



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



L042 to Dakshin Tola

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Saywisingganj	
TOTAL LENGTH OF ROAD	:-	0.239	KM
TOTAL COST OF PROJECT	:-	7.07	Lac

Site Photograph

Name of Road:- L042 Dakshin tola

Block- *Sarvajanin*



30/10/2021

30/10/21

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- L042 to Dakshin Tola

DISTRICT

SAMASTIPUR

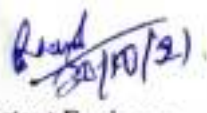
BLOCK

Chandramangla

S.NO	DESCRIPTION	AMOUNT LAKH
1	E/W	61217.000
2	BRICK BAT	566856.000
	SUB TOTAL:-	628073.000
	12% GST on Total Amount:-	75368.760
	SUB TOTAL:-	6280.730
	Total Cost (including GST and Labour Cess	709722.000



Junior Engineer



Assistant Engineer

Executive Engineer

RWD, Works Division, Dalsinghsarai

FDR
YEAR (2020-2021)
GENERAL ABSTRACT OF COST

LOCK :-

Signature
Smt. Smt. Smt.

DISTRICT :- SAMASTIPUR

NAME OF ROAD :- L042 to Dakshin Tola

NO	ITEM OF WORK						AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION						:-	Rs. 709722
						SUB TOTAL	:-	Rs. 709722

Signature
20/10/21
Junior Engineer

Signature
20/10/21
Assistant Engineer

Executive Engineer
RWD, Works Division,
Dalsinghsarai

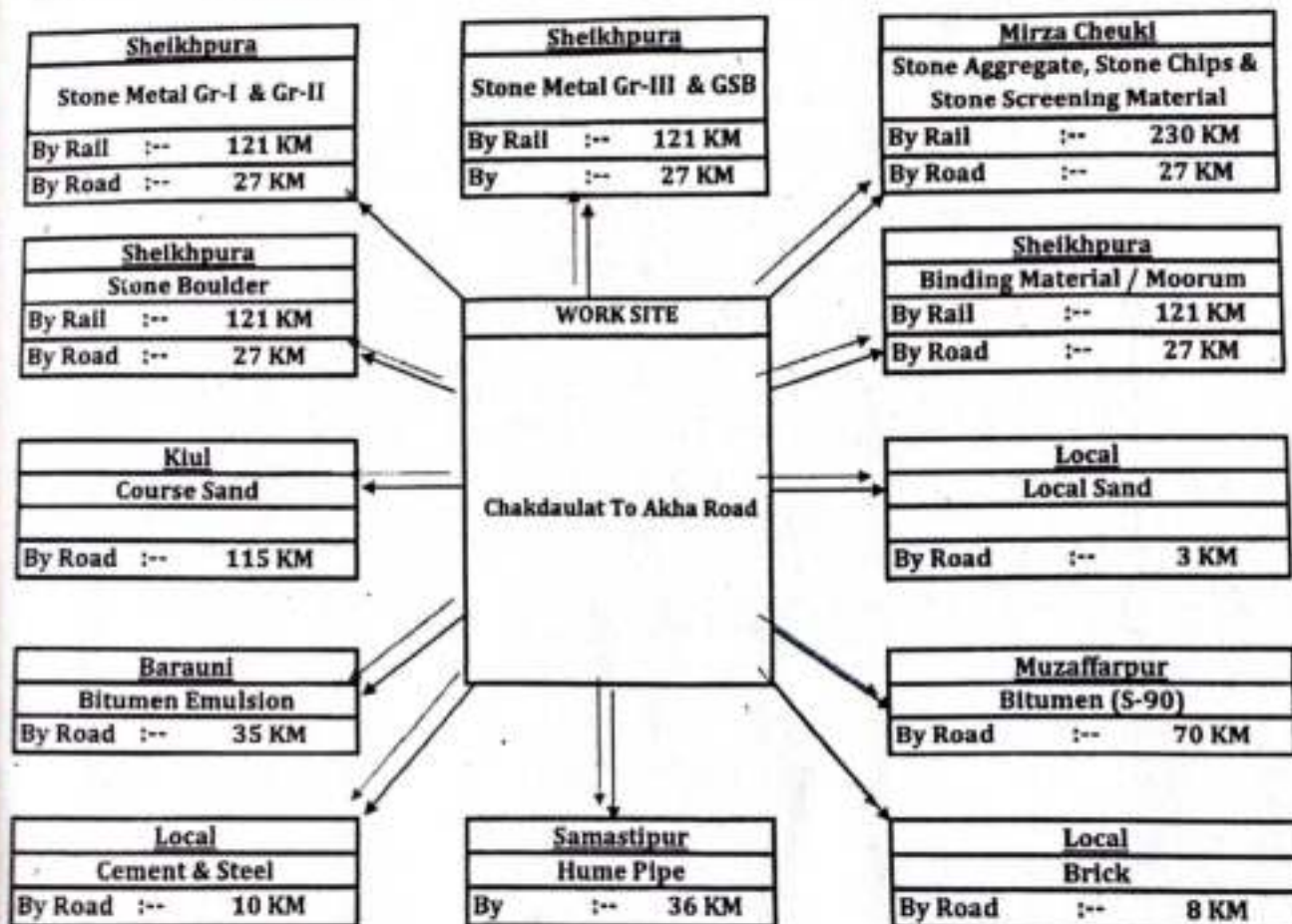
SL.NO	SDB SL.NO	MORD Ref. No	Description	Unit					Quantity	Rate	Amount
1			Earth Work								
			E/W as per specifications and direction of E/L								
				cum	30.00	1+1.5	2.000		75.00		
						2.00					
				cum	30.00	0.90+1.5	1.500		54.00		
						2.00					
				cum	30.00	1.10+1.8	1.500		65.25		
						2.00					
				cum	30.00	1.0+1.50	1.500		56.25		
						2.00					
									250.50	244.38	61217
2			BrickBats								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
				cum	3.00	2.00	1.5+2.00		10.50		
							2.000				
				cum	4.00	2.00	1.5+1.90		13.60		
							2.000				
				cum	1.00	1.00	1.600		1.60		
				cum	5.00	1.90	1.800		17.10		
				cum	7.00	2.00	1.500		21.00		
				cum	12.00	1.50	1.200		21.60		
				cum	8.00	2.00	2.100		33.60		
				cum	5.00	0.90	1.200		5.40		
				cum	6.00	2.10	1.800		22.68		
				cum	15.00	1.30	2.000		39.00		
				cum	6.00	1.80	1.300		14.04		
				cum	7.00	2.10	1.50+2		25.73		
							2.000		0.00		

Figure -3

Quarry Map

Name of Road :- LQ42 to Dakshin Tola
 Block :- Ujainpur
 District :- Samastipur

Length of the Road:- 0.239 KM



* Subjected to Verification of Lead

[Signature]
J.E

[Signature]
A.E

E.E

S.E.

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Rate	Qty	Amount
HAULAGE BY TIPPER					
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
b)	Empty return trip	hour	0.29	1183.00	343.07
c)	Overheads @ 12%				97.95
	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
HAULAGE BY TIPPER					
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
b)	Empty return trip	hour	0.33	1183.00	390.39
c)	Overheads @ 12%				117.83
	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
HAULAGE BY TIPPER					
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
b)	Empty return trip	hour	0.67	1183.00	792.61
c)	Overheads @ 12%				237.07
	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
HAULAGE BY TRUCK					
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.	Code	Particulars	Description	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 18 17 192
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	39 40 10

Analysis of Rates (FORMAT F8)

S. NO. OF ITEMS		DESCRIPTION	UNIT	MANPOWER	MATERIAL	MECH.	RATE
		c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c Rate per cum = (a+b+c) / 5.5 Unloading will be by tipper					95.58 1051.36 191.16 1242.54
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 b) Machinery Tipper 5.5 tonne capacity Overheads @ 12% 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 Unloading will be by tipper	day day hour	0.11 0.75 0.75	321.00 304.00 1183.00		35.31 228.00 887.25 138.07 128.86 1417.49 257.73 459.75
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 b) Machinery Truck 10 tonne capacity Overheads @ 12% 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	day day hour	0.08 2.00 2.00	321.00 304.00 934.30		25.68 608.00 1868.60 300.27 280.26 3082.81 308.28 389.0
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 Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% 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	day day hour	0.02 0.50 0.50	321.00 304.00 934.30		6.42 152.00 467.15 75.07 70.06 770.70 140.13 200.6
	(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 Mazdoor (Unskilled) b) Machinery Truck c) Overheads @ 12% 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	day day hour	0.01 0.25 0.25	321.00 304.00 934.30		3.21 76.00 233.58 37.53 35.03 385.35 70.06 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 Mate	day	0.01	321.00		3.21

Analysis of Rates (FORMAT F8)

Sl. No.	Particulars	Unit	Quantity	Rate	Amount
	h) Mazdoor (Unskilled)	day	0.25	304.00	76.00
	Machinery				
	Truck	hour	0.25	934.30	233.58
	c) Overheads @ 12%				37.53
	d) Contractor's profit @ 10% on (a+b+c)				35.80
	Cost for 5.5 cum = a+b+c+d				385.21
	Rate per cum = (a+b+c+d) / 5.5				70.04
	Total Cost				70.04
	Total Loading & Unloading of Sand / Moorum				70.04
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
	Mazdoor (Unskilled)	day	0.13	304.00	38.52
	b) Machinery				
	Truck	hour	0.17	934.30	158.83
	c) Overheads @ 12%				23.30
	d) Contractor's profit @ 10% on (a+b+c)				21.81
	Cost for 5.5 cum = a+b+c+d				239.87
	Rate per cum = (a+b+c+d) / 5.5				43.61
	Total Cost				43.61
	Total Loading & Unloading of Sand / Moorum				43.61
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				
	Mate	day	0.01	321.00	3.21
	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	b) Machinery				
	Truck	hour	0.33	934.30	308.32
	c) Overheads @ 12%				46.55
	d) Contractor's profit @ 10% on (a+b+c)				43.61
	Cost for 2000 Nos. = a+b+c+d				477.69
	Rate for 1000 bricks = (a+b+c+d) / 2				238.84
	Total Cost				238.84
	Total Loading & Unloading of Bricks				238.84
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
	Mazdoor (Unskilled)	day	0.25	304.00	76.00
	b) Machinery				
	Truck	hour	0.33	934.30	308.32
	c) Overheads @ 12%				46.55
	d) Contractor's profit @ 10% on (a+b+c)				43.61
	Cost for 2000 Nos. = a+b+c+d				477.69
	Rate for 1000 bricks = (a+b+c+d) / 2				238.84
	Total Cost				238.84
	Total Loading & Unloading of Bricks				238.84
16	(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

Table of Rates (FORMAT F8)

		b)	Machinery				
		c)	Truck				
		d)	Overheads @ 12%	hour	1.00	934.30	934.30
			Contractor's profit @ 10% on (a+b+c)				169.15
			Cost for 10 t = a+b+c+d				157.87
			Rate per tonnes = (a+b+c+d)/10				1736.58
17		(ii)	Unloading of Cement by manual means including a lead upto 30 m				173.66
			Unit = t				
			Taking output = 10 t				
		a)	Labour				
			Mate				
		b)	Mazdoor (Unskilled)	day	0.06	321.00	19.26
			Machinery	day	1.50	304.00	456.00
			Truck				
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c)				169.15
			Cost for 10 t = a+b+c+d				157.87
			Rate per tonne = (a+b+c+d)/10				1736.58
							173.66
18	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				
			Mate				
		b)	Mazdoor (Unskilled)	day	0.07	321.00	22.47
			Machinery	day	1.80	304.00	547.20
			Truck				
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c)				180.48
			Cost for 10 t = a+b+c+d				168.44
			Rate per tonnes = (a+b+c+d)/10				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				
		b)	Mazdoor (Unskilled)	day	0.07	321.00	22.47
			Machinery	day	1.80	304.00	547.20
			Truck				
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c)				180.48
			Cost for 10 t = a+b+c+d				168.44
			Rate per t = (a+b+c+d)/10				1852.89
							185.29
1.6		(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
			Mate	day	1.60	304.00	486.40
			Mazdoor (Unskilled)				
		b)	Machinery	hour	1.25	934.30	1167.88
			Truck				200.82
		c)	Overheads @ 12%				187.44
		d)	Contractor's profit @ 10% on (a+b+c)				2061.80
			Cost for 10 t = a+b+c+d				

Analysis of Rates (FORMAT F8)

S. No.	Q. No.	MO. No.	DESCRIPTION	Unit	QUANTITY	Rate	Total
			Rate per tonnes = (a+b+c+d)/10				
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	
		c)	Truck				
			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				
			Total Cost				
22	1.9	(I)	Loading and Unloading of Hume Pipes Loading of RCC Hume pipes by mechanical means including a lead upto 30 m 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	
			Crane	hour	0.33	909.00	
		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				
			Total Cost				
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	
			Crane	hour	0.33	909.00	
		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				
			Total Cost				
24		(II)	Unloading of RCC Hume pipe by mechanical means including a lead upto 30 m 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	
			Crane	hour	0.20	909.00	
		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				
			Total Cost				

Analysis of Rates (FORMAT F8)

Analysis of Rates (FORMAT F8)					
		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
b)	Machinery	day	0.50	304.00	152.00
c)	Overheads @ 12%				
d)	Contractor's profit @ 10% on (a+b+c)	hour	0.20	934.30	186.86
	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 Costing for 1 no. of 600/450 mm dia Hume pipe				759.00
L16	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
	Add 5 per cent cost of items No.1 to 4 for white washing.	sqm	2.63	216.63	569.74
	Sub Total	NO			215.46
	Total Costing for 1 no. of setting out pillar				4524.74
L16	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
	Add 5 per cent cost of items No.1 to 4 for white washing.	sqm	1.50	216.63	324.95
	Sub Total	NO			99.69
	Total Costing for 1 no. of setting out pillar				2093.54
SOR	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	3010.42
iv)	Local Sand	Cum	0.63	141.85	89.65
	Over Heads @ 12 % on (a+b+c)				451.17
	C. Profit @ 10 % on (a+b+c+d)				421.09
d)	Cost for 2.832 cum = a+b+c+d				4632.01
e)	Rate Per cum = (a+b+c+d)/2.832	cum			1635.60
	CARRIAGE				
	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.	Q.No.	DESCRIPTION	Unit	Quantity	Rate	Total
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. b) Labor Carpenter Gril Unskilled Mazdoor c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c+d) e) Rate Per cum=(a+b+c+d)/10	nos	20.00	32.88	657.60
			nos	0.50	408.00	204.00
			nos	0.25	304.00	76.00
						112.51
						105.01
						115.51
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) Labor Carpenter Gril Unskilled Mazdoor c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c+d) e) Rate Per cum=(a+b+c+d)/30.5	nos	0.25	408.00	102.00
			nos	2.50	304.00	760.00
						103.44
						96.54
						34.82
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) Labor Carpenter Gril Unskilled Mazdoor c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c+d) e) Rate Per cum=(a+b+c+d)/9.30	Kg	0.25	61.74	15.44
			nos	1.00	408.00	408.00
			nos	1.00	304.00	304.00
						87.25
						81.41
						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) Labor Carpenter Gril Unskilled Mazdoor c) Overheads @ 12% d) Contractor's profit @ 10% on (a+b+c+d) e) Rate Per cum=(a+b+c+d)/30.5	Kg	0.25	61.74	15.44
			nos	0.125	408.00	51.00
			nos	0.250	304.00	76.00
						17.0
						15.9
						57

Analysis of Rates (FORMAT F8)

Granular Sub-base with Well Graded Material (Table 400.1)
(By mix in place method) For Grading II Material
Construction of granular sub-base by providing well 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 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

CARRIAGE

Carriage for GSB material

Carriage for material below 2.36 mm (Local Sand)

Rate per cum with carriage

day	0.48	321.00	154.08
day	2.00	385.00	770.00
day	10.00	304.00	3040.00
hour	12.00	573.20	6078.40
hour	30.00	803.00	24090.00
hour	12.00	629.00	7548.00
hour	5.00	907.00	4535.00
cum	134.40	595.36	80016.38
cum	96.00	506.92	48664.32
cum	153.60	141.85	21788.16
kl	30.00	40.00	1200.00
			23842.12
			22252.65
			244779.11
			815.93
Cum	0.768	1670.65	1283.06
Cum	0.512	185.01	94.73
			2193.71

2193.71

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