Maricohhvs To Manichhvs South

Ansari Tola

Measurement Book

Schedule XLV-Form No. 134

Agreement No. - 20SBD of 20-21

Bagha-2 DIVISION

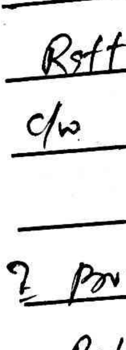
Bhitaha. SUB-DIVISION

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: Marichhra to Marichhra South Ansari tola					
Agency: New Blue Star Construction, West Champaran					
Agreement No. 20 SBD of 20-21					
Agreement Amount: Rs 1088651/=					
Date of Start: 01/06/2020					
Date of Completion: 31/05/2021					
Record Measurement					
1 Clearing and grubbing of road land					
	2	40	30.00	1.50	= 3600.00 m²
	2	1	25.00	1.50	= 75 m²
			Total		3675 m²
			Say		0.37 Ha
2 Construction of working drum					1.225 km
3 Construction of pillar					1.225 km
4 Construction of embankment					
	40	30.00	$\left(\frac{6+7.3}{2} - \frac{3+4.5}{2}\right)$	× 0.30	= 1044.00 m³
	1	25	$\left(\frac{6+7.3}{2} - \frac{3+4.5}{2}\right)$	× 0.30	= 21.75 m³
				Total	= 1065.75 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Construction of embankment - with lead upto 1000 m (30% of total)					= 319.73 m^3
Construct of embankment - with lead upto 100 m (70% of Total)					: 746.02 m^3
	Box culvert (1 X 1 m X 1 m)				
5 Earth work in excavation					
Raft =	1.50 X	5.40 X	0.510		= 4.13 m^3
Cutoff wall below Raft	2 X	1.50 X	0.50 X	1.80	= 2.70 "
R/w	4 X	2.00 X	0.50 X	1.80	= 7.20 "
Site clearance & levelling					= 1.79 m^3
				Total =	15.82 m^3
6 Sand filling in foundation					
Raft =	5.40 X	1.50 X	0.15		= 1.21 m^3
C/w	2 X	1.50 X	0.50 X	0.12	= 0.18 "
				Total =	1.39 m^3
7 Providing P.C.C M15 in found					
Raf :	5.40 X	1.50	X 0.10		= 0.89 m^3
8 ~~Providing HYSD supplying &~~ fitting and placing HYSD bar in C/w main upto 10 mm Φ bar					
Raft ~~and Slab~~ 10					
	2 X	2 X	8 X	1.80	= 48 m
10 mm Φ bar in R/w - main					



Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Bar up to slab level					
100 / 2500 / 100	4 x 2 x	9 x	2.70	=	194.40 m
Distribution bar 10 mm φ bar up to bed level of c/w & stairs					
	2 x 2 x	6 x	5.50	=	132 m
Distribution bar 10 mm φ bar up to bed level of Return wall					
	4 x 2 x	6 x	2.25	=	108 m
Chair bar 10 mm φ bar					
300 / 100 / 200	2 x	4 x	1.20	=	9.6 m
Overlap bar 10 mm φ bar					
		145 x	0.40	=	58 m
10 mm φ bar in abutment (inner side)					
50 / 1400 / 50	2 x	38 x	1.50	=	114 m
(outer side)					
400 / 1400 / 400	2 x	38 x	2.20	=	167.20 m
Main bar 10 mm φ bar in Raft and slab					
1400 / 50 / 50	4 x	38 x	1.50	=	228 m
Distribution bar in Raft, slab and abutment					

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Angle bar connecting to abutment to sleep and Roff					
400 / 40	4 x	38 x	0.80		= 121.60 m
Haunch bar 10 mm ϕ bar					
200 / 450 / 200	4 x	38 x	0.85		= 129.20
				Total =	1694.00 m
		Wt @ 0.617 kg/m		=	1045.20 kg
2 Providing RCC M25 in Concrete box cell					
Roff:	6.00 x	1.50 x	0.21		= 1.89 m³
C/W (below Roff)	2 x	1.50 x	0.20 x	1.14	= 1.02 "
R/W (upto bed level)	4 x	2.00 x	0.30 x	1.35	= 3.24 "
				Total	6.15 m³
[illegible signature] 14/06/20.. JE					
Revised measurement					
1 Providing, supply & fitting HYSD bar in Main bar in parapet 10 mm ϕ bar					
250 / 250	2 x 2 x	8 x	1.00		= 32.00 m
Distribution bar in parapet 10 mm ϕ bar					
1400	2 x	2 x	4 x	1.50	= 24.00 m

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
2 Providing RCC M25 in Box Culvert in					
Abutment	2	6.00	0.25	1.00	= 3.00 m³
Rib	4	2.00	0.30	1.21	= 2.90 "
Haunch	4	½	6.00	0.15	0.15 = 0.27 "
Deck Slab		6.00	1.50	0.21	= 1.85 "
Parapet		2	1.50	0.25	0.60 = 0.45 "
				Total =	8.51 m³
3 Providing weep hole					
Abutment	2	3			= 6 Nos
Rib	"				4 Nos
				Total =	10 Nos
4 Back filling behind abutment of culvert					
	2	5.40	0.60	1.21	= 7.80 m³
5 Providing and Fixing of typical name board					2 Nos.
6 Providing and Fixing maintenance board					= 2 Nos.
7 Box Cutting					
Excavation for roofing					
	2	18	20.00	0.55	0.10 = 396.00 m³
8 Construction of approach					
	2	8	20.00	3.48	0.22 = 2010.62 m³

Abstract

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Record measurement					
1 Construction of granular sub-base by providing well graded material					
	2X8	X 30.00	X 0.525	X 0.100 =	25.20 m³
	8X	30.00X	4.050X	0.100 =	97.20 "
	28X	30.00X	4.050X	0.20 =	680.40 "
	4X	30.00X	3.75X	0.10 =	45.00 m³
	1 X	25.00X	3.75X	0.10 =	9.38 m³
pot repair	6X	5.35X	1.20X	0.15 =	5.78 "
less length of culvert	1X1.00mX		4.050X	0.20 =	(-) 0.81 m³
			Total		862.15 m³

Nagendra Kumar
15/07/2020
JE

Material Statement

1	Earth work	= 3076.37	(1.71/m³)
2	Stone Metal	: 724.206 m³	(516.44/m³)
3	Crushed sand	= 310.374 m³	(188.4/m³)
4	Stone chips	= 13.506 m³	(550.85/m³)
5	Course sand	= 7.024 m³	(614.17/m³)
6	Cement	= 6.167 t	(5002.4/t)

Nagendra Kumar
15/07/2020
JE

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Abstract of cost					
1/1 Construction of working Ram vide TMB page no. 1 = 1.225 km					
@ 12047.96 / km				Rs	14759 = 00
2/2 Construction of Reference pillar vide TMB page no. 1 = 1.225 km @ 13643.83/km					
				Rs.	16714 = 00
3/3 Clearing and grubbing road land vide TMB page no. 1 = 0.37 Hs					
@ Rs. 51133 = 76 / Hs				Rs	18919 = 00
4/4 Construction of embankment ... lead up to 1000m vide					
TMB page no 2 = 319.73 m³					
@ Rs 202 = 52 / m³				Rs	64752 = 00
5/5 Construction of sub grade ... earthen shoulder vide					
TMB page no 5 = 2010.62 m³					
@ Rs 204.16 / m³				Rs	410488 = 00
6/6 Construction of embankment ... lead up to 100 m vide					
TMB page no. 2 = 746.02 m³					
@ Rs. 167.41 / m³				Rs	124891 = 00
7/7 Excavations for roadway vide TMB page no 5 = 25.20 m³					
@ Rs 74.16 / m³				Rs	1869 = 00
				Total Rs.	652392 = 00

Continuation

C/F

Sch. XLV-Form No. 134 B/F Rs. 652392:00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
8 Construction of granular sub base vide TMB page no. 86		862.15 m² @ Rs 3912.68/m³			Rs 3373317:00
9/23 Providing and fixing mmgsy informatory sign board vide TMB page no. 5	2 nos. @ Rs. 11796.96/Each				Rs 23594:00
10/24 Providing and fixing Maintenance Board vide TMB page no 5	2 nos @ Rs. 11796.96 /Each				Rs 23594:00
11/31 Earth work in excavation for foundation vide TMB page no 2		15.82 m³ @ Rs. 269.12/m³			Rs. 4261:00
12/32 Sand filling in foundation vide TMB page no. 2		1.39 m³ @ Rs. 400.55/m³			Rs. 557:00
13/34 Providing P.C.C M15 vide TMB page no. 2		0.89 m³ @ Rs 7103.09/m³			Rs 6322:00
14/39 Providing RCC M25 in Box Cell vide TMB page only = 6.15 vide TMB page no 5 = 8.51/m³ Total: 14.66 m³ Restricted to 14.64 m³ @ Rs. 8722.98/m³					Rs. 127704:00

Continuation

Total Rs 6211741:00

Sch. XLV-Form No. 134 B/R Rs 4211741=00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
15/40 Back filling behind abutment vide TMB page no 5 = 7.80 m3 restricted to 7.20 m3 @ Rs. 3746:33/m3				Rs.	26974=00
16/44 Providing weepholes vide TMB page 5 = 10 nos. @ Rs 83.11/each				Rs	831=00
17/45 supply, fitting and placing HYSD bar vide TMB page no 4 = 1045.24 kg vide page no 4 = 34.55 kg					
Total = 1079.754 kg say 1.08 MT @ Rs 46,462.31/MT				Rs	50179=00
			Total	=	4289725=00
	Add 12% GST			=	514767=00
	Add 1% cess			=	42857.00
	Add Seigniorage fees			=	49346.00
			Total	=	4896735=00
less 2.53% as per agreement				Rs (-)	123887=00
	Payable Amount			Rs	4772848=00

Alegesh (signature)
15/03/2020
JE