



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Repair of Road MMGSY Road to Sahni Tola

DISTRICT	:	Samastipur	
DIVISION	:	Dalsingh Sarai	
BLOCK	:	Dalsinghsarai	
TOTAL LENGTH OF ROAD	:	0.114	KM
TOTAL COST OF PROJECT	:	1.26	Lac

Site Photograph

ame of Road:-MMGSY ROAD TO SAHNI TOLA

Block-dalsinghsarai



Aseida
28/10/21

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- Repair of Road MMGSY Road to Sahni Tola

DISTRICT

SAMASTIPUR

BLOCK

Dalsinghsarai

S.NO	DESCRIPTION	AMOUNT LAKH
1	BRICK BAT	111244.000
	SUB TOTAL:-	111244.000
	Labourless + 12% GST on Total Amount:- 1%	13349.280
	SUB TOTAL:-	1112.440
	Total Cost (including GST and Labour Cess	125706.000

Add 10% Senghar for —

6410 = 00

Total Rs 1,32,116 = 00 only.

[Signature]
28/10/21
Junior Engineer

[Signature]
29.10.21
Assistant Engineer

Executive Engineer

(W) Section, Dalsinghsarai

RWD (W) Sub Division, Dalsinghsarai

RWD, Works Division, Dalsinghsarai

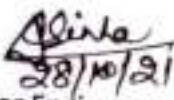
FDR
YEAR (2021-2022)
GENERAL ABSTRACT OF COST

BLOCK :- DALSINGHSARAI

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- Repair of Road MMGSY Road to Sahni Tola

NO.	ITEM OF WORK							AMOUNT	
A									
	TOTAL COST OF CONSTRUCTION						:-	Rs.	125706
						SUB TOTAL	:-	Rs.	125706


28/10/21
Junior Engineer


29.10.21
Assistant Engineer
RWD (W) Sub Division,
Dalsinghsarai

Executive Engineer
RWD, Works Division,
Dalsinghsarai

RWD (W) Section, Dalsinghsarai

[illegible]

Asst. Engineer
23/10/21

Junior Engineer

RWD (W) Section, Dalsinghsarai

Assistant Engineer

Assistant Engineer
RWD (W) Sub Division, Dalsinghsarai

RWD (W) Sub Division, Dalsinghsarai

Executive Engineer

RWD, Works Division, Dalsinghsarai

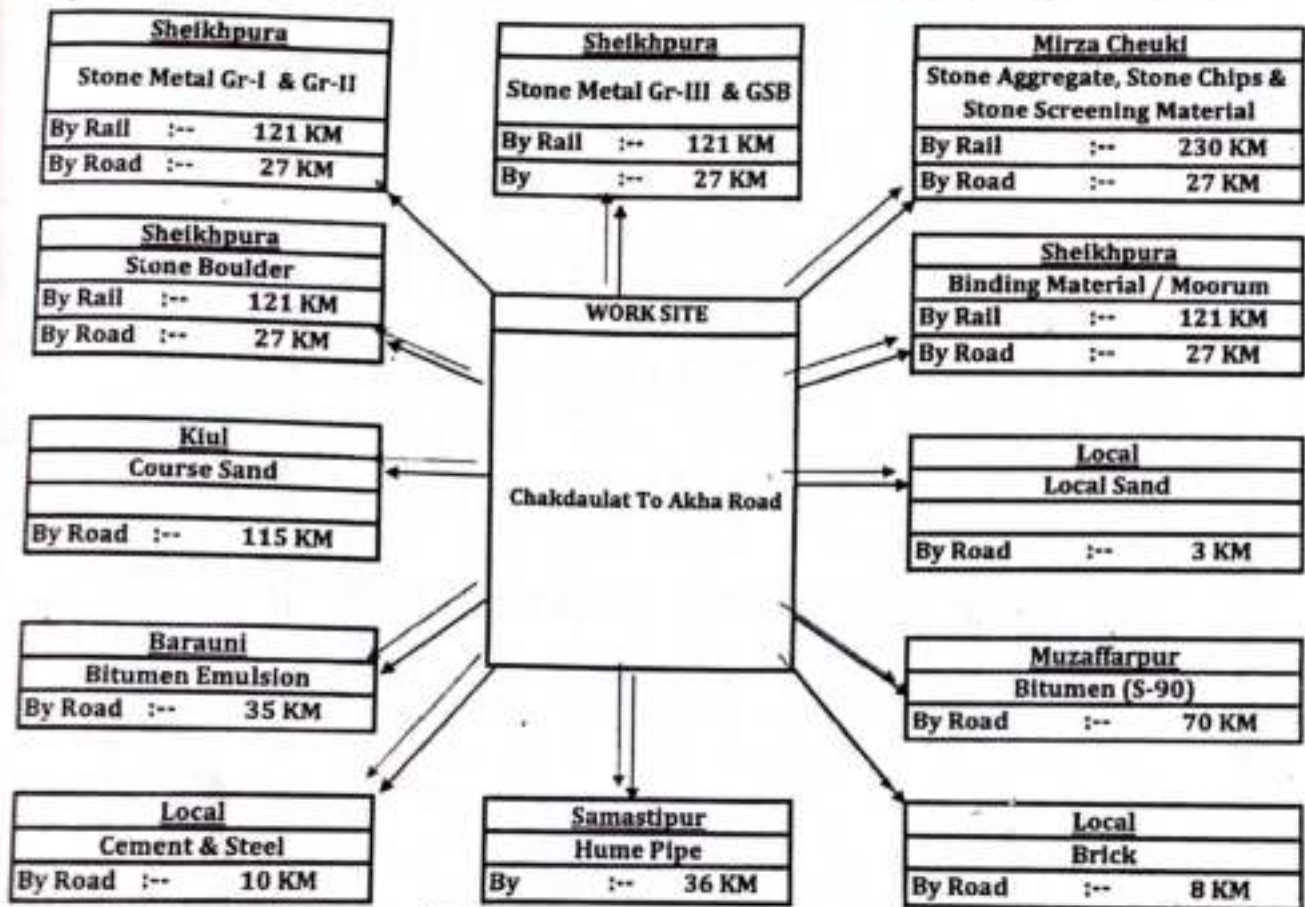
RWD, Works Division, Dalsinghsarai

Figure -3

Quarry Map

Name of Road :- Repair of Road MMGSY Road to Sahni Tola
 Block :- Dalsinghsarai
 District :- Samastipur

Length of the Road:- 0.114 KM



* Subjected to Verification of Lead

Asinda
28/10/21
J.E

A.P.
29.10.21
A.E.

E.E

S.E.

Sl. No.	Item with Source	Unit	Source Up to	Pucka / Surface			Katcha			Loading & Unloading Cost	Carriage Cost by Rail Head	Total ₹	Total ₹ Minimum
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00	x 10.10	x 10.00 Km	= Rs 660.93	8.00	x 24.30	x 0.00 Km	= Rs 0.00	105.12	Rs. 1799.92
				4.59	x 7.94	x 137.00 Km	= Rs 1895.91	4.59	x 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	x 10.10	x 30.00 Km	= Rs 615.31	8.00	x 24.30	x 0.00 Km	= Rs 0.00	105.12	Rs. 1848.77
				4.99	x 7.94	x 137.00 Km	= Rs 1743.94	4.99	x 19.22	x 0.00 Km	= Rs 0.00	210.19	Rs. 3082.47
3	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00	x 10.10	x 70.00 Km	= Rs 615.31	8.00	x 24.30	x 0.00 Km	= Rs 0.00	105.12	Rs. 2308.58
				4.99	x 7.94	x 137.00 Km	= Rs 1743.94	4.99	x 19.22	x 0.00 Km	= Rs 0.00	210.19	Rs. 3542.28
4	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00	x 10.10	x 38.00 Km	= Rs 639.67	8.00	x 24.30	x 0.00 Km	= Rs 0.00	105.12	Rs. 1904.60
				4.80	x 7.94	x 137.00 Km	= Rs 1812.97	4.80	x 19.22	x 0.00 Km	= Rs 0.00	210.19	Rs. 3182.97
5	Course Sand	Cum	Khal	8.00	x 7.94	x 208.00 Km	= Rs 2647.73	8.00	x 19.22	x 0.00 Km	= Rs 0.00	113.67	Rs. 2761.40
				4.99	x 10.10	x 38.00 Km	= Rs 511.73	4.99	x 24.30	x 0.00 Km	= Rs 0.00	113.67	Rs. 1476.89
6	Blinding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00	x 7.94	x 137.00 Km	= Rs 1450.37	8.00	x 19.22	x 0.00 Km	= Rs 0.00	66.31	Rs. 1476.89
				6.00	x 10.10	x 2.00 Km	= Rs 32.38	6.00	x 24.30	x 1.00 Km	= Rs 38.96	113.67	Rs. 2368.17
7	Local Sand	Cum	Local	8.00	x 7.94	x 7.00 Km	= Rs 222.32	8.00	x 19.22	x 1.00 Km	= Rs 76.88	477.44	Rs. 776.64
				4.99	x 7.94	x 10.00 Km	= Rs 79.40	4.99	x 19.22	x 0.00 Km	= Rs 0.00	347.32	Rs. 426.72
8	Brick	MT	Local	8.00	x 7.94	x 10.00 Km	= Rs 79.40	8.00	x 19.22	x 0.00 Km	= Rs 0.00	370.58	Rs. 449.98
				2.00	x 7.94	x 82.00 Km	= Rs 651.08	2.00	x 19.22	x 0.00 Km	= Rs 0.00	396.98	Rs. 1048.06
9	Cement	MT	Local	8.00	x 7.94	x 91.00 Km	= Rs 722.54	8.00	x 19.22	x 0.00 Km	= Rs 0.00	396.98	Rs. 1119.52
				10.00	x 7.94	x 36.00 Km	= Rs 228.67	10.00	x 19.22	x 0.00 Km	= Rs 0.00	70.84	Rs. 299.51
10	Steel	MT	Local	8.00	x 7.94	x 36.00 Km	= Rs 91.47	8.00	x 19.22	x 0.00 Km	= Rs 0.00	30.36	Rs. 121.83
				60.00	x 7.94	x 36.00 Km	= Rs 38.11	60.00	x 19.22	x 0.00 Km	= Rs 0.00	30.36	Rs. 68.47

Cost of Haulage Excluding Loading & Unloading as per MCH as

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	9.14
Unsurface Gravel Road	12.10	11.55
Kachha Road	24.30	19.22

* Subjected to Verification of Lead

FORM F8

Signature
98/10/21
AE
PWD

EE
RWD

Analysis of Rates (FORMAT F8)

Sl. No.		DESCRIPTION		UNIT	QUANTITY	RATE	AMOUNT
HAULAGE BY TIPPER							
1	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	hour	0.40	1183.00	473.20
			Empty return trip	hour	0.29	1183.00	343.07
		b)	Overheads @ 12%				97.95
		c)	Contractor's profit @ 10% on (a+b)				91.42
			Cost for 100 t-km = a+b+c				1005.64
			Rate per cum = (a+b+c) / 100				10.06
				Rate Per Km	Cum		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	hour	0.50	1183.00	591.50
			Empty return trip	hour	0.33	1183.00	390.39
		b)	Overheads @ 12%				117.83
		c)	Contractor's profit @ 10% on (a+b)				109.97
			Cost for 100 t-km = a+b+c				1209.69
			Rate per cum = (a+b+c) / 100				12.10
				Rate Per Km	Cum		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	hour	1.00	1183.00	1183.00
			Empty return trip	hour	0.67	1183.00	792.61
		b)	Overheads @ 12%				237.07
		c)	Contractor's profit @ 10% on (a+b)				221.27
			Cost for 100 t-km = a+b+c				2433.95
			Rate per cum = (a+b+c) / 100				24.34
				Rate Per Km	Cum		24.34
HAULAGE BY TRUCK							
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.	Section	Particulars	Unit	Quantity	Rate	Amount
		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	37 27 7 7 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	46 30 9 8 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	93 62 187 174 1922 11
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 0.33	1183.00 1403.00	

Analysis of Rates (FORMAT F8)

ITEM NO.		DESCRIPTION	UNIT	QUANTITY	PRICE	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
		Unloading of Boulders by Manual Means				1051.36
1.20	RCD	Loading and Unloading of Boulders by Manual Means Unit = cum Taking output = 5.5 cum				191.16
		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) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5				138.07
		Unloading of Boulders by Tipper				128.86
						1417.49
1.30	RCD	Loading and Unloading of Cement or Steel by Manual Means and Unit = tonne Taking output = 10 tonnes				257.73
		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				
		Overheads @ 12%	hour	2.00	934.30	1868.60
		d) Contractor's profit @ 10% on (a+b+c) Cost for 10 tonnes = a+b+c+d Rate per tonnes = (a+b+c+d) / 10				300.27
						280.26
						3082.81
						308.28
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				1051.36
		a) Labour				
		Mate				
		Mazdoor (Unskilled)	day	0.02	321.00	6.42
		b) Machinery	day	0.50	304.00	152.00
		Truck				
		c) Overheads @ 12%	hour	0.50	934.30	467.15
		d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5				75.07
						70.06
						770.70
						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				1051.36
		a) Labour				
		Mate				
		Mazdoor (Unskilled)	day	0.01	321.00	3.21
		b) Machinery	day	0.25	304.00	76.00
		Truck				
		c) Overheads @ 12%	hour	0.25	934.30	233.58
		d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d Rate per cum = (a+b+c+d) / 5.5				37.53
						35.03
						385.35
						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				1051.36
		a) Labour				
		Mate	day	0.01	321.00	3.21

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Description	Unit	Quantity	Rate	Amount
	b)	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	c)	Machinery	hour	0.25	934.30	233.58
	d)	Truck				37.50
		Overheads @ 12%				35.61
		Contractor's profit @ 10% on (a+b+c)				385.29
		Cost for 5.5 cum = a+b+c+d				70.69
		Rate per cum = (a+b+c+d) / 5.5				
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				
		Mate	day	0.01	321.00	3.21
	b)	Mazdoor (Unskilled)	day	0.13	304.00	39.52
	c)	Machinery	hour	0.17	934.30	158.83
	d)	Truck				23.36
		Overheads @ 12%				21.87
		Contractor's profit @ 10% on (a+b+c)				239.87
		Cost for 5.5 cum = a+b+c+d				43.46
		Rate per cum = (a+b+c+d) / 5.5				
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				
		Mate	day	0.01	321.00	3.21
	b)	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	c)	Machinery	hour	0.33	934.30	308.32
	d)	Truck				46.50
		Overheads @ 12%				43.46
		Contractor's profit @ 10% on (a+b+c)				477.50
		Cost for 2000 Nos. = a+b+c+d				238.49
		Rate for 1000 bricks = (a+b+c+d)/2				
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				
		Mate	day	0.01	321.00	3.21
	b)	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	c)	Machinery	hour	0.33	934.30	308.32
	d)	Truck				46.50
		Overheads @ 12%				43.46
		Contractor's profit @ 10% on (a+b+c)				477.50
		Cost for 2000 Nos. = a+b+c+d				238.49
		Rate for 1000 bricks = (a+b+c+d)/2				
	(i)	Loading and Unloading of Cement by Manual Means				
		Loading of Cement by manual means including a lead upto 30 m				
		Unit = t				
		Taking output = 10 t				
	a)	Labour				
		Mate	day	0.06	321.00	19.26
		Mazdoor (Unskilled)	day	1.50	304.00	456.00

Analysis of Rates (FORMAT F8)

		UNIT	QUANTITY	UNIT PRICE	TOTAL
	b) Machinery				
	Truck	hour	1.00	934.30	934.30
	c) Overheads @ 12%				169.15
	d) Contractor's profit @ 10% on (a+b+c)				157.87
	Cost for 10 t = a+b+c+d				1736.58
		Rate per tonnes = (a+b+c+d)/10			
					173.66
	(ii) Unloading of Cement by manual means including a lead upto 30 m				
	Unit = t				
	Taking output = 10 t				
	a) Labour				
	Mate				
	b) Machinery				
	Truck	day	0.06	321.00	19.26
	c) Overheads @ 12%	day	1.50	304.00	456.00
	d) Contractor's profit @ 10% on (a+b+c)				
	Cost for 10 t = a+b+c+d	hour	1.00	934.30	934.30
		Rate per tonne = (a+b+c+d)/10			
					169.15
					157.87
					1736.58
					173.66
1.5	(i) Loading and Unloading of Structural Steel and Steel Bars by manual means				
	Loading of Structural Steel, Steel Bars by manual means including a lead upto 30 m				
	Unit = t				
	Taking output = 10 t				
	a) Labour				
	b) Machinery				
	Truck	day	0.07	321.00	22.47
	c) Overheads @ 12%	day	1.80	304.00	547.20
	d) Contractor's profit @ 10% on (a+b+c)				
	Cost for 10 t = a+b+c+d	hour	1.00	934.30	934.30
		Rate per tonnes = (a+b+c+d)/10			
					180.48
					168.44
					1852.89
					185.29
	(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				
	b) Machinery				
	Truck	day	0.07	321.00	22.47
	c) Overheads @ 12%	day	1.80	304.00	547.20
	d) Contractor's profit @ 10% on (a+b+c)				
	Cost for 10 t = a+b+c+d	hour	1.00	934.30	934.30
		Rate per t = (a+b+c+d)/10			
					180.48
					168.44
					1852.89
					185.29
1.4	(i) Loading and Unloading of Bitumen Drums by Manual Means				
	Loading of Bitumen Drums by manual means including a lead upto 30 m				
	Unit = t				
	Taking output = 10 t				
	a) Labour	day	0.06	321.00	19.26
	b) Machinery	day	1.60	304.00	486.40
	Truck	hour	1.25	934.30	1167.88
	c) Overheads @ 12%				200.82
	d) Contractor's profit @ 10% on (a+b+c)				187.44
	Cost for 10 t = a+b+c+d				2061.80

Analysis of Rates (FORMAT F8)

Sl. No.	Part	Item	Rate per tonnes = (a+b+c+d)/10	Unit	Rate	Amount
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
		Mate		day	1.20	304.00
	b)	Machinery		hour	1.25	934.30
		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				
	Note :-	The rate is inclusive of the self weight of drum				
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
		Mate		day	0.50	304.00
	b)	Machinery		hour	0.33	934.30
		Truck		hour	0.33	909.00
		Crane				
	c)	Overheads @ 12%				
	d)	Contractor's profit @ 10% on (a+b+c)				
		Cost for 9 pipes = a+b+c+d				
		Rate per pipe = (a+b+c+d)/9				
23	C.	600/450 mm dia Hume pipe				
		Unit = per pipe				
		Taking output = 21 pipe				
	a)	Labour		day	0.02	321.00
		Mate		day	0.50	304.00
	b)	Machinery		hour	0.33	934.30
		Truck		hour	0.33	909.00
		Crane				
	c)	Overheads @ 12%				
	d)	Contractor's profit @ 10% on (a+b+c)				
		Cost for 21 pipes = a+b+c+d				
		Rate per pipe = (a+b+c+d)/21				
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
		Mate		day	0.50	304.00
	b)	Machinery		hour	0.20	934.30
		Truck		hour	0.20	909.00
		Crane				
	c)	Overheads @ 12%				
	d)	Contractor's profit @ 10% on (a+b+c)				
		Cost for 9 pipes = a+b+c+d				
		Rate per pipe = (a+b+c+d)/9				

Analysis of Rates (FORMAT F8)

600/450 mm dia Hume pipe				
Unit = per pipe				
Taking output = 21 pipes				
a) Labour				
Mate				
Mazdoor (Unskilled)				
b) Machinery				
Truck	day	0.02	321.00	6.42
Crane	day	0.50	304.00	152.00
c) Overheads @ 12%				
Contractor's profit @ 10% on (a+b+c)	hour	0.20	934.30	186.86
d) Cost for 21 pipes = a+b+c+d	hour	0.20	909.00	181.80
Rate per pipe = (a+b+c+d)/21				63.25
				59.03
				649.36
				30.92
Total 200.1				
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	cum	0.33	334.58	108.74
3. Brick Masonry in CM 1:4	cum	0.10	6681.46	668.15
4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	cum	0.48	6237.17	2962.66
	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
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	cum	0.192	334.58	64.24
3. Brick Masonry in CM 1:4	cum	0.060	6681.46	400.89
4. Plastering with CM 1:4, 15 mm thick cement plaster on Brick work.	cum	0.193	6237.17	1203.77
	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
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	nos	1.50	304.00	456.00
(ii) Compaction brick bats with C.I. Hammer.	nos	0.67	304.00	203.68
(iii) Brick Bat	Cum	2.83	1063.00	3010.43
(iv) Local Sand	Cum	0.63	141.85	89.65
Over Heads @ 12 % on (a+b+c)				421.09
C. Profit @ 10 % on (a+b+c+d)				4632.01
d) Cost for 2.832 cum = a+b+c+d				1635.60
e) Rate Per cum = (a+b+c+d)/2.832	cum			
CARRIAGE	nos	0.300	776.64	233.10
Carriage for Brick (1 cum Bats = 300 nos Bricks)				1868.70
Rate per cum with carriage				

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Rate	Rate	Rate
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)				105.82
e)					111.33
		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				
b)	Laber	Kg	0.25	61.74	15.44
	Carpenter Gril				
	Unskilled Mazdoor	nos	1.00	408.00	408.00
c)	Overheads @ 12%	nos	1.00	304.00	304.00
d)	Contractor's profit @ 10% on (a+b+c+d)				87.25
e)					81.47
		Rate Per cum=(a+b+c+d)/9.30	Per M		96.31
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				
b)	Laber	Kg	0.25	61.74	15.44
	Carpenter Gril				
	Unskilled Mazdoor	nos	0.125	408.00	51.00
c)	Overheads @ 12%	nos	0.250	304.00	76.00
d)	Contractor's profit @ 10% on (a+b+c+d)				17.0
e)					15.9
		Rate Per cum=(a+b+c+d)/30.5	Per M		5.7

Analysis of Rates (FORMAT F8)

401 Granular Sub-base with Well Graded Material (Table 400.1)				
(By mix in place method) For Grading II Material				
on prepared surface, mixing by providing well graded material, spreading in uniform layers with motor grader roller to achieve the desired density, complete as per Technical Specification Clause 401.				
For Grading II Material				
Unit = cum				
Taking output = 300 cum				
Labour				
Mate				
Mazdoor (Skilled)				
Mazdoor (Unskilled)				
Machinery				
Tractor mounted grader arrangement for grading @ 100 cum per hour				
Three wheel 80-100 kN static roller @ 10' cum per hour				
Tractor with Rotavator 25 cum per hour				
Water tanker 6 kl capacity				
Material				
Well graded granular sub-base material as per Table 400.1				
26.5 mm to 9.5 mm @ 35 per cent				
9.5 mm to 2.36 mm @ 25 per cent				
2.36 mm below @ 40 per cent - Local Sand				
Water				
Overheads @ 12%				
Contractor's profit @ 10% on (a+b+c+d)				
Cost of GSB for 300 cum				
A) Cost of GSB without carriage per cum				
CARRIAGE				
Carriage for GSB material				
Carriage for material below 2.36 mm (Local Sand)				
Rate per cum with carriage				


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