महुवा P.M.G.S.Y सड़क से ... टोला तक सड़क

286

Schedule XLV-Form No. 134

MMGSY Gen

Bayha-2 DIVISION

Madhubani SUB-DIVISION

Manish Kr. Singh

Measurement Book

4th and final bill

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Name of work: Construction of road from PMGSY road to Muniyapatti Chotki tola					
Agency: Manish kumar Singh, West Champaran					
Agreement No: 12 SBD of 2019-20					
Date of start. 28/12/2019					
Date of Completion 23/09/2020					
Date of Actual Completion 04/02/22					
Record measurement					
1 providing and applying Primer coat (BS-1)					
	20	30.00	3.75	=	2250.00 sq.m
	2	18.75	$\left(\frac{4.55+3.75}{2}-3.75\right)$	=	22.50 sq.m
			Total		2272.50 sq.m
2 Upgraded to 02/02/22 JE					
Record measurement					
1 Providing and applying tack coat					
	20	30.00	3.75	=	2250.00 sq.m
	2	18.75	$\left(\frac{4.55+3.75}{2}-3.75\right)$	=	22.50 sq.m
			Total		2272.50 sq.m

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
2 Providing, Laying and rolling premix surfacing					
	20 x	30.00 x	3.75	=	2250.00 m²
	2 x 18.95 x	(4.95+3.75)/2		0.75 =	22.50 m²
			Total		2272.50 m²
2 Construction of Subgrade and earthen shoulder					
	2 x 3 x	30.00 x	1.51 x	0.175 =	47.56 m³
	2 x 1 x	10.00 x	1.51 x	0.175 =	5.28 m³
	2 x 20 x	30.00 x	1.49 x	0.200 =	357.60 m³
	2 x 20 x	30.00 x	1.255 x	0.05 =	116.55 m³
			Total		526.99 m³
4 Laying Screen Soling					
	2 x 3 x	30.00 x	0.375	=	67.50 m²
	2 x 1 x	10.00 x	0.375	=	7.50 m²
			Total		75.00 m²
Σ	Box Culvert (1 x 2M x 2M)				
(i) Earth Work in excavation					
Rest	1 x	5.20 x	2.50 x	0.55 =	7.15 m³
C/w & M/w	2 x	6.50 x	1.50 x	0.50 =	9.75 m³
Pitching apron	1 x	8.50 x	1.50 x	0.60 =	7.70 m³
D/S	1 x	8.50 x	2.20 x	0.60 =	11.20 m³
Sitecleaning	1 x	4.75 x	4.00 x		19.00 m²
			Total		54.80 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(ii) Sand filling in foundation					
Raft	1 x	5.20 x	2.50 x	0.15	= 1.95 m³
C/w Hlw	2 x	6.50 x	0.50 x	0.10	= 0.65 m³
			Total		= 2.60 m³
(iii) Providing P.C.C M15 in open foundations					
Raft	1 x	5.40 x	2.50 x	0.150	= 2.02 m³
C/w Hlw	2 x	6.50 x	0.50 x	0.30	= 1.95 m³
			Total		3.97 m³
(iv) Supplying, fitting and placing HYSD bar reinforcement					
main bar in C/w hlw					
Bar	2 x	2 x 12 x 1.36			= 65.28 m
Main bar in Rhw 10mm ϕ bar up & bent @ 200 mm c/c					
	4 x	2 x 11 x 3.5			= 312.40 m
Distribution bar in C/w Hlw 10mm ϕ bar					
	2 x	2 x 6 x 6.50			= 156 m
Distribution bar in Rhw 10mm ϕ					
	4 x	2 x 13 x 2.25			= 234 m
Main bar (upper layer) in Raft 10mm ϕ bar					
	2 x	40 x 2.50			= 200 m

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Distribution bar in Raft foundation					
	2X	11 X 6.00		=	132 kg
Main bar in Abutment inner side of box 10mm ϕ bar					
	2X	20X 2.50		=	150 kg
Main bar in Abutment outer side of box 10mm ϕ bar					
	2X	40X 3.80		=	304 kg
Distribution bar in Abutment 10mm ϕ bar					
	4X	11 X 6.00		=	264 kg
Angle bar Connecting Raft and abutment 10mm ϕ bar					
	2X	40X 1.40		=	112 kg
Hunch bar Connecting to Raft and abutment 8mm ϕ bar					
	2X	40X 1.15		=	92 kg
Over lap bar 10mm ϕ bar					
	34 X 0.40			=	13.60 kg
Chair bar 10mm ϕ bar					
	2X	4 X 1.25		=	10 kg
(V) providing R.C.C works in Raft foundation	1X	6.00X	2.50X	0.25 =	3.75 cum
	2X	6.00X	0.30X	0.85 =	3.31 cum
				Total	7.06 cum

Abstract

Continuation

03/07/12

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Record Measurement					
I Supplying, fitting and placing					
HYSD bar Main bar					
in slab (lower side) 12mm					
ϕ bar					
	40	X 2.50		=	100 m
Main bar in slab (upward side)					
10mm ϕ bar					
	40	X 2.50		=	100 m
Distribution bar in slab 10mm					
ϕ @	2	X 11 X 6.00		=	132 m
Angle bar connecting to slab					
and Abutment 8mm ϕ bar					
	2	X 40 X 1.40		=	112 m
Hunches bar running in slab					
and abutment 8mm ϕ bar					
	2	X 40 X 1.15		=	92 m
Main bar in parapet 10mm ϕ bar					
	2	X 2 X 12 X 1.00		=	48 m
Distribution bar in parapet					
10 mm ϕ bar					
	2	X 2 X 2 X 4 X 2.50		=	40 m
Total length of 8mm ϕ bar				=	296 m
Wt. @ 0.40 kg/m				=	118.40 kg

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
length of 10mm ϕ bar				=	2273.28m
Weight @ 0.617 kg/m				=	1402.614kg
length of 12mm ϕ bar					100 m
weight @ 0.89 kg/m				=	89 kg
Total weight of 12mm ϕ bar				=	1610.614kg
			Say	=	1.61 qtl
2 Providing weep hole				=	20 nos
3 Providing R.C.C Mix in 1:2:4					
Abutment	2	6.00	2.00	0.25	6.00 m³
Rl	4	2.00	0.10+0.20/2	2.25	4.95 m³
Garden	4	1/2	6.00	0.15	0.27 m³
Desk Slab	1	6.00	2.50	0.25	3.75 m³
parapet	2	2.50	0.25	0.60	0.75 m³
4			Total		15.72 m³
4 Providing Back filling behind Abutment					
	2	6.00	2.00	0.60	14.40 m³
5 Prov. Ordinary kilometer Stone					1 no.
6 prov. 200mm stone post				=	3 nos.
7 prov. boundary pillar				=	24 nos.
8 Painting for Coats	2	3	6.00	1.00	66.86 m²

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
9 Prov cement paint					
	2 x 3 x	30.00 x	0.100	=	18.00 m²
	2 x 1 x	10.00 x	0.100	=	2.00 m²
			Total		20.00 m²
10 Prov road marker p					
	2 x 23 x	30.00 x	0.10	=	138.00 m²
	2 x 1 x	10.00 x	0.10	=	2.00 m²
			Total		140.00 m²
11 Providing and fixing Maintenance Board				=	2 nos.
12 Prov triangular board				=	10 nos
13 Prov rectangular board				=	2 nos
14 Prov Octagonal board				=	2 nos
15 Prov 3 way dir cur				= 6 x 2.50 =	15 m
16 planting of tree				=	60 nos
17 Prov & Lay Lowlob option					
	2 x 2 x	9.00 x	3.00 x	0.35	37.80 m³

Earth work quantity

CH	Area m²	Mean Area m²	volume m³
0.00	5.072	2.536	00
50.00	6.449	5.761	288.025
100.00	6.289	6.369	318.450
150.00	4.992	5.641	282.025
200.00	7.748	6.370	318.500
250.00	4.891	6.320	315.475

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
300.00	5.962		5.477		270.825
350.00	1.493		3.728		186.375
400.00	1.366		1.430		71.475
450.00	1.420		1.383		69.650
500.00	1.470		1.445		72.250
550.00	6.387		3.934		196.675
600.00	6.543		6.470		323.520
650.00	5.925		6.239		268.950
7000.00	12.865		9.400		470.00
			Total		3452.130m²
Deduct					
		WBM Gr II			197.72 m²
		Gr-5.0			485.77m²
		Subgrade			1803.38 m²
		Rigid pavement			60.60
Total Qty in Alley					804.66m²
Construction of embankment -- lead up to 100m					241.40m³
Construction of embankment -- lead up to 100m					563.26m³
Net total					
04/02/22					

Continuation

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Material Statement

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1 Earth		527.65 m³		(40-1-)	
2 SS-1	= 1.932 MT			(36.828 = 82/MT	
3 RS-1	= 0.625 MT			(3890	
4 S-90	= 3.572 MT			(Rs 31558 = 3/MT)	
5 Stone Aggregate		61.36 m³		(470.04/-	
6 Stone chip		23.46 m³		(550	
7 Sand		13.42 m³		(180	

Abstract of cost

1	Const of working B.M side TMD Pg no. 15 = 0.700 km @ Rs 12587.02/km		Rs	8811
2	Const. of R. fillet side TMD Pg no 15 = 0.700 km @ Rs 14401.44/km		Rs	10081
3	Clearing & grubbing side TMD Pg no 15 = 0.21 Hect @ Rs 49496.20/Hect		Rs	10394
4	Const. of embankment with approved side TMD Pg no. 21 = 241.40 m³ @ Rs 174.83/m³		Rs	42204

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
5/5 Const of subgrade & earthen shoulder vide TMB pgs 16+20 = 1376.55 m² & 526.99 m² Total 1903.54 m² @ Restricted to 1903.38 m² @ Rs 176=47/m²				Rs	335889.-
6/6 Construction of embankment lead up to 1000 m vide TMB pg no 28 = 563.26 m² @ Rs 58=59/m²				Rs	33001-
7/7 Excavation for roadway vide TMB pg 13 = 10.13 m² @ Rs 74=10/m²				Rs	751-
8/8 Laying brick soling vide TMB pgs 20 = 75.00 m² @ Rs 471=27/m²				Rs	35345-
9/9 Const. of G.S.B vide TMB pgs 3 + 10 = 478.51 m³ + 7.26 m³ Total 485.77 m³ @ Rs 4087=69/m³				Rs	1985677-
10/10 Prov., laying, spreading WBM Gr III vide TMB pgs 17 = 197.72 m³ @ Rs 5045=50/m³				Rs	997675=-
11/11 Prov. & applying prime coat vide TMB pgs 19 = 2272.50 m² @ Rs 42=20/m²				Rs	95900.-
12/12 Prov & applying tack coat vide TMB pgs 19 = 2272.50 m² @ Rs 14=28/m²				Rs	32451=-

Continuation

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Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
17/13 Provn. laying premix surface vide TMB Pg no 24 = 2272.50 m² @ Rs 233.33/m²				Rs	530333.33
14/14 Const of R.C.C vide TMB Pg 17z 60.60 m³ @ Rs 8868.69/m³				Rs	537443.00
15/15 Provn. ordinary bituminous post vide TMB Pg no 24 = 1 no @ Rs 2878.05/Each				Rs	2878.00
16/17 Provn. 2cm stone post vide TMB Pg no 24 = 3 no. @ Rs 719.50/Each				Rs	2158.50
17/18 Provn. boundary pillar vide TMB Pg no 18 = 24 no @ Rs 550.20/Each				Rs	13206.00
18/19 Pointing two coats vide TMB Pg no 24 = 66.96 m² @ Rs 96.40/m²				Rs	6455.00
19/20 Provn water cement post vide TMB Pg no 25 = 20 no @ Rs. 90.30/No				Rs	1806.00
20/21 Provn. of laying road marking vide TMB Pg no 25 = 140 m² @ Rs 735.46/m²				Rs	102958.00
21/22 Provn of fixing MMG sign board vide TMB Pg no 17 = 2 no @ Rs 11830.50/No				Rs	23661.00

Continuation Total Rs 4809122.00

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O/L Rs 4809122=

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
25/24 Prov. & fixing Aluminium					
board wide TMD type 25:24 no					
@ Rs 1185.50/Each				Rs	23661=
25/25 Prov. triangular board wide					
TMD type 25:10 no @ Rs					
3850:00/Each				Rs	38902=
24/25 Prov. rectangular board wide					
TMD type 25:2 no @ Rs					
4504:50/Each				Rs	9009=
25/28 Prov. Octagonal board wide					
TMD type 25:2 no @ Rs					
8461:10/Each				Rs	16922=
25/29 Prov. 3 no dia HP wire					
TMD type 25:15 no @ Rs					
911:20/no				Rs	13668=
27/20 Placing of pre cast TMD type					
No. 25:2 60 no @ Rs			80:50/No	Rs	4808=
28/21 Earth work in excavation					
wide TMD type	12+24=44		45 no		
+ 54.80 m² Total 99.05 m² @					
Rs 260:75/m²				Rs	25811=
29/22 Sand filling wide TMD type					
No. 12+24=36	1.83 m²		2.60 no		
Total 4.48 m²	@ Rs		397:34/m²	Rs	1780=
			Total Rs		4986893=

Continuation

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DIF Rs 4986 893.

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
30/34 Prov RCC wide TMD by hand 12+					
21 = 3.97 m² + 3.57 m² Total =					
7.54 m² restricted to 7.06 m² @ Rs					
7543 = 88/m²				Rs	57032 =
31/35 Prov RCC M20 wide TMD by					
hand 13+22+24 = 22.71 m²=					
7.06 m² + 15.72 m² Total 49.49 m²					
restricted to 49.42 m² @ Rs					
9307 = 92/m²				Rs	422766 =
32/40 Prov boulder fully wide TMD					
by hand 13+24 = 14.40 m²=					
14.40 m² Total 28.80 m² @ Rs					
3948 = 80/m²				Rs	113728 =
33/41 Prov weep hole wide TMD					
by hand 13+24 = 20+20 = 40					
nos @ Rs 83 = 38/Each				Rs	3336 =
34/42 Prov. of Cap of boulder pitch					
wide TMD by hand 25 = 37.80 m²					
@ Rs 4933 = 68/m²				Rs	187325 =
35/42 Supply, fitting & placing					
HYSD bar wide TMD by hand 13+					
24 = 1.61 + 1.61 MT Total					
3.22 MT @ Rs 53901 = 38/MT Rs					173562 =
			Total Rs		5944642 =

Continuation

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Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
D/R Rs					5944642.00
Add 12% GST Rs					713357.00
Add 1% L-cess Rs					59446.00
Total Rs					6717445.00
Less previous paid amount Rs					4752631.00
Total Rs					1964814.00
[signature] 04/01/22 JE					

Continuation