

M.M. 01.54
S.C

Simla more to Dhosila

Schedule XLV-Form No.-134

कार्यपालिका प्रशासन, काठमाडौं - ५४३२५५५ DIVISION

कार्य सचिव को - रंगीतगंगा SUB-DIVISION

MEASUREMENT BOOK

सर्वेक्षक - Kishor K. Singh.

536

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ASAT and Final Bill.					
4.11. And Final Bill.					
Name of work - Simla More					
to Dhosila under MMGSY.					
Situation of work - Near Rabi					
gray Substation Canal					
road.					
Agency by which					
work is executed -					
For Kishore Kumar Singh					
Dt of Commencement - 09/10/19					
Dt of Completion - 08/10/20.					

Agreement No -					
53/SBD/2013-20					
(MMGSY SC)					

Dt of Measurement					
Dt of Entry					
Dt of Actual Comp					
letion of work.					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Work done:</u>					
<u>Zone-1: Provision and fixing of working bench marks and reference pillars.</u>					
Benchmark pillars	1				
Reference pillars	—				4 nos
<u>Zone-2: clearing and grubbing Red soil</u>					
B.F. Qty. vide Page 2 of this M.B.					0.87 Ha.
<u>Zone-3: Box cutting</u>					
B.F. Qty. vide Page 6 of this M.B.					14.62 m ³
<u>Zone-4: Construction of Embankment with material obtained from secondary cutting.</u>					
$4 \times 30.40 = 120.40$					
$120.40 \times 2 \text{ side} \times 0.40 \times 0.10 = 9.6$					24.3
limit					8.78 m ³
<u>Zone-5: Construction of Subgrade and Earthen shoulders with approved materials.</u>					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Length					
Notes: Contn B.T. Road -		35 X 30.00 =	1050.00		
				Mts	
1050.00 Mts		2 X 0.30 =	2296.35		M ³
2005 Rhoul Road					
Adjacent to WBM					
2 Surface dressing					
B.T. Position -					
		2 X 1050.00 X 1.19 X 0.075 =	187.42		
Adjacent to G.S.B.		2 X 1050.00 X 1.38 X 0.12 =	579.6		
Adjacent to					
P.C.C. -		2 X 195.00 X 0.38 X 0.16 =	23.71		
Adjacent to G.S.B.					
G.S.B.		2 X 195.00 X 0.38 X 0.075 =	11.11		
Adjacent to G.S.B.		2 X 195.00 X 0.38 X 0.10 =	14.82		
					3113.01
limited					M ³
					M ³
SINO-8: Granular Subbase					
with well graded material					
for Grading Material.					
B.T. 1050.00		35.00 X 30.00 =	1050.00		
1050.00		2 X 0.25 X 0.20 =	850.15		M ³
P.C.C.		2 X 180.00 X 0.375 X 0.10 =	13.5		
2 X 6.00		2 X 0.375 X 0.10 =	0.15		
2 X 3.60		2 X 0.375 X 0.10 =	0.27		
					864.72
					M ³

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$= 714.72 \text{ m}^2 \times 0.075 =$					53.60 m ³
					352.87 m ³
SPND-5. Rosex coat					
Providing and applying Rosex					
Coat with 15% bitumen emulsion					
B.F. Qty vide Page					
29 of this m ³					3990.38 m ³
SPND-6. Tack Coat					
Providing and applying Tack					
Coat with 10% bitumen emulsion					
Same as 5					
Same Qty of 29 m ³					3990.38 m ³
SPND-11. Mix Seal Sur					
Seal					
Same Qty of SPND-6					3990.38 m ³
of this m ³					3990.38 m ³
SPND-14. Cement Concrete					
Pavement					
Qty of this m ³ Page					
29			714.72		
$714.72 \text{ m}^2 \times 0.16 =$					114.35 m ³
$714.72 \text{ m}^2 \times 0.16 =$					114.35 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SINO-14: Hand Shovel Dig Layer back Soil layers in the					
SINO-15: Kilometer Stone					
2) ordinary Kilometer Stone - 2					
ii) 20cm Stone — 5					
SINO-16: Boundary and fix of lego of NMB SX Project					
					4 no
SINO-18: Boundary Pillar					
Guard Post —					32 NO.
SINO-19: Retro-reflective Traffic Signs —					
i) 600mm equilateral triangle —					8 NOS
800mm x 600mm rectangle ular —					4 nos
600mm x 450 rectangle					2 Nos
600mm, 800mm sides octagon					2 Nos
SINO-20: Road Marking with hot Applied Thermo Plastic compound with re flecting Glass beads.					
4 Dots edge —					
2 x 1049.5 x or 10 =					209.9 m

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SINO-28. Reinforced concrete in substructure					
B.P. Qty vide Page 23					
of this work					67.48 m ³
SINO-29. Providing and laying R.C.C. pipe NB					
for culverts					
B.P. Qty vide Page 23					
of this work					15.40 m ³
SINO-30. Painting of parapet wall					
Black and white strips painting two coats including Primer					

Top - 2 x 6.15 x 0.40 = 4.92				
Side - 4 x 6.15 x 0.60 = 14.76				
Front - 4 x 0.40 x 0.60 = 0.96				
				20.64
				m ²
for 2 nos	2 x 20.64 =	41.28		m ²

SINO-46. Providing and laying of a reinforced Cement concrete pipe duct				
300mm dia				
4 x 3 x 2.50 =	30.00			

SINO-20. Hard shoulder R.M.				
laying Brick Soling layers on prepared surface				
2 x 176.5 x 0.25 =				
2 x 183.6 x 0.25 =	88.25			
				91.8
				m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x2M Single cell Box culvert					
① Excavation for foundation					
Box culvert -	1x6.00	3.50	0.65		13.65
Return wall -	4x3.32	3.42	1.80		81.75
					95.40 m ³
② Provide concrete for plain/reinforced concrete open foundation					
Box culvert -	6.00	2.50	0.10		1.50
Return wall -	4x3.32	2.42	0.20		6.42
					7.92 m ³
③ Supply Provide concrete for plain/reinforced concrete in open foundation					
Rate as per					
Step 1					
4x2.92	2.017	0.20			4.71
4x2.92	1.917	0.20			4.48
4x2.92	1.817	0.20			4.24
4x2.92	1.717	0.20			4.01
4x2.92	1.617	0.20			3.78
4x2.92	1.517	0.20			3.54
4x2.92	1.417	0.20			3.31
4x2.92	1.317	0.20			3.08
					31.15

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>SUBSTRUCTURE</u>					
1) Plain reinforced concrete in substructure					
4 X 2.92 X 0.178 X 1.178 = 14.0					
5) Providing work holes in 20 mm					
6) plain reinforced concrete in substructure					
Bottom slab - 1 X 6.10 X 2.15 X 0.25 = 3.75					
Sidewall - 2 X 6.10 X 2.10 X 0.25 = 6.10					
					9.75
7) Supplying fitting and placing MSd bar reinforcement in substructure concrete					

Bottom slab -					
10 mm ϕ bar					
18 Nos X 5.90 = 106.20 mtr					
106.20 M @ 0.162 kg/mtr					65.84 kg
12 mm ϕ bar					
Lateral Direction					
49 Nos X 2.40 M = 117.60 M					
117.60 M @ 0.89 kg/mtr					104.66 kg
					170.50
					kg
					170.5
10 mm ϕ bars					kg
2 X 43 Nos X 2.75 = 236.5					
236.5 M @ 0.162 kg/mtr					146.63
					kg
					146.63
					kg

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
280 Cft. Fill Area		Mean Area	Distance		Fill Area
1 0	4.847	—	—		—
2 50	6.373	5.610	50		280.50
3 100	6.111	6.242	50		312.100
4 150	6.587	6.349	50		317.450
5 200	5.527	6.057	50		302.85
6 250	7.487	6.507	50		325.35
7 300	4.938	6.213	50		310.625
8 350	4.748	4.843	50		242.150
9 400	3.833	4.291	50		214.525
10 450	4.509	4.171	50		208.550
11 500	6.137	5.823	50		266.150
12 550	5.970	6.059	50		302.675
13 600	3.621	4.796	50		233.775
14 650	5.689	4.655	50		232.750
15 700	8.652	7.171	50		358.525
16 750	7.649	8.151	50		407.525
17 800	6.379	7.014	50		350.700
18 850	7.421	6.900	50		345.00
19 900	4.711	6.066	50		303.300
20 950	4.594	4.653	50		232.625
21 1000	3.689	4.142	50		207.075
22 1050	2.902	3.296	50		164.775
23 1100	2.224	2.563	50		128.150
24 1150	2.956	2.590	50		129.500
25 1200	2.404	2.680	50		134.00
26 1245	2.717	2.561	45		115.223
					6431.848

M3,

Continuation

Abstract of cost.			
S.No-1.	Brick work & fixing of		
Workup bench	Mark	Reference	
pillars	C.V.P.	27 of this M.B)	
Bench Mark	240/0.5	R	4329=21
1 no	@ 4329=21		
Reference pillar		R	7878.88
4 Nos	@ 1969=72		
S.No-2.	clearing and Grubbing		
road	27 of this M.B)		
(vide page	27 of this M.B)		
018 ft	@ 49739=47	R	43273.30
S.No-3.	Box cutting		
(vide page	27 of this M.B)		
14.62 m	@ 82=01	R	1198.98
S.No-4.	Construction of Embankment with Material		
(vide page	27 of this M.B)		
8.78 m	@ 27298	R	245=66

56925.07

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
SINO-11. Tack Coat. P. (vide Page 30 of this M.B.)					
3990	13800		18	26	
				R 72864.33	
SINO-12. Mix Seal Surface Type B (vide Page 30 of this M.B.)					
3990	13800		22	152	
				R 879958.59	
SINO-13. Cement Concrete Pavement M30. (vide Page 30 of this M.B.)					
114.35 M3 @ 6469 = 16					
				R 739748 = 44	
SINO-14. 1st & 2nd Shoulder Laying Brick Solis Layer on Prepared Subgrade (vide Page 34 of this M.B.)					
91.8 m ² @ 525.75					
				R 48263 = 85	
SINO-15. Kilometer Stone ordinary Kilometer stone (vide Page 31 of this M.B.)					
2 NOS @ 2232 = 87					
				R 4465 = 74	
200m Stone (vide Page 31 of this M.B.)					
5 NOS @ 645 = 59 R 3227 = 95					

Continuation 6020624210

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Hume pipe culvert (2x1000 window)					
26) Backfill work in excavation for foundation of structures					
(vide Page 33 of this M.B.)					
59.6m ³ @ 285 = 71					
R ₁ 17028 = 31					
27) Providing M15 P.C.C 1:2:5					
1.5 m levelling course					
(vide page 33 of this M.B.)					
9.18m ³ @ 5374.52					
R ₁ 49445 = 58					
SINO-28. Reinforced cement concrete in					
Substructure					
(vide Page 34 of this M.B.)					
67.48m ³ @ 6295.65					
R ₁ 424830.46					
SINO-29. Providing and laying R.C.C for the NP3 for culverts					
(vide Page 34 of this M.B.)					
15.00 Mto @ 4280.24					
R ₁ 64203 = 60					
SINO-30. Painting on Plaster wall (vide Page 34 of this M.B.)					
M.M) 41.28 m ² @ 108 = 58					
R ₁ 4498 = 69					
705623722w					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>SINO-37. plain/reinforced</u> <u>cement concrete in substructure</u> <u>etc. complete...</u> <u>(vide Page 36 of this M.B.)</u>					
9.75 m ³ (2)	7068				
					68915 = 53
<u>SINO-38. Supply & filling</u> <u>of placing H.V.S.d. base</u> <u>(vide Page 38 of this M.B.)</u>					
1.00 m ³ (1)	76864				
					76864 = 89
<u>SINO-39. Back filling behind</u> <u>abutment, wing walls</u> <u>and Retaining wall</u>					
(vide Page 38 of this M.B.)					
34.28 m ³ (2)	742				
					25440 = 55
<u>SINO-40. Providing and laying</u> <u>filter media</u> <u>(vide Page 38 of this</u> <u>M.B.)</u>					
19.82 m ³ (2)	2854				
					56567 = 47
<u>SINO-41. Providing and laying</u> <u>reinforced cement concrete</u> <u>in substructure etc.</u> <u>(vide Page 38 of this M.B.)</u>					
4.38 m ³ (2)	777735				
					34064 = 79

768/363 = w

Continuation

Particulars	Details of actual measurement		Contents of area
	No.	B. D.	
SINO-42. Supplying fitting and placing HYSD bars reinforcement in Superstructure			
(vide Page 39 of this M.B.)			
0.324 M.T @ 77887 = 29			
		Rn 25267 = 88	
SINO-43. Parapet Construction			
1200			
(vide Page 39 of this M.B.)			
4.40 m ³ @ 6295 = 65			
		Rn 25182 = 60	
SINO-44. Painting on Para			
bet wall Parapet & footings including Postones			
(vide Page 39 of this M.B.)			
26.68 m ² @ 108 = 98			
		Rn 29072 = 58	
SINO-45. Drainage Spouts			
(vide Page 40 of this M.B.)			
4 Nos @ 468221 Rn 1872 = 84			
single row 300 mm dia			
46) Providing and laying of a reinforced Cement concrete			
drain 300 mm dia			
(vide Page 34 of this M.B.)			
30.40 R.M @ 999 = 31 Rn 29979 =			

Continuation

30

77665702W

Continuation