

Sant. G. Labi Kumars

Agno. 24 (SDD) / 2020-21

10m u - Kharagpur put Road to Bhagalpura Road

Schedule XLV-Form No. 134

Head - M H S (SC)
Length - 100 km

R. W. D (W) Jajma

DIVISION

Barhet

SUB-DIVISION

MEASUREMENT BOOK

MB No 2859.

1st. on a/c Bill

Construction of rd. from
Jamui - Kharagpur PWD road

Name of Work to Bhagalpura

Situation of Work - Date of Commencement - 18-3-21

Agency by which work is executed - Smt. Gulebi Kumar

Date of Measurement - 17-12-2021

No. and date of agreement 74 (S20)/2020-21

(These four lines should be repeated at the commencement
of the measurement relating to each work)

17-12-2021

Particulars	Details of actual measurement			Contents of area
	No.	Ag. L. Value	Unit	
① Providing & forming of working bench Mark			Cost	R. 4865.090/- 376528/-
Roller do all complete				5841.628/-
1x7x30 = 210				
1x10x30 = 300				
2x8x30 = 480				
1x1x10 = 10				
			1000 M	1 KM.

② Clearing & grubbing
of road land

1x1000x3.50 = 3500 m ²				
$\frac{3500}{10000} = 0.35 \text{ km}^2 = 0.35 \text{ km}^2$				

EARTH WORK QUANTITY SHEET

SL. no.	Chainage m	Area m ²	Area m ²	Distance m	Volume m ³
1	0.00	3.48	-	-	-
2	100	3.45	3.465	100	346.50
3	200	3.05	3.250	100	325.00
4	300	2.96	3.005	100	300.50
5	400	3.06	3.010	100	301.00
6	500	3.03	3.045	100	304.50
7	600	3.09	3.060	100	306.00
8	700	3.02	3.055	100	305.50
9	800	2.53	2.775	100	277.50
10	900	3.09	2.810	100	281.00
11	1000	3.11	3.100	100	310.00

Continuation

T = 3057.50

---(i) m³

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(6/7) WBM gr. ③: forming Laying, spreading & compacting of stone aggregates do - all complete					
	1x7x30.0	3.75	0.075		59.66
	1x10x30.0	3.75	0.075		84.38
	2x8x30.0	3.75	0.075		135.00
	1x10x30.0	3.75	0.075		2.81
Curve	2x30x	$\frac{5.0+3.75}{2}$	3.75	0.075	2.81
					284.06 m ²
(7/8) Road coat (SS): forming do - applying & rolling					
Coat with bitumen Emulsion do all complete					
	1x7x30.0	3.75			787.50
	1x10x30.0	3.75			1125.00
	2x8x30.0	3.75			1800.00
	1x10.0	3.75			137.50
Curve	2x30x	$\frac{5+3.75}{2}$	3.75		37.50
					3787.50 m ²
(8/9) Tack coat (PS): forming do - applying tack coat do - all complete					
Qty. used Tack gr. ③					3787.50 m ²

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(15/18) SIFIP of 800x600mm Rectangles		4 no			4 no.
(16/19) SIFIP of 600x450mm Rectangles		3 no			3 no
(17/21) Rd. Marking, Bounding Laying had applied thermo plastic do all complete.					
		2x17 x 30.0 x 0.10			102.00
		2x16 x 30.0 x 0.10			96.00
		2x1 x 10.0 x 0.10			2.00
					200.00 m
(18/22) SIFIP of bounding Pile					
(19/23) SIFIP of Dec-M-15 grade do all complete					
		2x4x4 = 32 no			32 no
(20/24) Bounding & erecting direction board do all complete.					
		4 no			4 no
(21/25) Bounding & fixing of typical masonry informationary board do all complete.					
		3+2 = 5 no			5 no.

Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(21/25) H.P. Culvert 470. w excavation w foundation.					
H.W	4x2x	3.90	1.15	1.50	= 53.82
Below pipe	4x1x	5.35	1.13	0.365	= 8.83
					62.65 MB
				Less	62.64 MB
(22/26) Framing for - 11.5. w foundation					
do - all complete.					
H.W	4x2x	3.90	1.15	0.15	= 5.38
Below pipe	4x1x	5.31	1.13	0.25	= 6.00
					11.38 MB
(23/27) Plain / Reinforced concrete					
Concrete - 11.20					
in substructure.					
do - all complete.					
	4x2x	3.60	$\frac{0.4 \times 1.0}{2}$	x 2.78	= 56.05
	4x2x	3.60	0.40	0.60	= 6.91
					62.96
Less for pipe	4x2x	$\frac{1}{4} \times (0.83)^2$	x 0.53		= 2.30
					60.66 MB
(24/28) Framing & Laying of 600 mm Ø Rcc Hume pipe - do all complete.					
	4x3x	2.50			= 30.0

5/12/21
SE

Continuation

Continuation

ABSTRACT OF COST (1st Bill)

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Sch. XLV-Form No. 134

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
(1) Providing & Laying Bitum. Mast.					
Qty. vide TMB Page (1)					
1.0 KM CR	32994.88				32995.00
(2) Cleaning & grubbing rd. L.W.					
Qty. vide TMB Page (1)					
0.35 mts. CR	51133.76				17897.00
(3) Construction of embankment.					
Qty. vide TMB Page (2)					
717.25 m ³ CR	135.12				96915.00
(4) Construction of earthen shoulder					
Qty. vide TMB Page (2)					
765.27 m ³ CR	176.86				135452.00
(5) Construction of subgrade					
Qty. vide TMB Page (2)					
2340.00 m ³ CR	176.86				413852.00
(6) Construction of subgrade					
Qty. vide TMB Page (2)					
818.10 m ³ CR	1745.23				1427773.00
(7) Providing & Laying WBM 90					
Qty. vide TMB Page (3)					
284.06 m ³ CR	2312.91				657005.00
(8) Providing & applying Prime coat					
Qty. vide TMB Page (3)					
3787.50 m ² CR	45.59				172672.00
(9) Providing & applying Top coat					
Qty. vide TMB Page (3)					
3787.50 m ² CR	15.49				58668.00

Continuation

Rs 30,13,229.00

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
($\frac{19}{22}$) SIFC of boundary pillars Qty. under TMB Page (5)					
32 no. C.Rs 484.52 / each = Rs 15505=					
($\frac{20}{23}$) Providing erecting direction board Qty. under TMB Page (5)					
4 no. CRs 11676.68 / each = Rs 46707=					
($\frac{21}{24}$) Providing & fixing MMSY board. Qty. under TMB Page (6)					
5 no. CRs 9359.14 / each = Rs 46796=					
($\frac{22}{25}$) Filling excavated in road Qty. under TMB Page (6)					
62.648 m³ CRs 294.73 / m³ = Rs 18464=					
($\frac{23}{26}$) Providing pre-mix in tender Qty. under TMB Page (6)					
11.38 m³ CRs 4998.81 / m³ = Rs 56886=					
($\frac{24}{27}$) Plain Rec-M-20 in Sub structure Qty. under TMB Page (6)					
60.66 m³ CRs 6150.74 / m³ = Rs 373104=					
($\frac{25}{28}$) Providing staying around H.P Qty. under TMB Page (6)					
30.04 CRs 3411.47 / m² = Rs 102344=					
($\frac{26}{29}$) Painting two coats on surfaces Qty. under TMB Page (7)					
49.92 m² CRs 97.19 / m² = Rs 4852=					
Rs					4779431=

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
Add 12 Y. CST				41R	5,73,532.2
Add 1% Labour cess				41R	47,794.2
					/
				Rs	54,00,757.2
Less 10% below as per agreement				41R	5,40,076.2
					/
Grand Total				Rs	48,60,681.2
					3,13,104.2
17-12-21					
JB					

Materials statement.

F/w (Sail) : 4779 MB			
50% St. aggregate :	495 MB	5	16.42
20% " " :	198 MB	4	11.33
30% Coarse Sand :	297 MB	1	50.80
WBM-90 (3)			
St. aggregate :	344 MB	4	58.22
St. Screening :	68 MB	3	45.52
St. Chippes :	65 MB	2	528.14
Coarse Sand :	33 MB	1	50.80
St. Chippes in Pot :	103 MB	4	70.04
SS ₁ :	3' 22 MT.		
RS ₁ :	1.08 MT.		
SS ₀ :	7.20 MT.		

17-12-21
JB

Continuation