

MMGSY/08SBD/2019-20

HATHYA CHANTE TO KERRAL-TOLA UNDER MMGSY (I)
(SC)

Schedule XLV-Form No. 134

Executive Engineer
Rural Works Department
Works Division, Baiji

DIVISION

Amara

SUB-DIVISION

MEASUREMENT BOOK

Naiqar Alam

953

Моисе Давидович Вайс - Моисе Давидович Вайс
Израиль Моисе Давидович - Израиль Моисе Давидович
Давидович - Давидович - Давидович - Давидович

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Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Date of measurement -					
(1) Construction of un-surfaced forced C.C. Pavement -					
--- E.I.					
1x30m x	5.70+3.75	m	0.16m		22.68 m ³
5x30m x	3.75	m	0.16m		90.00 m ³
1x12m x	3.75	m	0.16m		7.20 m ³
1x30m x	4.50+3.10+3.10	m	0.16m		17.12
	3				
1x20m x	3.10+3.50+6.10	m	0.16m		13.85
	3				
1x30m x	3.10+3.40+3.30	m	0.16m		15.85
	3				
1x30m x	3.30+3.80+3.50	m	0.16m		16.96 m ³
	3				
1x28m x	3.50+3.50+3.10	m	0.16m		15.08 m ³
	3				
1x30m x	3.30	m	0.16m		15.84 m ³
1x30m x	3.30+3.60	m	0.16m		16.56 m ³
	2				
1x30m x	3.60+4.30	m	0.16m		18.96 m ³
	2				
1x30m x	4.30+5.20+3.10	m	0.16m		20.16 m ³
	3				
2x30m x	3.10	m	0.16m		29.76 m ³
1x22m x	3.10	m	0.16m		10.91 m ³

Continuation

310.46 m³

Limit Hd 306.00

Thanks
28.11.23
J.E

29/11/23
J.E

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Detail of measurement					
(1) Plv. & applying primer					
Coat					
8 x 30.00m x 3.75m =					900.00 m ²
8 x 30.00m x 3.75m =					900.00 m ²
1 x 19.00m x 3.75m =					71.25 m ²
					1871.25 m ²
(2) Plv & applying paint					
Coat					E12
Qty					
8 x 30.00m x 3.75m =					900.00 m ²
8 x 30.00m x 3.75m =					900.00 m ²
1 x 19.00m x 3.75m =					71.25 m ²
					1871.25 m ²
(3) Plv, Layie & roller of M.S. type 'B'					
8 x 30.00m x 3.75m =					900.00 m ²
8 x 30.00m x 3.75m =					900.00 m ²
1 x 19.00m x 3.75m =					71.25 m ²
					1871.25 m ²
Remarks					
29.12.23					
J.E.					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Const. of Sub-grade					
El shoulder			El		
El shoulder -					
B.T. Portion					
Adjacent to G.S.B.					
$16 \times 30.00 \text{ m} \times 2 \times 1.37 \text{ m} \times 0.20 \text{ m} = 263.04 \text{ m}^3$					
$1 \times 19.00 \text{ m} \times 2 \times 1.37 \text{ m} \times 0.20 \text{ m} = 10.41 \text{ m}^3$					
Adjacent to WBM & M.S.					
$16 \times 30.00 \text{ m} \times 2 \times 1.22 \text{ m} \times 0.095 \text{ m} = 111.26 \text{ m}^3$					
$1 \times 19.00 \text{ m} \times 2 \times 1.22 \text{ m} \times 0.095 \text{ m} = 4.40 \text{ m}^3$					
C.C. Portion					
$16 \times 30.00 \text{ m} \times 2 \times 0.75 \text{ m} \times 0.335 \text{ m} = 90.45 \text{ m}^3$					
$1 \times 12.00 \text{ m} \times 2 \times 0.75 \text{ m} \times 0.335 \text{ m} = 6.03 \text{ m}^3$					
					485.59 m ³
(5) Const. of embankment					
with material obtained					
from borrow pits					
Change	Distance	Area	Mean	Stk	
(m)	(m)	(m ²)	(m ²)	(m ³)	
0	0	2.295	0.00	0.00	
50	50	3.747	3.021	151.050	
100	50	3.586	3.667	183.325	
150	50	2.745	3.166	158.275	
200	50	3.121	2.933	146.650	

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
250	50	4.871		3.716	199.800
300	50	6.068		5.470	273.475
350	50	6.546		6.307	315.35
400	50	5.967		6.257	312.825
450	50	6.969		6.468	323.400
500	50	7.015		6.992	349.600
550	50	7.011		7.013	350.650
600	50	7.013		7.012	350.600
650	50	5.281		6.147	307.380
691.00	50	5.282		5.282	246.542
Link Road					

0.00	0	1.314		0.00	0.00
50.00	50	1.222		1.268	63.400
100.00	50	1.053		1.138	56.875
150.00	50	1.034		1.044	52.175
200.00	50	1.066		1.050	52.500
250.00	50	1.145		1.106	55.275
300.00	50	1.239		1.192	59.600
340.00	40	1.145		1.192	47.680
			total	- 4	026.397 ³
Less					
Sub-grade	vide TMB Page (8)			- (C)	305.59 ³
Shoulder	vide TMB Page (15)			- (C)	485.59 ³
G.S.B.	vide TMB Page (4)			- (C)	327.51 ³
	vide TMB Page (11)			- (C)	12.71 ³

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
to BM ₁₂ - vide TMB Page (12) —				C)	284.56 m ³
C.C.P. - vide TMB Page (13) —				C)	310.46 m ³
MSS - vide TMB Page (14) —				C)	37.43 m ³
(1871.25 m ² × 0.02 m)				22	62.547 m ³
(a) 1000 m lead					
40% of 2262.547 m ³ = 905.02 m ³					
Limited - 846.69 m ³					
(b) 100 m lead					
2262.547 m ³ - 846.69 m ³ = 1415.85 m ³					
(6) P/V & Fixing R.C.C. M15					
grade KM stone —					
(i) ordinary K.M. stone —					02 Nos.
(ii) 1200 m Stone —					04 Nos.
(7) P/V & Fixing of typical					
MMGS4 information sign					
board —					
Logo of project —					01 No.
Maintenance board —					01 No.
					02 Nos.
(8) P/V & Fixing boundary					
Pillar — EIT					
					24 Nos.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(9) Plv & fixing of Reto- reflective Signage — — E/P					
(i) 600 mm equilateral triangle —					04 NTS
(ii) 600 mm circular —					02 NTS
(iii) 800 mm x 600 mm —					02 NTS
(iv) 600 mm x 450 mm —					02 NTS

(10) Plv & laying of hot
applied thermoplastic compound
— — — — — E/P (B.P. Portion)

$$16 \times 30.00 \text{ m} \times 2 \times 0.10 \text{ m} = 96.00 \text{ m}^2$$

$$1 \times 12.00 \text{ m} \times 2 \times 0.10 \text{ m} = 2.40 \text{ m}^2$$

$$99.80 \text{ m}^2$$

$$\text{Limited} = 98.00 \text{ m}^2$$

(11) Plv & laying of hot
applied thermoplastic
compound — — — — — (C.C. Portion)

$$6 \times 30.00 \text{ m} \times 2 \times 0.10 \text{ m} = 36.00 \text{ m}^2$$

$$1 \times 12.00 \text{ m} \times 2 \times 0.10 \text{ m} = 2.40 \text{ m}^2$$

$$11 \times 30.00 \text{ m} \times 2 \times 0.10 \text{ m} = 66.00 \text{ m}^2$$

$$1 \times 10.00 \text{ m} \times 2 \times 0.10 \text{ m} = 2.00 \text{ m}^2$$

$$106.40 \text{ m}^2$$

$$\text{Limited} 100.00 \text{ m}^2$$

(12) Plv & laying
06.02.24
S.E.

06/02/24
D.E.

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Abstract of Con				
(1/2) Setting out Pillar					
—	—	—	ELI		
Qty vide TMB					
Page No. (07) —					
(i) Bench mark Pillar —					
01 No. @ 4851.34/Mo. —					₹ 4851.34
(ii) Reference Pillars —					
03 Nos @ 2225.91/Mo. —					₹ 6678.00
(2/2) clearing & Grubbing					
—	—	—	—	ELI	

Qty vide TMB					
Page No. (07) —					
@ ₹ 50148.62/Hat —					₹ 33399.14
(3/3) Dismantling of existing structure —					
Qty vide TMB					
Page No. (03) —					
@ ₹ Limited 163.50 m ³					
@ ₹ 480.23/m ³ —					₹ 49704.00
(4/4) Box culvert in soil —					
Qty vide TMB					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Page No. (67) - 45.84 m ³					
@ ₹ 77.70/m ³					₹ 3561.40
(5/67) Const. of embankment with material obtained from borrow pit					
Qty. in TMB					
Page No. (17) -					
(a) 1000 m lead					
846.69 m ³ @ 155.23/m ³					₹ 131432.20

(b) 100 m lead -					
1415.85 m ³ @ ₹ 11.25/m ³					₹ 157513.40
(5/8) Const. of sub-grade & earthen shoulders -					
Qty. in TMB					
Page No. (8) - 305.59 m ³					
Page No. (15) - 485.59 m ³					
791.18 m ³					
Limited 790.11 m ³					
@ ₹ 157.47/m ³					₹ 124419.40
(7/24) Const. of C. S. B. by					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Plv, 10 all gravel material					
Qr 2					
Qty vide TMB					
Page No. (8) -		327.51	m ³		
Page No. (11) -		12.71	m ³		
		340.22	m ³		
@ ₹ 3323.40/m ³				₹	1130755.4
(8/10) Plv, layer & spreading					
& compacting of WBM					
G3					

Qty vide TMB					
Page No. (12) -		84.56	m ³		
@ ₹ 4212.87/m ³				₹	1198814.4
(9/11) Plv & apply primer					
Coat					
Qty vide TMB					
Page No. (14) -		1871.25	m ²		
@ ₹ 49.64/m ²				₹	2889.4
(10/12) Plv & apply tack					
Coat					
Qty vide TMB					

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Page No. (14) - 18	71.25	m ²			
@ ₹ 16	77/m ²			2	31381.00
(11/13) DIV, Laying & setting					
of MSS type 'B'					
Qty in the TMB					
Page No. (14) - 18	71.25	m ²			
@ ₹ 219	10/m ²			2	40999.14
(12/16) DIV & Fixing R.C.C.					
M/S grade K. M. Stone -					
Qty in the TMB					
Page No. (17) -					
(i) K. M. Stone -					
02 Nos @ 2545.13/No.				2	5090.4
(ii) 200 m Stone -					
4 Nos @ 700.35/No.				2	2801.4
(13/17) DIV & Fixing of					
typical MMSY Inform					
on iron board -				1	
Qty in the TMB					
Page No. (9) - 02 Nos					
Page No (17) - 02 Nos					
04 Nos					
@ ₹ 10420.68/No.				2	41683.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(14) (14) Plv & fixing boundary pillar	—	—	—	—	—
Qty side TMB	—	—	—	—	—
Page No. (17) - 24 Nos	—	—	—	—	—
@ ₹ 528.60/No.	—	—	—	—	₹ 12686.00
(15) (20) Plv & fixing of Recto-reflectorised signage	—	—	—	—	—
Qty side TMB	—	—	—	—	₹ 2000.00
Page No. (18) —	—	—	—	—	—
(i) 600 mm equilateral triangle	—	—	—	—	—
02 Nos @ 4229.48/No.	—	—	—	—	₹ 16918.00
(ii) 600 mm circular —	—	—	—	—	—
02 Nos @ 5695.12/No.	—	—	—	—	₹ 11390.00
(iii) 800 mm x 600 mm —	—	—	—	—	—
02 Nos @ 7968.59/No.	—	—	—	—	₹ 15937.00
(iv) 600 mm x 450 mm —	—	—	—	—	—
02 Nos @ 5545.09/No.	—	—	—	—	₹ 11090.00
(16) (21) Plv & laying of hot applied thermoplastic compound	—	—	—	—	—
Qty side TMB	—	—	—	—	—
Page No. (18) - 98.00 m	—	—	—	—	—
@ ₹ 867.76/m	—	—	—	—	₹ 85040.00

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(17/22) Plv & layer of hot applied thermoplastic compound — (C.C. Sub)					
Stu inde TMB					
Page no (18) — 100.00 m ²					
@ ₹ 972.67/m ² — — —					₹ 97267.00
(18/23) E/W in excavation of found, —					
Stu inde TMB					
Page no. (09) — 89.40 m ³					
@ ₹ 230.00/m ³ — — —					₹ 20562.00
(19/24) Plv P.C.C. M15 in found, —					
Stu inde TMB					
Page no. (9) — 13.80 m ³					
@ ₹ 6510.25/m ³ — — —					₹ 89841.00
(20/25) Plv P.C.C. M20 in sub-structure —					
Stu inde TMB					
Page no. (09) — 101.22 m ³					
@ ₹ 7487.19/m ³ — — —					₹ 757853.00
(21/26) Reinforcing two coats					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
enclosure	13				
Qty incl TMB					
Page No. (09)					61.92 m ²
@ ₹ 110.65/m ²					₹ 6851.00
(22) (21) Const to 4m-22m					
for c.c. Pavement					
Qty incl TMB					
Page No. (13)					306.00 m ³
@ ₹ 7925.16/m ³					₹ 2425077.00
(23) (22) 1st & 2nd layer R.C.C					
100mm					
Qty incl TMB					
Page No. (14)					22.50 m
@ ₹ 4438.07/m					₹ 99857.00
					₹ 7080534.00
Less 0.11% below					₹ 7789.00
					₹ 7072745.00
Less Previous Paymt					₹ 2911701.00
Certified that					₹ 4161044.00
the work has been					
done as per Spec &					
Dir of E.I.					
Phan...					
06.02.24					
J.E.					

Continuation