

Cont. of road from - Lo39 to Manjhar kala - 0.688 Km

Ag.No. 102.SGD/2020-2021

Schedule XLV Form No. 134.

Sherghati DIVISION

Sherghati SUB-DIVISION

M/s Maq Shanti Const.

Measurement Book

D/S - 05/3/2021

D/C - 09/12/2021

134/5

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M.B. is issued to Sri Ashok Kumar
A.E. R.W.D. Works Sub-Div. Sherghati

30/9/2021
Executive Engineer
R.W.D (W) Division
Sherghati
30/9/2021

Sch. XLV-Form No. 134

Sherghati DIVISION
Sherghati SUB-DIVISION

Measurement Book

No. 1315

Date of work start - 05/03/2021

Date of work completion - 09/12/2021

Name of officer _____

Date of first entry _____

Date of last entry _____

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 of area
	No.	L.	B.	D.	
<u>I Stand Find Bill</u>					
Name of Work:- construction of sand trap 1039 to Marthas Kale - under m.m.s.v					
Name of Agency - M/S MAA Shanti construction villages					
Rambhiga. P.O.P.S - Guxuq					
Agreement No - 102 SBP 2020-2021					

Date of W/O - 5/3/2021

Date of Completion - 4/12/2021

Date of measurement - 5/11/21

1. Construction of embankment - with all kinds of soil with all Leads and Lift as per specification.

Chainage	Area	mean Area	Length	Volume
0	5.06			
50m	4.953	5.007	50	251.325
100m	7.994	6.444	50	322.175
150m	6.574	7.254	50	362.70
200m	7.624	7.049	50	354.950
250m	8.4	8.022	50	400.600
300m	9.247	8.824	50	441.175
350m	5.848	7.548	50	377.575
Continuation L.O				2519.300

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
chainage	Area	mean Area	length	Volume	
—				B/F	2509.30m
400m	6.352	6.10	50		305.00
450m	5.333	5.843	50		292.13
500m	6.062	5.698	50		284.875
550m	2.701	4.382	50		219.075
600m	2.056	2.379	50		118.925
668	2.584	2.320	68		157.760m
			Total	—	3887.060
					m ³
Less for cut	—	6.55	—		
	668 x 4.05 x 0.20				541.08m
Less for 73	668 x 3.75 x 0.075				187.88
P-cut	668 x 3.75 x 0.162				220.80m

Net Area: 2937.30 m²

- Construction of embankment
with lead - 100m vide rate
19.15.1. E/W of item no. ① Rate
— ②, or, 19.15.1. x 2937.30 = 562.49m³
 - Construction of sub grade
and earthen shoulder as per
specification. 40.62.1. E/W
of item no. ①, Rate - ②.
40.62.1. x 2937.30 = 1193.17m³
 - Construction of embankment
with lead - 100m,
40.23.1. E/W of item no. ①
Rate - ②, or, 40.23.1. x 2937.30 = 1181.68m³
- Continuation
Add: 4 x 25m x 3.5 x 0.30 = 105.00
1286.68m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4. Construction of granular					
Sub-base by providing well					
Material as per spk =					
12 x 25m x 4.05 x 0.20					= 243 m ³
1m x 4.05 x 0.20					= 0.81 m ³
C-c-Potholes - 14 x 25m x 3.75 x 0.10					= 131.25
1 x 24m x 3.75 x 0.10					= 9.0 m ³
					384.06 m ³
5. Providing laying spreading					
and compacting stone metal					
grade - 10% in stone					
per specification					
12 x 25m x 3.75 x 0.075					= 84.38 m ³
1m x 3.75 x 0.075					= 0.28 m ³
1 x 25m x 3.75 x 0.075					= 98.44 m ³
1 x 24m x 3.75 x 0.075					= 6.75 m ³
					189.85 m ³
6. Priming and applying					
Prime coat as per spk					
12 x 25m x 3.75m					= 112.5 m ²
1 x 3.75m					= 3.75 m ²
					116.25 m ²
7. Priming and applying					
tack coat - 84 m ² similar					
Item No 10, Page - 3					= 184.06 m ²
					112.75 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
8. Providing max seal surfacing as per specification.					
12 x 25m x 3.75m					1125 m ²
1m x 3.75m					3.75 m ²
					1128.75 m ²
9. Construction of uncracked cement concrete pavement					
in road as per sp ^h					
14 x 25m x 0.75 x 0.160					210 m ³
1 x 25m x 3.75 x 0.160					14.40 m ³
					224.40 m ³
10. Dismantling of existing					

Structure like culvert bridge etc.					
Cement concrete - 1 x 3.50 x 3.38 x 0.15					1.57 m ³
11. Dismantling of existing					
structure as per specification					
Structure - 2 x 8 x 0.825 x 3.0					39.6 m ³
12. Remining of brick masonry					
Min 200 H.P.					
2 x 2 x 2.5					10 m ³
CD Work.					
1. E/W in existing in form of					
travels as per sp ^h					
bumper - E/W - 2 x 3.90 x 1.24 x 1.50					14.58 m ³
Pipe work - 1 x 6.22 x 1.02 x 0.30					1.90 m ³
					32.82 m ³
					16.41 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				310-	15.41 m ² 30.82 m²
1. Forming work -					
FW - 2 x 6.30 x 1.4 x 1.5					= 26.46
Pipe work - 1 x 5.9 x 1.5 x 0.30					= 2.66
Abut. - 2 x 7.6 x 2.3 x 1.6					= 55.94
R.W. - 4 x 1.6 x 2.097 x 1.6					21.43 m ² 122.94
2. Paving p.c. grade work in form h. as per specification					
Abut. - 2 x 7.6 x 2.3 x 0.20					= 6.99
R.W. - 4 x 1.6 x 2.097 x 0.20					= 2.68 m ² from 100 mm depth
P.W. - 2 x 6.30 x 1.4 x 0.15					= 2.65
60 mm depth					
FW - 2 x 3.9 x 1.24 x 0.15					= 1.45 m ² 13.77 m ²
3. Paving plain concrete in open form h. m20.					
60 mm depth - FW - 2 x 3.6 x 0.4 x 1.2					= 3.87
					2 x 3.6 x 0.85 x 1.35 = 8.41
Below pipe - 1 x 6.22 x 1.02 x 0.25					= 1.59
100 mm depth					
P.W. - 2 x 6.0 x 1.8 x 0.15					= 11.52
					2 x 6 x 0.40 x 0.60 = 2.88
200 mm depth - Abut. - 2 x 6.8 x 1.8 x 1.4					= 34.27
R.W. - 4 x 1.6 x 1.597 x 1.40					= 14.31 m ² 72.98 m ²
4. Paving plain concrete m20					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
7. Substructure					
600mm - FLW		2x3.6x0.48x1			12.23.87
1000mm dia - FLW		2x6x0.533x1.8			11.52
		2x6x0.40x0.60			2.88
8m x 2m R.C.C. column					
Rebar		2x6x1.0x1.8			21.60
RLW		4x2x0.74x2.04x2			12.52
					52.39 m ²
15. Priming and Laying					
Pipe 600mm dia - 3x2.5					7.5 m
16. Priming and Laying					
600mm dia - 3x2.5					7.5 m
16. Laying bedding on well compacted sand - 600mm dia - below pipe		1x6.22x1.02x1.55			3.49 m ²
					3.49 m ²
17. Filling in form of trench as per drawing and Spc - Sump Rolling - for 1000mm dia - FLW		2x6x0.405x1			4.860
around pipe		1x6.22x1.5x0.90			8.510
600mm dia - FLW		2x3.6x0.41			2.92
around pipe		1x6.44x1.02x0.42			2.77 m ²
Continuation					19.06 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
18. Reinforced cement concrete in Substructure					
R/W Capping - 4x2.30x0.40x0.150					= 0.55
Abut Cap - 2x6x0.70x0.20					= 1.68m
Diaphragm - 2x6x0.40x0.20					= 1.15m
Kerbs - 2x2.6x0.45x0.30					= 0.70
End of wall - 4x0.40x0.40x0.60					= 0.38
					4.46m
19. Supplying, Fixing and Placing HYSD bar in Super Structure					
12mm dia - 71x2.536					= 180.06m
					24x6m = 144m
12mm - 8x6m					= 48m
12mm dia - 8x2.6					= 20.80m
					392.86m
@ 0.89kg/m					= 349.65kg
50mm dia - 90mm dia					
					11x6 = 66m
6mm - 21x7.88					= 165.48
10mm - 11x6					= 66m
					297.48m
@ 0.62kg/m					= 184.44kg
8mm dia - 62x1.6					= 99.2m
					62x1.9 = 117.80
					42x1.9 = 79.80
					296.80m
@ 0.39kg/m					= 115.75kg
Continuation					629.84kg

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			131E		629.84m
Add 5% cutting and binding					31.49m
					Total = 662.33m
			Or		0.662 M.T.
20. Providing and laying					
Reinforced concrete concrete					
in Super structure					
1x 6.0 x 2.6 x 0.240					3.79m
21. Backfilling behind					
Abutment and wing wall					
Sandy material					
2x 2.7 x 4.50 x 1.50					12.22
Tranch filling					
2x 6 x 1.50					19.16m
					35.38m
22. Providing weephole					
1x 18					18 No.
Drain					
23. Providing and laying					
driving and placing HYSD bars					
in Drain 8mm					
2x 66 No x 2.10m					661.6m
@ 0.39 kg/m					2347.25m
					2.32 M.T.
24. Providing reinforced					
Concrete in open trench					
as per spec					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1x6x25x2.10x0.1502					47.25m ³
1x25m x 1.98x0.150					7.510
1x8m x 1.98x0.150					2.38m ³
					57.13m ³
2. 2 construction of Bench					
man - 26x25 = 650m					
1x18 = 18m					
					668m
(22) Reference Pithor					0.668km
(ii) Reference Pithor					0.668km
26. clearing and excavating					
Road Land as per spec					
26x25x7.0 = 4550m ³					
1x18x24x6.90 = 165.60m ³					
					4715.60m ³
					Or - 0.47 Hectre.
26. Boundary Stone					2ND
27. Boundary 20m Stone					3ND
28. Boundary and fixing of					
Marks of Boundary Stone					1x3 - 3ND
29. Retro Reflective Traffic Sign					
(i) Boundary circular					1x3 - 3ND
(22) Boundary equilateral triangle					1x6 - 6ND
(22) Boundary 45° rectangular stone					1x3 - 3ND
(vii) Quarry Side detection					1x2 - 2ND
30. Road marking in B.T. Section					
2x30m x 0.10					60.2m ³
31. Road marking in C.P. Section					
2x374x0.10					74.8m ³
32. Laying of 150mm Layer on prepared subgrade with 150mm					
Continuation					
2x14x25x0.25 = 175m ³					
2x18m x 0.25 = 9m ³					
					184m ³
(33) Laying cement concrete pipe					
NPS on first class B.C. concrete					

300 mm dia P-44 -
4x3x2.5m = 30m

S. E. 10
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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>ABSTRACT OF LIST</u>					
(1) Construction of Bench Masonry quantity vide Refe - (A) 0.668 Km.					
@ R. 4464.57/Km R.					2982=
(2) Construction of reference cells - vide Refe - (A) 0.668 Km					
@ R. 2755.02/Km R.					18402=
2. Clearing and grubbing Road Land & verandah					
- (A) 0.47 Hectare					
@ R. 5115.25/Hectare R.					24048=
3. Construction of embankment with Lead - 1000m quantity vide Refe - (2), 562.49m					
@ R. 190.22/m R.					107050=
4. Construction of Embankment with Lead - 1000m vide Refe - (2), 1286.68m					
@ R. 154.39/m R.					198651=
5. Construction of Subgrade and earthen shoulder vide Refe - (2), 1193.13m					
@ R. 198.57/m R.					236930=
Continuation C. R.					571501=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				R/R	571501
6. Construction of G.S.B by forming well graded mass under Refe - (2)					
					384.06 m ³ @ Rs. 1662.90/m ³ Rs. 638653 =
7. Providing and Laying Spreading and Compacting Grade III Vider Refe - (3)					
					189.85 m ³ @ Rs. 2401.24/m ³ Rs. 455875 =
8. Providing and applying primer coat - Vider Refe - (3), 125.85 m ²					
					@ Rs. 43.34/m ² Rs. 5408 =
9. Providing and applying face coat Vider Refe - (3), 1128.25 m ²					
					@ Rs. 15.15/m ² Rs. 17101 =
10. Providing mud Seal Surface Vider Refe - (4), 1128.25 m ²					
					@ Rs. 175.62/m ² Rs. 198232 =
11. Construction of unreinforced Cement concrete Pavement in road Vider Refe - (4), 224.40 m ²					
					@ Rs. 5197.73/m ² Rs. 1166571 =
12. Dismantling existing structure Vider Refe - (4), 1.77 m ³					
Continuation					
					@ Rs. 480.97/m ³ Rs. 851 =
					c. 321.30 97504 =

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				13/12	30,97504
13. Dismantling of existing structure like chimney					
(2) concrete chimney vide Ref (4)					
39.5 m @ 0.346351 m				13715.0	
14. Removing all types of Hummer pipe vide Ref (4)					
10 m @ 0.3202 m				32002	
15. E/W in excavation form trench vide Ref (4)					
(5) - 122.94 m @ 0.29478 m				36234.20	
16. Paving plain concrete					
M10 in 100 mm thick					
Ref - (5) 13.7 m ²					
@ 0.418565 m ²				56535	
17. Providing plain concrete					
M20 in 100 mm thick					
vide Ref - (5) 72.31 m ²					
@ 0.434231 m ²				313992	
18. Providing plain concrete					
M20 in 100 mm thick					
vide Ref - (5) 52.39 m ²					
@ 0.477101 m ²				241461	
19. Providing and laying bricks					
are hummer pipe vide Ref - (5)					
7.5 m @ 1147.10 m				8603	

Continuation - 3771242

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				13/04/17	37712422
20. Dredging and laying					
1000 m ² HP vide					
Ref - (D), 7.5 m @ 4.3617.93 m @ 4.271342					
21. Laying Bidding on well					
Concrete and - vide					
Ref - (E), 3.49 m ²					
				24. 519.32 m ²	1288320
22. Filling in from 2 to 3 m					
Chas vide Ref - (E) 19.06 m ²					
				24. 517.32 m ²	14. 607320
23. Reinforced concrete					
in concrete in substructures					
vide Ref - (F) - 4.46 m ²					
				21. 5030.37 m ²	2243720
24. Supplying and laying					
plain HYSD bars in subex					
structure vide Ref - (G),					
0.662 m - T @ 4.57203.50 m @ 4.37869:					
25. Providing and laying					
reinforced concrete concrete					
in subex structure vide Ref					
- (H), 3.74 m @ 4.571.98 m @ 4.215672					
26. Supplying and laying					
plain HYSD bars in drain					
vide Ref - (I), 2.32 m - T @ 4.55912.95 m @ 4.129605					

Continuation

C-084, 40,17,2150

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B. Prj.	40,172.15
27. Providing reinforcement Cement concrete in foundation vide Rate - (9), 57.13 m ² @ R. 4806.07/m ² R. 274571=					
28. Backfilling behind about, 10/18 wall vide Rate - (5), 35.38 m ² @ 4.790.09/m ² R. 279532					
29. Providing Weep hole vide Rate - (8), 18 No. @ R. 116.80/No R. 210220					
30. Providing 100 mm stone work Rate - (9), 2 No. @ R. 2187.16/No. 4378=					
31. Providing 200 mm stone - vide Rate - (9) - 3 No. @ R. 606.40 each R. 1819=					
32. Providing and fixing masonry sign board, Citizen Board etc vide Rate - (9) 3 No. @ R. 9374.24 each R. 28003=					
33. Retro. Reflective traffic sign - vide Rate - (9), (i) 600 mm circular white Plate - (9) - 3 No. 4640.26 each R. 185612=					
(ii) 600 mm equilateral white Plate - (9) - 6 No @ R. 3459.95 each R. 20760=					
Continuation					C. R. 4395362=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				51/22	43953622
(vi) 60mm x 45mm rectangular					
vide Rate - (9) 3210					
@ Rs. 4511.61 per m ²					135352
(vii) 90mm wide rectangular					
octagonal vide Rate					
(11) 2210 @ 8065.82 per m ²					161322
34. Road marking					
in 3-T. Surface vide					
Rate - (9) 60.0m					
@ Rs. 736/m ²					436602
35. Road marking in					
e-c portion vide Rate					
(9) 74m @ Rs. 748/m ²					550532
					4597422
36. Laying brick setting layers					
on prepared sub grade					
with brick masonry - Quantity					
vide Rate - (9) 184 m ²					
@ Rs. 458.01/m ²					842742
36. Laying cement concrete					
pepe nes on first class beddy					
Quantity vide Rate - (10) 30m					
@ Rs. 733.82/m ²					22015
					46300312
Add 12% G.S.T and L.L. Labour					6019042
Add 5% contractor fee					
					52319352

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F 4.	5231935=
Add Self storage fee				Rs.	82,700=
				Rs.	5314635=
Deduct 0.05% Delam.					2657=
				Rs.	53,11,978=

5/11/21
J.E.

Material Statement

- (i) E/W — 3042.23 m³
- (ii) chips — 784.81 m³
- (iii) sand — 398.19 m³
- (iv) G.B. — 229.72 m³
- (v) Bitumen Emulsion SS₁ — 0.98 M.T
- (vi) Bitumen Emulsion RS₁ — 0.31 M.T
- (vii) Bitumen S-90 — 1.98 M.T
- (viii) Waste Plastic — 172 kg
- (ix) Bricks — 9436 No

5/11/21
J.E.

Continuation