

N/W: NANDLALPUR NEW MR-3054 TO AHLADPUR. Length: 4.296k

Schedule XLV-Form No. 134

AGREEMENT NO: 031MBD123-24

DATE of start: 16/10/23

DATE of completion: 15/7/24

Rate of Agreement = 10% below

DIVISION

Const: 314.79044 Cact

SUB-DIVISION

MCHT: 75.84193 Cact

MEASUREMENT BOOK

प्रमाणित किया जाता है कि ऊपर मापी
प्रदत्त में मापंकित = 10000 मूट है। जो स.स.स.
अभि ई.आ.पी. के मापन के अनुसार लिया जाता है

21/3/24
Executive Engineer
R.M.D. Works Division
Hajipur
21.03.24

इसे मापी हुई को कमी प्रमाणित
कार्य और मापंकित *21/3/24*
को मरिचकी जा रही है

21/3/24
सहायक अभियंता
प्र.स.स.स.
हजिपुर

Sch. XLV—Form No. 134

_____ DIVISION

_____ SUB-DIVISION

Measurement Book

No.

Name of Officer _____

Date of first entry _____

Date of last entry _____

1st On Ale bill

1

Name to 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:-	Nandlalpur to Ahladpur.				
	under MR 3054.				
Agency:-	Abhay construct, Sonapur				
Agreement No.:	03/MRD/2023/24				
Date of Commencement:	16/10/23				
Date of completion:	15/7/24				
Date of Actual completion:					
Work done.					
① clearing and grubbing road					
land — do — cut complete					

2 x 30 x 30 x 1.0 =	1800 m ²
2 x 10 x 30 x 1.0 =	600 m ²
2 x 5 x 30 x 1.0 =	300 m ²
2 x 8 x 30 x 1.0 =	480 m ²
2 x 1 x 30 x 1.0 =	60 m ²
2 x 20 x 30 x 1.0 =	1200 m ²
2 x 30 x 30 x 1.0 =	1800 m ²
2 x 20 x 30 x 1.0 =	1200 m ²
2 x 10 x 30 x 1.0 =	600 m ²
2 x 9 x 30 x 1.0 =	540 m ²
2 x 1 x 6 m x 1.0 =	12 m ²
	Rate 8592/m ²
	here 8592 - 0.8592/m ²
	10000 met
	=

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
② Construction of Subgrade and					
Earthwork Shoulder — do — all comp					
$2 \times 30 \times 30 \times 0.7 + 0.8$					$\frac{2 \times 30 \times 30 \times 0.7 + 0.8}{2} = 15.5 \text{ m}^3$
$2 \times 10 \times 30 \times \frac{.7 + .8}{2} \times .30$					$\frac{2 \times 10 \times 30 \times \frac{.7 + .8}{2} \times .30}{2} = 57.75 \text{ m}^3$
$2 \times 5 \times 30 \times \frac{.7 \times .8 + .25}{2}$					$\frac{2 \times 5 \times 30 \times \frac{.7 \times .8 + .25}{2}}{2} = 57.75 \text{ m}^3$
$2 \times 8 \times 30 \times \frac{.8 \times .30}{2}$					$\frac{2 \times 8 \times 30 \times \frac{.8 \times .30}{2}}{2} = 115.20 \text{ m}^3$
$2 \times 1 \times 30 \times \frac{.8 + .7}{2} \times .30$					$\frac{2 \times 1 \times 30 \times \frac{.8 + .7}{2} \times .30}{2} = 13.50 \text{ m}^3$
$2 \times 20 \times 30 \times \frac{.8 \times .30}{2}$					$\frac{2 \times 20 \times 30 \times \frac{.8 \times .30}{2}}{2} = 288.00 \text{ m}^3$
$2 \times 30 \times 30 \times \frac{.8 \times .30}{2}$					$\frac{2 \times 30 \times 30 \times \frac{.8 \times .30}{2}}{2} = 415.20 \text{ m}^3$
$2 \times 10 \times 30 \times \frac{.8 \times .25 + .30}{2}$					$\frac{2 \times 10 \times 30 \times \frac{.8 \times .25 + .30}{2}}{2} = 150.00 \text{ m}^3$
$2 \times 9 \times 30 \times \frac{.8 \times .30}{2}$					$\frac{2 \times 9 \times 30 \times \frac{.8 \times .30}{2}}{2} = 129.60 \text{ m}^3$

$$2 \times 1 \times 6 \times \frac{.8 + .7}{2} \times \frac{.3 + .25}{2} = 2.175 \text{ m}^3$$

$$\frac{2 \times 1 \times 6 \times \frac{.8 + .7}{2} \times \frac{.3 + .25}{2}}{2} = 1.0875 \text{ m}^3$$

$$\text{Total} = 1585.52 \text{ m}^3$$

$$= 15710.52 \text{ m}^3$$

③ Const of granular sub base

— do — all comp					
$1 \times 100 \text{ m} \times 4.05 \times 10$					$= 48.60 \text{ m}^3$
$5 \times 1.20 \times 0.8 \times 10$					$= 0.48 \text{ m}^3$
$7 \times 1.16 \times 0.82 \times 10$					$= 0.65 \text{ m}^3$
$3 \times 0.88 \times 0.43 \times 10$					$= 0.11 \text{ m}^3$
$5 \times 1.20 \times 0.93 \times 10$					$= 0.56 \text{ m}^3$
$7 \times 2.02 \times 1.68 \times 10$					$= 2.38 \text{ m}^3$
$9 \times 1.94 \times 1.16 \times 10$					$= 2.00 \text{ m}^3$
$7 \times 1.42 \times 1.39 \times 10$					$= 1.44 \text{ m}^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	10X	1.28X	1.23X	•10=	1.57 mp
	5X	1.44X	1.32X	•10=	0.95 mp
	10X	1.25X	1.16X	•10=	1.45 mp
	12X	1.34X	1.22X	•10=	1.96 mp
	8X	1.26X	1.18X	•10=	1.19 mp
	9X	1.56X	1.58X	•10=	2.22 mp
	7X	1.18X	1.1X	•10=	0.91 mp
	8X	1.34X	1.18X	•10=	1.26 mp
	5X	1.56X	1.58X	•10=	1.23 mp
	10X	1.26X	0.8X	•10=	1.01 mp
	4X	1.32X	1.1X	•10=	0.58 mp
	5X	1.19X	0.8X	•10=	0.48 mp
	8X	1.3X	0.74X	•10=	0.61 mp
	9X	2.1X	0.99X	•10=	0.98 mp
	10X	2.18X	1.08X	•10=	1.27 mp
	9X	1.18X	1.20X	•10=	1.27 mp
	7X	1.34X	1.18X	•10=	1.11 mp
	8X	1.58X	1.54X	•10=	1.91 mp
	9X	1.47X	1.38X	•10=	1.83 mp
	10X	1.41X	1.16X	•10=	1.64 mp
	12X	1.27X	1.16X	•10=	1.77 mp
	8X	1.09X	1X	•10=	0.87 mp
	3X	1.18X	0.94X	•10=	0.33 mp
	7X	1.26X	1X	•10=	0.88 mp
	9X	1.09X	1.16X	•10=	1.14 mp
	8X	1.27X	1.13X	•10=	1.15 mp
	5X	1.32X	1.20X	•10=	0.79 mp

Continuation

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	12	1.68	1.52	0.075	2.30 mp
	8	1.57	1.48	0.075	1.29 mp
	9	1.95	1.98	0.075	2.61 mp
	7	1.47	1.38	0.075	1.07 mp
	8	1.68	1.48	0.075	1.49 mp
	5	1.95	1.98	0.075	1.48 mp
	10	1.58	1	0.075	1.19 mp
	4	1.65	1.38	0.075	0.68 mp
	5	1.49	1	0.075	0.56 mp
	8	1.25	0.95	0.075	0.71 mp
	9	1.38	1.24	0.075	1.16 mp
	10	1.48	1.35	0.075	1.50 mp
	9	1.47	1.5	0.075	1.49 mp
	7	1.68	1.48	0.075	1.31 mp
	8	1.94	1.92	0.075	2.23 mp
	9	1.84	1.72	0.075	2.14 mp
	10	1.76	1.45	0.075	1.91 mp
	12	1.59	1.48	0.075	2.07 mp
	8	1.36	1.25	0.075	1.02 mp
	3	1.47	1.17	0.075	0.39 mp
	7	1.58	1.25	0.075	1.04 mp
	9	1.36	1.48	0.075	1.33 mp
	8	1.59	1.47	0.075	1.35 mp
	5	1.65	1.58	0.075	0.98 mp
	4	1.45	1.26	0.075	0.58 mp
	10	1.12	1.05	0.075	0.88 mp

Continuation

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
⑤ Privately, laying and spreading					
1037-6m 11 - da - all length					
1x 1.40x 3.05x 0.075					33.75 m ³
5x 1.65x 1.15x 0.075					0.71 m ³
7x 1.6x 1.17x 0.075					0.98 m ³
3x 1.21x 0.62x 0.075					0.17 m ³
5x 1.65x 1.33x 0.075					0.82 m ³
7x 2.77x 2.42x 0.075					3.52 m ³
9x 2.64x 1.67x 0.075					2.98 m ³
7x 2.04x 2x 0.075					2.14 m ³
10x 2.64x 1.71x 0.075					2.34 m ³
5x 1.98x 1.9x 0.075					1.41 m ³
10x 1.67x 1.67x 0.075					2.12 m ³
12x 1.85x 1.75x 0.075					2.91 m ³
8x 1.73x 1.70x 0.075					1.76 m ³
9x 2.15x 2.28x 0.075					3.31 m ³
7x 1.62x 1.81x 0.075					1.35 m ³
8x 1.85x 1.70x 0.075					1.89 m ³
5x 2.15x 2.28x 0.075					1.84 m ³
10x 1.71x 1.15x 0.075					1.50 m ³
4x 1.82x 1.59x 0.075					0.87 m ³
5x 1.64x 1.15x 0.075					0.71 m ³
8x 1.38x 1.09x 0.075					0.90 m ³
9x 1.52x 1.43x 0.075					1.49 m ³
10x 1.65x 1.55x 0.075					1.89 m ³
9x 1.62x 1.73x 0.075					1.87 m ³
7x 1.85x 1.71x 0.075					1.65 m ³

Continuation

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	8	2.13	2.21	0.075	2.82 m ²
	9	2.02	1.98	0.075	2.570 m ²
	10	1.94	1.67	0.075	2.43 m ²
	12	1.75	1.67	0.075	2.03 m ²
	8	1.5	1.44	0.075	1.30 m ²
	3	1.62	1.35	0.075	0.49 m ²
	11	1.74	1.44	0.075	1.32 m ²
	9	1.5	1.67	0.075	1.67 m ²
	8	1.75	1.62	0.075	1.70 m ²
	5	1.82	1.23	0.075	1.18 m ²
	4	1.6	1.45	0.075	0.70 m ²
	10	1.23	1.21	0.075	1.12 m ²
	5	1.38	1.21	0.075	0.68 m ²
	9	1.5	1.44	0.075	1.32 m ²
	10	1.23	1.21	0.075	1.12 m ²
	5	1.38	1.21	0.075	0.68 m ²
	8	1.5	1.44	0.075	1.32 m ²
	9	1.63	1.55	0.075	1.57 m ²
	8	1.86	1.67	0.075	1.86 m ²
	7	1.74	1.7	0.075	1.55 m ²
	5	1.82	1.59	0.075	0.97 m ²
	8	1.5	1.45	0.075	1.21 m ²
	9	1.28	1.21	0.075	1.22 m ²
	7	1.38	1.32	0.075	0.96 m ²
	8	1.6	1.43	0.075	1.59 m ²
	10	1.82	1.67	0.075	2.28 m ²
	4	2.02	1.9	0.075	1.15 m ²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L	B	O.	
	10x	1.65x	1.55x	0.075	= 1.89 m ²
	5x	1.85x	1.70x	0.075	= 1.18 m ²
	7x	1.65x	1.45x	0.075	= 1.24 m ²
	8x	2.7x	2.31x	0.075	= 3.54 m ²
	10x	2.75x	2.39x	0.075	= 4.89 m ²
	9x	2.2x	2.12x	0.075	= 3.21 m ²
	8x	2.25x	2.12x	0.075	= 2.87 m ²
	10x	2.55x	1.9x	0.075	= 2.35 m ²
	7x	1.82x	1.77x	0.075	= 1.62 m ²
	9x	1.6x	1.55x	0.075	= 1.52 m ²
	3x	2.24x	2.24x	0.075	= 1.13 m ²
	10x	2.84x	2.88x	0.075	= 6.15 m ²
	8x	2.59x	2.46x	0.075	= 3.82 m ²
	10x	1.85x	1.77x	0.075	= 2.46 m ²
	9x	1.65x	1.55x	0.075	= 1.71 m ²
	12x	2.15x	1.7x	0.075	= 3.29 m ²
	8x	1.82x	1.77x	0.075	= 1.93 m ²
	10x	1.67x	1.65x	0.075	= 2.04 m ²
	12x	2.12x	2.12x	0.075	= 4.04 m ²
	10x	2.25x	2.28x	0.075	= 3.83 m ²
	7x	2.37x	2.12x	0.075	= 2.64 m ²
	8x	2.15x	1.81x	0.075	= 2.93 m ²
	10x	0.72x	1.25x	0.075	= 0.69 m ²
	7x	1.74x	1.44x	0.075	= 1.52 m ²
	9x	1.64x	1.77x	0.075	= 1.76 m ²
	8x	1.47x	1.9x	0.075	= 1.70 m ²
	12x	1.29x	1.55x	0.075	= 1.94 m ²

Continuation

Total = 179.82 m²
 Qty. laid to = 144.82 m²
 171.20 m²

② Provide and apply tack coat	
wtv (Rs.)	do - allowance
1x 2x30x3.75 =	2250.00 m ²
1x 10x30x3.75 =	1125.00 m ²
1x 5x30x3.75 =	562.50 m ²
1x 12x30x3.75 =	1350.00 m ²
1x 30x30x3.75 =	3375.00 m ²
1x 20x30x3.75 =	2250.00 m ²
1x 10x30x3.75 =	1125.00 m ²
1x 10x30x3.75 =	1125.00 m ²
1x 20x30x3.75 =	2250.00 m ²
1x 10x30x3.75 =	1125.00 m ²
1x 30x3.75 =	42.50 m ²
1x 30x3.75 =	112.50 m ²

Continuation

add. 1/4. Extra work. :-

$1467375m$
 $(+)$ $14673m^2$

 $14820.48m$

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Track coat with MSS					
					2.2 = 2121.724 sqm
					Total = 16945.21 m ²
(9) Providing and laying SDBC					
					— do — all comp
					2 x 30 x 3.75 x 0.025 = 5.625 m ³
					10 x 30 x 3.75 x 0.025 = 28.125 m ³
					5 x 30 x 3.75 x 0.025 = 14.06 m ³
					12 x 30 x 3.75 x 0.025 = 32.75 m ³
					30 x 30 x 3.75 x 0.025 = 84.375 m ³
					20 x 30 x 3.75 x 0.025 = 56.25 m ³
					10 x 30 x 3.75 x 0.025 = 28.125 m ³
					10 x 30 x 3.75 x 0.025 = 28.125 m ³
					20 x 30 x 3.75 x 0.025 = 56.25 m ³
					10 x 30 x 3.75 x 0.025 = 28.125 m ³
					1 x 30 x 3.75 x 0.025 = 2.81 m ³
					1 x 13 x 3.75 x 0.025 = 1.22 m ³
					Total = 360.01 m ³
					add 1% extra = 1 + 3.66 m ³
					Total = 370.50 m ³
(10) Const of concrete for PCC Pavement					
					M30 — do — all comp
					2 x 30 x 3.75 x 0.16 = 36.00 m ³
					2 x 30 x 3.75 x 0.16 = 36.00 m ³
					5 x 30 x 3.75 x 0.16 = 90.00 m ³
					2 x 30 x 3.75 x 0.16 = 36.00 m ³
					1 x 30 x 3.75 x 0.16 = 13.80 m ³
					Total = 227.80 m ³
					add 1% for extra = 2.278 m ³
					Total = 232.10 m ³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(11) Provide and fixing type					
masonry on form — do — all					
Lof boards = 0.2 m					
maintenance = 0.1 m					
0.2 m					
(12) Provide and laying of hot applied					
thermo plastic compound do —					
2 x 2 x 30 x 0.1 = 12.00 m					
2 x 10 x 30 x 0.1 = 60.00 m					
2 x 5 x 30 x 0.1 = 30.00 m					
for part	2 x 12 x 30 x 0.1 =				72.00 m
	2 x 30 x 30 x 0.1 =				180.00 m
	2 x 20 x 30 x 0.1 =				120.00 m
	2 x 10 x 30 x 0.1 =				60.00 m
	2 x 10 x 30 x 0.1 =				60.00 m
	2 x 20 x 30 x 0.1 =				120.00 m
	2 x 10 x 30 x 0.1 =				60.00 m
	2 x 30 x 0.1 =				6.00 m
	2 x 13 x 0.1 =				2.60 m
	2 x 4 x 0.5 x 2 =				08.00 m
(iv) Pedestals					
crossing					
790.60 m					
At Edge for C.C. path					
2 x 2 x 30 x 0.1 = 12.00 m					
2 x 2 x 30 x 0.1 = 12.00 m					

Continuation

Continuation

Abstract of Cost

14

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
① clearing and grubbing road land including uproot — do — all work 0.859 Hae Qty Page ① 2th ② @ 62032.48 / Hae — Rs. 53286.00					
② construct of Subgrade sand earthwork — do — all work 1710.52 m³ Qty Page ② 2th ② @ 254.61 / m³ — Rs. 435516.00					
③ const of G.S.B Layer — do — all work 96.28 m³ Qty Page ③ 2th ③ @ 2727.16 / m³ — Rs. 264357.00					
④ Providing, laying & spreading and Compacting work — do — all work 80.419 m³ Qty Page ④ 2th ④ @ 5718.80 / m³ — Rs. 459529.00					
⑤ Providing, laying and spreading compaction work — do — all work 171.20 m³ Qty Page ⑤ 2th ⑤ @ 5456.39 / m³ — Rs. 934134.00					
⑥ Providing and applying Primer coat 185' — do — all work					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2124.724 sqm clay paze (6) 2th (6)					
@ 61.94/sqm —					m. 131605260
(7) Provide and applying back coat					
do — all up					
16945.21 m ² clay paze (11) 2th (8)					
@ 21.18/m ² —					m. 358899600
(8) Provide, laying and rolling					
do — grade paving — do — all up					
2124.724 m ² clay paze (10) 2th (7)					
@ 280.35/m ² —					B. 595666000
(9) Provide and laying SDBC					
do — all up					
370.50 m ² clay paze (11) 2th (9)					
@ 149.56/m ² —					B. 554127600
(10) const of un. reinforcement cement pavement					
do — do — all up					
232.098 m ² clay paze (10) 2th (10)					
@ 89.54/m ² —					B. 207835400
(11) Provide and fixing typical manhole					
do — do — all up					
0.3 nos clay paze (10) 2th (1)					
@ 13847.54/m ² —					m. 4154700

Continuation

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Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L	B	D	
(12) Providing and laying hot 19 applied — do — all emb 78.60 sqm Qty Pave (12) 2 to (12)					
@ 823.80/sqm — — R. 64470620					
(13) Providing and laying hot applied 19 thermoplastic — do — all					
For Redish Cross 8 sqm Qty Pave (13) 2 to (13) (14)					
@ 823.80/sqm — — R. 659020					
(14) Providing and laying hot applied 20 on for path — do — all emb					
76.60 m ² Qty Pave (14) 2 to (14) (11)					
@ 917.77/m ² — — R. 7030120					
(15) Providing 100mm stone 11 — do — all					
05 NOS Qty Pave (15) 2 to (15)					
@ 3011.24/cum — — R. 1505600					
(16) Providing 200mm stone 12 — do — all					
17 NOS Qty Pave (16) 2 to (16)					
@ 854.20/cum — — R. 1452320					

Continuation

11659452

Particulars	Details of actual measurement				Contents of area
	No.	L	B.	D.	
(17) Providing rebar flat					
600mm sq. — do — all					
18 Nos Qty Page (13) 24 (15) 1					
@ 4253.25/can — Rs. 76738.25					
(18) Providing and fixing rebar flat					
600mm sq. — do — all					
04 Nos Qty Page (13) 24 (15) 1					
@ 5527.85/can — Rs. 22111.20					
(19) Providing and fixing rebar flat					
600mm x 450mm rect					
06 Nos Qty Page (13) 24 (15) 1					
@ 5398.28/can — Rs. 32370.20					
(20/16) Providing and erecting boundary pillar					
60 Nos Qty Page (13) 24 (16)					
@ 641.33/can — Rs. 38480.20					
total L 11815064.20					
add/ sub 12% (+) 14117808.20					
8. Fee add Less 1% (+) 11815120					
Rs. 1710.52 x 35.01 x 10 = 5988.20					
96.93 x 1453.32 x 10 =					
Cur.					
WBMP					

Continuation

The
 10/16/24
 25

Air
 10/16/24
 25

(i) Elwt	1710 = 52 mm	
(ii) Stone metal	395.70 mm	
(iii) Stone Sorew	41.088 mm	
(iv) Local Sand	46.529 mm	
(v) Bindy material	6.424 mm	
(vi) Stone aggregate	$530.621 + 208.88 = 739.56 \text{ mm}$	
(vii) Coarse sand	104.44 mm	
(viii) SS	$1806.01 \text{ kg} \approx 9.03 \approx 10 \text{ dm}$	
(ix) RL	$4659.93 \approx 23.29 \approx 24 \text{ dm}$	
(x) 890	$46785.24 \text{ kg} \approx 238.75 \approx 299 \text{ dm}$	

10/6/24

Continuation

76 dt! - 11-06-24

23 = 161,91 158,29000 = 00

19 161,00500 = 00

Sch. XLV—Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1. Sd on A/C bulid 22) = 12) 08,906 = 00 =					
S2 → 54. →		6,054	45.00		
J.T → 12. →		2,421	78.00		
L.C → 14. →		1,210	89.00		
C.V.T.S.T 14. →		1,210	89.00		
S.V.T.S.T 14. →		1,210	89.00		
Royalty →		877	70.00		
S.F →		833	41.00		
by cheque amount →		104	26,965.00		
total 12,08,906 = 00					
paid for R. one crew two party					
one lac. Eight thousand.					

Nine Hundred Sixty Only.

Executive Engineer
R.W.D. Works Division
Haliour

Ref :- 202407030310/6

Continuation