



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Repair of Road From T05 to Madhaipur

DISTRICT	:	Samastipur	
DIVISION	:	Dalsingh Sarai	
BLOCK	:	Dalsinghsarai	
TOTAL LENGTH OF ROAD	:	0.025	KM
TOTAL COST OF PROJECT	:	2.81	Lac

Site Photograph

Name of Road:-

Block-dalsinghsarai



Ashta
31/10/21
J-E

SUMMARY OF COST ESTIMAT FOR THE PROJECT

NAME OF ROAD :- Repair of Road From T05 to Madhaipur

DISTRICT SAMASTIPUR

BLOCK Dalsinghsarai

S.NO	DESCRIPTION	AMOUNT LAKH
1	BRICK BAT	248948.000
	SUB TOTAL:-	248948.000
	12% GST on Total Amount:-	29873.760
	1% Labour Cess	2489.480
	Total Cost (including GST and Labour Cess	281311.240

Add 10% Sengamhi for Mat/500

14346 = 00

Total 2,95,657 = 00

Asin
31/10/21

Junior Engineer

AS
31/10/21

Assistant Engineer

Executive Engineer

D (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 From T05 to Madhaipur

NO	ITEM OF WORK						AMOUNT	
A								
	TOTAL COST OF CONSTRUCTION							
						-	Rs.	281311
						SUB TOTAL	-	Rs. 281311

Asin
31/10/21
Junior Engineer

RWD (W) Section, Dalsinghsarai

U. G.
31.10.21
Assistant Engineer
RWD (W) Sub Division,
Dalsinghsarai

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
1			BrickBats									
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L									
				cum	1.00	5.00	1.500	2.500		18.75		
				cum	1.00	15.00	2.000	3.000		90.00		
				cum	1.00	5.00	1.500	3.000		22.50		
										131.25	1896.75	248948
										SUB TOTAL =		248948.00
										TOTAL COST OF WORK IN RS		248948.00

Asin
31/10/21
Junior Engineer

RWD (W) Section, Dalsinghsarai

U. G. 31.10.21

Assistant Engineer
RWD (W) Sub Division, Dalsinghsarai

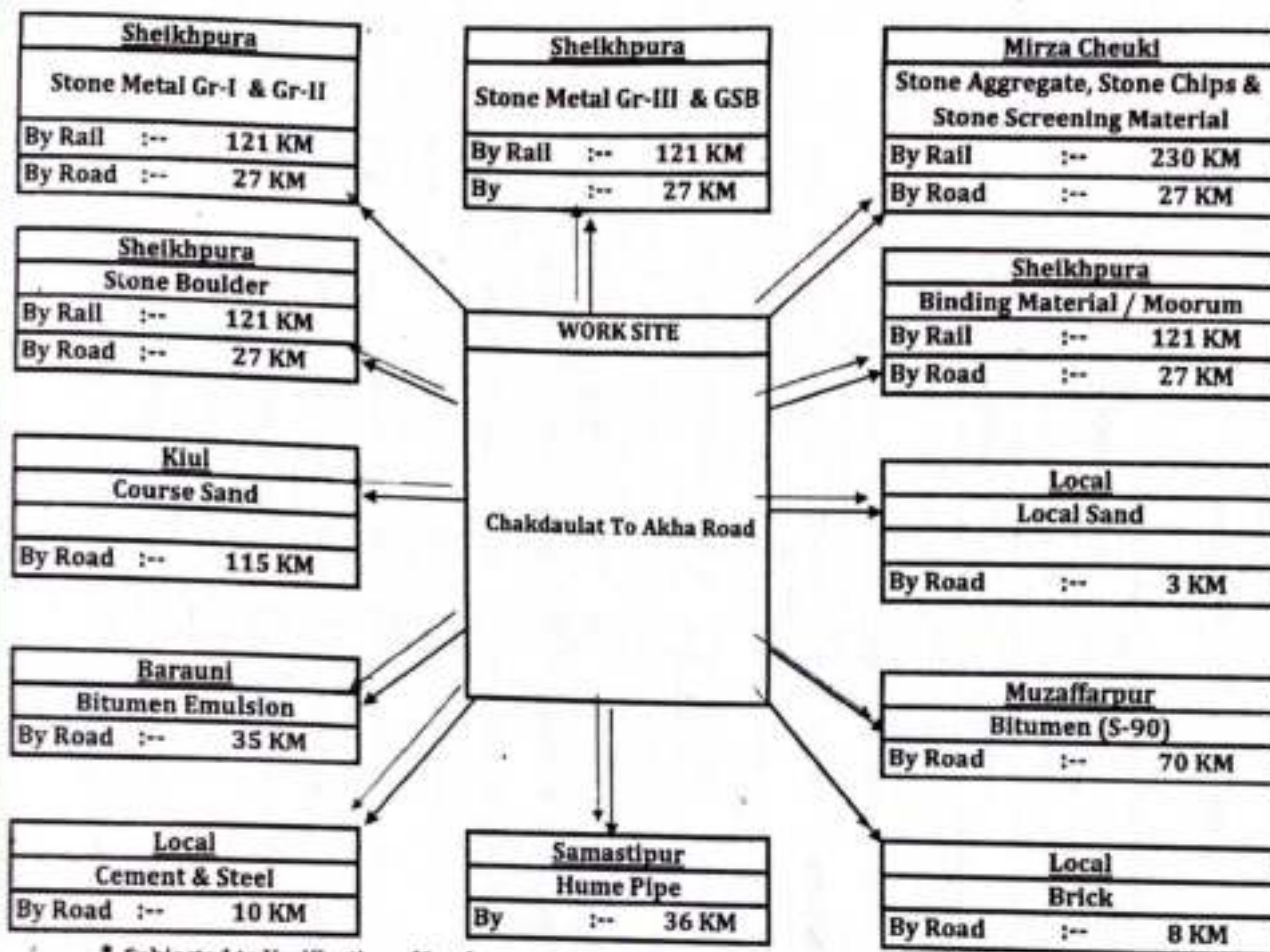
Executive Engineer
RWD, Works Division, Dalsinghsarai

Figure -3

Quarry Map

Name of Road :-- Repair of Road From T05 to Madhaipur
 Block :-- Dalsinghsarai
 District :-- Samastipur

Length of the Road:- 0.025 KM



* Subjected to Verification of Lead

Asir
 31/10/21
 J.E

Chakdaulat
 31/10/21
 A.E.

E.E

S.E.

Sl No	Item with Source	Unit	Source Up to	Pavement / Surface		Kachha		Leading & Unloading Cost	Carriage Cost by Road	Total ₹	Total ₹ Minimum
1	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.59	10.10 x 7.94 x 10.00 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
2	Stone Metal Gr-I & Gr-II (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.59	7.94 x 137.00 Km = Rs 1095.91	8.00 4.59	19.22 x 0.00 Km = Rs 0.00	210.19		Rs. 2104.10	
3	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 38.00 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
4	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	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
5	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	8.00 4.99	10.10 x 38.00 Km = Rs 615.31	8.00 4.99	24.30 x 0.00 Km = Rs 0.00	105.12	1568.15	Rs. 2368.58	Rs. 2368.58
6	Stone Aggregate / Chips (Sheikhpura by Rail 121 Km)	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	1568.15	Rs. 3542.28	Rs. 3542.28
7	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 4.80	10.10 x 38.00 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
8	Stone Boulder (Sheikhpura by Rail 121 Km)	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
9	Course Sand	Cum	Kidul	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
10	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	8.00 6.00	10.10 x 38.00 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
11	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	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
12	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 36.96	113.67		Rs. 185.01	Rs. 185.01
13	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
14	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
15	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
16	Bitumen Emulsion	MT	Barasuni	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
17	Bitumen	MT	Musafarpur	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
18	Hume Pipe (1000 mm)	m	Samastipur	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
19	Hume Pipe (600 mm)	m	Samastipur	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
20	Hume Pipe (300 mm)	m	Samastipur	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 F8

* Subjected to Verification of Load

Signature: *[Signature]*
Date: 21/10/24

EE
RWDAE
PWD

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	9.94
Unsurface Gravel Road	12.10	9.55
Kachha Road	24.30	19.22

Cost of Haulage Excluding Loading & Unloading as per KCH as

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

Pukka / Surface		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
x 10.10	x 4.00 Km = Rs 70.41	+ $\frac{8.00}{4.59}$	x 24.30	x 0.00 Km = Rs 0.00	+ Rs 105.12	=		Rs 175.53
UnSurface		$\frac{8.00}{4.59}$	x 12.10	x 1.00 Km		=		Rs 21.09
Loading & Unloading Cost by manual						=		Rs 210.19
						=		Rs 210.19
						Total	=	Rs 406.81

Cost for O.H. & C.P. = Rs 406.81 / 1.166 = Rs 348.89

Sheikhpura Railway Yard to Karpurigram

Railway Yard = 121.00 Km

Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station

= For 1 MT 121.00 Km = Rs 231.30 = Rs 231.30

Busy Season charge 15% of Railway freight charge

= For 1 MT = 15% = Rs 34.70

Railway Development Charge to 5% of Railway freight Charge

= For 1 MT = 5% = Rs 11.57

Terminal charge @Rs.40.00 per Terminal per MT

= For 1 MT x Rs 40.00 = Rs 0.00

GST 0% (4% included in Overhead Charges) = Rs 277.57 x 0%

= Rs 0.00

Total

Rail Freight = 1.743 x Rs 277.57 = For 1 MT = Rs 277.57

Cost for O.H. & C.P. = Rs 277.57 / 1.166 = Rs 237.80

Add 12% Overhead Charge = 12% = Rs 99.92

Add 10% Contractor Profit = 10% = Rs 93.26

Carriage Cost from Quarry to Karpurigram Railway Yard (By Road) = Rs 1074.89

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material -Stone Metal Gr-III / GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

Pukka / Surface		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
x 10.10	x 4.00 Km = Rs 64.77	+ $\frac{8.00}{4.99}$	x 24.30	x 0.00 Km = Rs 0.00	+ Rs 105.12	=		Rs 169.89
UnSurface		$\frac{8.00}{4.99}$	x 12.10	x 1.00 Km		=		Rs 19.40
Loading & Unloading Cost by manual						=		Rs 210.19
						=		Rs 210.19
						Total	=	Rs 399.48

Cost for O.H. & C.P. = Rs 399.48 / 1.166 = Rs 342.86

Sheikhpura Railway Yard to Karpurigram			
Railway Yard	121.00 Km		
Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station	Per 1 MT		Rs 231.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Analysis for Carriage Through Railway from Quarry Site to Work Site

Mirza Chowki to Karpurigram Material - Stone Aggregate / Chips

Quarry Site to Mirza Chowki Railway Yard (By Road)			
Railway Yard	230.00 Km		
Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station	Per 1 MT		Rs 175.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Material - Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

Sheikhpura Railway Yard to Karpurigram			
Railway Yard	121.00 Km		
Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station	Per 1 MT		Rs 231.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Quarry Site to Mirza Chowki Railway Yard (By Road)			
Railway Yard	230.00 Km		
Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station	Per 1 MT		Rs 175.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Quarry Site to Mirza Chowki Railway Yard (By Road)			
Railway Yard	230.00 Km		
Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station	Per 1 MT		Rs 175.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Binding Material / Masonry

Quarry Site to Sheikhpura Railway Yard (By Road)

Sheikhpura Railway Yard to Karpurigram			
Railway Yard	121.00 Km		
Railway freight charge from Sheikhpura Railway station to Karpurigram Railway station	Per 1 MT		Rs 231.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Quarry Site to Mirza Chowki Railway Yard (By Road)			
Railway Yard	230.00 Km		
Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station	Per 1 MT		Rs 175.30
Buy Station charge 15% of Railway freight	Per 1 MT		15%
Railway Development Charge to 5% of Railway freight	Per 1 MT		5%
Terminal charge @Rs.40.00 per Terminal per MT	Per 1 MT		Rs 40.00
GST 0% (1% included in Overhead Charge)	0%		
Total	1.003 x Rs 357.57		
Add 12% Overhead Charge			
Add 10% Contractor Profit			

Shankarpur to Railway Yard to Karpurigram	Railway Yard = 121.00 Km	
Railway freight charge from Shankarpur Railway station to Karpurigram Railway station	For 1 MT	Rs 231.30
Bury taxation charge 15% of Railway freight charge	For 1 MT	15%
Railway Development Charge to 5% of Railway freight Charge	For 1 MT	5%
Terminal charge @ Rs 40.00 per Terminal per MT	For 1 MT	2 x Rs 40.00 =
GST 9% (14% included in Overhead Charges) =	Rs 357.57	0%
Total	For 1 MT	Rs 357.57
Rs 357.57	For 1 MT	Rs 357.57
Add 12% Overhead Charge = 12%		
Add 10% Contractor Profit = 10%		

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount
1.1.10	(i) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = 1km Taking output 10 t load and lead 10 km = 100 Lkm Case-I: Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% 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	472.20 341.07 97.95 91.42 1005.64 16.06
1.1.10	(ii) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = 1km Taking output 10 t load and lead 10 km = 100 Lkm Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% 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 1209.69 12.10
1.1.10	(iii) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = 1km Taking output 10 t load and lead 10 km = 100 Lkm Case-III: Kachha Track and Track in River Bed/Mulash Bed and Chose Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour Machinery Tipper 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	hour hour	1.30 0.67	1183.00 1183.00	1183.00 792.61 237.07 231.37 2423.95 24.34
1.1.10	(iv) Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking.				

Analysis of Rates (FORMAT PB)

Sl. No.	REVISED Sl. No.	DESCRIPTION	Unit	Quantity	Rate	
		Unit = 1 km Tacking output 10 t load and haul 10 km = 100 Lkm Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 12% 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	
5	L.10	(M) Haulage excluding Loading & Unloading Haulage of materials by trolley excluding cost of loading, unloading and stacking Unit = 1 km Tacking output 10 t load and haul 10 km = 100 Lkm Case-II: Unsurfaced Gravel Road. Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	Cum	hour hour	3.59 0.33	934.30 934.30
6	L.10	(M) Haulage excluding Loading & Unloading Haulage of materials by trolley excluding cost of loading, unloading and stacking Unit = 1 km Tacking output 10 t load and haul 10 km = 100 Lkm Case-III : Katcha Truck and Truck in Silver Bed/Black Bed and Clay Bed. Speed with load: 10 km per hour Speed while returning empty: 15 km per hour Machinery Truck 10 t capacity Haulage with load Empty return trip Overheads @ 12% Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b+c Rate per cum = (a+b+c) / 100	Cum	hour hour	1.00 0.67	934.30 934.30
7	L.10	(M) Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kashir/Moorm Placing upper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and Unit = cum Tacking output = 5.5 cum Time required for (i) Positioning of upper at loading point (ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour (iii) Manoeuvring, reversing, dumping and turning for return (iv) Waiting time, unforeseen contingencies etc Total a) Machinery Truck 5.5 tonnes capacity Front end loader 1 cum bucket capacity @ 25 cum/hour Overheads @ 12%	Cum	1 Min 15 Min 2 Min 4 Min 20 Min 0.33 0.33	1183.00 1463.00	

Analysis of Rates (FORMAT PB)

1	L.10	(M) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c Rate per cum = (a+b+c)/5.5	hour	0.40	934.30
2	L.10	(M) Loading and Unloading of Boulders by Manual Means Unit = cum Tacking output = 5.5 cum a) Labour Man Machinery for loading and unloading b) Machinery Truck 5.5 cum capacity Overheads @ 12% 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	hour	0.11 0.19 0.79	321.00 304.00 1183.00
3	L.10	(M) Loading and Unloading of Concrete or Steel by Manual Means and Unit = tonne Tacking output = 10 tonnes a) Labour Man Machinery for loading and unloading b) Machinery Truck 10 tonne capacity Overheads @ 12% Contractor's profit @ 10% on (a+b+c) Cost for 10 tonnes = a+b+c+d Rate per tonne = (a+b+c+d)/10	hour	0.08 2.00 2.00	321.00 304.00 1183.00
4	L.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 Tacking output = 5.5 cum Labour Man Machinery (Unloaded) Machinery Truck Overheads @ 12% 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	hour	0.02 0.50 0.50 0.00	321.00 304.00 304.00 1183.00
5	L.10	(M) Loading of Earth, Sand, Moorm, Manure, Fertilizer by manual means including a lead upto 30 m. Unit = cum Tacking output = 5.5 cum Labour Man Machinery (Unloaded) Machinery Truck Overheads @ 12% 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	hour	0.02 0.50 0.50 0.00	321.00 304.00 304.00 1183.00
6	L.10	(M) 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 Tacking output = 5.5 cum Labour Man	hour	0.01 0.01	321.00 321.00

Sl. No.		Description		Unit		Rate		Total Cost	
Sl. No.		Description		Unit		Rate		Total Cost	
13		Total Loading & Unloading of Stone Aggregate		Cum		70.06		70.06	
(iv)		Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.		Unit = cum		0.01		321.00	
a)		Labour		day		0.01		321.00	
b)		Mazdoor (Unskilled)		day		0.13		304.00	
c)		Overheads @ 12%		hour		0.17		934.30	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	
14		Total Loading & Unloading of Sand / Moisture		Cum		70.06		70.06	
(i)		Loading, Unloading and Stacking of Bricks by Manual Means		Unit = 1000 Nos.		0.01		321.00	
a)		Labour		day		0.01		321.00	
b)		Mazdoor (Unskilled)		day		0.25		304.00	
c)		Overheads @ 12%		hour		0.33		934.30	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	
15		Total Loading & Unloading of Bricks by manual means including a lead upto 30 m		Unit = 1000 Nos.		0.01		321.00	
a)		Labour		day		0.01		321.00	
b)		Mazdoor (Unskilled)		day		0.25		304.00	
c)		Overheads @ 12%		hour		0.33		934.30	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	
16		Total Loading & Unloading of Cement by Manual Means		Unit = t		0.06		321.00	
a)		Labour		day		0.06		321.00	
b)		Mazdoor (Unskilled)		day		1.50		304.00	
c)		Overheads @ 12%		hour		0.06		321.00	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	

Sl. No.		Description		Unit		Rate		Total Cost	
Sl. No.		Description		Unit		Rate		Total Cost	
17		Total Loading & Unloading of Cement by Manual Means		Unit = t		0.06		321.00	
a)		Labour		day		0.06		321.00	
b)		Mazdoor (Unskilled)		day		1.50		304.00	
c)		Overheads @ 12%		hour		0.06		321.00	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	
18		Total Loading & Unloading of Cement by Manual Means		Unit = t		0.06		321.00	
a)		Labour		day		0.06		321.00	
b)		Mazdoor (Unskilled)		day		1.50		304.00	
c)		Overheads @ 12%		hour		0.06		321.00	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	

Sl. No.		Description		Unit		Rate		Total Cost	
Sl. No.		Description		Unit		Rate		Total Cost	
19		Total Loading & Unloading of Cement by Manual Means		Unit = t		0.06		321.00	
a)		Labour		day		0.06		321.00	
b)		Mazdoor (Unskilled)		day		1.50		304.00	
c)		Overheads @ 12%		hour		0.06		321.00	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	
20		Total Loading & Unloading of Cement by Manual Means		Unit = t		0.06		321.00	
a)		Labour		day		0.06		321.00	
b)		Mazdoor (Unskilled)		day		1.50		304.00	
c)		Overheads @ 12%		hour		0.06		321.00	
d)		Contractor's profit @ 10% on (a+b+c)							
Total Cost				Cum		70.06		70.06	

Sl. No.	Description	Unit	Rate	Quantity	Total Cost
22	(ii) Unloading of RCC Hume Pipes by mechanical means including a lead upto 30 m Unit = 9 Taking output = 18 t Labour Main Machine (Unskilled) Machinery Truck Overheads @ 12% Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per 10 t = (a+b+c+d)/10 Note - The rate is inclusive of the self weight of drum	day day hour	0.05 1.20 1.25	321.00 304.00 934.30	647.30
23	(i) Loading and Unloading of Hume Pipes Loading of RCC Hume pipes by mechanical means including a lead upto 30 m Unit = 9 Taking output = 18 t Labour Main Machine (Unskilled) Machinery Truck Overheads @ 12% Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per 10 t = (a+b+c+d)/10 Note - The rate is inclusive of the self weight of drum	day day hour	0.05 1.20 1.25	321.00 304.00 934.30	647.30
24	(ii) Unloading of RCC Hume pipe by mechanical means including a lead upto 30 m Unit = 9 Taking output = 18 t Labour Main Machine (Unskilled) Machinery Truck Overheads @ 12% Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d Rate per 10 t = (a+b+c+d)/10 Note - The rate is inclusive of the self weight of drum	day day hour	0.05 1.20 1.25	321.00 304.00 934.30	647.30

Analysis of Rates (FORMAT F8)

Sl. No.	ORD No.	DESCRIPTION	Unit	Quantity	Rate
17	5.7.6	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete 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
	b)	Laber			
		Carpenter Gril	nos	0.50	408.00
		Unskilled Mazdoor	nos	0.25	304.00
	c)	Overheads @ 12%			
	d)	Contractor's profit @ 10% on (a+b+c+d)			
	e)	Rate Per cum = (a+b+c+d)/10	Per M		
		Total Cost	Per M		
18	5.7.7	Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete 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
		Unskilled Mazdoor	nos	2.50	304.00
	c)	Overheads @ 12%			
	d)	Contractor's profit @ 10% on (a+b+c+d)			
	e)	Rate Per cum = (a+b+c+d)/30.5	Per M		
		Total Cost	Per M		
19	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 dia bamboo runners in position at every vertical pile with 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
	b)	Laber			
		Carpenter Gril	nos	1.00	408.00
		Unskilled Mazdoor	nos	1.00	304.00
	c)	Overheads @ 12%			
	d)	Contractor's profit @ 10% on (a+b+c+d)			
	e)	Rate Per cum = (a+b+c+d)/9.30	Per M		
		Total Cost	Per M		
20	5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 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
	b)	Laber			
		Carpenter Gril	nos	0.125	408.00
		Unskilled Mazdoor	nos	0.250	304.00
	c)	Overheads @ 12%			
	d)	Contractor's profit @ 10% on (a+b+c+d)			
	e)	Rate Per cum = (a+b+c+d)/30.5	Per M		
		Total Cost	Per M		