

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 measurement relating to each work)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
N/W:-	Mishrauliya pragra				
	Road TO Tura				
	TO 19.				
Head:-	MMU 34				
BLOCK:-	Arera				
Name of Contractor:-					
	M/S Rudra Enterprises				
	Belwanda, PS-				
	Motihari				

Agreement No:- 05/SRD/
 10/02/2022

Agreement date:- 04/03/2022

Work order:- 04/03/2022

Completion date:-

Agreement Rate:- @ 3.52% Below

1) Earth work in
 excavation for
 foundation of
 structure up to
 ———— dia ————
 Complete job.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Roof:-	1	1.50	6.00	0.79	$= 7.07 m^3$
Detached cut off wall	2	2.50	0.30	1.80	$= 2.70 m^3$
cut off wall	2	2.50	0.55	1.10	$= 3.03 m^3$
U/S	1	1.80	2.50	0.90	$= 4.05 m^3$
D/S	1	3.0	2.50	0.90	$= 6.75 m^3$
				Qty =	$23.60 m^3$
for 02 No X				Qty =	$47.20 m^3$
2.)					
Sand Filling in					
Foundation trenches — do —					
Complete Job.					
Roof:-	1	1.50	6.6	0.10	$= 0.90 m^3$
Detached cut off wall	2	2.50	0.30	0.10	$= 0.15 m^3$
cut off wall	2	2.50	0.55	0.10	$= 0.28 m^3$
					$= 1.33 m^3$
for 02 No X				Qty =	$2.66 m^3$
3.)					
providing P.C.C.					
Grade M15 for					
Plain/reinforced					
Concrete — do —					
Complete Job					
Below Roof	1	1.50	6.0	0.10	$= 0.90 m^3$
cut off wall (stair)	2	2.50	0.45	0.60	$= 1.35 m^3$
cut off wall (Roof)	2	2.50	0.55	0.10	$= 0.28 m^3$
					$= 2.53 m^3$
for 02 No X				Qty =	$5.06 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4)					
providing Reinf-					
and cement					
R.C.C. Gravel 12.25					
concrete in box					
cell — do —					
Complete job.					
Robt -	1	1.50	6.0	0.21	$= 1.89 m^3$
Abutment -	2	1.00	6.0	0.25	$= 3.00 m^3$
Top of Deck -	1	1.50	6.0	0.21	$= 1.89 m^3$
slab					
Parapet -	2	1.50	0.25	6.60	$= 0.45 m^3$
Detchs of					
cast off wall -	2	2.50	0.30	1.50	$= 2.25 m^3$
Humch -	2	0.10	0.10	6.6	$= 0.12 m^3$
					$= 7.59 m^3$

For 02 No X 9.60 m³ Qty = 19.20 m³

5)					
Backfilling behind					
abutment wing.					
wall & Return wall					
— do —					
Complete job.					
Abutment -	2	6.0	1.00	0.600	$= 7.20 m^3$

For 02 No X 7.2 m³ Qty = 14.40 m³

Done
10/06/2023
JLG

6)					
Supplying fitting					
and placing HYSD					
bar Reinforcement					

Done
10/06/23
A2

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(Fe 48) in sub-structure					
Complete Job.					
b) clearing and grubbing Road					
Land including					
do					
Complete Job					
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.55	=	93.00 m ²
	2	30.0	1.40	=	84.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.60	=	96.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.70	=	102.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.70	=	102.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.50	=	90.00 m ²
	2	30.0	1.60	=	96.00 m ²
	2	30.0	1.50	=	90.00 m ²

84 = 1293.00 m²

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
ag) Construction of Granular sub-base by providing well graded material — do — Complete Job.					
<u>Earthwork for P.C.C. portion:-</u>					
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	30.0	3.75	0.100	$= 11.25 m^3$
	1	25.0	3.75	0.100	$= 9.38 m^3$
<u>Earthwork for B.T. portion:-</u>					
	1	5.0	4.05	0.20	$= 4.05 m^3$
	1	30.0	4.05	0.20	$= 24.30 m^3$
	$1 \times \frac{12.0}{30.0} \times 4.05 + \frac{3.30}{2}$			0.20	$= 8.82 m^3$
	$1 \times 18.0 \times \frac{3.30 + 3.30}{2}$			0.20	$= 11.88 m^3$
	$1 \times 20.0 \times \frac{3.30 + 3.50}{2}$			0.20	$= 13.60 m^3$
	$1 \times 30.0 \times \frac{3.50 + 4.05}{2}$			0.20	$= 22.65 m^3$
	1 X 30.0	4.05		0.20	$= 24.30 m^3$
	1 X 30.0	4.05		0.20	$= 24.30 m^3$
	1 X 30.0	4.05		0.20	$= 24.30 m^3$
	$1 \times 30.0 \times \frac{4.05 + 3.35}{2}$			0.20	$= 22.20 m^3$
	$1 \times 22.0 \times \frac{3.35 + 3.10}{2}$			0.20	$= 14.19 m^3$
C.O. Qty =					$282.72 m^3$

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	1	8.0	$\frac{3.10 + 4.05 + 3.50}{3}$	0.20	5.84 m ³
	1	30.0	$\frac{3.80 + 4.05}{2}$	0.20	23.55 m ³
	1	30.0	$\frac{4.05 + 4.05}{2}$	0.20	24.30 m ³
	1	30.0	$\frac{4.05 + 4.05}{2}$	0.20	24.30 m ³
	1	18.0	$\frac{4.05 + 3.60}{2}$	0.20	13.77 m ³
	1	12.0	$\frac{3.60 + 3.60}{2}$	0.20	8.64 m ³
	1	30.0	$\frac{3.60 + 4.05}{2}$	0.20	22.95 m ³
	1	25.0	$\frac{4.05 + 3.30}{2}$	0.20	18.38 m ³
	1	5.0	$\frac{3.30 + 4.05}{2}$	0.20	3.68 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	10.0	$\frac{4.05 + 3.40}{2}$	0.20	7.45 m ³
	1	30.0	$\frac{3.40 + 4.05}{2}$	0.20	22.35 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	14.0	$\frac{4.05 + 3.40}{2}$	0.20	10.43 m ³
	1	13.0	$\frac{3.40 + 3.40}{2}$	0.20	8.84 m ³
	1	3.0	$\frac{3.40 + 4.05}{2}$	0.20	2.24 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³
	1	30.0	4.05	0.20	24.30 m ³

C.D. Dty = 795.34 m³

Continuation

$$BIF 8 \times 4 = 795.34 m^3$$

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		1x15.0x4.05x0.20 =			12.15 m ³
		1x5.0x4.05x $\frac{5.20}{2}$ 0.20 =			4.63 m ³
		1x6.0x5.20x $\frac{6.0}{2}$ 0.20 =			6.72 m ³
		1x4.0x6.0x $\frac{5.50+4.05}{2}$ 0.20 =			4.15 m ³
		1x30.0x4.05x0.20 =			24.30 m ³
		1x15.0x4.05x0.20 =			12.15 m ³
					$\Sigma = 859.44 m^3$

15/07/2023
J.E.

10) supplying fitting
and placing HYS

bar reinforcement
(Fe 415) in sub-structure do

(i) Bottom slab

Main bar 12mm ϕ @ 150mm c/c

$$40 Nos \times 2.40 M = 96 M$$

$$@ 0.89 kg/m - 85.44 kg$$

Distribution bar 10mm ϕ 150
mm c/c

$$10 Nos \times 6.10 M = 61 M @ 0.62 kg/m - 37.82 kg$$

Top slab

10mm ϕ @ 150mm c/c

$$40 Nos \times 1.90 M = 76 M @ 0.62 kg/m - 47.12 kg$$

Distribution bar 10mm ϕ
150mm c/c

$$10 Nos \times 6.10 M = 61 M @ 0.62 kg/m - 37.82 kg$$

(ii) side wall

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
inner 8 order vertical Bar					
10mm ϕ @ 125mm c/c					
4 x 45 Nos x 2.0 M = 360 M @ 0.62 kg/M					223.20 kg
Binder :- 8mm ϕ @ 150mm c/c					
4 x 9 Nos x 6.10 M = 219.60 M					
@ 0.395 kg/M					86.74 kg
(iii) TOP slab.					
Main bar 12mm ϕ 150mm c/c					
40 Nos x 2.40 M = 96 M @ 0.89 kg/M					85.44 kg
Distribution bar :- 10mm ϕ 150mm c/c					
10 Nos x 6.10 M = 61 M @ 0.62 kg/M					37.82 kg
TOP Jali :- 10mm ϕ 150mm c/c					
40 Nos x 1.90 M = 76 M @ 0.62 kg/M					47.12 kg
Distribution 10mm ϕ 150mm c/c					
10 Nos x 6.10 M = 61 M @ 0.62 kg/M					37.82 kg
(iv) Hatch - 8mm ϕ 200mm c/c					
4 x 150 Nos x 0.65 M = 78 M @ 0.395 kg/M					30.81 kg
(v) Chair 12mm ϕ					
2 x 12 Nos x 1.00 M = 24 M @ 0.89 kg/M					21.36 kg
(v) Cutoff Wall :-					
Vertical - 10mm ϕ 200mm c/c					
4 x 12 Nos x 1.50 M = 72 M @ 0.62 kg/M					44.64 kg
Rising 8mm ϕ 150mm c/c					
4 x 10 Nos x 2.60 M = 104 M @ 0.395 kg/M					41.08 kg
(vi) parapet					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Horizontal 10mm ϕ					
2x4 Nos x 1.50M = 12 M @ 0.62 kg/m					7.44 kg.
Ring 8mm ϕ					
2x6 Nos x 1.60M = 19.20M @ 0.395 kg/m					7.58 kg
				TOTAL =	879.25
				OT =	0.879 MT

For 02 No x 0.879 MT = 1.758 MT

Amulya
10/7/23
J.E

Construction of

Embankment with

approved material

Obtained from lo-

ss pits - do -

Complete Job.

SL. No	CH	Meaning Area	Mean Area	Distance	Volume
1	0	2.913	2.368	0	118.400
2	50	1.823	2.368	50	118.400
3	100	2.324	2.074	50	103.675
4	150	1.842	2.083	50	104.150
5	200	2.397	2.083	50	105.975
6	250	3.482	2.120	50	146.975
7	300	1.911	2.94	50	134.825
8	350	2.131	2.021	50	101.050
9	400	2.143	2.137	50	106.85
10	450	2.332	2.238	50	111.875
11	500	2.182	2.257	50	112.85
12	550	2.148	2.145	50	108.25
13	600	2.572	2.330	50	116.50

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
S.L No	CH	Area	M. Area	Dist.	Volume
14	650	2.148	2.330	50	116.50
15	700	2.283	2.216	50	110.775
16	750	2.215	2.249	50	112.45
17	800	2.169	2.192	50	109.60
18	850	2.274	2.222	50	111.075
19	900	0.976	1.625	50	81.25
20	950	1.454	1.215	50	60.750
21	1000	1.113	1.284	50	64.175
22	1050	1.487	1.30	50	65.00
23	1100	1.006	1.247	50	62.325
24	1150	0.946	0.976	50	48.80
25	1200	1.269	1.108	50	55.375
26	1220	1.131	1.20	20	24.00
E/W Qty (including GSB) =					2393.450 m ³
Less G.S.B. Qty =					859.440 m ³
E/W Qty =					1534.010 m ³
12)	providing and				
	fixing of typical				
	MMWSY sign Board - 02 No.				
 02/08/2023 S.E.					
 02/08/23 S.E.					

ABSTRACT OF COST

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1) 85)	Construction of Reference and Working bench marks — do — Complete Job.				
1.220 KM Qty vide T.M.B.P (05)					
@RS-5450.40/KM — RS= 6649=00					
2) 86)	Construction of Reference pillars /Bunjees — do — Complete Job.				
1.220 KM Qty vide T.M.B.P (05)					
@RS-3031.60/KM — RS= 3699=00					
3) 87)	Clearing and Grubbing Road Land including — do — Complete Job				
0.37 Hect. Qty vide T.M.B.P (05)					
@RS-52970.34/Hect — RS= 19599=00					
4) 88)	Construction of Embankment with approved Material — do — Complete Job.				
RS=29947=00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1534.010 M ³ 8ty wide T.M.B.P (11)					
@ RS - 190.07 / M ³				RS =	291569=00
5) 91)					
Construction of					
granular sub					
base by providing					
do					
Complete Job.					
859.44 m ³ 8ty wide T.M.B.P (8)					
@ RS - 3217.11 / M ³				RS =	2764913=00
6) 103)					
Providing and					
fixing of typical					
MMBSY Sign Board					
do - Complete Job					
02 No. 8ty wide T.M.B.P (11)					
@ RS - 13025.36 / No				RS =	26051=00
7) 110)					
Earth work in ex-					
cavation for found-					
ation do					
Complete Job.					
47.20 M ³ 8ty wide T.M.B.P (02)					
@ RS - 279.09 / m ³				RS =	13173=00
8) 111)					
Sand filling in					
Foundation Trenches					
C.O. RS = 3125653=00					

Continuation

B/F RS = 3125653 = 00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
— do — Complete Job.					
2.66 m ³ 84 y vide T.M.B.P (02)					
@ RS - 442.50 / m ³ — RS = 1177 = 00					
$\frac{9}{112}$) providing pcc					
Grade M15 for					
plain/reinforced					
— do — Complete Job.					
5.06 m ³ 84 y vide T.M.B.P (02)					
@ RS - 6148.53 / m ³ — RS = 31112 = 00					
$\frac{10}{113}$) Providing Reinf.					
steel cement RCC					
Grade M25 — do —					
Complete Job.					
19.20 m ³ 84 y vide T.M.B.P (03)					
@ RS - 7756.71 / m ³ — RS = 148929 = 00					
$\frac{11}{114}$) Back Filling beh-					
ind abutment,					
Wing wall and					
Return wall — do					
Complete Job.					
14.40 m ³ 84 y vide T.M.B.P (03)					
@ RS - 3022.14 / m ³ — RS = 43519 = 00					
$\frac{12}{115}$) Supplying, Fitting					
RS = 3350390 = 00					

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
amel. placing HYSD					
bar reinforcement					
— do — complete job.					
1.758 MT Qty vide T.M.B. P(10)					
@ RS-49842.76/MT —				RS =	87624=00
				RS =	3438014=00
Add G.S.T. @ 12% — (+)				RS =	412562=00
Add L. cess @ 1% — (+)				RS =	34380=00
Add S.F. @ 10% vide T.M.B. P (16)				(+) RS =	52868=00
				RS =	3937824=00
Less below @ 3.52% — (-)				RS =	138611=00
				TOTAL RS =	3799213=00

02/08/2023
J.E

02/08/23
A.E