Jamuriya to Badetala (Bhitaha Block)

Schedule XLV-Form No. 134

(GEN)

Bagha-2 DIVISION

Bhitaha SUB-DIVISION

OM Shree Mahima Press.

MEASUREMENT BOOK

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 No.	L.	B.	D.	Contents of area
Name of work: Construction of road from Jamuniya to Badhe Tola					
Agency: M/s Om Shree Shiv Maheema Prises, Gopalganj					
Agreement NO: 31 SBD of 19-20					
Date of start: 27/12/2019					
Agreement Amount Rs 1,17,34,257/-					
Date of completion: 26/12/2020					
Record measurement					
1 Construction of working S.M					= 1.46 km
2 Clearing and grubbing road land					
	2	1.48	30.00	1.50	= 4320 m²
	2	1	20.00	1.50	= 60 m²
				Total :	4380 m²
				Say =	0.438 Ha
3 Construction of embankment					
	1	48	30.00	$\left(\frac{6+6.5}{2} - \frac{5+4.2}{2}\right)$ X 0.60	= 1425.60 m³
	1	20.00		$\left(\frac{6+6.5}{2} - \frac{5.14+4.2}{2}\right)$ X 0.60	= 19.20 m³
				Total :	1444.80 m³
Construction of embankment ... 1000 m (20% of total)					= 433.44 m³
Construction of embankment ... up to 1000 m (70% of total)					= 1011.36 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
4 Excavation for road way					
	2	37	30.00	0.525 × 0.100	116.55 m³
	2	10	20.00	0.375 × 0.100	22.50 m³
				Total =	139.05 m³
Repeated on 26/09/2020 JE					
Revised measurement					
1 Construction of granular sub base					
	2	37	20.00	0.525 × 0.100	116.55 m³
	37	20.00	4.050	× 0.100	449.55 m³
	2	10	30	0.375 × 0.100	22.50 m³
For repair.	12	9.50	1.50	× 0.100	17.10 m³
	10	5.50	1.20	× 0.15	9.50 m³
	11	4.50	1.35	× 0.10	6.68 m³
				Total	622.28 m³
Repeated on 27/09/2020					
Revised measurement					
2	Box culvert (1 × 2m × 2m)				
1 Earth work in excavation					
Raft :	1	2.50	5.20	× 0.35	7.15 m³
Cheek wall :	2	6.50	0.50	× 1.50	9.75 m³
Pitching apron U/S	1	8.50	1.50	× 0.60	7.65 m³

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
D/s	1X	8.50X	2.20X	0.60	= 11.220m³
Side clearance of levelling (CL)					= 19.05 "
				Total =	54.80 m³
2 Sand filling in foundation					
Raft	1X	2.50X	5.20X	0.15	= 1.95 m³
Cw+Hw	2X	6.50X	0.50X	0.10	= 0.65 "
				Total =	2.60 m³
3 Providing PCC M15 in D/s foundation					
Raft	1X	2.50X	5.40X	0.15	= 2.025 m³
Cw+Hw	1X2X	6.50X	0.50X	0.20	= 1.95 "
				Total =	3.975 m³
4 Supplying, fitting and placing HYSD bar reinforcement in Cut off wall 10mm ϕ bar @ 200 mm c/c					
	2X	2X	12X	1.36	= 65.28 kg
Main bar in return wall 10mm ϕ bar up to slab level @ 200 mm c/c					
	4X	2X	11X	3.55	= 312.4 kg
Distribution bar in cut off wall at Cw up to bed level 10mm ϕ bar @ 200 mm c/c					
	2X	2X	6X	6.50	= 156 kg
Distribution bar in Cw above bed level 10mm ϕ bar @ 200 mm c/c					
	4X	2X	13X	2.25	= 234 kg

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 mm ϕ bar in Raft @ 150 mm c/c					
	2	X 40	X 2.50	=	200 m
Distribution bar in Raft 10 mm ϕ bar @ 200 mm c/c					
	2	X 11	X 6.00	=	132 m
Main bar in Abutment inner side of Box about 10 mm ϕ bar @ 200 mm c/c					
	2	X 30	X 2.50	=	150 m
Main bar in Abutment outside of Box 10 mm ϕ bar @ 150 mm c/c					
	2	X 40	X 3.80	=	304 m
Distribution bar in Abutment : 10 mm ϕ bar @ 200 mm c/c					
	4	X 11	X 6.00	=	264 m
Angle bar Connecting to Raft and Abutment 10 mm ϕ bar 150 mm c/c					
	2	X 40	X 1.40	=	112 m
Hunter bar Connecting to Raft and Abutment 8 mm ϕ bar @ 150 mm c/c					
	2	X 40	X 1.15	=	92 m
Over lap bar 10 mm ϕ bar				24 X 0.40 =	13.60 m
Chair bar					
	2	X 4	X 1.25	=	10 m

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Co of area
2 Providing RCC work in					
Raft :	1X	6.00X	2.50X	0.25	= 3.75 m³
C/w 4 Rw :	2X	6.50X	0.30X	0.85	= 3.32 "
			Total	=	7.07 m³
~~Revised~~ 30/09/2020 JE					
Revised measurement					
1 Supplying, fitting and placing HYSD bar in Slab (lower side) 12mm ϕ bar @ 150mm c/c					
	1X	40X	25	=	100 m
Main bar in Slab (upper side) 10mm ϕ bar @ 150mm c/c					
	1X	40X	2.50	=	100 m
Distribution bar in slab 10mm ϕ bar @ 150mm c/c					
	2X	11X	6.00	=	132 m
Angle bar connecting to slab and abutment 8mm ϕ bar @ 150mm c/c					
	2X	40X	1.40	=	112 m
Hunten bar connecting to slab and abutment 8mm ϕ bar @ 150mm c/c					
	2X	40X	1.15	=	92 m

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
2. Providing RCC M25 in					
Abutment.	2 X	6.00 X	0.25 X	2.00 =	6.00 m³
Wing	4 X	2.00 X	$\frac{0.20+0.30}{2}$ X	2.25 =	4.95 "
Apron :	4 X $\frac{1}{2}$ X	6.00 X	0.15 X	0.15 =	0.27 "
			Total :		11.22 m³
3 Providing weep hole in culvert					
		2 X 5 X 2		=	20 nos
~~Abstract~~					
01/14/2023					
JC					
Revised measurement					
1 Supplying, fitting and placing					
HYSD bar in Parapet wall					
bar 10 mm ϕ bar @ 200 mm c/c					
	2 X	2 X 12 X	1.00 =		48.00 m
Distribution bar in parapet					
10 mm ϕ bar in parapet					
1"	2 X	2 X 9 X	2.50 =		90.00 m
2 Providing RCC M25 in					
Deck slab.	1 X	6.00 X	2.50 X	0.25 =	3.75 m³
parapet	2 X	2.50 X	0.25 X	0.60 =	0.75 "
			Total :		4.5 m³
~~Abstract~~					
03/10/2023					
JC					

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Rewel measurement					
1 Providing Backfilling behind Abutment					
	2	6.00	2.00	0.60	= 14.40 m³
Total length of 8 mm ϕ bar					= 236 m
Wt @ 0.400 kg/m					= 118.00 kg
Total length of 10 mm ϕ bar					= 2273.23 m
Wt @ 0.617 kg/m					= 1402.61 kg
Total length of 12 mm ϕ bar					= 100 m
Wt @ 0.89 kg/m					= 89 kg
Total weight of HYSD bar					= 1610.61 kg
					Say = 1.61 MT
Abdul M 10/10/2020					
Rewel measurement					
1 Providing and fixing MMGSY Information Sign Board					= 2 nos.
Abdul M 11/10/20					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	Material Statement				
1. Earth work = 1444.80 m³					(1.71/m³)
2 Stone metal = 372.368 m³					(516.42/m³)
3 Stone metal 149.347 m³					(411.33/m³)
4 Crushed Sand = 224.021 m³					(188.40/m³)
5 Stone chip = 23.691 m³					(530.85/m³)
6 Course sand = 14.764 m³					(614.17/m³)
7 Cement = 10.30 t					(5002.4/t)
[signature] 11/10/20			[signature] 11/10/20		

Abstract of cost					
1 Const of working B.M vide TMB page no 1 = 1.46 km @ Rs. 12386=75/km					Rs 18085=00
2 Clearing and grubbing road vide TMB pg no. 1 = 0.44 Hect @ Rs. 49,496=70/Hect					Rs. 21779=0
3 Const of embankment .. lead up to 1000 m vide TMB pg no 1 = 433.44 m³ @ Rs 174:83 per m³					Rs 75778=00
4 Const of subgrade embankment lead up to 1000 m vide TMB pg no. 1 = 1011.36 m³ @ Rs 58:59/m³					Rs 59256..

Continuation Total Rs 174898=00

Sch. XLV-Form No. 134 B/F Rs. 174898:0

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
5/7 Excavation of foundation vide TMB pg no 2 : 139.05 m³ @ Rs 74:10/m³				Rs.	10304:0
6/9 Construction of GSB vide TMB pg no. 2 = 622.28 m³ @ Rs 3972.74/m³ Cost				Rs	2472157:0
7/23 Providing and fixing MM GI Guard vide TMB pg no. 7 = 2 nos. @ Rs 11790:20/Each				Rs	23581:0
8/31 Earth work in excavation vide TMB pg no 3 = 54.80 m³ @ Rs 960.35/m³				Rs	52610:0
~~9/32 Sand filling vide TMB pg no 9 = 2.60 m³ @ Rs 397:34/m³~~				Rs	1033:0
10/34 Provn. PCC M15 vide TMB pg no 3 = 3.975 m³ @ Rs 7404:80 per m³				Rs	29434:0
11/39 Providing RCC M-25 vide TMB pg no 5 = 7.07 m³ vide TMB pg no. 6 = 11.22 m³ vide TMB pg no. 6 = 6.50 m³ Total = 22.79 m³ @ Rs 9154:44/m³				Rs.	208630:0
12/40 Backfilling with Approved vide TMB pg no. 7 = 14.40 m³ @ Rs 3833:94/m³				Rs	55209:0
Continuation Total				Rs.	2989524:0

C/F

Sch. XLV-Form No. 134 B/F Rs. 2989526.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
13/41 Providing weep hole, vide TMD pg no 3 = 20 nos. @ Rs. 83.39 /Each				Rs	1668.00
14/43 Supplying, fitting and placing HYSD bar vide TMD pg no 3 = 1.61 MT @ Rs 53838.28 /MT				Rs.	86680.00
			Total	Rs	3077874.00
	Add 12%		GST	Rs.	369345.00
	Add 1%		Cess	Rs	30779.00
			Total	Rs	3477998.00
less 0.11% as per agreement				Rs	3826.00
Payable Amount				Rs	3474172.00

[signature] 11/10/20 JE

[signature] 11/10/20 AE

Continuation

2nd on A/c Bill

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Name of work: Construction of road from Jamunya to Radha...					
Agency, M/s Om Shree Shiv Mohan Bros, Gopalganj					
Agreement No. 3/SBD of 2019-20					
Date of Start: 27/11/2019					
Date of Completion 26/11/2020					
Agreement Amount Rs 1,17,34,457/-					
Record measurement					
	1 x Culvert				
1 Earth work in excavation					
Raft	1 x	5.20 x	2.50 x	0.55 =	7.15 m³
Q/Wall	2 x	6.50 x	0.50 x	1.50 =	9.75 m³
Pitching Apron U/S	1 x	8.50 x	1.50 x	0.60 =	7.65 m³
D/S	1 x	8.50 x	2.20 x	0.60 =	11.20 m³
Site clearance	6.35 x	3.00		=	19.05 m²
			Total		54.80 m³
(ii) Sand filling in foundation					
Raft	1 x	5.20 x	2.50 x	0.15 =	1.95 m³
Q/Wall	2 x	6.50 x	0.50 x	0.10 =	0.65 m³
			Total		2.60 m³
(iii) Providing PCC M15 upon foundation					

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Raft	1x	5.40x	2.50x	0.15 =	2.025m³
Qur f/Ho	2x	6.50x	0.50x	0.30	1.95m³
				Total	3.975m³
(iv) supplying, fitting and placing HYSD bar in cut off wall 10 mm of bar					
	2x	2x	17x1.36	=	61.28m
Main bar in Return wall 10mm φ bar	4x	2x	11 x	3.55	312.4m
Distribution bar in cut off wall and floor up to sal level					
10 mm φ bar @ 250mm c/c	2x	2x 6	x 6.50		156m
Distribution bar in R/W above sed level 10mm φ bar @ 250 c/c	4x	2x13	x 2.25	=	234m
10 mm φ bar in Raft @ 200mm c/c	2x	40	x 2.50	=	200m
Distribution bar in Raft 10 mm φ bar @ 250 mm c/c	2x	11	x 6.00	=	132m
Main bar in Abutment inner side of Box culvert 10mm φ bar @ 200 mm c/c		2x20x2.50		=	150m

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Main bar in Abutment outer side					
of Box 10mm ϕ bar @ 150mm c/c					
	2x	40x	3.80	=	304 m
Distribution bar in Abutment					
	4x	11x	6.00	=	264 m
Angle bar 10 mm ϕ bar					
	2x	40x	1.40	=	112 m
Hunch bar connecting slab					
8 mm ϕ bar	2x	40x	1.15	=	92 m
Over lap bar 10mm ϕ bar					
		34x	0.40	=	13.60 m
chair bar 10 mm ϕ bar					
	2x	4x	1.25	=	10 m
12 mm ϕ bar in slab (lower side)					
	1x	40x	2.50	=	100 m
Main bar in slab (upper side)					
	1x	40x	2.50	=	100 m
Distribution bar in slab 10 mm					
ϕ bar @ 150 mm c/c					
	2x	11x	6.00	=	132 m
Angle bar connecting slab					
8 mm ϕ bar					
	2x	40x	1.40	.	112 m
Hunch bar 8 mm ϕ bar					
	2x	40x	1.15	=	92 m

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
10 mm ϕ bar in parapet					
	2x	2x12	x 1.00	=	48 m
Distribution bar in parapet 10 mm					
ϕ bar	2x	2x4	x 2.50	=	40 m
Total length of 8 mm ϕ bar					= 286 m
Wt. @	0.40 kg/m				118.40 kg
Total length of 10 mm ϕ bar					2273.82
Wt. @	0.617 kg/m				1402.61 kg
Total length of 12 mm ϕ bar					= 100 m
Wt. @	0.89 kg/m				89 kg
Total weight of 1480 bar					= 1610.01 kg
			Say	=	1.61 mT
(V) Providing RCC M25 in					
Raft	1x	6.00x	2.50x	0.25	3.75 m³
Wing wall	2x	6.50x	0.30x	0.85	3.32 m³
			Total	:	7.07 m³
Abutment	2x	6.00x	0.25x	2.00 =	6.00 m³
R/W	4x	2.00x	(0.30+0.20)/2	2.25 =	4.55 m³
Haunch	4x½	x6.00	x 0.15	x0.15 =	0.27 "
			Total	=	11.22 m³
Box slab	1x	6.00x	2.50x	0.25 =	3.75 m³
Parapet	2x	2.50x	0.60	x0.25	0.75 m³
			Total		22.79 m³
(VI) Providing sand filling					
	2x	6.00x	2.00x	0.60	14.40 m³

Continuation

Sch. XLV-Form No. 134

Particulars	No.	L.	B.	D.	Contents of area
(viii) providing weep hole				"	20 no.
Nagesh M 10/05/22 JE					
Record Measurement					
1 Excavation for roadway					
	1 X	30.00 X	0.525 X	0.100 =	1.575 m³
	1 X	20.00 X	0.525 X	0.100	1.050 m³
				Total	2.625 m³
2 Construction of granular sub base					
	2 X 1 X	30.00 X	0.525 X	0.100 =	3.150 m³
	1 X	30.00 X	4.050 X	0.100 =	12.150 m³
	2 X 1 X	20.00 X	0.525 X	0.100 =	2.100 m³
	1 X	20.00 X	4.050 X	0.100 =	8.100 m³
				Total	25.500 m³
3 Const of Kerb ballo				"	1.41 km
Nagesh M 11/05/22 JE				Kchand 13/05/22 AE	
Record Measurement					
1 Providing, laying, spreading and compacting WMM GR II					
	10 X	30.00 X	3.75 X	0.075	84.375 m³
Nagesh M 24/05/22 JE				Kchand 23/05/22 AE	

Continuation

Sch. XLV-Form No. 134

Particulars	No.	L.	B.	D.	Contents of area
2 Re-ad measure					
Providing, laying, spreading					
WBM Gr-III					
	38 X	30.00 X	3.75 X	0.075 =	320.625 m³
	1 X	20.00 X	3.75 X	0.075 =	5.625 m³
	2 X	(9.00 X	(5+3.75)/2 - 3.75)		
				X 0.075 =	1.78 m³
	4 X	24.00 X	(3.75+4.5+3.75)/3		
			- 3.75) X	0.075 =	2.415 m³
			Total		330.445 m³
less where	10 X	30.00 X	3.75 X	0.075	
	2 X	20.00 X	3.75 X	0.075	(-) 1.13
				Total	329.315 m³
	29/05/22				
1 Construction of unreinforced					
plain cement concrete					
	8 X	30.00 X	3.75 X	0.160	144 m³
	29/05/22				
	Material Statement				
1 Stone metal : 521.888 m³ (Rs 458.24/-)					
2 Screening material : 99.26 m³ (345.22/-)					
3 Stone chips : 152.94 m³ (530.85/m³)					
4 Sand : 88.32 m³ : (188.4/m³)					
5 Crushed sand : 9.18 m³ (188.4/m³)					
6 Granular material 11.28 m³ (408.83/m³)					
	28/05/22		31/05/22		

Continuation

Abstract of cost

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
1/1 Const. of working Bm vide TMB pg no 8: 1.461 km @ Rs 12380.75/km				Rs.	18085=
2/2 Const of R pillar vide TMB pg no. 15: 1.46 km @ Rs 14042.60/km				Rs	20502=
3/3 Clearing & grassing vide TMB pg no 8: 0.44 Hect @ Rs 49496=70/Hect				Rs	21779=
4/4 Const of embankment in lead & to 1000 m vide TMB pg no 8: 433.44 m³ @ Rs 174.83/m³				Rs	75778=
5/6 Const of embankment in lead 4. L/1000 m - 1011.31 m³ @ Rs 58=55/m³				Rs	59256=
6/7 Excavation for sealing vide TMB pg no 9+15 = 139.05 m³ + 2.625 m³ Total - 144.30 m³ @ Rs. 74=10/m³				Rs	10693=
7/9 Const of G.S.B vide TMB pg no 9+15 = 622.28 m³ + 25.50 m³ Total = 647.78 m³ round to 647.52 m³ @ R 3972=74/m³				Rs	2572429
8/10 Prov, laying, spreading WBM G-III vide TMB pg no 15+16 - 84.298 m³ 329.315 m³ Total 413.65 m² rounded to 413.61 m³ @ Rs 4906.98/m³				Rs	2029580=

Continuation

Total Rs 4808102=

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/14 Const of P.cc vide TMB pg 16					
= 144.00 m² @ Rs 8718.43/m² Rs 1255454.00					
10/23 Prov of fixing MMG Sy sign board					
vide TMB pg 9 = 2 nos @ Rs					
11790.27/Each				Rs	23581.00
11/31 Earth work vide TMB pg					
9 = 54.80 m³ + pg 11 = 54.80 m³					
Total = 109.60 m @ Rs 260.55/m³ Rs					28561.00
12/32 Sand filling vide TMB pg					
9 = 2.60 m³ + pg 11 = 2.60 m³					
Total = 5.20 m³ restricted to 4.68 m³					
@ Rs 397.34/m³				R	1939.00
13/34 Prov. PCC M15 vide TMB pg					
pg 9 + 12 = 3.97 m³ + 3.97 m³					
Total 7.95 m³ restricted to 7.56 m³ @					
Rs 7404.80/m³				Rs	55980.00
14/39 Prov RCC M28 vide TMB pg					
9 + 14 = 22.79 m³ + 22.79 m³					
Total = 45.53 m³ restricted to					
9154.44/m³				Rs	415795.00
15/40 Prov BPCU filling vide TMB					
pg 9 + 14 = 14.40 m³ + 14.40 m³					
Total = 28.80 m³ @ Rs 3833.94/m³ Rs					110417.00
16/41 Prov weep hole vide TMB pg					
pg 10 + 15 = 20 + 20 = 40 nos					

Continuation Total 6699828.00

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
@ Rs 83=39 / Each				Rs	3336=00
17/43 Supplying, fitting and placing HYSD bar wide TMD type 10/14 =1.61MT +1.61MT Total 3.22MT					
@ Rs 53838=40 / mt				Rs	173359=00
			Total Rs		6876524=00
	Add 12% GST		Rs		825183=00
	Add 1% L-cess		Rs		68765=00
			Total Rs		7770472=00
L cess 0.11% as per Green			Rs		8548=00
			Total Rs		7761924=00
Less pur Amount					0
	Total	Rs			77,61,924=00

(signature) 24/03/22

(signature) 31/03/22

Continuation