



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Repair of Road T06 to Maripur

DISTRICT	-:-	Samastipur	
DIVISION	-:-	Dalsingh Sarai	
BLOCK	-:-	Mowa	
TOTAL LENGTH OF ROAD	-:-	0.060	KM
TOTAL COST OF PROJECT	-:-	1.02	Lac

Site Photograph

ne of Road:- T06 to Maripur

Block-Morwa



Spurd
21/11/21
J.E.

Spurd
21/11/21
J.E.

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- Repair of Road T06 to Maripur

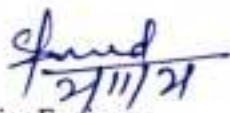
DISTRICT

SAMASTIPUR

BLOCK

Morwa

S.NO	DESCRIPTION	AMOUNT LAKH
1	BRICK BAT	90546.000
	SUB TOTAL:-	90546.000
	12% GST on Total Amount:-	10865.520
	SUB TOTAL:-	905.460
	Total Cost (including GST and Labour Cess	102317.000



Junior Engineer

RWD (W) Section, Morwa



Assistant Engineer

RWD (W) Sub Division, Morwa

Executive Engineer

RWD, Works Division, Dalsinghsarai

FDR
YEAR (2021-2022)
GENERAL ABSTRACT OF COST

BLOCK :- Morwa

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- Repair of Road T06 to Maripur

	ITEM OF WORK						AMOUNT	
	TOTAL COST OF CONSTRUCTION					:-	Rs.	102317
					SUB TOTAL	:-	Rs.	102317



Junior Engineer

RWD (W) Section, Morwa



Assistant Engineer
RWD (W) Sub Division,
Morwa

Executive Engineer
RWD, Works Division,
Dalsinghsarai

Cost Estimate for Road Work

FORMAT-6

SL.NO	SDB SL.NO	MORD Ref. No	Description	Unit					Quantity	Rate	Amount
2			BrickBats								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
				cum	15.00	3.75	0.300		16.88		
				cum	15.00	3.75	0.300		16.88		
				cum	5.00	3.75	0.150		2.81		
				cum	10.00	3.75	0.150		5.63		
				cum	5.00	3.75	0.100		1.88		
				cum	5.00	3.75	0.100		1.88		
				cum	5.00	1.50	1.600	0.150	1.80		
									47.74	1896.75	90546.00
									SUB TOTAL=		90546.00
									TOTAL COST OF WORK IN RS		90546.00

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27/11/21

Junior Engineer
RWD (W) Section, Morwa

[Signature]

Assistant Engineer
RWD (W) Sub Division, Morwa

Executive Engineer
RWD, Works Division, Dalsinghsarai

Figure -3

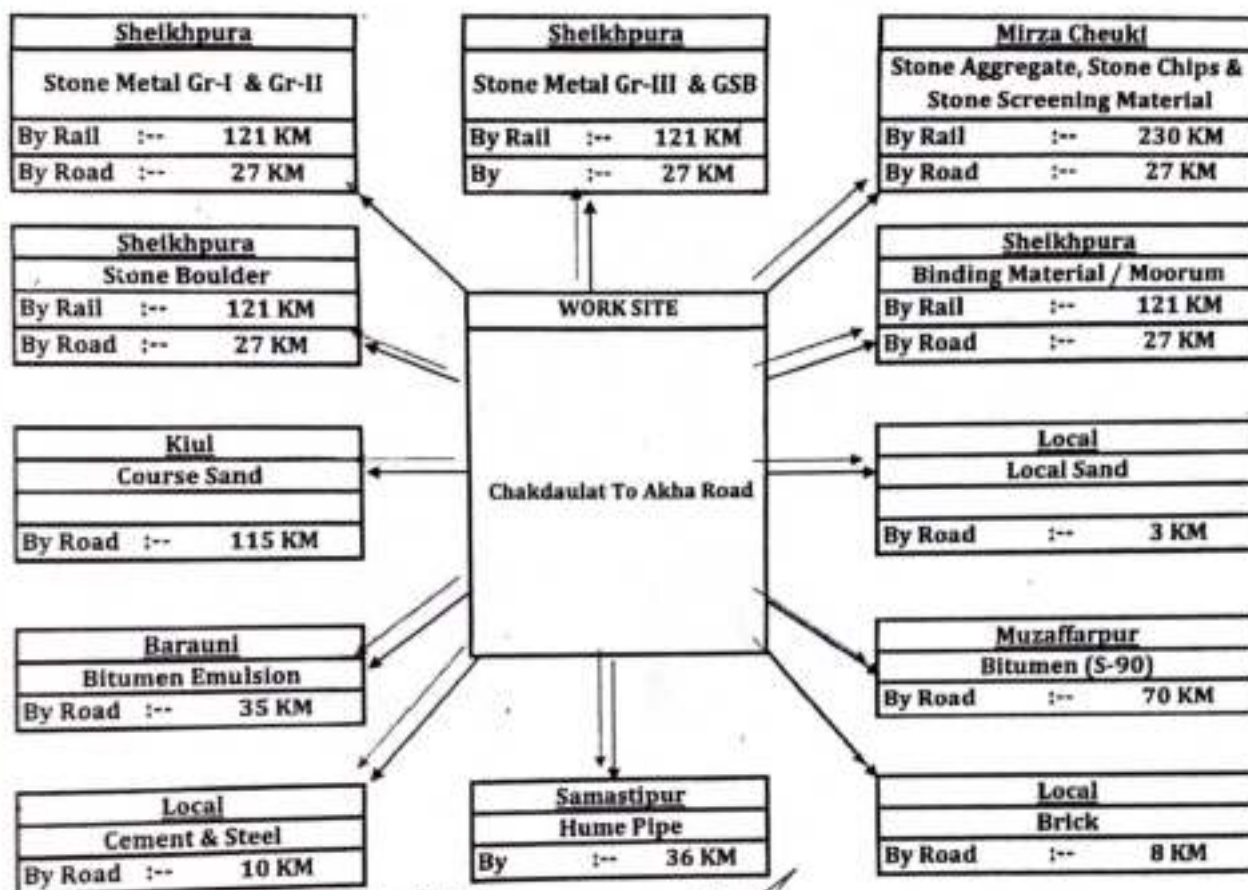
Quarry Map

Name of Road :- Repair of Road T06 to Maripur

Block :- Morwa

District :- Samastipur

Length of the Road:- 0.080 KM



* Subjected to Verification of Lead

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J.E. 2/11/21

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2/11/21

E.E.

S.E.

Sl No	Item with Source	Unit	Source Up to	Pucha / Surface		Karcha		Loading & Unloading Cost	Cartage Cost by Rail Head	Total ₹	Total ₹ Minimum
				8.00 4.59	10.10 x 30.00 Km = Rs 660.93	8.00 4.59	24.30 x 0.00 Km = Rs 0.00	105.12	1025.87	Rs. 1799.92	Rs. 1799.92
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.59	7.94 x 137.00 Km = Rs 1895.91	8.00 4.59	19.22 x 0.00 Km = Rs 0.00	210.19		Rs. 2106.10	
2	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 30.00 Km = Rs 615.31	8.00 4.99	24.30 x 0.00 Km = Rs 0.00	105.12	1128.34	Rs. 1848.77	Rs. 1848.77
3	Stone Metal Gr-III	Cum	Sheikhpura	8.00 4.99	7.94 x 137.00 Km = Rs 1743.94	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	210.19	1128.34	Rs. 3082.47	Rs. 3082.47
4	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 30.00 Km = Rs 615.31	8.00 4.99	24.30 x 0.00 Km = Rs 0.00	105.12	1588.15	Rs. 2300.58	Rs. 2300.58
5	Stone Aggregate / Chips	Cum	Sheikhpura	8.00 4.99	7.94 x 137.00 Km = Rs 1743.94	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	210.19	1588.15	Rs. 3542.28	Rs. 3542.28
6	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.80	10.10 x 30.00 Km = Rs 639.67	8.00 4.80	24.30 x 0.00 Km = Rs 0.00	105.12	1159.81	Rs. 1904.60	Rs. 1904.60
7	Stone Boulder	Cum	Sheikhpura	8.00 4.80	7.94 x 137.00 Km = Rs 1812.97	8.00 4.80	19.22 x 0.00 Km = Rs 0.00	210.19	1159.81	Rs. 3182.97	Rs. 3182.97
8	Course Sand	Cum	Khal	8.00 4.99	7.94 x 208.00 Km = Rs 2647.73	8.00 4.99	19.22 x 0.00 Km = Rs 0.00	113.67		Rs. 2761.40	Rs. 2761.40
9	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 6.00	10.10 x 30.00 Km = Rs 511.73	8.00 6.00	24.30 x 0.00 Km = Rs 0.00	113.67	851.49	Rs. 1476.89	Rs. 1476.89
10	Binding Material/Moorum	Cum	Sheikhpura	8.00 6.00	7.94 x 137.00 Km = Rs 1450.37	8.00 6.00	19.22 x 0.00 Km = Rs 0.00	66.31	851.49	Rs. 2368.17	Rs. 2368.17
11	Local Sand	Cum	Local	8.00 4.99	10.10 x 2.00 Km = Rs 32.38	8.00 4.99	24.30 x 1.00 Km = Rs 38.96	113.67		Rs. 185.01	Rs. 185.01
12	Brick	1000 Nos	Local	8.00 2.00	7.94 x 7.00 Km = Rs 222.32	8.00 2.00	19.22 x 1.00 Km = Rs 76.88	477.44		Rs. 776.64	Rs. 776.64
13	Cement	MT	Local	8.00 8.00	7.94 x 10.00 Km = Rs 79.40	8.00 8.00	19.22 x 0.00 Km = Rs 0.00	347.32		Rs. 426.72	Rs. 426.72
14	Steel	MT	Local	8.00 8.00	7.94 x 10.00 Km = Rs 79.40	8.00 8.00	19.22 x 0.00 Km = Rs 0.00	370.58		Rs. 449.98	Rs. 449.98
15	Bitumen Emulsion	MT	Barwani	8.00 8.00	7.94 x 82.00 Km = Rs 651.08	8.00 8.00	19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1048.06	Rs. 1048.06
16	Bitumes	MT	Muzaffarpur	8.00 8.00	7.94 x 91.00 Km = Rs 722.54	8.00 8.00	19.22 x 0.00 Km = Rs 0.00	396.98		Rs. 1119.52	Rs. 1119.52
17	Humo Pipe (1000 mm)	m	Samaastpur	8.00 10.00	7.94 x 36.00 Km = Rs 228.67	8.00 10.00	19.22 x 0.00 Km = Rs 0.00	70.84		Rs. 299.51	Rs. 299.51
18	Humo Pipe (600 mm)	m	Samaastpur	8.00 25.00	7.94 x 36.00 Km = Rs 91.47	8.00 25.00	19.22 x 0.00 Km = Rs 0.00	30.36		Rs. 121.83	Rs. 121.83
19	Humo Pipe (300 mm)	m	Samaastpur	8.00 60.00	7.94 x 36.00 Km = Rs 38.11	8.00 60.00	19.22 x 0.00 Km = Rs 0.00	30.36		Rs. 68.47	Rs. 68.47

FORM FB

* Subjected to Verification of Lead

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	5.91
Unsurface Gravel Road	12.10	6.55
Karcha Road	24.30	19.22

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RWD

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
1.10	(i) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour a) Machinery Tipper 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.40 0.29	1183.00 1183.00	473.20 343.07 97.98 91.42 1005.64 10.06
1.10	(ii) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour a) Machinery Tipper 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.50 0.33	1183.00 1183.00	591.50 390.39 117.83 109.97 1209.64 12.10
1.10	(iii) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour a) Machinery Tipper 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t.km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	1.00 0.67	1183.00 1183.00	1183.00 792.61 237.07 221.27 2433.95 24.34
1.10	(i) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking.				

Analysis of Rates (FORMAT F8)

Sl. No.	SUB-SL. No.	WORK DESCRIPTION	Unit	Quantity	Rate	
		Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.40 0.29	934.30 934.30	375 270 77 72 79
5	1.10	(II) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	0.50 0.33	934.30 934.30	467 308 92 86 95
6	1.10	(III) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-III : Katcha Track and Track in River Bed/Nallah Bed and Choe Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip b) Overheads @ 12% c) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	1.00 0.67	934.30 934.30	934 621 187 174 192
7	1.10	RCD Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum. Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and Unit = cum Taking output = 5.5 cum Time required for i) Positioning of tipper at loading point ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour iii) Maneuvering, reversing, dumping and turning for return iv) Waiting time, unforeseen contingencies etc Total a) Machinery Tipper 5.5 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour Overheads @ 12%	hour hour	0.33 0.93	1183.00 1403.00	94 62 18 17 19

Analysis of Rates (FORMAT F8)

		ANALYSIS OF RATES			
		Part	Quantity	Rate	Amount
		c) Contractor's profit @ 10% on (a+b)			
		Cost for 5.5 cum = a+b+c			
		Rate per cum = (a+b+c) / 5.5			
					95.58
					1051.36
					191.16
1.20	RCD	Loading and Unloading of Boulders by Manual Means			
		Unit = cum			
		Taking output = 5.5 cum			
	a) Labour				
	Mate				
	Mazdoor for loading and unloading	day	0.11	321.00	35.31
	b) Machinery	day	0.75	304.00	228.00
	Tipper 5.5 tonne capacity				
	Overheads @ 12%	hour	0.75	1183.00	887.25
	d) Contractor's profit @ 10% on (a+b+c)				138.07
	Cost for 5.5 cum = a+b+c+d				128.86
	Rate per cum = (a+b+c+d)/5.5				1417.49
					257.73
1.30	RCD	Loading and Unloading of Cement or Steel by Manual Means and			
		Unit = tonne			
		Taking output = 10 tonnes			
	a) Labour				
	Mate				
	Mazdoor for loading and unloading	day	0.08	321.00	25.68
	b) Machinery	day	2.00	304.00	608.00
	Truck 10 tonne capacity	hour	2.00	934.30	1868.60
	Overheads @ 12%				300.27
	d) Contractor's profit @ 10% on (a+b+c)				280.26
	Cost for 10 tonnes = a+b+c+d				3082.81
	Rate per tonnes = (a+b+c+d)/10				308.28
					108.80
1.1	(I)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m			
		Unit = cum			
		Taking output = 5.5 cum			
	a) Labour				
	Mate	day	0.02	321.00	6.42
	Mazdoor (Unskilled)	day	0.50	304.00	152.00
	b) Machinery	hour	0.50	934.30	467.15
	Truck				
	c) Overheads @ 12%				75.07
	d) Contractor's profit @ 10% on (a+b+c)				70.06
	Cost for 5.5 cum = a+b+c+d				770.70
	Rate per cum = (a+b+c+d) / 5.5				140.13
	(II)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.			
		Unit = cum			
		Taking output = 5.5 cum			
	a) Labour				
	Mate	day	0.01	321.00	3.21
	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	b) Machinery	hour	0.25	934.30	233.58
	Truck				
	c) Overheads @ 12%				37.53
	d) Contractor's profit @ 10% on (a+b+c)				35.03
	Cost for 5.5 cum = a+b+c+d				385.35
	Rate per cum = (a+b+c+d) / 5.5				70.06
	(III)	Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m			
		Unit = cum			
		Taking output = 5.5 cum			
	a) Labour	day	0.01	321.00	3.21
	Mate				

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Description	Unit	Quantity	Rate	Amount
		Mazdoor (Unskilled)	day	0.25	304.00	76.00
	b)	Machinery	hour	0.25	934.30	233.58
		Truck				37.50
	c)	Overheads @ 12%				35.80
	d)	Contractor's profit @ 10% on (a+b+c)				385.25
		Cost for 5.5 cum = a+b+c+d				70.00
		Rate per cum = (a+b+c+d) / 5.5				70.00
		Total Cost	Cum			70.00
		Total loading & unloading of Sand & Moorum	Cum			70.00
13	(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				
	a)	Labour	day	0.01	321.00	1.61
		Mate	day	0.13	304.00	38.00
	b)	Machinery	hour	0.17	934.30	155.00
	c)	Overheads @ 12%				23.34
	d)	Contractor's profit @ 10% on (a+b+c)				21.81
		Cost for 5.5 cum = a+b+c+d				239.81
		Rate per cum = (a+b+c+d) / 5.5				43.61
		Total Cost	Cum			43.61
		Total loading & unloading of Sand & Moorum	Cum			143.61
14	1.3	Loading, Unloading and Stacking of Bricks by Manual Means				
	(i)	Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
	a)	Labour	day	0.01	321.00	3.21
		Mate	day	0.25	304.00	76.00
	b)	Machinery	hour	0.33	934.30	308.31
	c)	Overheads @ 12%				46.50
	d)	Contractor's profit @ 10% on (a+b+c)				43.40
		Cost for 2000 Nos. = a+b+c+d				477.42
		Rate for 1000 bricks = (a+b+c+d) / 2				238.71
		Total Cost	No.			238.71
15	(ii)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
	a)	Labour	day	0.01	321.00	3.21
		Mate	day	0.25	304.00	76.00
	b)	Machinery	hour	0.33	934.30	308.31
	c)	Overheads @ 12%				46.50
	d)	Contractor's profit @ 10% on (a+b+c)				43.40
		Cost for 2000 Nos. = a+b+c+d				477.42
		Rate for 1000 bricks = (a+b+c+d) / 2				238.71
		Total Cost	No.			238.71
16	(i)	Loading and Unloading of Cement by Manual Means Unit = t Taking output = 10 t				
	a)	Labour	day	0.06	321.00	1.93
		Mate	day	1.50	304.00	45.60
		Mazdoor (Unskilled)				

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
16	b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per tonnes = (a+b+c+d)/10	hour	1.00	934.30	934.30 169.15 157.87 1736.58 173.66
17	(ii) Unloading of Cement by manual means including a lead upto 30 m Unit = t Taking output = 10 t a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per tonne = (a+b+c+d)/10	day day hour	0.06 1.50 1.00	321.00 304.00 934.30	19.26 456.00 934.30 169.15 157.87 1736.58 173.66
18	1.5 Loading and Unloading of Structural Steel and Steel Bars by manual means (i) Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m Unit = t Taking output = 10 t a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per tonnes = (a+b+c+d)/10	day day hour	0.07 1.80 1.00	321.00 304.00 934.30	22.47 547.20 934.30 180.48 168.44 1852.89 185.29
19	(ii) Unloading of Structural Steel, Steel Bars by manual means including a lead upto 30 m Unit = t Taking output = 10 t a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per t = (a+b+c+d)/10	day day hour	0.07 1.80 1.00	321.00 304.00 934.30	22.47 547.20 934.30 180.48 168.44 1852.89 185.29
20	1.6 Loading and Unloading of Bitumen Drums by Manual Means (i) Loading of Bitumen Drums by manual means including a lead upto 30 m Unit = t Taking output = 10 t a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d	day day hour	0.06 1.60 1.25	321.00 304.00 934.30	19.26 486.40 1167.88 200.82 187.44 2061.80

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Qty	Rate	Amount
	Rate per tonnes = (a+b+c+d)/10				206.17
21	(II) Unloading of Bitumen Drums by Manual Means including a lead upto 30 m Unit = t Taking output = 10 t				
a)	Labour	day	0.05	321.00	16.05
	Mate	day	1.20	304.00	364.80
b)	Machinery	hour	1.25	934.30	1167.88
c)	Overheads @ 12%				185.80
d)	Contractor's profit @ 10% on (a+b+c)				173.44
	Cost for 10 t = a+b+c+d				1908.02
	Rate per t = (a+b+c+d)/10				190.80
	Note :- The rate is inclusive of the self weight of drum				
	Total Cost				190.80
22	1.9 Loading and Unloading of Hume Pipes (I) Loading of RCC Hume pipes by mechanical means including a lead upto 30 m A. 1000 / 1200 mm dia Hume pipe Unit = per pipe Taking output = 9 pipes				
a)	Labour	day	0.02	321.00	6.42
	Mate	day	0.50	304.00	152.00
b)	Machinery	hour	0.33	934.30	308.31
	Crane	hour	0.33	909.00	299.97
c)	Overheads @ 12%				92.0
d)	Contractor's profit @ 10% on (a+b+c)				85.8
	Cost for 9 pipes = a+b+c+d				944.5
	Rate per pipe = (a+b+c+d)/9				104.9
	Total Cost				104.9
23	C. 600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipe				
a)	Labour	day	0.02	321.00	6.42
	Mate	day	0.50	304.00	152.00
b)	Machinery	hour	0.33	934.30	308.31
	Crane	hour	0.33	909.00	299.97
c)	Overheads @ 12%				92.0
d)	Contractor's profit @ 10% on (a+b+c)				85.8
	Cost for 21 pipes = a+b+c+d				944.5
	Rate per pipe = (a+b+c+d)/21				44.9
	Total Cost				44.9
24	(II) Unloading of RCC Hume pipe by mechanical means including a lead upto 30 m A. 1000/1200 mm dia RCC Hume pipes Unit = per pipe Taking output = 9 pipes				
a)	Labour	day	0.02	321.00	6.42
	Mate	day	0.50	304.00	152.00
b)	Machinery	hour	0.20	934.30	186.86
	Crane	hour	0.20	909.00	181.80
c)	Overheads @ 12%				63.2
d)	Contractor's profit @ 10% on (a+b+c)				59.2
	Cost for 9 pipes = a+b+c+d				649.5
	Rate per pipe = (a+b+c+d)/9				72.17
	Total Cost				72.17

Analysis of Rates (FORMAT F8)

Sl. No.	MORD Item No.	DESCRIPTION	Unit	Quantity	Rate	Amount
	C	600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipes				
	a)	Labour				
		Mate	day	0.02	321.00	6.42
		Mazdoor (Unskilled)	day	0.50	304.00	152.00
	b)	Machinery				
		Truck	hour	0.20	934.30	186.86
		Crane	hour	0.20	909.00	181.80
	c)	Overheads @ 12%				63.25
	d)	Contractor's profit @ 10% on (a+b+c)				59.03
		Cost for 21 pipes = a+b+c+d				649.36
		Rate per pipe = (a+b+c+d)/21				30.92
		Total Rate for 21 pipes				649.36
		Total Rate for 1 unit of 21 pipes				30.92
1.16	100	Setting Out Pillars Unit = 1 No. Analysis of rates per pillar shall account for following : Typical Benchmark 1 no. as per Dwg no. 200.1 of MORD Data Book (Page 1-18) The rate analysis for a typical benchmark as per dwg. 1. Excavation 2. P.C.C. grade M 10 3. Brick Masonry in CM 1:4 4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work. Add 5 per cent cost of items No.1 to 4 for white washing.				
		Excavation	cum	0.33	334.58	108.74
		P.C.C. grade M 10	cum	0.10	6681.46	668.15
		Brick Masonry in CM 1:4	cum	0.48	6237.17	2962.66
		Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	sqm	2.63	216.63	569.74
		Add 5 per cent cost of items No.1 to 4 for white washing.				215.46
		Sub Total	NO			4524.74
1.16	100	Setting Out Pillars Unit = 1 No. Analysis of rates per pillar shall account for following : Reference Pillar 1 no. as per Dwg no. 200.2 of MORD Data Book (Page 1-18) The rate analysis for a typical benchmark as per dwg. 1. Excavation 2. P.C.C. grade M 10 3. Brick Masonry in CM 1:4 4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work. Add 5 per cent cost of items No.1 to 4 for white washing.				
		Excavation	cum	0.192	334.58	64.24
		P.C.C. grade M 10	cum	0.060	6681.46	400.89
		Brick Masonry in CM 1:4	cum	0.193	6237.17	1203.77
		Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	sqm	1.50	216.63	324.95
		Add 5 per cent cost of items No.1 to 4 for white washing.				99.69
		Sub Total	NO			2093.54
1.3.2 (iii)		Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks. Unit = cum Assuming- 2.832 Cum a) Labour (Unskilled) i) Carrying, spreading, laying & Packing. ii) Compaction brick bats with C.I. Hammer. iii) Brick Bat iv) Local Sand Over Heads @ 12 % on (a+b+c) C. Profit @ 10 % on (a+b+c+d) Cost for 2.832 cum = a+b+c+d Rate Per cum = (a+b+c+d) / 2.832 CARRIAGE Carriage for Brick (1 cum Bats = 300 nos Bricks) Rate per cum with carriage				
		Labour (Unskilled)	nos	1.50	304.00	456.00
		Carrying, spreading, laying & Packing	nos	0.67	304.00	203.68
		Compaction brick bats with C.I. Hammer	Cum	2.83	1063.00	3010.42
		Brick Bat	Cum	0.63	141.85	89.65
		Local Sand				451.17
		Over Heads @ 12 % on (a+b+c)				421.09
		C. Profit @ 10 % on (a+b+c+d)				4632.01
		Cost for 2.832 cum = a+b+c+d				1635.60
		Rate Per cum = (a+b+c+d) / 2.832	cum			233.10
		CARRIAGE				1868.70
		Carriage for Brick (1 cum Bats = 300 nos Bricks)	nos	0.300	776.64	233.10
		Rate per cum with carriage				1868.70

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
27	5.7.6	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/L.			
		Unit = Per M Taking Out put = 10 Joint (Assuming 10 Joints)			
a)	Materials				
	Nut And Bolts 16 mm Dia 225mm Long With Washer etc.	nos	20.00	32.88	657.60
b)	Laber				
	Carpenter Gril	nos	0.50	408.00	204.00
	Unskilled Mazdoor	nos	0.25	304.00	76.00
c)	Overheads @ 12%				112.51
d)	Contractor's profit @ 10% on (a+b+c+d)				105.01
e)					115.51
		Rate Per cum = (a+b+c+d)/10 Per M			
28	5.7.7	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/L.			
		Unit = Per M Taking Out put = 30.50 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)			
b)	Laber				
	Carpenter Gril	nos	0.25	408.00	102.00
	Unskilled Mazdoor	nos	2.50	304.00	760.00
c)	Overheads @ 12%				103.44
d)	Contractor's profit @ 10% on (a+b+c+d)				96.54
e)					34.82
		Rate Per cum = (a+b+c+d)/30.5 Per M			
29	5.7.8	Labour for fitting and fixing split bamboo woven chachari inn position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/L.			
		Unit = Per M Taking Out put = 9.30 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)			
a)	Materials				
	75 mm To 100 mm Lon Nails	Kg	0.25	61.74	15.44
b)	Laber				
	Carpenter Gril	nos	1.00	408.00	408.00
	Unskilled Mazdoor	nos	1.00	304.00	304.00
c)	Overheads @ 12%				87.21
d)	Contractor's profit @ 10% on (a+b+c+d)				81.41
e)					94.31
		Rate Per cum = (a+b+c+d)/9.30 Per M			
30	5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I wire including cost of G.I wire or nails complete job as per specification and direction of E/L.			
		Unit = Per M Taking Out put = 30.50 M			
a)	Materials				
	75mm To 100 mm Lon Nails	Kg	0.25	61.74	15.44
b)	Laber				
	Carpenter Gril	nos	0.125	408.00	51.00
	Unskilled Mazdoor	nos	0.250	304.00	76.00
c)	Overheads @ 12%				17.00
d)	Contractor's profit @ 10% on (a+b+c+d)				15.90
e)					5.34
		Rate Per cum = (a+b+c+d)/30.5 Per M			

Analysis of Rates (FORMAT F8)

401	Granular Sub-base with Well Graded Material (Table 606.1) (By mix in place method) For Grading II Material				
(10)	Construction of granular sub-base by spreading well graded material spreading in uniform layers with motor grader on prepared surface, rolling by roller to place surface with compactor at 200C, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 601. For Grading II Material (Sub = cum) Taking output = 300 cum				
a)	Labour				
	Mate				
	Machiner (Billed)				
	Machiner (Unbilled)				
b)	Machinery				
	Tractor mounted grader arrangement for grading @ 100 cum per hour	Per	5.00	151.00	156.00
	Three wheel 65-100 lb static roller @ 10 cum per hour	Per	2.00	60.00	62.00
	Tractor with Rotavator 25 cum per hour	Per	15.00	450.00	465.00
	Water tanker 6 kl capacity	Per	1.00	30.00	31.00
c)	Material				
	Well graded granular sub-base material as per Table 606.1				
	26.5 mm to 6.5 mm @ 25 per cum	cum	150.00	150.00	150.00
	6.5 mm to 2.36 mm @ 25 per cum	cum	90.00	90.00	90.00
	2.36 mm below @ 40 per cum - Local Sand	cum	15.00	15.00	15.00
	Water	%	10.00	10.00	10.00
d)	Overheads @ 12%				
e)	Contractor's profit @ 10% on (a+b+c+d)				
	Cost of GSB for 300 cum				
	A) Cost of GSB without carriage per cum	cum			
f)	CARRIAGE				
	Carriage for GSB material	Cum	6.740	1011.00	1017.74
	Carriage for material below 2.36 mm (Local Sand)	Cum	0.212	185.00	185.21
	Rate per cum with carriage				



 28.10.21