(MR New Maintainance Policy-18) (Below :-0.01%.)

Agreement No:- 05 MBD/2019-20

Agreement Amount:- ₹ 6431157 9=00

Measurement Book

Schedule XLV-Form No. 134

N/w :- "Mahapur to sishua Road tak Path nirman kaya."

DIVISION

Name of contractor:- Ashish Construction

Date of commencement:- 25.11.2019 SUB-DIVISION

Date of completion :- 24.08.2020

MB No - 2097

अभिप्रमाणित किया जाता है कि इस साथ फुटल में (100) एक सौ संख्या मुद्रित पन्ने हैं। M/R New Maintenance Policy-18 योजनान्तर्गत "Mahapur to Sichua Road tak Pathnirman" कार्य हेतु प्राक्कलित तकनीकी अनुमोदन कार्य अवर प्रमण्डल - तारापुर को निर्गत किया जाता है।

25.11.2019.

EXECUTIVE ENGINEER
R.W.D WORKS DIVISION
Kharagpur-Tarapur (Munger)

25.11.19

25/11/19

Sch, XLV-Form No. 134

Kharagpur - Tarapur **DIVISION**

Tarapur **SUB-DIVISION**

Measurement Book

No. -2097

Name of Officer _____

_____

Date of first entry _____

Date of last entry _____

1st on A/C Bill

1

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				Contents of area
	No.	L.	B.	D.	
ch-HI	M/R (3054)				
Name of work)-			M/R to		Road
from	Makpur to		sishua		Road.
Agency)-	A shish		Const. (P)		A shish
Ranjan, At)-	Gola		Road,	Sadi Pur,	
Dist-	Muzaffar.				
Agreement No.)-			05 IYBD/2019-20		
Date of Commencement)-			25-11-2019		
Date of Completion)-			24-08-2020.		
Agg. value Rs.					

Measurment

(1) clearing and grubing Road Land -etc.					
2x	83x	30m	x 0.75m =		0.3735Hac
2x	1x	10m	x 0.75m =		0.0015Hac
					0.375Hac
(2) E/W excavation in foundation -etc.					
H/W:-	2x3.90m	x 1.15m	x 1.50m =		13.455M³
(3) P/W. P.C.C. M15 as leveling Course in foundation -etc.					
H/W:	2x 3.90m	x 1.15m	x 0.15m =		1.345m³
					Measurement checked by J.E.

Continuation

C.O.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
(1) Brick masonary work in (1:4) -etc.					C.M.
~~H/W:-~~	2×3.60m×	1m+0.40m		×2.78m	
		2			
				=14.013M³	
H/W: 2×	3.60m×	1.0m+0.80m		×	
		2			
			1.35m=		8.748M³
(2) E/W excavation in foundation -etc.					
Below Pipe):-	~~1×5.35m×~~			0.40m	=2.46M³
	1×5.35m×	1.15m×	0.65m=		+.54M³
(3) P/V P.C.C. M15 in boundation etc.					
Below Pipe):-					
1×5.35m×	1.15m×	0.25m=			1.54M³
~~Less for Pipe):-~~					
(4) P/V and laying R.C.C. H.P. NP3					
-etc-					
	1×3	×2.50m=		7.50m.	
(5)					
(1) Brick masonary work in C.M. (1:4) -etc.					
H/W: 2×	3.60m×	0.80m+0.40m		×	
			2		
			1.45m=		6.264M³
Parapet:-	2×3.60m×	0.40m×	0.60m=		1.728M³
					7.992M³
~~Less for Pipe):-~~					
$2\times\frac{\pi}{4}\times(0.83)^2\times$		0.53m		=(-)	0.57m³
					7.422M³
(2) plastering with C.M. (1:4) in -					

Continuation

C.O.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
B/W	--	--etc.			
2×3·	60m	× 3·	38m	=	24·336 m
2×	3·60m×	0	·60m	=	$4.32m^2$
2×	3·60m×	0	·40m	=	$2.88m^2$
2×2	×0·75m×		2·18	m=	$6.104m^2$
2×2	×0·	40m×	1·20m	=	$1.92m^2$
					$39.556m^2$
~~Less for Pipe~~ 2× $\frac{\pi}{4}$	(0·83)^2			=(-)	$1.082m^2$
					$38.474 m^2$
(3) P/W 1·50mm cement Pointing					
	--etc.				
2×	3·60m×	0	·40m	=	$2.88m^2$
2×2×	0·4	0m×	1·20m	=	$1.92m^2$
2×	3·60m×	0	·60m	=	$4.32m^2$
					$9.12m^2$
				[illegible signature] 21/07/2020 J.E.	
(1) Const	of	G.S.	B. Grading II		
Material - etc.					
8×0·80m×	0·75m	×0·1	75m =		$0.84m^3$
9×1·20m×	1·10m	×0·1	75m =		$2.08m^3$
4×1·	35m×	0·70m	×0·175m =		$0.66m^3$
2×1·	40m	×1·20m	×0·175m =		$0.59m^3$
8×1·	50m×	1·0m	×0·175m =		$2.10m^3$
5×1·	50m	×0·85m	×0·175m =		$1.12m^3$
5×1·	85m×	0·95m	×0·175m =		$1.54m^3$
9×2·	40m×	2·0m	×0·175m =		$7.56m^3$
8×2	·65m	×1·95m	×0·175m =		$7.23m^3$
8×2·75m	×2·50m	×0·175m =			$9.62m^3$
					$33.34m^3$

Continuation

[illegible signature] 21/07/2020 J.E.

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) P/V.	Laying, spreading and				
Comfacting W.B.M. Grade-II etc.					
8×0.9	0m ×	0.80m ×	0.0	75m =	0.43m³
9×1.	30m ×	1.20m ×	0.0	75m =	1.05m³
4×1	.40m ×	1.0m ×	0.	075m =	0.42m³
2×1.	50m ×	1.40m ×	0.	075m =	0.31m³
8×1.	60m ×	1.20m ×	0.0	75m =	1.15m³
5×1.	75m ×	1.0m ×	0.0	75m =	0.66m³
5×	2.0m ×	1.0m ×	0.0	75m =	0.75m³
9×	2.50m ×	2.20m ×	0.	075m =	3.71m³
8×	2.70m ×	2.0m ×	0.	075m =	3.24m³
8×	2.90m ×	2.75m ×	0.0	75m =	4.78m³
11×	2.75m ×	2.0m ×	0.0	75m =	4.54m³
12×	2.50m ×	2.20m ×	0.0	75m =	4.95m³
9×	2.80m ×	2.60m ×	0.0	75m =	4.91m³
12×	1.80m ×	1.20m ×	0.0	75m =	1.94m³
11×	2.25m ×	1.90m ×	0.0	75m =	3.45m³
8×	2.80m ×	2.0m ×	0.0	75m =	3.36m³
15×	1.60m ×	1.20m ×	0.0	75m =	2.16m³
					41.81m³
					5/12/20
				30	
(1) P/V.	Laying, spreading and Comfacting				
W.B.M. Grade-III etc.					
8×	1.0m ×	1.0m ×	0.	075m =	0.60m³
9×	1.50m ×	1.30m ×	0.0	75m =	1.32m³
4×	1.60m ×	1.20m ×	0.0	75m =	0.58m³
					2.50m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		R.C. Work.			2.50m³
2X	1.60m	X 1.60m	X 0.075m	=	0.38m³
2X	1.50m	X 1.50m	X 0.075m	=	0.34m³
8X	1.85m	X 1.25m	X 0.075m	=	1.39m³
5X	1.80m	X 1.20m	X 0.075m	=	0.81m³
5X	2.25m	X 1.20m	X 0.075m	=	1.01m³
9X	2.80m	X 2.50m	X 0.075m	=	4.72m³
8X	2.75m	X 2.10m	X 0.075m	=	3.46m³
8X	3.0m	X 2.90m	X 0.075m	=	5.22m³
11X	2.80m	X 2.70m	X 0.075m	=	4.85m³
12X	2.60m	X 2.30m	X 0.075m	=	5.38m³
9X	2.80m	X 2.70m	X 0.075m	=	5.19m³
12X	1.90m	X 1.25m	X 0.075m	=	2.14m³
11X	2.30m	X 2.60m	X 0.075m	=	3.79m³
8X	3.0m	X 2.10m	X 0.075m	=	3.78m³
15X	1.75m	X 1.25m	X 0.075m	=	2.46m³
15X	2.90m	X 2.20m	X 0.075m	=	7.18m³
13X	2.70m	X 2.50m	X 0.075m	=	8.61m³
13X	2.90m	X 2.20m	X 0.075m	=	6.22m³
					69.43m³
(2)					
(1)	Const of P.C.C. Pavement				
M30	etc.				
5X	15m	X 3.75m	X 0.10m	=	28.12m³
1X	15m	X (3.75m + 6m + 4.10m) / 3	X 0.10m	=	6.92m³
1X	15m	X (4.10m + 4m) / 2	X 0.10m	=	6.07m³
					41.11m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F.	B.F.	=	41.11m³
1 × 15m	×	(4.0m + 7.0m + 4.5m + 3.9m)/4	× 0.10m	=	7.27m³
1 × 15m	×	3.90m + 3.75m / 2	× 0.10m	=	5.74m³
14 ×	15m	× 3.75m	× 0.10m	=	78.75m³
1 × 7.0m	×	3.75m + 6.70m / 2	× 0.10m	=	3.66m³
3 ×	15m	× 3.40m	× 0.10m	=	15.30m³
1 × 15m	×	3.40m + 5.90m + 4.60m / 3	× 0.10m	=	7.10m³
1 × 15m	×	4.60m + 3.30m / 2	× 0.10m	=	5.92m³
1 × 15m	×	3.30m + 3.50m / 2	× 0.10m	=	5.10m³
1 × 15m	×	3.30m + 5.80m + 3.50m / 3	× 0.10m	=	6.30m³
1 × 30m	×	3.50m	× 0.10m	=	10.50m³
1 × 15m	×	3.50m + 4.10m + 3.0m / 3	× 0.10m	=	5.30m³
1 × 15m	×	3.0m + 5.0m / 2	× 0.10m	=	6.0m³
1 × 15m	×	5m + 3.75m / 2	× 0.10m	=	6.56m³
1 × 15m	×	3.75m + 4.60m / 2	× 0.10m	=	6.26m³
1 × 15m	×	4.60m + 3.40m / 2	× 0.10m	=	6.0m³
1 × 15m	×	3.40m + 5.30m + 3.60m / 3	× 0.10m	=	6.15m³
					223.02m³

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
		B.F	B.F	=	211.44m³
1	15m	3.60m + 3.10m / 2		x 0.10m	= 5.02m³
1	15m	x 3.10m	x 0.10m	=	4.65m³
1	15m	x 3.10m + 4.50m + 3.75m / 3		x 0.10m	= 5.67m³
1	x 15m	x 3.75m	x 0.10m	=	5.62m³
1	15m	x 3.75m + 5.20m + 3.10m / 3		x 0.10m	= 6.02m³
3	x 15m	x 3.10m	x 0.10m	=	13.95m³
1	x 15m	x 3.10m + 4.70m + 3.75m / 3		x 0.10m	= 5.77m³
2	x	3.60m x 3.75m	x 0.10m	=	22.50m³
1	x 8m	x 3.75m	x 0.10m	=	3.00m³
3	x 15m	x 2.70m	x 0.10m	=	12.15m³
1	x 15m	x 2.70m + 3.75m / 2		x 0.10m	= 4.84m³
1	x 15m	x 3.75m	x 0.10m	=	5.62m³
1	x 15m	x 3.75m + 2.85m / 2		x 0.10m	= 4.95m³
1	x 15m	x 2.85m	x 0.10m	=	4.27m³
1	x 15m	x 2.85m + 3.50m / 2		x 0.10m	= 4.76m³
1	x 15m	x 3.50m + 3.75m / 2		x 0.10m	= 5.44m³
1	x 18m	x 3.75m + 6.00m + 4.90m / 3		x 0.10m	= 8.79m³
1	x 15m	x 3.75m	x 0.10m	=	5.62m³
					351.66m³

Continuation

C-01

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
			B.F		351.66m³
1×15m×3.70m+4.80m+3.70m					
			3	0.10m =	6.15m³
2×1.5m		×3.70m	×0.10m =		11.25m³
1×1	6m	×3.75m	×0.10m =		6.0m³
					375.66m³

(1) Plv. and Laying Primer Coat over W.B.M-III Surface etc.

8×	1.0m	×1.0m	=	8.0m²
9×	1.50m	×1.30m	=	17.55m²
4×	1.60m	×1.20m	=	7.68m²
2×	1.60m	×1.60m	=	5.12m²
2×	1.50m	×1.55m	=	4.65m²
8×	1.85m	×1.25m	=	18.50m²
5×	1.80m	×1.20m	=	10.80m²
5×	2.25m	×1.20m	=	13.50m²
9×	2.80m	×2.50m	=	63.00m²
8×	2.75m	×2.10m	=	46.20m²
8×	3.0m	×2.90m	=	69.60m²
11×	2.80m	×2.10m	=	64.68m²
12×	2.60m	×2.30m	=	71.76m²
9×	2.85m	×2.70m	=	69.25m²
12×	1.90m	×1.25m	=	28.50m²
				498.79m²

Continuation

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
			B. F. BY :-		498.79m²
[illegible]	19	× 2.8 [illegible]	× 2.70m	=	69.25m²
	12	× 1.9 om	× 1.25m	=	28.50m²
	11	× 2.30m	× 2.0m	=	50.60m²
	8	× 3.0m	× 2.15m	=	51.60m²
	15	× 1.75m	× 1.25m	=	32.81m²
	15	× 2.90m	× 2.20m	=	95.70m²
	17	× 2.70m	× 2.50m	=	114.75m²
	13	× 2.9 om	× 2.20m	=	82.94m²
					927.19m²
② PLY and applying Tack					
Coat over Patch [illegible] etc					
BY vide T. m. B. P No. (8, 9)					
I. No. ① = 927.19 m²					
③ Patch work over W.B.m.					
Using mix seal surface-etc.					
BY. vide T. m. B. and F. P.					
I. No. ② = 927.19m²					
			[illegible]		
				S.E	
① PLY. and applying Tack					
Coat over all surface etc					
for S. D. B. C. etc.					
~~1 × 6.40m × 3.70m~~ [illegible]					
	1	× 8m ×	6.40m+3.75m / 2	=	40.60m²
	1	× 13m ×	3.75m	=	48.75m²
	40	× 30m ×	3.75m	=	4500.00m²

Continuation 4589.35 m²

C.01

Sch. XLV-Form No. 134

Particulars	Details of actual measurement No.	L.	B.	D.	Contents of area
		B.F.B.T.Y. =			4589.35 ~~4589.60~~ m^2
9	X 30m	X 3.75m	=		1012.50 m^2
1	X 9m	X 3.75m	=		33.75 m^2
					5606.85
					5635.60 m^2
					~~M.B.~~ 16/09/2020 S.C.
(1)	P/V. and Laying 25mm thick				
S.No.	B.C.	---	etc.		
1	X 8m	X 6.40m ~~+ 3.75m~~ / 2	X 0.025m	= 1.01 m^3	
	40 X	30m X	3.75m X 0.025m	= 112.50 m^3	
for	9 X 30m	X 3.75m X	0.025m	= 25.31 m^3	
	1 X 9m	X 3.75m X 0.025m		= 2.53 m^3	
					141.35 m^2
(2)	Road marking with Hot applied thermoplastic compound in R.T. surface etc.				
2 X 40	X 3.0m	X 0.10m	=		240.00 m^2
2 X	2.1m	X 0.10m	=		4.20 m^2
2 X 9 X	30m	X 0.10m	=		54.00 m^2
2 X	9m	X 0.10m	=		1.50 m^2
					300.00 m^2
(3)	Road marking with Hot applied thermoplastic compound in P.C.C. surface etc				
~~2 X 33m X~~					
2	X 33	X 30m X 0.10m	=		198.00 m^2
					~~1980.~~ 198.00 m^2

Continuation

L-0

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
					1918.00 m²
	1 × 2 ×	10m	× 0.10m	=	2.00m²
					2.00.00m²
(4) P/W Brick masonary work in c.m. (1:3) in face of ref facing — etc.					
	3 × 2 ×	5.0m	× 0.25m	× 0.60m =	4.50 m³
(5) Plastering with c.m. (1:4) — etc					
	3 × 4 ×	5.0m	× 0.60m	=	36.00m²
	3 × 2 ×	5.0m	× 0.25m	=	7.50m²
	3 ×	4 ×	0.25m × 0.60m	=	1.80m²
					45.30 m²
(6) Painting two coat over face of Plaster — etc.					
D+Y. vide T.M.N and T.P. I. No. (5) = 45.30m²					
(7) Const of Sub-grade and earthen shoulder in flanks — etc.					
	2 × 40 × 30m	× 1.25m	× 0.30m	=	900.00 m³
	2 × 2	+ m	× 1.25m × 0.30m	=	15.75m³
	2 × 9 ×	30m	× 1.0m × 0.30m	=	162.00m³
	2	× 9 ×	1.0m × 0.30m	=	5.40m³
					1083.15 m³
(8) P/W and fixing K.M. Pot-et = 3 No.					

Continuation

C.01

Sch. XLV-Form No. 134

Particulers	Details of actual measurement No.	L.	B.	D.	Contents of area
(9) Plv. and fixing 12mm Postal Box = 11 No.					
(10) Plv and fixing Logo of Project Logo of Project Board citizen Board				= 1.0 No = 1 No = 2.0 No	
(11) Printing New letter and figures of any shade - etc. 2 x 176 =					352 No
(12) Direction and Place identification Board - etc. 5 x 1.2 m x 0.80 m =					4.80 m²
(13) Plv. and fixing Tactful 6mm Board - etc.					
(i) 600mm equilateral and Traingle Board =					18 No
(ii) 600mm Circular Board = 8 No					
(iii) 800mm x 600mm Rectangular Board = 2 No					
(iv) 600mm x 450mm Rectangular Board = 2 No					
(v) 900 mm Side Octagon Board = 2 No					

Continuation

2nd and Final Bill

Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Ch-II :- MR(3054) New Maintenance Policy 2018					
Name of work :- M/R to Road from Mahpur to Shishuan Road.					
Agency :- Ashish Const. At :- Gola Road, Shadipur, Dist :- munger.					
Agg. No :- 05 MRD/2019-20					
Date of commencement :- 25-11-2019					
Date of Completion :- 24/8/2020					
Actual Date of Completion :- 28/10/2020					

ABSTRACT Measurement

(1) Planting of Tree - etc.			= 125.00 No.	
(2) P/V. of Rumble of strips etc.			= 13×12 = 156 No	
(3) P/V. of Rumble strips. - etc.	13	3×0.50 m =	19.50 m²	
			28/10/2020	
		C/S 07/06/2021	J.E. Tarapur	

Continuation