

GENERAL ABSTRACT OF COST

Block :- Kalyanpur

Distret :- Samastipur

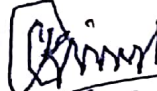
Construction of Length of Road :- 1.825 KM

Name of Road :- FDR to Road from Madanpur Tola to Mallah Tola Dusadh Tola

Sl.No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION	8,92,940.00
	GST @ 12% & LABOUR CESS @ 1%	1,16,082.00
	TOTAL PROJECT COST -(A)	10,09,022.00


22/10/20

Junior Engineer


22/10/20

Asstt. Engineer

Pay Rs 10,09,000 = 00

27/10/20

Executive Engineer

Technically approved for Rs 10,09,000 = 00 Ten Lakh
Thousand only.


19.1.21

S.E.
R.W.D.


19.1.21.

आचार्य कावे विभा-
कावे संयुक्त, प्रयत्नोक्त

Estimate for FDR road from Madanpur Tola to Mallah Tola Dusadh Tola Road for the year 2020-21

Supplying & filling bricks bat & Compacting Manually by CI harmar including
all comp. job.

Near 1st Culvert

$$4 \text{ Nos.} \times 6.00 \times 4.00 \times 3.00 = 288.00$$

2nd layer

$$4 \text{ Nos.} \times 6.00 \times 4.00 \times 2.00 = 192.00$$

$$480.00 \text{ M}^3$$

@ Rs. 1680.02 Per M^3

Rs. 8,06,410.00

2 Construction of Embankment with app. Materials
Corner

$$4 \times 50 \times \frac{1.5 + 1.00}{2} \times 2.00 = 500.00$$

@ Rs. 173.06 Per M^3

Rs. 86,530.00

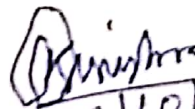
Add-

Labour Cess 1% & GST 12%

Rs. 1,16,082.00

Rs. 10,09,022.00


22/10/20


22/10/20
AE



Executive Engineer
RWD, Works Division, Samastipur

1	Granular Sub-Base with Coarse Graded Material (Table:- 400-2)					
	By Mix in Place Method					
	Construction of granular sub-base by providing Coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.					
	For Grading I Material					
	Unit = cum					
	Taking output = 300 cum					
						Rate per cum
						680.28
						Add for Carriage Cost
		Cum	0.768	1549.47		1189.99
		Cum	0.512	1058.07		541.73
						Total Cost per Cum
						2412.00
		CUM				Total Cost
						2412.00

3	Water Bound Macadam with Stone Screening Type "B" Gr- III			
	WBM Grading 3			
	Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.			
	Unit = cum			
	Taking output = 360 cum			
		Rate per cum		833.37
		Add for Carriage Cost		
	Stone material Grading 3 53 mm to 22.4 mm	Cum.	1.21	1549.47
	Stone Screening	Cum	0.24	1549.47
	Total Cost per Cum			3080.10
	Total Cost	CUM		3080.10

22/10/20
AE

Analysis for Carriage by Road & Rail

Mukhy Road MMGSY Path Se Kumhar Toli Tak

Name of Road:-

District:-

Samastipur

Block :- Kalyanpur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total ₹	Min Total ₹
				Pucka / Surface	Katcha				
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.59	x 7.52 x 32.00 Km = Rs 419.42	8.00 4.59	x 18.19 x 0.00 Km = Rs 0.00	Rs. 1802.69	Rs. 1651.50
	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.59	x 8.40 x 32.00 Km = Rs 469.50	8.00 4.59	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1651.50	
2	Stone Metal Gr-III / GSB (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.99	x 7.52 x 32.00 Km = Rs 385.80	8.00 4.99	x 18.19 x 0.00 Km = Rs 0.00	Rs. 1705.22	Rs. 1549.47
	Stone Metal Gr-III / GSB (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.99	x 8.40 x 32.00 Km = Rs 430.94	8.00 4.99	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1549.47	
3	Stone Aggregate / Chips (Mirza-Cheuki by Rail 230 Km)	Cum	Karpoorigram	8.00 4.99	x 7.52 x 32.00 Km = Rs 385.80	8.00 4.99	x 18.19 x 0.00 Km = Rs 0.00	Rs. 2140.35	Rs. 1984.60
	Stone Aggregate / Chips (Mirza-Cheuki by Rail 230 Km)	Cum	Karpoorigram	8.00 4.99	x 8.40 x 32.00 Km = Rs 430.94	8.00 4.99	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1984.60	
4	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.80	x 7.52 x 32.00 Km = Rs 401.07	8.00 4.80	x 18.19 x 0.00 Km = Rs 0.00	Rs. 1749.67	Rs. 1595.99
	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Karpoorigram	8.00 4.80	x 8.40 x 32.00 Km = Rs 448.00	8.00 4.80	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1595.99	
5	Course Sand (Kiul By Rail 97 Km)	Cum	Karpoorigram	8.00 6.00	x 7.52 x 32.00 Km = Rs 320.85	8.00 6.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 1161.17	Rs. 1058.07
	Course Sand (Kiul By Rail 97 Km)	Cum	Karpoorigram	8.00 6.00	x 8.40 x 32.00 Km = Rs 358.40	8.00 6.00	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1058.07	
6	Binding Material/Moorum (Jamul by Rail 125 Km)	Cum	Karpoorigram	8.00 6.00	x 7.52 x 32.00 Km = Rs 320.85	8.00 6.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 1247.34	Rs. 1193.16
	Binding Material/Moorum (Jamul by Rail 125 Km)	Cum	Karpoorigram	8.00 6.00	x 8.40 x 32.00 Km = Rs 358.40	8.00 6.00	x 20.30 x 0.00 Km = Rs 0.00	Rs. 1193.16	
7	Local Sand (Local By Road 3 Km)	Cum	Local	8.00 6.00	x 7.52 x 2.00 Km = Rs 20.05	8.00 6.00	x 18.19 x 1.00 Km = Rs 24.25	Rs. 150.49	Rs. 106.74
	Local Sand (Local By Road 3 Km)	Cum	Local	8.00 6.00	x 8.40 x 2.00 Km = Rs 22.40	8.00 6.00	x 20.30 x 1.00 Km = Rs 27.07	Rs. 106.74	
8	Brick (Local By Road 8 Km)	1000 Nos	Local	8.00 2.00	x 7.52 x 7.00 Km = Rs 210.56	8.00 2.00	x 18.19 x 1.00 Km = Rs 72.76	Rs. 730.04	Rs. 427.82
	Brick (Local By Road 8 Km)	MT	Local	8.00	x 7.52 x 14.00 Km = Rs 105.28	8.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 427.82	Rs. 448.60
9	Cement (Local By Road 14 Km)	MT	Local	8.00	x 7.52 x 14.00 Km = Rs 105.28	8.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 448.60	Rs. 806.12
	Cement (Local By Road 14 Km)	MT	Local	8.00	x 7.52 x 58.00 Km = Rs 436.16	8.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 806.12	
10	Steel (Local By Road 14 Km)	MT	Muzaffarpur	8.00	x 7.52 x 58.00 Km = Rs 436.16	8.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 806.12	
11	Bitumen Emulsion (Muzaffarpur BY Road 58 Km)	MT	Muzaffarpur	8.00	x 7.52 x 58.00 Km = Rs 436.16	8.00	x 18.19 x 0.00 Km = Rs 0.00	Rs. 806.12	

12	Bitumen (Barauni By Road 85 km)	MT	Barauni	$\frac{8.00}{8.00} \times 7.52$	$\times 85.00 \text{ Km}$	$= \text{Rs } 639.20$	$\frac{8.00}{8.00} \times 18.19$	$\times 0.00 \text{ Km}$	$= \text{Rs } 0.00$	369.96	Rs. 1009.16
13	Hume Pipe (1000 mm) (Samastipur By Road 32 Km)	m	Samastipur	$\frac{8.00}{10.00} \times 7.52$	$\times 32.00 \text{ Km}$	$= \text{Rs } 192.51$	$\frac{8.00}{10.00} \times 18.19$	$\times 0.00 \text{ Km}$	$= \text{Rs } 0.00$	76.58	Rs. 269.09
14	Hume Pipe (600 mm) (Samastipur By Road 32 Km)	m	Samastipur	$\frac{8.00}{25.00} \times 7.52$	$\times 32.00 \text{ Km}$	$= \text{Rs } 77.00$	$\frac{8.00}{25.00} \times 18.19$	$\times 0.00 \text{ Km}$	$= \text{Rs } 0.00$	32.82	Rs. 109.82
15	Hume Pipe (300 mm) (Samastipur By Road 32 Km)	m	Samastipur	$\frac{8.00}{60.00} \times 7.52$	$\times 32.00 \text{ Km}$	$= \text{Rs } 32.09$	$\frac{8.00}{60.00} \times 18.19$	$\times 0.00 \text{ Km}$	$= \text{Rs } 0.00$	32.82	Rs. 64.91

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	8.40	7.52
Unsurface Gravel Road	10.10	9.04
Kachha Road	20.30	18.19

* Subjected to Verification of Lead

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JE
22/10/20
RWD

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RWD