MMUSY (SC)
L046 to Hanamgam]

Ag.No. 12SBD/21-22

Schedule XLV Form No. 134.

Sherghati DIVISION

Sherghati SUB-DIVISION

M/S Shiva Enterprises

Measurement Book

1406

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 No.	L.	B.	D.	Contents of area
Name of work:- Const. of Road from L046 to Manganjams Mangalaldi tola (Gurmukhar more RCD Road) under Shergarh Block					
Name of Agency:- M/s. Shiva Enterprises					
Agreement No:- 12/SBD/2021-22					
Date of start:- 9/7/21					
Date of completion:- 8/7/22					
Date of Measurement					
Measurement					
(1) Const. of Benchmark and and reference pillars 1.192KM.					
(2) Const. of reference pillars 1.192KM.					
(3) Clearing and grubbing road land on					
1192M × 7.00 = 8344.00 / 10000 = 0.83489					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Dismantling of existing structure like culverts etc - r/oo					
Reinforced cement concrete					
1x3x3.50x1.54x0.15 =					2.43 m³
(5) Dismantling of existing structure like culverts etc - r/oo					
Cement mortar					
3x2x6.20x0.825x3.00 =					92.07 m³
(6) Removing all types of damaged Hume pipe					
2x3x2.50 = 15.00 m					
Const. of 600mm dia HP pipe					
(7) Earthwork excavation for structure etc - r/oo					
Face wall					
2x3.90x1.24x1.50 =					14.51 m³
Pipe portion					
1x6.22x1.02x0.30 =					1.90 "
					16.41 m³
(8) P/w. PCC M-15 in open foundation etc - r/oo.					
2x3.90x1.24x0.15 =					1.45 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) P/W. PCC M-20 in open foundation etc. -: 2nd.					
Face wall					
2 × 3.60 × 0.865 × 1.35 =					8.41 M³
Below Pipe					
~~1 × 6.22~~					
1 × 6.22 × 1.020 × 0.25 =					1.59 "
					10.00 M³
(10) P/W. Laying first mark cement concrete Hume pipe 600mm dia etc. -: 2nd					
1 × 3 × 2.50 = 7.50 m					
(11) P/W. PCC M-20 each sub-structure etc. -: 2nd.					
2 × 3.60 × 0.48 × 1.12 =					3.87 M³
Deduct Pipe portion					
2 × 3.14/4 (0.72)² × 0.52 (-)					0.42 "
					3.45 M³
(12) Laying first class bedding on well compacted sand					
1 × 6.22 × 1.02 × 0.55 =					3.49 M³
Deduction pipe portion					
1 × 6.22 × 0.16 (-)					1.00 "
					2.49 M³

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(13) Filling in foundation trenches etc - Job.					
Face wall					
2 × 3.60 × 0.41 =				2.95 M³	
Around Pipe 1 × 6.46 × 1.02 × 0.42 =				2.77 "	
Deduct Pipe portion 1 × 6.46 × 0.25 =				1.59 "	
				4.10 M³	
Left 4-223					
construct (1000 mm dia) reinforced Pipe					
(1) Extra excavation for structure etc - Job.					
Face wall					
3 × 2 × 6.30 × 1.40 × 1.50 =					79.38 M³
Pipe portion					
3 × 1 × 5.90 × 1.50 × 0.30 =					7.97 M³
					87.35 M³
(2) Plu. PCC M-15 in open foundation etc - Job					
3 × 2 × 6.30 × 1.40 × 0.15 =					7.93 M³
(3) Plu. PCC M-20 in open foundation etc - Job.					
3 × 2 × 6.00 × 1.25 × 1.35 =					49.81 M³
3 × 1 × 5.90 × 1.50 × 0.25 =					6.63 "
					56.44 M³

Continuation

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Particulars	Details of actual measurement				Co of area
	No.	L.	B.	D.	
(4) P/V. laying 15 mm cement concrete H/Pipe.					
3×3×2.50 = 22.50M					
(5) P/V. RCC. M-20 in sub structure etc - complete.					
FACE WALL					
3×2×6.00×0.533×1.80 = 34.54m³					
3×2×6.00×0.40×0.60 = 8.64 "					
				43.18 m³	
Deduct Pipe portion					
3×2×3.14/4×(1.2)²×0.60 = (-) 4.08 "					
				39.10m³	
(6) Filling in foundation trenches etc - complete					
Face wall					
3×2×6.00×0.405 = 14.58m³					
Around Pipe					
3×1×6.30×1.50×0.90 = 25.52 "					
Deduct Pipe portion					
3×1×6.30×0.91 = (-) 17.20 "					
				22.90 m³	
~~15.4.20 m³~~					
(7) Laying cement concrete Pipe M³ breaked and fixing cast bedding etc - complete.					
7×4×2.50 = 70.00M					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(8) Constr. of embankment with approved material etc. - 306.					
Chainage	C/S Area	Mean Area	Length		Qty.
335	2.08	—		—	—
400	2.10	2.09 × 65 =			135.85m³
500	2.14	2.12 × 100 =			212.00
600	2.20	2.17 × 100 =			217.00
700	2.24	2.22 × 100 =			222.00
800	2.00	2.12 × 100 =			212.00
900	2.20	2.10 × 100 =			210.00
1000	2.24	2.22 × 100 =			222.00
1100	2.38	2.31 × 100 =			231.00
1200	2.00	2.19 × 100 =			219.00
1300	2.10	2.05 × 100 =			205.00
1400	2.12	2.11 × 100 =			211.00
1500	2.20	2.16 × 100 =			216.00
1527	2.20	2.20 × 27 =			59.40
					2572.25m³
(i) 70% Qty from 100m Lead					1800.57m³
(ii) 30% Qty from 1000m Lead					771.68m³
(9) Constr. of subgrade & earthen shoulder with approved materials etc. - 306					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5 × 30.00 ×		7.80+8.00/2		× 0.30 =	35.50 M³
8 × 30.00 ×		7.90+8.00/2		× 0.30 =	572.40 "
10 × 30.00 ×		7.98		× 0.30 =	718.20 "
3 × 30.00 ×		7.98		× 0.30 =	215.46 "
1 × 2.00 ×		7.98		× 0.30 =	4.79 "
					1866.35 M³
Less 5.5 × 20%					
10) Const. of brs. by providing wall 20% added material etc.					
— — Do.					
C.C. portion					
6 × 30.00 ×		3.75		× 0.100 =	67.50 M³
7 × 30.00 ×		3.75		× 0.100 =	78.75 "
1 × 20.00 ×		3.75		× 0.100 =	7.50 "
B.T. portion					
5 × 30.00 ×		4.05		× 0.20 =	121.50 "
8 × 30.00 ×		4.05		× 0.20 =	194.40 "
10 × 30.00 ×		4.05		× 0.20 =	243.00 "
3 × 30.00 ×		4.05		× 0.20 =	72.90 "
1 × 2.00 ×		4.05		× 0.20 =	1.62 "
					787.17 M³
Less 15% × 20%					

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(11) W.B.M. Grading-3 materials Rly. laying Spreading and Compacting Stone aggregates					
6×30.00×3.75×0.075 = 50.62m³					
5×30.00×3.75×0.075 = 42.18 "					
1×22.00×3.75×0.075 = 6.19 "					
5×30.00×3.75×0.075 = 42.18 "					
8×30.00×3.75×0.075 = 67.50 "					
10×30.00×3.75×0.075 = 84.37 "					
3×30.00×3.75×0.075 = 25.31 "					
1×2.00×3.75×0.075 = 0.56 "					
				318.91m³	
Lines	318.72m³				
(12) P.W.D. fixing of typical masonry information signboard etc. complete					
2 Nos.					
25.2.22 JE					
material statement →					
(1) E/work			4438.60m³		
(2) Stone Aggregates			1009.26m³		
(3) Sand				384.32m³	
(4) Stone screening				76.50m³	

Continuation

25.2.22 JE

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1st on A/c Bill					
Abstract of Cost					
(1) Const. of Benchmark and reference pillar vide P- 1 item (1)					
1.192 km @ Rs. 4685=25/KM					Rs. 5585=00
(2) Const. of reference pillars vide P- 1 item (2)					
1.192 km. @ Rs. 3042=33/KM					Rs. 3626=00
(3) Clearing and grubbing road land etc. from vide P- 1 item (3)					
0.8348 @ Rs. 5165=25/Hect.					Rs. 4247=00
(4) Dismantling of existing structure like culvert Pucca cement concrete vide P- 2 item (4)					
2.43 M³ @ Rs. 480=97/M³					Rs. 1169=00
(5) Dismantling of existing structure like culvert vide P- 2 item (5)					
92.07 M³ @ Rs. 346=30/M³					Rs. 31884=00
(6) Removing old Hume pipes of damaged Hume Pipe @ 4 Nos					
vide P- 2 item (6)					
15 M @ Rs. 236=34/M					Rs. 3545=00

Continuation Rs. 88076=00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B.F. Rs. 88076=00		
(7) C/Work excavation for foundation etc - in ordinary soil.					
vide P-2 item (7)			16.41 M³		
vide P-4 item (1)			87.35 "		
			103.76 M³		
@ Rs. 294=73/M³ —					Rs. 30581=00
(8) P/W. PCC M-15 in open foundation etc - in ordinary soil.					
vide P-2 item (8)			1.45 M³		
vide P-4 item (2)			7.930		
			9.38 M³		
@ Rs. 4309=33/M³ —					Rs. 40422=00
(9) P/W. PCC M-20 in open foundation etc - in ordinary soil.					
vide P-3 item (9)			10.00 M³		
vide P-4 item (3)			56.44 "		
			66.44 M³		
@ Rs. 4545=08/M³ —					Rs. 301975=00
(10) P/W. RCC in Hume Pipe Culvert etc - in ordinary soil.					
vide P-3 item (10)					
(i) 600mm dia H/P per 7.50M					
(41) @ Rs. 1173=78/M					Rs. 8803=00
vide P-5 item (4)					
(ii) 1000mm dia H/P per 2.5M					
(40) 22.5M @ Rs. 3684=08/M					Rs. 82892=00
					Rs. 552749=00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B/F Rs.		552749=00
(11) P.W. PCC M-20 in sub-structure					
39 etc - do					
vide P-3 item (11)			3.45 m³		
vide P-5 item (5)			39.10 m³		
			42.55 m³		
@ Rs. 4973.78/m³ —					Rs. 211634=00
(12) Laying first class bedding					
43 on well compacted sand					
vide P-3 item (12)					
2.49 m³ @ Rs. 517.32/m³				Rs.	1288=00
(13) Sand filling in foundation					
44 trenches etc do.					
vide P-4 item (13)			4.10 m³		
vide P-5 item (6)			22.90 m³		
			27.00 m³		
@ Rs. 517.32/m³ —					Rs. 13968=00
(14) Laying cement concrete					
42 pipe NP3 on bedding on					
first class bedding etc do					
vide P-5 item (7)					
70 m @ Rs. 745.16/m					Rs. 52161=00
(15) Const. of embankment					
with approved material					
etc - do.					

Continuation Rs. 831800=00

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.f. Rs.	83	1800=00
vide P- 6 item 8 (i)					
1800.57 m³ @ Rs.		154=39/m³	Rs.	277990=00	
(16) Consst. of embankments with approved material etc - Vide P- 6 item 8 (ii)					
771.68 m³ @ Rs.		190=22/m³	Rs.	146789=00	
(17) Consst. of sub-grade & carriage shoulder with approved material etc - Vide P- 6 item (9)					
1866.35 m³ @ Rs.		198=57/m³	Rs.	370601=00	
(18) Consst. of G.S.B. by providing well graded material etc - - Vide P- 7 item (10)					
787.17 m³ @ Rs.		186=92/m³	Rs.	146958=00	
(19) W.B.M. Grading-3 materials etc - Vide P- 8 item (11)					
318.72 m³ @ Rs.		2682=54/m³	Rs.	854979=00	
			Rs.	3951742=00	

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Bf. Rs. 39		51742=00
(20) Prv. & fixing of mileage					
marking informatory sign					
board ote - 100.					
vide P-8 item (12)					
2 no @ Rs 9434=33 each				Rs.	18869=00
				Rs. 39	70611=00
Add 12% GST.				Rs. 4	76473=00
Add 1% labour cess				Rs. 3	9706=00
Add seignorage fee				Rs. 1	00011=00
				Rs. 45	86801=00
Less. 2.75% below (-)				Rs. 12	6137=00
				Rs. 44	60664=00

Sd/- 14.7.2023
JE

Continuation