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୧୭.୧୩.୩୦-୩୩୧୪

ଫାକ୍ଟରୀରୁ ଉତ୍ପାଦିତ ଉପକରଣର ମାପାବଳୀ ଏବଂ ଉପକରଣର ମାପାବଳୀର ମାପ

Schedule XLV Form No. 134.

ଫାକ୍ଟରୀରୁ ଉତ୍ପାଦିତ ଉପକରଣର ମାପାବଳୀ

୦୨ ଫାକ୍ଟରୀରୁ ଉତ୍ପାଦିତ ଉପକରଣର ମାପାବଳୀ

DIVISION

ଫାକ୍ଟରୀରୁ ଉତ୍ପାଦିତ ଉପକରଣର ମାପାବଳୀ

SUB-DIVISION

ଫାକ୍ଟରୀରୁ

Measurement Book

୧୭.୧୩.୩୦-୩୩୧୪

4th & Final bill

20

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W: - Construction of Road from Deraniya Mukhya Path to Jalapur Path (Harjan to Tak under mmkSY (SC) at block Jalapur					
N/Agency - Sri Rambabu Kumar					
Ass. NO - 51/SB.D/2020-21					
Date of start - 25.09.2020					
Date of Completion - 24.09.2021					
Date of measurement - 29.04.2021					
Items of works.					
① Plv & applying primer coat with bitumen emulsion SS-1					
1x 10x30.00m x 3.75m =					1125.00m ²
1x 10x30.00m x 3.75m =					1125.00m ²
1x 10x30.00m x 3.75m =					1125.00m ²
1x 3x30.00m x 3.75m =					337.50m ²
1x 1x20.00m x 3.75m =					75.00m ²
Extra width at Hr. curve					
2x 5.60m x 0.550m =					6.16m ²
4x 5.50m x 0.60m =					13.20m ²
3x 5.80m x 0.550m =					9.57m ²
3x 6.00m x 0.560m =					10.08m ²
				Total =	3826.51m ²
				Qty. Rate =	3825.38m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(2) Plv & applying tack coat with bitumen emulsion PS-1					
Net Area = Area of Primer Coat					
					$= 3825.38 \text{ m}^2$
(3) Plv, leveling and rolling of close-graded Premix Surfacing material.					
Net Area = Area of tack coat					
					$= 3825.38 \text{ m}^2$
(4) Construction of unreinforced plain concrete pavement as per technical specifications					
1 x 5.0 m x 3.400 m x 0.16 m					$= 2.72 \text{ m}^3$
2 x 30.0 m x 3.75 m x 0.16 m					$= 36.00 \text{ m}^3$
1 x 9.50 m x 3.75 m x 0.16 m					$= 5.70 \text{ m}^3$
					Total = 44.42 m ³
(5) Construction of sub-grade & gutter shoulder					
For B.T. Portion, sides of ditch,					
2 x 10 x 30.0 m x 0.975 m x 0.10 m					$= 58.50 \text{ m}^3$
sides of ditch					
2 x 10 x 30.0 m x 0.975 m x 0.10 m					$= 58.50 \text{ m}^3$
2 x 10 x 30.0 m x 0.975 m x 0.10 m					$= 58.50 \text{ m}^3$
2 x 3 x 30.0 m x 0.975 m x 0.10 m					$= 17.55 \text{ m}^3$
2 x 1 x 30.0 m x 0.975 m x 0.10 m					$= 3.90 \text{ m}^3$
					Qty 40 = 196.95 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sides of W.B.M.				Qty B/F	196.95m ²
2x10x30.00m x 1.125m x 0.075m					50.625m ²
2x10x30.00m x 1.125m x 0.075m					50.625m ²
2x10x30.00m x 1.125m x 0.075m					50.625m ²
2x8x30.00m x 1.125m x 0.075m					15.18m ²
2x1x20.00m x 1.125m x 0.075m					3.37m ²
⑥ Construction of Sub-grade of Earthen Shoulder for P.C.C. formation.				Total =	367.37m ²
Sides of G.S.B.					
2x8x30.00m x 0.815m x 0.100m				M ²	39.12m ²
Sides of W.B.M.					
2x8x30.00m x 0.625m x 0.075m					22.50m ²
Sides of P.C.C.					
2x8x30.00m x 0.625m x 0.160m					48.00m ²
				Total =	109.62m ²

⑦ Earthwork Calculation:-

S/NO	chainage (m)	C/S Area (m ²)	Mean C/S Area (m ²)	Dist (m)	Volume (m ³)
1	0	1.080	0.540	0	0.00
2	50	1.472	1.276	50	63.800
3	100	1.687	1.580	50	79.000
4	150	1.508	1.598	50	79.900
5	200	1.602	1.555	50	77.750
6	250	1.623	1.613	50	80.650
7	300	2.072	1.848	50	92.400
8	350	1.767	1.920	50	96.000
9	400	1.914	1.841	50	92.050
10	450	1.707	1.811	50	90.550
11	500	2.160	1.920	50	96.700

Qty C/O = 848.80m³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Sl. No	chainage	CS Area	mean CS Area	Dist	volume
	(m)	(m ²)	(m ²)	(m)	m ³
12	550	1.620	1.890	50	848.80 m ³ 94.50 m ³
13	600	1.419	1.520	50	76.00 m ³
14	650	1.660	1.540	50	77.00 m ³
15	700	1.965	1.813	50	90.65 m ³
16	750	1.847	1.906	50	95.30 m ³
17	800	1.978	1.913	50	95.65 m ³
18	850	1.709	1.844	50	92.20 m ³
19	900	1.768	1.739	50	86.95 m ³
20	950	1.060	1.414	50	70.70 m ³
21	1000	1.407	1.234	50	61.70 m ³
22	1050	1.443	1.425	50	71.25 m ³
23	1100	1.640	1.542	50	77.10 m ³
24	1150	1.693	1.667	50	83.35 m ³
25	1200	1.080	1.387	50	69.35 m ³
26	1250	1.472	1.276	50	63.80 m ³
Total Qty including cut =					2054.30 m ³
Less for U.S. R (-) =					549.50 m ³
" " W.B.M. (-) =					354.36 m ³
" " M.S.S (-) =					76.50 m ³
" " P.C.C (-) =					145.44 m ³
Net Qty of Earthwork for embankment =					928.50 m ³
Less Earthwork should be (wide T.M.B. 22)					476.99 m ³
Net Qty of earthwork in embankment =					451.51 m ³
Already paid Qty of E/W in embankment =					434.43 m ³
Net Payable Qty =					17.08 m ³

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑧ Plv & laying of R.C.C. pipe duct 300 mm dia across the road —					
		3 x 2.50 M = 7.50 M			
		Qty Cement = 6.00 M.			
⑨ Plv & fixing of R.C.C. MIS grade boundary pillars At curve —					
		2 x 5 NOS = 10 NOS			
		1 x 4 NOS = 4 NOS			
		Total = 14 NOS			
⑩ Plv & fixing of R.C.C. MIS grade Kilometer Stone = 03 NOS					
⑪ Plv & fixing of 200 mm Stone = 05 NOS					
⑫ Plv & fixing of retro-reflector-rised traffic sign 600 mm equilateral & triangles = 02 NOS					
⑬ 600 mm circular = 02 NOS					
⑭ 600 mm x 450 mm rectangular = 01 NOS					
⑮ Plv & erecting direction & place identification sign board = 04 NOS					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(16) Plv & ceiling of applied thermo plastic Compound 25 mtr thick					
For B.T. Portion					
2x 20x30.00m x 0.10m					120.00m ²
2x 13x30.00m x 0.10m					78.00m ²
2x 1x20.00m x 0.10m					4.00m ²
For C.C. Portion					
2x 5x30.00m x 0.10m					30.00m ²
2x 3x30.00m x 0.10m					18.00m ²
					Total = 250.00m ²

(17) Plv & drying of typical masonry indentation bad water logg ± 0.1 No					
(18) Brick masonry work in c.m (1:3) in parapet wall. For H.P. culvert - 02 No					
2x 2 x 6.00m x 0.400m x 0.60m					5.76m ²
(19) Plv P.C.C. m-20 coping on the top of wall.					
2x 2 x 6.00m = 24.00m					
(20) Plastering with c.m (1:4) on brick work.					
outer side	2x2	2x6.00m	0.60m		28.80m ²
inner side	2x2	6.00m	0.40m		9.60m ²
Top,	2x2	2x0.40m	0.60m		1.92m ²
Ends	2x2	2x0.40m	0.60m		1.92m ²
					Total = 40.32m ²

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Abstract of cost-					
1. P.V. & fixing of working					
Benchmark pillars,					
1.250 Km, vide TMAP-15					
① Rs 5937-69/Km-Rs					7425200
2. clearing & grubbing of					
road land -					
0.250 Hect, vide TMAP-15					
② Rs 51133-76/Hect-Rs					12,783200
3. Excavation for grading					
for soil using manual					
means:					
124.05 m ³ vide TMAP-16					
③ Rs 126224/m ³ -Rs					15,660000
4. Construction of embankment					
with approved material					
deposited from					
roadway cutting.					
74.43 m ³ , vide TMAP-16					
④ Rs 88236/m ³ -Rs					6577200
5. Construction of embankment.					
with a lead up to					
1000 m.					
360.00 m ³ , vide TMAP-16					
17.08 m ³ , vide TMAP-23					
377.08 m ³ ,					
⑤ Rs 184230/m ³ -Rs					69,496000
⑥ Rs 1,11,941=00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
				B/F, Rs	1,11,941 = ∞
6					
8. Construction of granular Sub-base in proximity					
Cours graded material.					
549.50 m ³ , vide TMBP-16					
(a) Rs 3195 = 28/m ³ - B					17,55,806 = ∞
7					
9. P.V., laying, spreading & compacting of					
WBM-3					
354.36 m ³ , vide TMBP-17					
(a) Rs 3901 = 38/m ³ - B					13,82,493 = ∞
8					
23+24+25. P.V. & lining of typical					
manhole & intermediate					
sign board with logo					
02 Nos, vide TMBP-17					
01 No, vide TMBP-25					
03 Nos					
(a) Rs 9342 = 45/No - B					28,027 = ∞
9					
13. Construction of 0.8m -					
reinforced plain					
cent concrete					
Parent aspect technical					
Specification.					
102.74 m ³ , vide TMBP-17					
44.42 m ³ , vide TMBP-21					
147.16 m ³					
at limit 145.44 m ³					
(a) Rs 7551 = 36/m ³ - B					10,98,270 = ∞
					40 Rs 49,76,537 = ∞

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					B/E Rs 43,76,537.00
<u>10</u> <u>10</u>	Plv & applying				
	Primer coat white,				
	bitumen emulsion SS-1				
	3825.38 m ² vide TMBP-20				
	(U) Rs 45 = 39/m ² — Rs				1,73,634.60
<u>11</u> <u>11</u>	Plv & applying tack				
	coat with bitumen				
	emulsion RS-1				
	3825.38 m ² vide TMBP-21				
	(U) Rs 15 = 61/m ² — Rs				59,714.00
<u>12</u> <u>12</u>	Plv, & laying & rolling				
	of close-graded				
	poorly subgrade material				
	3825.38 m ² vide TMBP-21				
	(U) Rs 242.21/m ² — Rs				9,26,545.00
<u>13</u> <u>13</u>	Construction of subgrade				
	& earthen shoulder				
	367.37 m ³ vide TMBP-22				
	(U) Rs 210 = 88/m ³ — Rs				77,471.00
<u>14</u> <u>14</u>	Construction of sub-				
	-grade & earthen				
	shoulder				
	109.62 m ³ vide TMBP-22				
	(U) Rs 210 = 88/m ³ — Rs				23,117.00
					C/P Rs 56,37,018.00

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B/E	D	56,37,018 = 0
<u>15</u> 14.	Plr & Locing of R.C.C				
	pipe duct 300mm				
	dig.				
	6.00 M, side T.M.P.P. 24				
	(10) Rs 836.75/m - Rs				50202.60
<u>16</u> 15.	Plr & Locing of R.C.C				
	misgrade boundary				
	billey.				
	14 Nos, side T.M.P.P. 24				
	(10) Rs 505200/No-B				70702.0
<u>17</u> 16.	Plr & Locing of R.C.C				
	mis grade boundary				
	Stones				
	03 Nos, side T.M.P.P. 24				
	(10) Rs 219243/No-B				65982.0
<u>18</u> 17.	Plr & Locing 200m				
	stones				
	05 Nos, side T.M.P.P. 24				
	(10) Rs 620253/No-B				31032.0
<u>19</u> 18.	Plr & Locing of retro.				
	reflectors of traffic				
	Sign board				
	600m e, lateral				
	triangle.				
	02 Nos, side T.M.P.P. 24				
	(10) Rs 358212/No-B				71642.0
	40 Rs 56,65,973 = 0				0

Continuation

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