

M.M.G.S.Y. N.B-19, CHAPRA-2/01

M.B. NO-3441

Schedule XLV-Form No. 134

पुष्टी के अंगरक्षित तह तह

पुष्टी के अंगरक्षित तह तह 114/580/2020-21

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DIVISION

SUB-DIVISION

MEASUREMENT BOOK

M.B. NO-3441

3rd & Final bill

22

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W:- Construction of road from Puchheri to Bher-wasiga under MCHSY (W.B) at block Jalalpur					
N/ Agency- Sri Rajkusham Singh					
Ass. NO- 114/SBD/2020-21					
Date of start- 30.03.2021					
Date of completion- 29.03.2022					
Date of measurement- 07.03.2022					
Items of work					
① ply & applying Primer					
Coat with bitumen emulsion (SS-1) on prepared surface					
1x	20x30.00m	3.75m			2250.00m ²
1x	20x30.00m	3.75m			2250.00m ²
1x	20x30.00m	3.75m			2250.00m ²
1x	20x30.00m	3.75m			2250.00m ²
1x	20x30.00m	3.75m			
1x	1x6.00m	3.75m			22.50m ²
Extra widening at H-levels					
4x	6.00m	0.650m			15.60m ²
2x	5.80m	0.580m			6.72m ²
2x	5.50m	0.600m			6.60m ²
5x	6.00m	0.520m			15.60m ²
6x	5.60m	0.550m			18.48m ²

Qty 40 = 9084.90m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			Qty	B/F	9084.90 m ²
	4	6.60 m	0.50 m		12.60 m ²
	6	5.80 m	0.50 m		34.80 m ²
	8	5.50 m	0.52 m		22.60 m ²
	6	5.70 m	0.50 m		17.10 m ²
	5	6.10 m	0.52 m		15.60 m ²
	6	5.80 m	0.50 m		17.40 m ²
	5	5.60 m	0.50 m		14.60 m ²
	2	4.20 m	2.50 m		21.60 m ²
			Total		9238.20 m ²
			Qty incl		9202.95 m ²

② Plv & applying tack coat
with bitumen emulsion P.S-1
Net Qty = As per Primer coat
= 9202.95 m²

③ Plv, laying & rolling of
close-graded premix surfacing
material as per technical
specification
Net Qty = As per tack coat
= 9202.95 m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(4) Earthwork Calculations.					
S.No	chainage	C/S Area	Mean C/S Area	Dist	volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
1	0	2.233	1.116	0	0.00
2	50	2.083	2.158	50	107.90
3	100	2.845	2.464	50	123.20
4	150	2.679	2.762	50	138.10
5	200	2.517	2.598	50	129.90
6	250	2.818	2.682	50	134.10
7	300	2.043	2.445	50	122.25
8	350	2.200	2.121	50	106.05
9	400	2.343	2.231	50	112.55
10	450	1.667	2.005	50	100.25
11	500	3.000	2.334	50	116.70
12	550	1.918	2.459	50	122.95
13	600	3.154	2.536	50	126.80
14	650	3.674	3.414	50	170.70
15	700	2.049	2.862	50	143.10
16	750	1.876	1.963	50	98.15
17	800	1.808	1.842	50	92.10
18	850	2.796	2.302	50	115.10
19	900	1.859	2.328	50	116.40
20	950	1.713	1.786	50	89.30
21	1000	2.132	1.923	50	96.15
22	1050	2.399	2.266	50	113.30

Qty of 0 = 2476.05 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S/ No	chainage	C/S Area	Mean C/S Area	Dist.	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
			Qty B/F =		2476.05 m ³
23	1100	3.007	2.703	50	135.15
24	1150	3.096	3.051	50	152.55
25	1200	3.285	3.190	50	159.50
26	1250	2.509	2.897	50	144.85
27	1300	1.701	2.105	50	105.25
28	1350	2.074	1.887	50	94.35
29	1400	3.097	2.586	50	129.20
30	1450	1.860	2.479	50	123.95

31	1500	2.970	2.415	50	120.75
32	1550	2.054	2.512	50	125.60
33	1600	4.369	3.212	50	160.60
34	1650	2.501	3.435	50	171.75
35	1700	2.813	2.657	50	132.85
36	1750	3.799	3.306	50	165.30
37	1800	3.348	3.574	50	178.70
38	1850	3.181	3.264	50	163.20
39	1900	2.348	2.764	50	138.20
40	1950	2.324	2.326	50	116.80
41	2000	2.071	2.197	50	109.85
42	2050	2.995	2.533	50	126.65
43	2100	3.676	3.335	50	166.75
44	2150	3.180	3.428	50	171.40

Qty 40 = 5569.35 m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. NO	Chainage	C/S Area	mean C/S Area	Dist.	Volume
	(m)	(m ²)	(m ²)	(m)	(m ³)
			Qty	B/F =	5569.35 m ³
45	2200	2.898	3.039	50	151.95
46	2250	2.084	2.491	50	124.55
47	2300	3.013	2.548	50	127.40
48	2350	3.081	3.042	50	152.35
49	2400	3.649	3.365	50	168.25
50	2450	3.084	3.366	50	168.30
51	2500	3.017	3.050	50	152.50
52	2550	3.015	3.016	50	150.80
53	2600	3.369	3.172	50	159.60
54	2650	2.028	2.698	50	124.90
55	2700	3.012	2.520	50	126.60
56	2750	2.506	2.759	50	137.95
57	2800	2.798	2.652	50	132.60
58	2850	2.260	2.529	50	126.45
59	2900	2.137	2.198	50	109.90
60	2906	1.803	1.970	6	11.82
Total E/W Qty including crest					Total = 7704.67 m ³
Less for L.S.B.T					(-) 1470.29 m ³
Less for W.P.M.					(-) 833.44 m ³
Less for P.C.C					(-) 336.88 m ³
Less for M.S.S					(-) 184.06 m ³
Total Qty of E/W					= 4880.00 m ³
Less for Subgrade & Earthen shoulder					(-) 1875.69 m ³
Net Qty of E/W in embankment					= 3004.31 m ³
Less previous paid Qty					(-) 2056.15 m ³
(1) 100m lead					= 948.16 m ³
(2) 100m lead					= 711.12 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Construction of subgrade & earthen shoulder with approved material.					
For earthen shoulder, for B.T. portion					
Sides of G.S.B					
2x	20x30.00m	1.200m	0.200m		$= 288.00m^2$
2x	20x30.00m	1.200m	0.200m		$= 288.00m^2$
2x	20x30.00m	1.200m	0.200m		$= 288.00m^2$
2x	20x30.00m	1.200m	0.200m		$= 288.00m^2$
2x	1x6.00m	1.200m	0.200m		$= 2.88m^2$
Sides of W.B.M-3					
2x	20x30.00m	1.150m	0.075m		$= 103.50m^2$
2x	20x30.00m	1.150m	0.075m		$= 103.50m^2$
2x	20x30.00m	1.150m	0.075m		$= 103.50m^2$
2x	1x6.00m	1.150m	0.075m		$= 1.03m^2$
For P.C.C portion					
Sides of G.S.B					
2x	10x30.00m	0.625m	0.100m		$= 37.50m^2$
2x	6x30.00m	0.625m	0.100m		$= 22.50m^2$
2x	1x20.00m	0.625m	0.100m		$= 2.50m^2$
Sides of W.B.M-3					
2x	10x30.00m	0.625m	0.075m		$= 11.25m^2$
2x	6x30.00m	0.625m	0.075m		$= 16.87m^2$
2x	1x20.00m	0.625m	0.075m		$= 1.87m^2$
Qty of P.C.C					$= 1679.27m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sides of p.c.e.					Qty RIF = 1677.27m
2x 10x30.10m x 0.625m x 0.10m					= 37.50m ²
2x 6x30.10m x 0.625m x 0.10m					= 22.50m ²
2x 1x20.10m x 0.625m x 0.10m					= 2.50m ²
For Inter section improvement.					
6x 15.10m x 1.200m x 0.60m					= 64.80m ²
8x 12.10m x 1.200m x 0.60m					= 69.12m ²
					Total = 1875.69m ²
(6) Plv & Laying brick Soling Layer on prepared sub-grade with brick on end edging.					
2x 10x30.10m x 0.50m					= 300.10m ²
2x 5x30.10m x 0.50m					= 150.10m ²
					Total = 450.10m ²
(7) Plv & fixing of R.C.C MIS grade kilometre stone = 04 No					
(8) Plv & fixing of R.C.C MIS grade 200m stone = 12 No					
(9) Plv & fixing of R.C.C MIS grade boundary pillars = 80 No					
(10)					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(10) Plv & string of reflecto. - 2 steel battens 8mm 900mm each length 8 nos = 12 Nos					
(11) 600mm x 450mm rectangles = 12 Nos					
(12) 800mm circles = 12 Nos					
(13) 900mm side octagons = 08 Nos (stop sign)					
(14) Plv & applying of hpl applied thermoplastic compound 2.5mm thick					
For B.T. portion					
2 x 20 x 30.10m x 0.10m =					120.10m ²
2 x 20 x 30.10m x 0.10m =					120.10m ²
2 x 20 x 30.10m x 0.10m =					120.10m ²
2 x 20 x 30.10m x 0.10m =					120.10m ²
2 x 1 x 6.10m x 0.10m =					1.20m ²
For C.C. portion					
2 x 10 x 30.10m x 0.10m =					60.10m ²
2 x 6 x 30.10m x 0.10m =					36.10m ²
2 x 1 x 20.10m x 0.10m =					4.04m ²
(15)					
					Total = 581.20m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15) planting of trees by the road sides					
0-1st km	2 X	100 Nos			= 200 Nos
1st-2nd km	2 X	100 Nos			= 200 Nos
2nd-2.40 km	2 X	40 Nos			= 80 Nos
					Total = 480 Nos
(16) plv & laying of R.C.C pipe					
due 300 mm dia across the road					
	6 X	7.50 m			= 45.00 m
	6 X	7.50 m			= 45.00 m
					Total = 90.00 m
(17) plv & erecting of					
direction & place identification sign board					= 02 Nos
(18) plv & study of typical					
mmmm information sign board with logo					= 06 Nos
(19) Brick masonry work in					
ceint masonry (1:3) in					
Parapet wall					
	2 X	3.60 m	0.40 m	1.50 m	= 4.32 m ³
(20) P/V PCC M-20 architectural					
capin on the top of parapet wall					
	2 X	3.60 m	0.40 m		= 7.20 M
	2 X	4.00 m			= 8.00 M
					Total = 15.20 M.

Continuation

Abstract of cost-	
1.	Plv & fixing of working Benchmark pillars 2.91 km, vide TMBP-17 ① Rs 6000 = ①/km - 17,460 = 0
2.	Plv & fixing of reference pillars 2.91 km, vide TMBP-17 ① Rs 600 = ①/km - B 1746 = 0
3.	clearing & grubbing of road land. 1.138 Hect, vide TMBP-17 ① Rs 60,000 = ①/Hect. B 68,280 = 0 40 Rs 87,486 = 0

Scanned with CamScanner

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B1F	P1	87,486=00
4/4. Excavation for road-way in soil using manual means.					
337.56 m ³ , vide TMBP-17					
@ Rs 180=00/m ³				P1	60,761=00
5(i)/5. Construction of embankment with material obtained from borrow pits with a lead up to 100m.					
502.56 m ³ , vide TMBP-18					
739.80 m ³ ,					
@ Rs 250=00/m ³				P1	1,84,900=00
5(ii)/6. Construction of embankment with material obtained from borrow pits with a lead up to 100m.					
1553.59 m ³ , vide TMBP-18					
711.12 m ³ , vide TMBP-26					
2264.71 m ³ ,					
@ Rs 270=00/m ³				P1	6,11,472=00
				P10	9,44,619=00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF	PS	9,44,619 = 60
$\frac{6}{13}$	Construction of granular sub-base by properly well graded material.				
	160.35 m ³ , vide TMBP-18				
	① PS 3500 = 60/m ³ - B				5,61,225 = 60
$\frac{7}{14}$	Plv, leveling, spreading & compacting of WBM-3				
	143.22 m ³ , vide TMBP-18				
	② PS 3800 = 60/m ³ - B				5,44,236 = 60

$\frac{8}{15}$	Construction of un-reinforced plain cement concrete base (panel concrete) as per technical specification				
	190.98 m ³ , vide TMBP-19				
	③ PS 8000 = 60/m ³ - B				15,27,840 = 60
$\frac{9}{17}$	Plv P.C.C. MIS grade in sub-structure (drain portion)				
	145.90 m ³ , vide TMBP-19				
	④ PS 6200 = 60/m ³ - B				9,04,580 = 60
			c/o	PS 44,82,500 = 60	

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F, Rs	44,82,501 = 0
<u>10</u> 8. Construction of granular sub-base by putting well graded material.					
1309.94 m ² , vide TMBB-19					
① Rs 3500 = 0/m ² - Rs					45,84,790 = 0
<u>11</u> 9 p/v, laying, spreading & Compacting of WBM-3					
690.22 m ² , vide TMBB-19					
① Rs 3800 = 0/m ² - Rs					26,22,83 = 0
<u>12</u> 7. Construction of subgrade in earthen shoulder					
with approved material.					
1875.69 m ² , vide TMBB-28					
① Rs 250 = 0/m ² - Rs					4,68,922 = 0
<u>12</u> 10 p/v & applying primer coat with bitumen emulsion SS-1					
9202.95 m ² , vide TMBB-23					
① Rs 50 = 0/m ² - Rs					4,60,147 = 0
<u>14</u> 11 p/v & applying tack coat with bitumen emulsion RS-1					
9202.95 m ² , vide TMBB-23					
① Rs 15 = 0/m ² - Rs					1,38,044 = 0
				40, Rs	1,27,57,239 = 0

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			BIF	RS 1,53,46,377=	
19 20		P.V. & dining up	R.C.C		
		mis scale boundary			
		pillars			
80.00	NOT	vide TMBP-28			
		(U) Rs 50000/No-B			40,000=
20 22		P.V. & dining up retro-			
		reflective traffic			
		sign board (900mm			
		canalateral/strangle)			
		L/R Canal			
12.00	NOT	vide TMBP-29			
		(U) Rs 50000/No-B			60,000=
21 21		600mm circular			
12.00	NOT	vide TMBP-29			
		(U) Rs 45000/No-B			54,000=
22 23		600mm x 450mm			
		canalateral (school &			
		place)			
12.00	NOT	vide TMBP-29			
		(U) Rs 60000/No-B			72,000=
23 24		900mm side octagon			
		(step 6mm)			
8.00	NOT	vide TMBP-28			
		(U) Rs 45000/No-B			36,000=
				40, Rs 1,56,08,377	

Continuation

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Particulars	Details of actual measurement			Contents of area
	No.	L.	B.	
			BIF B	1,56,08,377 = a
24 25	P.V. & Laying of hot applied thermoplastic compound 2.5mm thick			
	581.20 m ² vide TMBL-29			
	① B 800 = a/m ² - B			4,64,960 = a
25 26	Planting of trees by the road side			
	480.00 No. vide TMBL-30			
	① B 600 = a/No - B			2,88,000 = a
26 27	P.V. & Laying of a R.C.C. pipe duct 300mm dia			
	90.00 m, vide TMBL-30			
	① B 1200 = a/m - B			1,08,000 = a
27 28	P.V. & erecting direction & place ident. direction sign board			
	2.00 No. vide TMBL-30			
	① B 1,00,000 = a/No - B			2,00,000 = a
28 29	P.V. & fixing of typical mms. & info. nuth sign board with logo			
	06.00 No. vide TMBL-30			
	① B 80,000 = a/No - B			4,80,000 = a
				90. B 1,71,49,337 = a

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			81.8	Rs 1,71,49,337 =	60
28 29					
Brick masonry work					
in kerb masonry					
for parapet wall,					
4.32 m ² vide TMBP-80					
① Rs 600000/m ² - B				25,92000	
30 31					
Providing P.C.C m-20					
architectural coping on					
the top of wall,					
15.20 m, vide TMBP-30					
① Rs 250000/m - B				38,00000	
31 32					
Plastering masonry					
work (1:4) on brick					
work in sub structure.					
12.96 m ² , vide TMBP-31					
① Rs 200000/m ² - B				2592000	
				Total B 1,72,15,849 =	
Add 1% L.C.W + B				1,72,158 =	
Add 12% (GST) + B				20,65,902 =	
Add S.Pee + B				2,00,000 =	
				Total B 1,96,53,909 =	
				Less Provision Payable + B	1,31,07,916 =
				Net Payable Amount	Rs 65,45,993 =
				(Rupees sixty five lakh, forty	
				five thousand, nine hundred	
				& ninety three) only.	

M.M.
07/03/22
(J.E) Continuation