ²
	1	24.12	.69	68	11.32 m ²
	1	24.12	.46	68	7.54 m ²
	1	24.12	.23	45	2.50 m ²
					Total = 66.28 m ²
④	Const + R.C.C.				
	railing at				
	finade margin				
	2	4.9			9.8 m.

Continuation

06/04/14
JE

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Const of Sub-grade and earthwork Siding with approved material obtained from borrow pits					
For B.T.	2x5x	30m	1.0x	.45x	135 M ³
For C.C.	2x1x	25m	1.0x	.45x	22.5 M ³
For C.C.	2x5x	30m	1.0x	.30x	45 M ³
	2x1x	25m	.5x	.30x	7.5 M ³
				Total =	210 M ³
② Const of C.C. Sub-grade with approved material in all Compacts					
B.T.	1x5.5x	1.6x	.20x		1.76 M ³
For C.C.	1x10.0x	1.0x	.175x		1.75 M ³
	1x15.0x	1.0x	.175x		2.63 M ³
	1x10.0x	3.75x	.175x		6.56 M ³
	1x5.0x	3.75x	.175x		3.28 M ³
	6x5.0x	2.19x	.20x		17.4 M ³
				Total =	25.98 M ³
					33.38 M ³
③ Paving and laying w.d.m. grout with Stone Metf in all Compacts					

Continuation

K.T.O.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch-2510 to 2530m	1	20m	3.75	0.75	5.63 m ³
Ch-2620m to 2640m	1	20m	3.75	0.75	5.63 m ³
Ch-2650 to 2700m	1	30m	3.75	0.75	8.44 m ³
	1	20m	3.75	0.75	5.62 m ³
Ch-2800 to 4550m	1	5.5	1.0	0.75	0.41 m ³
	1	9.0	1.0	0.75	0.68 m ³
	1	6.5	1.7	0.75	0.83 m ³
	1	6.0	2.0	0.75	0.90 m ³
	4	8.0	3.0	0.75	7.2 m ³
					29.94 m ³
					37.14 m ³
					35.34
(3) Area and laying					
W.B.M. grill					
with Stonemason					
Ch-2650 to 2700m	1	30.0	3.75	0.75	8.44 m ³
	1	20.0	3.75	0.75	5.62 m ³
Ch-3000m to 4550m	2	6.0	1.2	0.75	1.08 m ³
	2	9.5	1.2	0.75	1.71 m ³
	4	7.0	1.9	0.75	3.99 m ³
	3	30.0	3.75	0.75	25.31 m ³
	1	18.0	3.75	0.75	2.25 m ³
					42.32 m ³
					48.4 m ³
(4) Area and laying					
Prime Coat with					
SS-1 in all Comp					
Job -					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Area void item no-3			
		$48.4 / .075 =$			$645.0 m^2$
(5)		Pump and apply fertilizer cont with emulsion BS-1 in all complete Job-			
		Area void item no-4			$645 m^2$
(6)		Pump and laying M.S.S. with but wean in circle complete Job-			
		Area void item no-5			$645 m^2$
(7)		Pump and laying fertilizer cont with emulsion BS-1 in all complete Job-			
		10 x 30m x 3.75			$21125 m^2$
	Let	$1 \times (30.0 + 20.0) \times 3.75 =$			$187.50 (-)$
(8)		Pump and laying SdBC with but wean in all complete Job-			$937.50 m^2$
		10 x 30m x 3.75 x .025			$28.125 m^3$
	Let	$1 \times (30.0 + 20.0) \times 3.75 \times .025 =$			$4.688 (-)$
(9)		SIA/P 5th K.M.			$23.439 m^3$
		Stone post			1 No.

Continuation

Continuation

Continuation

2nd & Final Bill

32

Sch. XLV-Form No. 134 ABSTRACT OF COST

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
①	Cleaning and grubbing road land				12/1
0.846 Hect	e	494	96.70		41,874
②	Disassembly of old Cement concrete pavement				12/2
15.44 m ³	e	1552.44	/m ³		23970
③	Const of Sub grade and earthen Siding with approved material obtained from borrow pits				
3060 m ²				12/3	
210 m ³				27/1	
3270 m ³	e	176.96	/m ³		578,659
④	Const of G.S.B. gntt with well graded material in deep Compakte				
262.38	Job -				
263.59 m ³				12/4	
23.38 m ³				27/2	
296.97 m ³					

295.76

Continuation

K.T.O.

644503

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
limit to 295.86 m³ 295.76 ⑤				2137.18/m ³	634443 632092
Pump and laying W.B.M. gr II with Stone apron gate in cul Complete job -					
209.61 m ³				12/5	
37.14 m³ 35.34				2728/2	
246.76 m³ 244.95 ⑥				3877.08/m ³	956708 949691
Pump and laying W.B.M. gr III with Stone masonry in cul Complete job -					
374.81 357.89 374.81 m³				13/6	
48.40 m³ 406.29 423.21 m³				28/3	
limit to 422.94 m³ 422.94 ⑦				3715.83/m ³	1571573
Pump and laying prime Coat with emulsion SS-1 in cul					
4997.46 m ²				13/7	
645.00 m ²				2829/4	
5642.46 m² limit to 5639.20 m² 5639.20 ⑧				43.00/m ²	242485
Pump and laying					

Continuation

K.T.O

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~~4040344~~

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
M.S.S. Type 15					
with buttweld					
in all complete					
Job -					
4997.46 m ²				13/8	
645.00 m ²				29/6	
5642.46 m ²					
Result to					
5639.20 m ²			214.96/m ²		12,12,202
(9) Pms and apdms					
feek cant with					
emulsion 25-1					
in all complete					
Job -					
20934.36 m ²				13/9	
645.00 m ²				29/5	
937.50					
22704.36 m ²				29/7	
Result to					
22516.86 m ²					
22704.36 m ²			14.74/m ²		331899 m ² 334623 m ²
(10) Pms and laying					
SdBe with but					
ween in all					
Complete Job -					
398.426 m ³				13+14/10	
23.437					
28.125 m ³				29/8	
426.557 m ³					4155967
421.875			9851.18/m ³		4202037
(11) SIFIA 5th Km					4155947

Continuation

K. Tio

9798568
9740392

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		Stone Post	29/9		
1 No	e	3583.48/ea.			3583
(ii)		SIA 1/2 15 m.			
		Stone Post	30/10		
6 No's	e	2134.35/ea.			12806
(iii)		SIA 1/2 200 m			
		Stone Post	30/11.		
18 No's	e	586.72/ea.			10561
(12)		SIA 1/2 place			
		enclosed by			
		band	30/10		
1.92 m ²	e	12159.39/m ²			23346
(13)		SIA 1/2 w metal			
		beam mesh			
		barrier	30/11		
160 m	e	2666.55/m.			426648
(14)		Paint and layer			
		not applied			
		thermo Plastic			
		paint both side			
		in all complete			
		Job -	30/12		
900.00 940 m ²	e	735.00/m ²			668850
(15)		SIA 1/2 boundary			661500
		filler	30/13		
55 No's	e	480.10/ea.			26405

Continuation

10970767
10905241

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) SIAIA Sami reflective traffic sign board					
(i) Gown exhibited and truck 30/11/16					
41 No's @ 1818.16/ea.					74545
(ii) Gown circular board 31/11/16					
22 No's @ 1878.02/ea.					41316
(iii) 600 x 450 mm board 31/11/16					
37 No's @ 1871.89/ea.					69260
(17) Pura painting two coat Syn thetic enamel paint for new work 31/11/16					
276.48 m ² @ 95.63/m ²					26440
(18) Plantation of tree 31/11/16					
227 No's @ 800.30/ea.					181668
(19) SIAIA logo and material 14/12/16					
2 No's @ 9942.58/ea.					19885
23/ (20) E/c in excavation in foundation 17/11					

Continuation

11383881
11318355

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
78.28 m ³ c 285 17/100					22323
24 (21) Filling within					
Foundation with					
local Sand 19/2					
3.34 m ³ c 458.91 m ³					1533
25 (22) Pura P.C.C. gr-					
17/2					
Mis in Sub-Struc					
5.06 m ³ c 5927.84/100					29995
26 (23) Pura P.C.C. gr-					
19/1					
Mis in Sub-Struc					
38.22 m ³ c 6911.74/100					264166
27 (24) Back filling					
behind abut-					
ment and n/wall					
with local Sand 19/3					
21.6 m ³ c 437.58/100					15932
28 (25) Pura weep holes					
brick - 19/20/4					
40 No. c 125.47/100					5019.
29 (26) Pura and large					
boulder apron					
both Struc 20/5					
32.4 m ³ c 3679.42/100					119213
30 (27) SIA 1/2 Hyd					
bar in R.C.C.					

Continuation

11842062
11776536

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
work				3+18/3	
2.38 m ²	268970			34/m ²	164149
31. (28)	E/W in ex Carverton				
				21/1	
260.31 m ³				285.17/m ³	74233
32. (29)	p.m. P.C.C. gr-				
				21/2	
	M15 in foundation				
15.55 m ³				5927.84/m ³	92178
33. (30)	p.m. P.C.C. gr-				
	M20 in Sub-Structure				
4.41 m ³				23/1	
63.19 m ³				23/3	
67.60 m ³				7174.79/m ³	485016
34. (31)	p.m. P.C.C. gr-				
				23/4	
	M20 in Sub-Structure				
54.05 m ³				6758.62/m ³	365303
35. (32)	p.m. weep holes				
				24/2	
	brick masonry				
54 No's				125.47/No.	6775
36. (33)	p.m. R.C.C. gr-				
	M20 in bottom				
	Slab, side wall				
	and curb in area				
	Complete Job				
				23/2	
26.97 m ³				7572.41/m ³	204228
37. (34)	SIAIP HyS5 ben.				

Continuation

13233944
13168418

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
in R.C.C. work				21+22/3	
5.58 m ²	70088.04	m ²			391091
38. (35) Puz back filling with local sand				23+24/5	
79.08 m ³	737.58	m ³			58328
39. (36) Puz and laying filter media behind submersible pump and					
42.83 m ³	3311.55	m ³		24/6	141834
40. (37) R.C.C. work in top slab and kerb				26/1	
11.03 m ³	7821.39	m ³			86270
41. (38) S/F 1/2 H/S D bar in top slab and kerb				24+25/8	
199 m ²	70088.04	m ²			69387
42. (39) Const of R.C.C. railing				26/4	
9.8 m	5028.44	m			49278
43. (40) Puz P.C.C. grout in container wall				26/2	
10.82 m ³	5927.84	m ³			64139
44. (41) Puz P.C.C. grout					

Continuation

14094271
14028745

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
in open field				26/3	
66.28 m ² =		5922.84	m ²		392,892
				Total	14487168 14421642
Add 12 v. G.S.T. (+)					1738460 1730597
Add 1 v. L. Cuss (+)					144872 144216
				Total	16370500 16296455
Luss 0.08% below (-)					13096 13037
				Total	16357404 16283418
Cuss for Payment					1,00,70,353
Payable Amt:					6287051 6213065
					AG 17/04/21 JE
Material Statement					
(Up to Final Bill)					
(i) Earth -		3270 m ³			
(ii) Stonemetal -		996.73 m ³			
(iii) Stone Sc -		263.04 m ³			
(iv) Mortar -		19.74 m ³			
(v) Stone Chills -		1023.74 m ³			
(vi) Sand -		410.93 m ³			
(vii) Boulder -		38.88 m ³			
(viii) Cement SS-1 -		4.794 MT			
(ix) Cement RS-1 -		6.193 MT			
(x) Bitumen -		59.400 MT			
					AG 17/04/21 JE

Continuation