

Chattige Darohari Tola Se Samidha ke
ghar Tak. under Ministry MIDC (Brick)
Schedule XLV-Form No. 134

MB No- 602/2023-24

Aarey DIVISION

Aarey SUB-DIVISION

Utkarsh Anand Builders Pvt. Ltd.

MEASUREMENT BOOK

आनंद कुमार मंदिरिया, एड आर

1.

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.	
Name:-	Chaita Dabbari				
	Se Samichia Ke Uthar				
	Tax.				
Head:-	M M UTSY NDB				
Block:-	Area				
Name of Contractor:-	Utkarsh				
	Armed Builders Pvt.				
	L.T.D., Son Krishna				
	Nagar, Near House				
	of prof. M. Thakur				
	Motihari, DIST-				
	East Champaran				
	PN- 845401.				
Agreement No:-	0153D/				
	2023-2024				
Agreement date:-	23/06/2023				
Work order:-	23/06/2023				
Completion date:-	22/06/2024				
1)	providing and				
	Fixing of Working				
	Bench mark pillar				
	— do —				
	Complete job				2.66 KM

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
2)	Reference pillar				
	— do — complete job —				2.66 kn
3)	providing and fixing of typical MM				
	city information sign board.				
	Logo Identification sign board —				02 No.
	citizen information board —				02 No.
	Total =				04 Nos.
4)	clearing and grubbing Road Land				
	(By manual means)				
	including — do —				
	Complete Job				
	4x	2x	30.0x	2.0	= 480 m ²
	4x	2x	30.0x	1.80	= 432 m ²
	5x	2x	30.0x	2.20	= 660 m ²
	4x	2x	30.0x	2.0	= 480 m ²
	4x	2x	30.0x	2.0	= 480 m ²
	4x	2x	30.0x	2.0	= 480 m ²
	4x	2x	30.0x	2.0	= 480 m ²
	4x	2x	30.0x	2.0	= 480 m ²
	3x	2x	30.0x	1.90	= 342 m ²
	3x	2x	30.0x	2.10	= 378 m ²

Continuation ⑧ + ④ = 4692.0 m

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
8) providing plain/					
reinforced concrete					
in sub-structure.					
— do — complete job.					
Bottom Slab.					
1	2.50	7.50	0.25		4.69 m ³
Side Wall					
2	7.50	2.0	0.25		7.50 m ³
					12.19 m ³
9) providing P.C.C.					
M20 (1:2:4) concrete					
for plain concrete					
in foundation.					
— complete job.					
Return Wall					
4 x 2.0 x (2.475 + 1.775) x 1.60					27.20 m ³
Cut-off Wall.					
2	2.50	0.30	1.50		2.25 m ³
					TOTAL qty = 29.45 m ³
For 04 Nos x 29.45 m ³					117.80 m ³
10) supplying filling					
and placing HYSD					
bar reinforcement					
in super structure					
— complete job.					

Continuation

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Side Wall					
Inner & Outer Vertical bar					
10mm ϕ @ 125mm c/c					
4 x 60 Nos. x 2.90m = 696M					
@ 0.62 kg/m					= 1131.52 kg.
Binder					
8mm ϕ @ 150mm c/c					
4 x 16 Nos. x 7.60m = 486.40m					
@ 0.395 kg/m					= 192.128 kg
HUNCH					
8mm ϕ @ 150mm c/c					
2 x 50 Nos. x 1.10m = 110M					
@ 0.395 kg/m					= 43.45M
CHAIR 12mm ϕ					
16 Nos. x 1.10m = 17.60M					
@ 0.89 kg/m					= 15.66 kg.
Cut off Wall					
Vertical bar: 10mm ϕ @ 200mm c/c					
4 x 12 Nos. x 1.80m = 86.40M					
@ 0.62 kg/m					= 53.56 kg
Binder 8mm ϕ @ 150mm c/c					
4 x 10 Nos. x 2.60m = 104M					
@ 0.395 kg/m					= 41.08 kg.
				TOTAL =	1182.258 kg
				or	1.1822 MT
For 04 Nos x 1.1822 MT DTY =					4.728 MT

Continuation

15/07/2023
J.E

15/07/23
A.E

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
in levelling course					
below open foundn					
— do — Complete job.					
Box culvert	1	2.50	7.50	0.100	$= 1.875 m^3$
Return wall	4	2.40	2.88	0.200	$= 5.529 m^3$
				Qty =	$7.40 m^3$
For 04 Nos $\times 7.40 m^3$				Qty =	$29.60 m^3$
7) Supplying, fitting and placing HYSD bar reinforcement for structure — do — Complete job					
Bottom slab.					
Main bar 12mm ϕ @ 150mm c/c					
50.00 Nos. $\times 3.50 m$					$= 175 m$
@ 0.89 Kg/m					$= 155.75 Kg$
Distribution bar 10mm ϕ @ 150mm c/c					
17 Nos. $\times 7.80 m$					$= 132.60 m$
@ 0.62 Kg/m					$= 82.21 Kg.$
Top Jali					
10mm ϕ @ 150mm c/c					
50 Nos. $\times 2.80 m$					$= 140 m$
@ 0.62 Kg/m					$= 86.80 Kg.$
Distribution 10mm ϕ @ 150mm c/c					
17 Nos. $\times 7.60 m$					$= 129.20$
Continuation					
@ 0.62 Kg/m					$= 80.10 Kg$
					Qty = 404.86 Kg.

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
5X 2X	2X	30.0	2.0	=	600m ²
5X 2X	2X	30.0	1.50	=	450m ²
5X 2X	2X	30.0	2.0	=	600m ²
4X 2X	2X	30.0	2.0	=	480m ²
4X 2X	2X	30.0	2.0	=	480m ²
5X 2X	2X	30.0	2.0	=	600m ²
4X 2X	2X	30.0	1.90	=	456m ²
4X 2X	2X	30.0	2.10	=	504m ²
5X 2X	2X	30.0	2.0	=	600m ²
6X 2X	2X	30.0	2.0	=	720m ²
2X 2X	2X	30.0	3.0	=	360m ²
2X 2X	2X	11.0	2.50	=	110m ²
				=	10659m ²

or = 1.07 Hect
 01/07/2022
 JE
 06/11/2023
 AG

5) Earth work in ex-

caration for str-

ucture — do —

Complete Job.

Box culvert —	1	3.50	7.50	0.65 =	17.06m ³
cut-off wall —	2	3.50	1.30	1.80 =	16.38m ³
Return Wall —	4	2.40	3.88	1.80 =	67.04
				244 =	100.48m ³

For 04 Nos X 100.48m³ R/L = 401.60m³

6) plain cement Con-

crete pcc mix (1:2.5:5)

Continuation

Sch XIV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L	B	D	
1. 12 Nos 12.20m x 1.20m = 14.64m					
2. 12 Nos 12.20m x 1.20m = 14.64m					
3. 12 Nos 12.20m x 1.20m = 14.64m					
4. 12 Nos 12.20m x 1.20m = 14.64m					
5. 12 Nos 12.20m x 1.20m = 14.64m					
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20. 12 Nos 12.20m x 1.20m = 14.64m					
21. 12 Nos 12.20m x 1.20m = 14.64m					
22. 12 Nos 12.20m x 1.20m = 14.64m					
23. 12 Nos 12.20m x 1.20m = 14.64m					
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88. 12 Nos 12.20m x 1.20m = 14.64m					
89. 12 Nos 12.20m x 1.20m = 14.64m					
90. 12 Nos 12.20m x 1.20m = 14.64m					
91. 12 Nos 12.20m x 1.20m = 14.64m					
92. 12 Nos 12.20m x 1.20m = 14.64m					
93. 12 Nos 12.20m x 1.20m = 14.64m					
94. 12 Nos 12.20m x 1.20m = 14.64m					
95. 12 Nos 12.20m x 1.20m = 14.64m					
96. 12 Nos 12.20m x 1.20m = 14.64m					
97. 12 Nos 12.20m x 1.20m = 14.64m					
98. 12 Nos 12.20m x 1.20m = 14.64m					
99. 12 Nos 12.20m x 1.20m = 14.64m					
100. 12 Nos 12.20m x 1.20m = 14.64m					

Continuation 014 = 460.59 kg.

Limitation or 0.4600 MT

For 014 Nos X 0.46 MT 014 = 1.84 MT

20/09/2013
J.E.

20/09/13
A.E.

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
11) plain / reinforced concrete					
Current Concrete					
(120) in substructure					
structure — do —					
Complete Job					
Return Wall	11	2.00	0.62	0.40	14.38 m ³
Coping over return wall					
	4	2.00	0.045		0.60 m ³
					= 14.98 m ³
For 04 Nos X 14.98 m ³ Qty =					108.68 m ³
12) providing and					
Laying reinforced					
Current Concrete					
(125) in superstructure					
structure — do —					
Complete Job					
Top slab	1	2.50	7.50	0.25	4.69 m ³
Heel	4	7.50	0.011		0.33 m ³
Kerb	2	2.50	0.25	0.30	0.38 m ³
					Qty = 5.40 m ³
For 04 Nos X 5.40 m ³ — Qty =					21.60 m ³
6.111 30/07/2023 SE					
13) providing weep					
holes 6/10 plain /					
reinforced concrete					
do — Complete Job					

Continuation

$$(7 \times 2) + (5 + 4) = 34 \text{ Nos.}$$

$$\text{For 04 Nos X 34 Nos}$$

$$= 136.00 \text{ Nos.}$$

1. The first part of the paper is devoted to a discussion of the
 2. various methods of determining the rate of reaction.
 3. The second part is devoted to a discussion of the
 4. various methods of determining the order of reaction.
 5. The third part is devoted to a discussion of the
 6. various methods of determining the activation energy.
 7. The fourth part is devoted to a discussion of the
 8. various methods of determining the equilibrium constant.
 9. The fifth part is devoted to a discussion of the
 10. various methods of determining the rate of reaction.

Sch. XLV-Form No. 134

Continuation

Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
18) Construction of					
Embankment					
with material					
Obtained of				40	
Complete job					
S/N.	Ch	Area	Mean Area	Distance	Volume
1	0	0.371	0	0	0
2	50	0.370	0.371	50	18.525 m ³
3	100	0.528	0.449	50	22.450 m ³
4	150	0.472	0.500	50	25.00 m ³
5	200	0.857	0.665	50	33.225 m ³
6	250	0.639	0.719	50	37.40 m ³
7	300	0.827	0.733	50	36.650 m ³
8	350	0.418	0.623	50	31.125 m ³
9	400	0.448	0.433	50	21.650 m ³
10	450	1.027	0.738	50	36.875 m ³
11	500	0.600	0.814	50	40.675 m ³
12	550	0.609	0.605	50	30.225 m ³
13	600	0.518	0.564	50	28.175 m ³
14	650	0.417	0.468	50	23.375 m ³
15	700	0.493	0.435	50	22.750 m ³
16	750	0.563	0.529	50	26.450 m ³
17	800	0.603	0.584	50	29.200 m ³
18	850	0.452	0.528	50	26.375 m ³
19	900	0.402	0.427	50	21.350 m ³
20	950	0.618	0.510	50	25.500 m ³
21	1000	0.923	0.741	50	38.525 m ³

Continuation, 0.0, 0.4 = 575.50

Sch.XLV-Form No. 134 B/F 844 = 575.50 m²

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
S.L.No.	CH	Area	Mean Area	Dist.	Volume
22	1050	0.402	0.663	50	33.175 6.663 m ³
23	1100	0.516	0.459	50	22.950 0.6459 m ³
24	1150	0.504	0.510	50	25.50 m ³
25	1200	0.758	0.631	50	31.550 m ³
26	1250	0.649	0.704	50	35.175 m ³
27	1300	0.654	0.652	50	32.575 m ³
28	1350	0.633	0.644	50	32.175 m ³
29	1400	0.599	0.616	50	30.800 m ³
30	1450	0.724	0.662	50	33.075 m ³
31	1500	0.601	0.663	50	33.125 m ³
32	1550	0.908	0.755	50	37.725 m ³
33	1600	0.750	0.829	50	41.450 m ³
34	1650	0.634	0.692	50	34.600 m ³
35	1700	0.758	0.696	50	34.800 m ³
36	1750	0.788	0.773	50	38.650 m ³
37	1800	0.582	0.685	50	34.250 m ³
38	1850	0.545	0.584	50	28.175 m ³
39	1900	0.660	0.602	50	30.125 m ³
40	1950	0.654	0.657	50	32.850 m ³
41	2000	0.848	0.751	50	37.550 m ³
42	2050	0.555	0.702	50	35.075 m ³
43	2100	0.766	0.661	50	33.025 m ³
44	2150	0.854	0.810	50	40.500 m ³
45	2200	0.163	0.509	50	25.425 m ³
46	2250	0.139	0.51	50	7.550 m ³
47	2300	0.153	0.147	50	7.350 m ³

Continuation C.O. 844 = 1384.65 m³

12 P/F D/Y = 1324.65 m²
Sch.XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
S/No.	CH	Area	mean Area	Dist.	Volume
48	23.70	0.221	0.188	50	9.450 m ³
49	2400	0.211	0.218	50	10.845 m ³
50	2450	0.108	0.161	50	8.050 m ³
51	2500	0.098	0.103	50	5.150 m ³
52	2550	0.076	0.087	50	4.350 m ³
53	2600	0.120	0.098	50	7.675 m ³
54	2650	0.187	0.154	50	7.675 m ³
55	2668	0.140	0.164	18.0	2.943 m ³
		E/W D/Y =			1437.993 m ³

19) Constn of Embankment with app

	road Material	
	1000 m lead 20% =	287.60 m ³
20)	Constn of Embankment with app	
	road Material	
	100 m lead 80% =	1150.39 m ³

14/08/2023
J.F.

14/08/23
P.F.

ABSTRACT OF COST

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Sch. XLV-Form No. 134

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
1/53) grading and forming & setting Bench mark — —do— Complete job					
2.66 km @ 4 vide T.M.B.P (1)					
@ 5139.57/km — RS=					13671=∞
2/60) Reference pillar —do— Complete Job.					
2.66 km @ 4 vide T.M.B.P (1)					
@ 2417.27/km — RS=					6430=∞
3/61) clearing and grubbing Road land —do— Complete job.					
1.07 Hect @ 4 vide T.M.B.P (6)					
@ 72697.86/Hect RS=					77787=∞
4/63) Construction of Embankment with 1000 M Lead —do— Complete job.					
287.60 M ³ @ 4 vide T.M.B.P (12)					
@ 258.52/M ³ — RS=					74350=∞
5/64) Construction of					
Continuation RS=172238=∞					

Particulars	Details of actual measure				Quantity of work
	No.	L.	B.	D.	
115.23 m ² 1/4 y vide T.M.B.P (12)					
do Complete job					
@ 115.23/177 — RS = 201238-00					
6.1) L.P. excavation					
12.40 m ² 1/4 y vide T.M.B.P (6)					
do Complete job					
@ 123.28/m ² — RS = 153925-00					
7.2) providing p.c.c.					
M15 (1:2:5:5) Con-					
crete for open founda-					
do Complete job					
29.60 m ² 1/4 y vide T.M.B.P (05)					
@ 8523.16/m ³ — RS = 252286-00					
8.3) providing p.c.c.					
M20 (1:2:4) Concr-					
ete for plain Con-					
crete for open fo-					
undation — do —					
Complete job					
117.80 m ² 1/4 y vide T.M.B.P (3)					
@ 9298.04/m ³ — RS = 1095309-00					

Continuation

RS = 1875088-00

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Filter material					
do - Complete job.					
74.00 m ³ Qty vide T.M.B.P (9)					
@ 1874.69/m ³				RS =	360727=
14/95) providing and					
laying semi-					
red cement					
Concrete (M:5)					
in Superstructure					
do - Complete job					
21.60 m ³ Qty vide T.M.B.P (8)					
@ 1244.84/m ³				RS =	242883=
15/96) supplying fitt					
ing and placing					
HYSD bar - do					
Complete job.					
1.84 MT Qty vide T.M.B.P (7)					
@ 83609.33/MT				RS =	539220=
16/97) Construction of					
R.C.C. R/Ling -					
do - Complete job					
20 M Qty vide T.M.B.P (4)					
@ 1263.21/MT				RS =	149762=
11/98) Provision of					
reinforcement					

Particulars	Details of actual measure				Contents of area
	No.	L.	B.	D.	
Do. Complete job.					
16 Nos. 814 vide T.M.B.P (9)					
@ 7/10.01/No				RS=	12320=00
18/86) providing and fixing of typical MM 6284 for mandatory sign board - do -					
04 Nos. 814 vide T.M.B.P (02)					
@ 12321.37/No				RS=	49285=00
				RS=	4768633=00
Add @ 18% G.S.T (+)				RS=	858354=00
Add @ 1% L.C.E.S.S (+)				RS=	476863=00
Add @ 10% S.F. Material cost (+)				RS=	32337=00
Vide T.M.B.P (18)				RS=	5707010=00
Less below @ 0.14% (-)				RS=	7990=00
				RS=	56,99,020=00
14/08/2023 J.E.  14/08/23 A.C.					