Sitalhiya to Bhagahva (MMGSY)

293

Schedule XLV-Form No. 134

Bagha-2 DIVISION

Piprasi SUB-DIVISION

MB NO- 293

Measurement Book

293

2nd and Final bill

8

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Name of work: Construction of road from Situhiya to Bhagahwa					
Agency: Chandra Bhan Tiwari, Thakrahi					
Agreement No.: 22 SBD/19-20					
Agreement Amount: 5970402/-					
Date of commence: 17/01/2020					
Date of completion: 16/10/2020					
Recond measurement					
1 Construction of granular Sub-base	1 X	25.00 X	3.75 X	0.100	9.375 m³
2 Construction of WBM Gr-III					
	1 X	25.00 X	3.75 X	0.075 =	7.03 m³
deduct length of culvert	1 X	2.00 X	3.75 X	0.075 =	0.58 m³
				Total	6.47 m³
H curve	6 X	20.00 X	(9.75+4.3+3.75 / 3 − 3.75) X 0.075 =		1.65 m³
				Total	8.12 m³
3 Construction of Un-reinforced plain cement Concrete pave					
	9 X	30.00 X	3.75 X	0.160 =	162.00 m³
	1 X	5.00 X	3.75 X	0.160 =	3.00 m³
H curve	3 X	18.70 X	(3.75+4.3+3.75 / 3 − 3.75) X 0.160 =		1.65 m³
				Total	166.65 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
4 Providing and applying primer Coat (SS-1)					
	10	X 30.00	X 3.75		= 1125.00 m²
H. curve	3	X 20.00 X ((3.75 + 4.38 + 3.75) / 3 - 3.75)			= 11.26 m²
				Total	1136.26 m²
Record measurement					
1 Providing and applying tack coat (RS-1)					
	10	X 30.00 X	3.75		= 1125.00 m²
H curve	3	X 20.00 X ((3.75 + 4.38 + 3.75) / 3 - 3.75)			= 11.26 m²
					1136.26 m²
2 Laying bituminous Surface on prepared Surface					
	2	X 9 X 10.00 X	0.375		= 202.50 m²
	2	X 1 X 5.00 X	0.375		= 3.75 m²
					206.25 m²

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
3 Providing, laying and rolling of close graded premix surface					
	10	30.00	3.75	=	1125.00 m²
H Curve	3	20.00	(3.75+4.3+3.75)/3 − 3.75	=	11.26 m²
			Total		1136.26 m²
4 Box culvert (1 x 2m x 2m)					
(i) Earth work in excavation					
Raft		2.50	5.20	0.55 =	7.15 m³
Cutoff wall & Apron	2	6.50	0.50	1.50 =	9.75 m³
Pitching apron U/S		8.50	1.50	0.60 =	7.65 m³
D/S		8.50	2.20	0.60 =	11.20 m³
Site clearance & leveling LS				=	19.00 m²
			Total		54.80 m³
(ii) Sand filling					
Raft		2.50	5.20	0.15 =	1.95 m³
C/w & H/w	2	6.50	0.50	0.10 =	0.65 m³
			Total	=	2.60 m³
(iii) Providing PCC M15 in foundation					
Raft		2.50	5.40	0.15 =	2.02 m³
C/w & H/w	2	6.50	0.50	0.30 =	1.95 m³
			Total	=	3.97 m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
Room of Measurement					
(a) Supply of, fitting and placing HYSD bars 10mm ϕ @ 200mm c/c					
	2 X 2 X 12 X 1.36			=	65.28 kg
(b) Main bars in Raft 10mm ϕ @ 150mm c/c					
	4 X 2 X 11 X 3.50			=	312.4 kg
Distribution bars in short wall and Raft					
	2 X 2 X 6 X 6.50			=	156 kg
Distribution bars in Raft					
	4 X 2 X 1 X 2.50			=	20 kg
Main bars in Raft 10mm ϕ @ 150mm c/c					
	2 X 40 X 2.50			=	200 kg
Distribution bars in Raft 10mm ϕ bar @ 200mm c/c					
	2 X 11 X 6.00			=	132 kg
Main bars in Abutment Inner side 30 X 10mm ϕ bar					
	2 X 30 X 2.50			=	150 kg
Main bars in Abutment outer side 10mm ϕ bar @ 150mm c/c					
	2 X 90 X 2.80			=	504 kg
Distribution bars in Abutment 10mm ϕ bar @ 200mm c/c					
	4 X 11 X 6.00			=	264 kg

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Angle bar 10mm ϕ bar					
	2X	40 X 1.40		=	112 m
Hunter bar 8mm ϕ bar					
	2X	40 X 1.15		=	92 m
Over bars 10mm ϕ bar					
		34 X 0.40		=	13.60 m
Chair bar 10mm ϕ bar					
	2X	4 X 1.25		=	10 m
(v) Providing RCC mast					
Raft		6.00 X	2.50 X 0.25	=	3.75 m³
C/w fdn	2X	6.50 X 0.90 X	0.85	=	3.31 m³
					7.06 m³

(vi) Supplying, fitting and placing				
HYSD bar main bars				
Stirrups 12mm ϕ bar @ 100 c/c				
	1X	40 X 2.10	=	100 m
Main bar in slab (upward side) 10mm ϕ bar				
	1X	40.00 X 2.50	=	100 m
Distribution bar in slab 10mm ϕ bar @ 100 c/c				
	2X	11 X 6.00	=	132 m
Angle bar 8mm ϕ bar				
	2X	40 X 1.40	=	112 m
Hunter bar 8mm ϕ bar				
	2X	40 X 1.15	=	92 m

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
vii) Providing RCC M25					
Abutment	2X	6.00X	0.25X	2.00 =	6.00 m³
H/W	4X	2.00X	(0.30+0.45)/2	X2.2 =	4.95 "
Haunch	4X	½X6.00X	0.15X	0.15 =	0.27 "
				Total =	11.22 m³
viii) Providing weep hole					
		2X5X2		=	10 m
[signature] 14/11/20 JE					
Record Measurement					
1 Masonry in parapet forming of [illegible]					
	2X	2X12X1.00			=48 m
Distribution [illegible] in parapet forming [illegible] @ [illegible]					
	2X	2X4X2.50			= 40 m
2. Providing RCC M25 in					
Deck slab	1X	6.00X	2.50X	0.25 =	3.75 m³
parapet	2X	2.50X	0.05X	0.60 =	0.75 m³
[signature] 1/11/20					4.50 m³
3 Providing back filling of [illegible]					
	2X	6.00X	2.00X	0.60 =	14.40 m³

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
length of 8mm ϕ bar					= 296 m
wt. @ 0.40 kg/m					= 118.40 kg
length of 10mm ϕ bar					2273.28 m
wt. @ 0.617 kg/m					1402.61 kg
length of 12mm ϕ bar					100 m
wt. @ 0.89 kg/m					89 kg
Total wt of HYSD bar					= 1610.01 kg
Say					= 1.61 MT
4 ordinary kilometer stone					= 1 nos
5 plvt fix of 200m stone post					= 2 nos
6 RCC M15 boundary pillar					= 8 nos
7 painting two coats					
	2×1×	6.20×	1.80		= 22.32 m²
8 providing and applying 2 coat water base - - -					
	2×9×	30.00	×0.10		= 54.00 m²
	2×1×	05.00	× 0.10		1.00 m²
				Total	55.00 m²
9 provi & applying hot applied thermoplastic compound					
	2× 10×	30.00×	0.10		= 60 m²
	2× 9×	30.00	× 0.10		= 54 m²
	2×1×	5.00×	0.10		= 1 m²
				Total	115.00 m²
10 providing and fixing MNGIY sign board					= 2 nos

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
11 Prov. & fixing maintenance	Lot			=	2 nos.
12 P/v 600 mm c/c pillar	Lot			=	6 nos
13 P/v 600 mm circular	Lot			=	
13 P/v 600 mm x 450 mm rectangular	Lot			=	2 nos
14 P/v 900 mm side octagon	Lot			=	2 nos
15 P/v and Laying 300 dia pipe				=	7.50 m
16 Planting of trees and their maintenance				=	30 nos
17 Const of suspended earthen Shoulder					
	2 x 10 x 30.00 x 1.28			0.038 =	58.28 m³
	2 x 10 x 30.00 x 1.49			0.200 =	178.80 m³
	2 x 9 x 30.00 x 1.57			0.115 =	142.69 m³
	2 x 1 x 5.00 x 1.57			0.135 =	2.64 m³
				Total =	382.41 m³

18 Earth work excavation

CH (m)	Area (m²)	Mean Area (m²)	Volume (m³)
0	1.160	0.580	0.00
50	5.024	3.087	154.350
100	1.137	3.086	154.275
150	5.232	3.235	161.750
200	1.109	2.224	161.050
250	1.196	1.153	57.625
300	5.569	3.383	169.125
350	6.380	5.975	298.750
400	6.490	6.435	321.750

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
450	4.944		5.717		285.850
475	0.000		2.472		61.800
478	0.000		0.000		0.000
500	~~3.8~~ 3.828		1.914		42.108
550	4.136		3.982		199.100
583	4.370		4.253		140.349
			Total		2208.357
Deduct:					
	WBM Gr-III			=	162.78 m³
	G.S.B			=	262.52 m³
	Sub grade			=	381.94 m³
	Earth in box cutting			=	31.50 m³
	Rigid pavement			=	166.65 m³
	Net Qty in filling			=	1202.967
				say =	1202.97 m³
	70% earth upto 100 m lead			=	842.08 m³
	30% earth upto 1000 m lead			=	360.89 m³

Measured by
15/11/2015
JE

Ticked and verified items checked
[signature] 11/20 AE

Abstract of cost

17

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
1/1 Const. of working Rom vide TMB pg no 4 = 0.575 km @ Rs. 13265=50/km				Rs	7628=00
2/2 Const. of reference pillers vide TMB pg no. 4 = 0.575 km @ Rs. 15612=25/km				Rs.	8977=00
3/3 Clearing and grubbing vide TMD pg no. 5 = 0.17 Hect @ Rs. 49496=70/Hect				Rs.	8414=00
4/4 Const. of embankment - Lead upto 1000 m vide TMB pg no 16 = 360.89 m³ @ Rs 174=00 per m³				Rs.	62794=00
5/5 Const. of suspended earthen Shoulder vide TMD pg no 15 = 382.91 m³ restricted to 381.94 m³ @ Rs. 176=47/m³				Rs.	67401=00
6/6 Const. of embankment ... lead upto 1/2 km vide TMB pg no. 16 = 842.08 m³ @ Rs. 58=50/m³				Rs.	49337=00
7/7 Excavation for roadway vide TMB pg no. 5 = 31.50 m³ @ Rs. 74=50/m³				Rs.	2334=00
8/8 Laying bituminous pig vide TMD pg no 9 = 206.25 m² @ Rs 471=27/m²				Rs.	97199=00
Continuation				Total Rs	1382148=00 304384=00

4K

304384=0
B/F Rs. ~~1382148=00~~

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
9/9 Const of G.B. vide TMB pg no 5 = 253.14 m³ vide TMB pg no 8 = 9.375 m³ Total 262.515 m³ @ Rs. 4475=71 per m³				Rs	1174941=00
10/10 Providing, laying, spreading WBM Gr-II vide TMB pg no 6 = 154.69 m³ vide TMB pg no 8 = 8.12 m³ Total 162.81 m³ restricted to 162=78 m³ @ Rs 5514=75/m³				Rs	897691=00
11/11 Prov. & applying prime coat vide TMB pg no 9 = 1136.26 m² restricted to 1136.25 m² @ Rs. 42=37/m²				Rs.	48143=00
12/12 P/v and applying tack coat (RC) vide TMB pg no-9 = 1136.26 m² restricted to 1136.25 m² @ Rs 14=34/m²				Rs.	16294=00
13/13 P/v & applying mix seal surface vide TMB pg no 10 = 1136.26 m² restricted to 1136.25 m² @ Rs 242=47/m²				Rs.	275507=00
14/14 Const of unreinforced PCC vide TMB pg no 8 = 165.65 m³ @ Rs 9333=80/m³				Rs.	1562477=00

Total Rs ~~5357720=00~~
4279437=00

Continuation

C/F

4279437=00

Sch. XLV-Form No. 134

B/F Rs. 5337201=00

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
15/16 ordinary bm pcc wide TMB pg no. 14 = 1 no @ Rs. 3004.81 /Each				Rs.	3005=00
16/17 P/F & fixing 200 m stone wide TMB pg 14 = 2 nos @ Rs. 742=41 /Each				Rs.	1485=00
17/18 P/F boundary pillar wide TMB pg 14 = 8 nos @ Rs 560=88 /Each				Rs.	4487=00
18/19 Paint two coats wide TMB pg no. 14 = 22.32 m² @ Rs. 96=40 /m²				Rs	2152=00
19/20 Provide 20 cats water proofing compound wide TMB pg no. 14 = 55 m² @ Rs. 90=30 per m²				Rs.	4966=00
20/21 P/F & applying hot applied thermoplastic compound wide TMB pg no 14 = 115 m² @ Rs. 735=48 /m²				Rs	84571=00
21/22 P/F & fixing MM grill 50 mm wide TMB pg no. 14 = 2 nos @ Rs. 11966=55 /Each				Rs	23933=00
22/24 P/F & fixing manhole cover 50 mm wide TMB pg no. 15 = 2 nos. @ Rs. 11966=55 /Each				Rs	23933=00
Continuation				Total Rs	5505793=00
					4427969=00

4427969=0

Sch. XLV-Form No. 134

B/F Rs. ~~5505733=0~~

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
23/26 P/F & Fix 6mm equivalent triple board wide TMB Pg no. 15 = 6 Nos @ Rs. 3933= 35/Each				Rs	23720=00
24/27 P/F & Fix 600mm x 450mm reading board wide TMB Pg no. 15 = 2 Nos @ Rs. 4563=40/Each				Rs.	9127=00
25/28 P/F & Fix 500mm size octagon wide TMB Pg no. 15 = 2 Nos @ Rs 8520=25/Each				Rs.	17041=00
26/29 P/F & Laying RCC NP3 pipe wide TMB Pg no. 15 = 7.50m @ Rs 976=89/M				Rs	7327=00
27/30 Planting of Trees and their maintenance wide TMB Pg 15 = 30 Nos @ Rs. 800=00/Each				Rs.	24009=00
28/31 Earth work in excavation wide TMB Pg no. 10 = 54.80 m³ @ Rs. 260=55/m³				Rs.	14280=00
29/32 Sand filling wide TMB Pg no. 10 = 2.60 m² reduced to 2.44 m² @ Rs 397=04/m²				Rs	970=00
				Total Rs	~~5602207=~~

Continuation 4524493=

C/F

4524449
B/F Rs. ~~5602207~~=00

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
30/34 P/v PCC M15 vide TMB pg no 10 = 3.97 m³ restricted to 3.78 m³ @ Rs. 8013=22/m³					Rs. 30290=00
31/39 P/v RCC M25 vide TMB pg no 12 = 7.06 m³ vide TMB pg no 13 = 11.22 m³ vide TMB pg no 13 : 4.50 m³ Total 22.78 m³ restricted to 22.71 m³ @ Rs 9825=92/m³					Rs 223147=00
32/40 back filling behind abutment vide TMB pg no. 13 = 14.50 m³ @ Rs. 4336=20/m³					Rs 62452=00
33/41 P/v weep hole vide TMB pg no. 13 = 20 nos @ Rs. 83=39 /Each					Rs. 1668=00
34/43 supplying, fitting and placing HYSD bar reinforcement vide TMB pg no 14 21.6 MT @ Rs. 54114.38 /MT					Rs. 87124=00
Total					Rs. 4929124=00
Add 12% GST					Rs. 591495=00
Add 1% cess					Rs. 49291=00
Total					Rs. 5569910=00
less 0.07% @ paid Amount					Rs. ~~3855~~ 2273640
Payable Total					Rs. 3292271=00

15/11/20

Continuation