

MAHESY NEW S.C

Pr.B.NO-3176

Schedule XIV-Form No. 134

Pr.B.NO-25332/26/9-20

DIVISION

SUB-DIVISION

MEASUREMENT BOOK

Pr.B.NO-3176

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.	
N/W — Shampur Mokhtar Singh ke					
Ghar se (Dandh Hote huye)					
se Shiv Mandir hote huye					
Pondry Tola Tak.					
Length: — 1.000 km					
Agreement No — 25 SBJ/2019-20					
Agency: — Sri Buddu Singh.					
Vill — Gopalbari Tarniya Road,					
P.O + P.S — Maskrukhi Saran.					
Date of Start: — 06.08.2019					
Date of Completion: — 05.08.2020					
Date of entry: — 12.08.2020					
Work done					
① Setting out of benchmark.					
Qty —					01 No.
② Setting of Reference pillar —					
— — — — — e/i					
Qty —					04 Nos.
③ Clearing and grubbing Road					
Land — — — — — e/i					
2x10x4 x 25.00 x 3.50 — 7000.00 sq					
Say 0.70 Hec					
④ Box-cutting of existing					
Road — — — — — e/i					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2x10 x 4 x 25. w x 0.525 x 0.100 - 105.46 sqm					
H.P. Culvert 600mm					
(5) Earthwork in excavation					
--- E/7					
H.W - 2x3.900 x 1.150 x 1.50 - 13.455 cum					
Below pipe - 1x5.350 x 1.130 x 0.365 - 2.207 "					
					15.662 cum
(6) p/v Mis. (PCC 1:2.5:5) as					
Leveling course in foundation					
H.W - 2x3.900 x 1.150 x 0.150 - 1.35 cum					
Below pipe - 1x5.311 x 1.130 x 0.250 - 1.50 "					
					2.85 cum
(7) Brick Masonry work					
in CM (1:4) in H.W					
H.W - 2x3.600 x 0.700 x 2.180 - 10.987 cum					
Parapet - 2x3.600 x 0.400 x 1.200 - 2.456 "					
Less for pipe - 2x0.7857 x (0.830) ² x 0.530 - 0.574 "					
					13.869 cum
(8) p/v and laying R.C.C. pipe					
HP-3 for culvert					
3x2.50					7.50 M
(9) plastering with CM (1:4) on					
brick work - - - E/1					
outside - 2x3.600 x 3.380 - 24.336 sqm					
Inner side - 2x3.600 x 0.600 - 4.320 "					
Top - 2x3.600 x 0.400 - 2.880 "					
Ends - 4x0.700 x 2.180 - 6.104 "					
Ends (Parapet) - 4x0.400 x 1.200 - 1.920 "					
Less - 2x0.7857 x (0.830) ² - 1.083 "					
					38.677 sqm

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑩ p/v 1.5 mm Cement punning					
Top—	2X	3.600	X	0.400	— 2.880 sqm
End parapet—	4X	0.400	X	1.200	— 1.920 "
Inner Sides—	2X	3.600	X	0.600	— 4.320 "
					9.120 sqm
⑪ Painting Two coats on new					
Concrete surface					
2.5 x 2 x 3.600 x 3.380—					60.840 sqm
Rec. slab ceiling					
⑫ Earthwork in excavation					
----- c/f					
Abutment—	2X	9.300	X	2.233	X 1.800— 74.761 cum
Return wall—	4X	1.767	X	2.030	X 1.800— 25.826 "
floor under deck slab—	1X	7.700	X	0.200	X 0.750— 0.385 "
By extra 10% for slope					— 10.097 "
					111.069 cum
⑬ Sand filling in foundation					
1X 7.700 x 1.625 x 0.100—					1.251 cum
⑭ p/v pcc M ₁₅ (1:2.5:5) concrete					
for plain concrete in open found					
Abutment—	2X	9.300	X	2.233	X 0.200— 8.307 cum
Return wall—	4X	1.767	X	2.030	X 0.200— 2.890 "
floor under deck slab—	1X	7.700	X	1.734	X 0.100— 2.003 "
					13.180 cum
⑮ Brick Masonry work in					
CM (1:4) in foundation					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abutment	2	8.400	1.683	1.60	45.239 cum
Return wall	4	1.767	1.480	1.60	16.737 "
					61.976 cum
(16) Brick Masonry in cm					
(1/4) in substructure					
Abutment	2	7.500	0.917	1.30	17.872 cum
Return wall	4	1.984	0.665	1.50	8.389 "
					26.261 cum
(17) plain/reinforced cement					
Concrete (M20) in substructure					
Abutment Cap	2	7.500	0.700	0.200	2.100 cum
Drift wall	2	7.500	0.400	0.240	1.44 "
Return					
Walloping	4	2.200	0.400	0.150	0.528 "
					4.068 cum
(18) p/v Bitumen painting over Top					
Surface of Abutment cap					
Abutment	2	7.500	0.700	—	10.500 sqm
Drift wall	2	7.500	0.240	—	3.600 "
					14.100 sqm
(19) p/v and laying reinforcement cement					
Concrete in superstructure					
	1	7.500	2.560	0.240	4.608 cum
(20) supply fitting and placing HYSD					
bar reinforcement in superstructure					
Abutment Cap and Drift wall @ 45kg/cum					
Qty of concrete					
3.540 cum @ 45kg/cum					
Deck slab @ 105kg/cum per 4.15					
of concrete					
4.608 cum @ 105kg/cum					
483.840 kg					
643.140 kg					
or Say 0.643 MT					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(21) p/v and filling joint sealers					
Compound - - -	28/1				
2X 7.500 ———					15.00 RM
(22) Brick masonry work in					
CM (1:3) in parapet - - -	E/I				
2X 8.000X0.400X0.600 —					3.840 cum
(23) plastering with CM (1:4).					
15mm thick on brick work					
Abutment Sides - 2X 2.000X0.977X1.300					4.766 sqm
Abutment Lower Sides - 2X 7.500X1.30					19.500 "
Return wall front face - 4X 0.665X1.590					4.229 "
Below Abutment					
Return wall (Sides) - 4X 2.084X1.300					10.834 "
Above Abutment					
Return wall - 4X 2.300X0.290					2.668 "
Parapet wall - 4X 8.000X0.600					19.200 "
Parapet wall (Top) - 2X 8.000X0.400					6.400 "
Parapet wall (Ends) - 4X 0.400X0.600					0.960 "
					68.557 sqm
(24) p/v 1.5m Cement pumping					
- - - - -	E/I				
Parapet wall (Sides) - 4X 8.000X0.600					19.200 sqm
Parapet wall (Top) - 2X 8.000X0.400					6.400 "
Parapet wall (Ends) - 4X 0.400X0.600					0.960 "
					26.560 sqm
(25) p/v weepholes in brick					
Masonry - - - - -	E/I				
2X 6 + 4X 4 ———					28 Nos.
(26) Const. of USB by p/v corr.					
graded material - - -	E/I				
profile correction					

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
$1 \times 25.00 \times \frac{3.75 + 4.05}{2} \times 0.075$					7.31 cum
$1 \times 25.00 \times \frac{4.05 + 3.75}{2} \times 0.075$					7.31 "
$2 \times 4 \times 25.00 \times 3.75 \times 0.075$					56.25 "
$1 \times 25.00 \times \frac{3.75 + 5.00}{2} \times 0.075$					8.20 "
$1 \times 25.00 \times \frac{5.00 + 3.75}{2} \times 0.075$					8.20 "
$6 \times 25.00 \times 3.75 \times 0.075$					42.19 "
$1 \times 25.00 \times \frac{3.90 + 3.50}{2} \times 0.075$					6.94 "
					284.95 cum
				Limit	284.06 cum
(3) p/v and applying primer					
Cont with SS-1 -- E/F					
$1 \times 25.00 \times \frac{4.70 + 3.75}{2}$					105.63 sqm
$5 \times 4 \times 25.00 \times 3.75$					1875.00 "
$7 \times 25.00 \times \frac{3.75 + 4.05}{2}$					97.50 "
$7 \times 25.00 \times \frac{4.05 + 3.75}{2}$					97.50 "
$2 \times 4 \times 25.00 \times 3.75$					750.00 "
$1 \times 25.00 \times \frac{3.75 + 5.00}{2}$					109.38 "
$1 \times 25.00 \times \frac{5.00 + 3.75}{2}$					109.38 "
$6 \times 25.00 \times 3.75$					562.50 "
$1 \times 25.00 \times \frac{3.90 + 3.50}{2}$					92.50 "
					3787.39 sq
				Limit	3787.50 sq
(4) p/v and applying Trak					
Cont with RS-1 -- E/F					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Same Qty as per					
Item (3) page - 7					
Qty					3787.50 sq
(5) p/v laying and rolling of					
Close graded premix surfacing					
Same Qty as per					
Item (5) page - 7					
Qty					3787.50 sq
(6) km stone					
Qty					02 Nos.
(7) 200m stone					
Qty					04 Nos.
(8) Boundary pillar					
Qty					100 Nos.
(9) 600 mm circular					
Qty					08 Nos.
(10) 900 mm equilateral triangle					
Qty					04 Nos.
(11) 600mm x 400mm rectangular					
Qty					04 Nos.
(12) Road Marking with Hop					
applied thermoplastic content					
2x10x4x25.00 x 0.100					200.00 sqm
(13) Direction sign board					
Qty					01 No.
(14) p/v and fixing of typical					
MMBS Informatory sign board					
Continuation					
Qty					03 Nos.

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Earthwork Bty sheet</u>					
SL. No.	Chainage	Area	Mean Area	Distance	Volume
			Area	mce	
1	0	1.197			
2	50	2.440	1.819	50	90.925
3	100	2.098	2.269	50	113.450
4	150	1.902	2.000	50	100.000
5	200	1.748	1.825	50	91.250
6	250	2.188	1.968	50	98.400
7	300	2.449	2.319	50	115.925
8	350	2.458	2.454	50	122.675
9	400	3.085	2.772	50	138.575
10	450	4.741	3.913	50	195.650
11	500	5.332	5.037	50	257.825
12	550	4.855	5.094	50	254.675
13	600	4.322	4.589	50	229.425
14	650	4.606	4.464	50	223.200
15	700	5.208	4.907	50	245.350
16	750	4.922	5.065	50	253.250
17	800	4.828	4.875	50	243.750
18	850	6.573	5.701	50	285.025
19	900	6.609	6.591	50	329.550
20	950	2.375	4.492	50	224.600
21	1000	2.448	2.412	50	120.575
Total E/W Bty with crust -					3728.075 cu
Crust W/B E					521.200
W/B M W/B E					284.060 cu

Continuation
Total E/W Bty - 2922.815 cu

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) Const of Embankment —					
— — — — —					
Qty — — — — —					2182.815 cu
(16) Const of Subgrade and					
earth shoulder — — — — —					
Qty — — — — —					740.00 cum
15/09/2020					
15/09/2020					
A.T.R. Regrade					
4215-3260 site 09.09.2020					

Material Statement

(1) Earthwork — — — — —					2922.815 cu
(2) Stone metal — — — — —					844.06 cu
(3) Stone chips — — — — —					122.88 cu
(4) Stone screening — — — — —					68.17 cu
(5) Sand — — — — —					268.47 "
(6) Cement — — — — —					53.07 MT
(7) HYSD Bar — — — — —					0.643 MT
(8) Bricks — — — — —					52973 No
(9) Bitumen Emulsion (SS-1) — — — — —					3.2193 MT
(10) Bitumen Emulsion (RS-1) — — — — —					1.0377 MT
(11) Bitumen (S-90) — — — — —					7.196 MT
		SS-1	RS-1	S-90	S-90 Tax invols DHSS20078285 date 05.08.20
Qty — — — — —	3.300	1.600	9.828		
	3.219	1.027	7.196		

Continuation
 Balua 0.081 0.563 2.632
 15.09.20
 15/9/20
 Az

ABSTRACT OF COST

Sch. XLV—Form No. 134

11

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① Setting out of Benchmark—E/I					
01 No vide MB P-1					
@ Rs 3873 = 09/each					Rs 3873 = 00
② Setting out of Reference pillar					
— — — — — E/I					
04 Nos vide MB P-1					
@ Rs 1783 = 22/each					Rs 7133 = 00
③ Clearing and grubbing Road Land — — — — — E/I					
0.70 Hec vide MB P-1					
@ Rs 49174 = 86/hec					Rs 34422 = 00
④ Box-cutting of existing Road					
— — — — — E/I					
105.00 cum vide MB P-2					
@ Rs 75 = 43/cum					Rs 7920 = 00
⑤ Const of Embankment — — — — — E/I					
2182.815 cum vide MB P-10					
@ Rs 150 = 70/cum					Rs 328950 = 00
⑥ Const of subgrade — — — — — E/I					
740.00 cum vide MB P-10					
@ Rs 222 = 54/cum					Rs 164680 = 00
⑦ Const of GSD by PK course					
graded Material — — — — — E/I					
516.36					
521.20 cum vide MB P-6					
6.89 cum vide MB P-6					
523.25 cum					
Limit 521.20 cum					
@ Rs 3000 = 24/continuation					Rs 1563725 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ p/v Laying, spreading and compacting stone aggregates - 8"					
284.06 cum vide MBP-7					
@ Rs 4300 = 90/cum					Rs 122174 = 0
⑨ p/v and applying primer coats with SS-1 - 8"					
3787.50 sqm vide MBP-7					
@ Rs 48 = 72/sqm					Rs 184527 = 0
⑩ p/v and applying tack coat with RS-1 - 8"					
3787.50 sqm vide MBP-8					
@ Rs 16 = 29/sqm					Rs 61698 = 0
⑪ p/v Laying and rolling of close-graded premix surfacing					
3787.50 sqm vide MBP-8					
@ Rs 250 = 95/sqm					Rs 950473 = 0
⑫/22 Earthwork in excavation - 8"					
151662 cum vide MBP-2					
@ Rs 258 = 89/cum					Rs 4055 = 0
⑬/23 p/v Mix (PCC 1:2.5:5) as levelling course in foundation					
2.846 cum vide MBP-2					
@ Rs 5672 = 73/cum					Rs 16145 = 0
⑭/24 Brick masonry work in CM (1:4) in head walls					
13.869 cum vide MBP-2					
@ Rs 5919 = 85/cum					Rs 82102 = 0

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/25) p/v and casting RCC pipe MD-3 for culverts 7.50 M vide MD P-2 @ Rs 4114 = 68/M ——— Rs 30860 = 20					
(16/26) plastering with cm (1:1:4) on brick work in substructure 38.477 sqm vide MD P-2 @ Rs 163 = 70/sqm ——— Rs 6299 = 40					
(17/27) p/v 1.5 mm cement putting ——— @ 11 9.120 sqm vide MD P-3 @ Rs 48 = 47/sqm ——— Rs 442 = 20					
(18/28) painting two coats on masonry concrete surface 60.840 sqm vide MD P-3 @ Rs 108 = 30/sqm ——— Rs 6601 = 10					
(19/29) earthwork in excavation — — — — — @ 1 111.067 cum vide MD P-3 @ Rs 258 = 89/cum ——— Rs 28755 = 00					
(20/30) sand filling in foundation 1.251 cum vide MD P-3 @ Rs 460 = 92/cum ——— Rs 577 = 00					
(21/31) p/v pcc mix (1:2:5:5) concrete for plain concrete in open 13.180 cum vide MD P-3 @ Rs 5672 = 73/cum ——— Rs 74767 = 00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(22/32) Brick Masonry Work in CM (1:4) in foundation					
61.976 cum vide MB P-4					
@ Rs 5449.37/cum					Rs 337730.00
(23/33) Brick Masonry Work in CM (1:4) in Substructure					
26.261 cum vide MB P-4					
@ Rs 5715.23/cum					Rs 150088.20
(24/34) Plain/Reinforced Cement Concrete (M-20) in Substructure					
4.068 cum vide MB P-4					
@ Rs 6643.02/cum					Rs 27024.20
(24/35) Plastering over Top surface of Abutment					
14.100 sqm vide MB P-4					
@ Rs 1622.5/sqm					Rs 2302.10
(26/36) PW and laying reinforced cement concrete in Substructure (Depth 1.5m)					
4.608 cum vide MB P-4					
@ Rs 7808.07/cum					Rs 35980.20
(27/37) Supplying, fitting and placing HYSD bar reinforcement in S. struct.					
0.643 MT vide MB P-4					
@ Rs 7082.83/MT					Rs 45543.20
(28/38) PW and filling joint sealing compound					
15.00 RM vide MB P-5					
@ Rs 3527.00/RM					Rs 52905.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(29/39) Brick Masonry in cm (1:3) in parapet - 2/1					
3.840 cm vide MB P-5					
@ Rs 6109 = 41/cm					Rs 234602W
(30/40) plastering with cm (1:4) 15 mm thick on brick work.					
68.557 sqm vide MB P-5					
@ Rs 163 = 70/sqm					Rs 112232W
(31/41) p/w 1.5 mm cement grouting					
26.860 sqm vide MB P-5					
@ Rs 48 = 47/sqm					Rs 12872W
(32/42) p/w whapholes in brick masonry					
28 Nos vide MB P-5					
@ Rs 120 = 71/each					Rs 33802W
(33/12) km stone					
02 No. vide MB P-8					
@ Rs 2338 = 79/each					Rs 46782W
(34/13) 200 mm stone					
04 Nos. vide MB P-8					
@ Rs 655 = 16/each					Rs 26212W
(35/14) Boundary pillar					
100 Nos. vide MB P-8					
@ Rs 520 = 20/each					Rs 520202W
(36/15) 600 mm Circular					
08 Nos vide MB P-8					
@ Rs 5656 = 22/each					Rs 452502W

Continuation

Continuation