



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

2021-22

FLOOD DAMAGED REPORT



Samastipur Ujiyarpur Sarairanjan Tajpur Path

DISTRICT	:-	Samastipur	
DIVISION	:-	Dalsingh Sarai	
BLOCK	:-	Ujiarpur	
TOTAL LENGTH OF ROAD	:-	8.000	KM
TOTAL COST OF SURFACE RENEUAL	:-	13.010	Lac
TOTAL COST OF PROJECT	:-	13.010	Lac

2.3	<u>Site Photographs</u>	
	NAME OF ROAD :- Samastipur Ujiyarpur Sarairanjan Tajpur Path	
	BLOCK :- Ujiyarpur	DISTRICT : Samastipur
1	 Latitude: 25.76708 Longitude: 85.71097 Elevation: 94.16 m Accuracy: 163.4 m Time: 08-14-2021 12:13 Note: Samastipur Ujiyarpur Sarairanjan Tajpur Path	2  Latitude: 25.768405 Longitude: 85.711352 Elevation: 92.93 m Accuracy: 5.9 m Time: 08-14-2021 12:14 Note: Samastipur Ujiyarpur Sarairanjan Tajpur Path
3	 Latitude: 25.7684 Longitude: 85.71135 Elevation: 92.14 m Accuracy: 10.8 m Time: 08-14-2021 12:14 Note: Samastipur Ujiyarpur Sarairanjan Tajpur Path	4  Latitude: 25.768797 Longitude: 85.711356 Elevation: 92.14 m Accuracy: 11.0 m Time: 08-14-2021 12:15 Note: Samastipur Ujiyarpur Sarairanjan Tajpur Path

25/07/2021
25/07/2021

25/07/21
AB

FLOOD DAMAGED REPORT

GENERAL ABSTRACT OF COST

Block:-- Ujiarpur

District:- Samastipur

Length of Road:-- 8.000 KM

Name of Road:-- Samastipur Ujiarpur Sarairanjan Tajpur Path

No.	Item of Work	Amount
	TOTAL COST OF CONSTRUCTION	: 13.010 Lacs
	TOTAL	: 13.010 Lacs

25/10/2021
for Engineer


Asstt. Engineer

Executive Engineer

SE
RWD

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD : Samastipur Ujlyarpur Saralranjan Tajpur Path
DISTRICT Samastipur
BLOCK Ujiarpur
DIVISION Dalsingh Sarai
LENGTH OF ROAD (In Km) 8.000

SL No.	DESCRIPTION	Amount	1 % Labour Cess	12 % GST	1% Labour Cess & 12% GST AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL				
1	Brick Bats	7.501	0.075	0.900	8.476
2	Embankment	0.400	0.004	0.048	0.452
3	GSB	3.448	0.034	0.414	3.896
4	RCC pipe NP-3	0.164	0.002	0.020	0.186
	SUB TOTAL OF SURFACE RENEWAL	11.513	0.115	1.382	13.010
	TOTAL COST OF PROJECT IN LACS =	11.513	0.115	1.382	13.010

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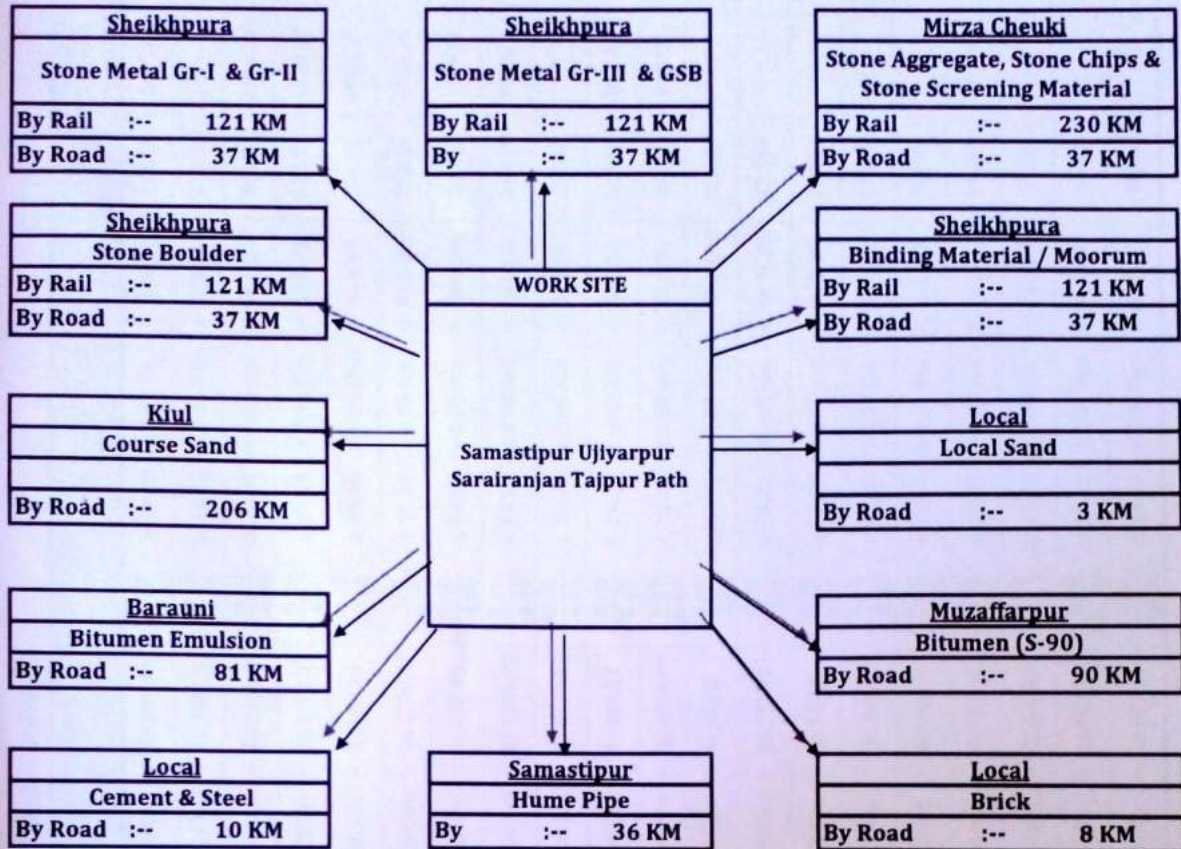
Sl. No.	S.D. No.	Q.R.D. Ref. No.	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	3.2	301.4	Brick Bats								
			Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I including carriage cost of bricks.								
				12	x	3.00	x	0.2	7.20		
				20	x	2.50	x	0.2	10.00		
				5	x	1.50	x	0.2	1.50		
				2	x	1.50	x	0.2	0.60		
				5	x	3.00	x	0.2	3.00		
				6	x	3.00	x	0.2	3.60		
				8	x	2.50	x	0.2	4.00		
				25	x	3.50	x	0.3	26.25		
				16	x	2.50	x	0.2	8.00		
				20	x	2.00	x	0.2	8.00		
				10	x	1.50	x	0.2	2.25		
				25	x	2.50	x	0.2	12.50		
				21	x	3.00	x	0.2	12.60		
				18	x	2.50	x	0.2	9.00		
				30	x	3.75	x	0.2	22.50		
				20	x	3.75	x	0.2	15.00		
				12	x	2.00	x	0.2	4.80		
				24	x	1.50	x	0.2	7.20		
				20	x	2.00	x	0.2	8.00		
				30	x	1.50	x	0.2	9.00		
				35	x	1.20	x	0.2	8.40		
				18	x	2.00	x	0.2	7.20		
				9	x	4.50	x	1.63	65.81		
				10	x	6.00	x	1.8	105.00		
				8	x	5.00	x	1.0	40.00		
									401.41	1,868.70	7,50,120.00
2	3.4	301.5	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m, transporting to the site spreading grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m & 100 m as per Technical Specification Clause 301.5. (Including Labour Cess). For 1000 m lead								
				20	x	1.50	x	2.5	75.00		
				20	x	1.50	x	3.0	90.00		
									165.00	242.40	39,996.00

Figure -3

Quarry Map

Name of Road :- Samastipur Ujiyarpur Sarairanjan Tajpur Path
 Block :- Ujiarpur
 District :- Samastipur

Length of the Road:- 8.000 KM



* Subjected to Verification of Lead

J.E

A.E.

E.E

S.E.

Analysis for Carriage by Road & Rail

Name of Road:- Samastipur Ujjayarpur Sarairanjan Tajpur Path

District:- Samastipur

Block :- Ujjayarpur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		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	$\frac{8.00}{4.59} \times 10.10$	$\times 37.00 \text{ Km} = \text{Rs } 651.33$	$\frac{8.00}{4.59} \times 24.30$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	105.12	1025.87	Rs. 1782.32	Rs. 1782.32
	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.94$	$\times 136.00 \text{ Km} = \text{Rs } 1882.07$	$\frac{8.00}{4.59} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	210.19		Rs. 2092.26	
2	Stone Metal Gr-III (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 10.10$	$\times 37.00 \text{ Km} = \text{Rs } 599.12$	$\frac{8.00}{4.99} \times 24.30$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	105.12	1128.34	Rs. 1832.58	Rs. 1832.58
	Stone Metal Gr-III	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 136.00 \text{ Km} = \text{Rs } 1731.21$	$\frac{8.00}{4.99} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	210.19	1128.34	Rs. 3069.74	
3	Stone Aggregate / Chips (Mirza Chowki by Rail 230 Km)	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 10.10$	$\times 37.00 \text{ Km} = \text{Rs } 599.12$	$\frac{8.00}{4.99} \times 24.30$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	105.12	1588.15	Rs. 2292.39	Rs. 2292.39
	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.94$	$\times 136.00 \text{ Km} = \text{Rs } 1731.21$	$\frac{8.00}{4.99} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	210.19	1588.15	Rs. 3529.55	
4	Stone Boulder (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 10.10$	$\times 37.00 \text{ Km} = \text{Rs } 622.83$	$\frac{8.00}{4.80} \times 24.30$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	105.12	1159.81	Rs. 1887.76	Rs. 1887.76
	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.94$	$\times 136.00 \text{ Km} = \text{Rs } 1799.73$	$\frac{8.00}{4.80} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	210.19	1159.81	Rs. 3169.73	
5	Course Sand	Cum	Ktiul	$\frac{8.00}{4.99} \times 7.94$	$\times 206.00 \text{ Km} = \text{Rs } 2622.27$	$\frac{8.00}{4.99} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	113.67		Rs. 2735.94	Rs. 2735.94
	Binding Material/Moorum (Sheikhpura by Rail 121 Km)	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 10.10$	$\times 37.00 \text{ Km} = \text{Rs } 498.27$	$\frac{8.00}{6.00} \times 24.30$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	113.67	851.49	Rs. 1463.43	Rs. 1463.43
6	Binding Material/Moorum	Cum	Sheikhpura	$\frac{8.00}{6.00} \times 7.94$	$\times 136.00 \text{ Km} = \text{Rs } 1439.79$	$\frac{8.00}{6.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	66.31	851.49	Rs. 2357.59	
	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 10.10$	$\times 2.00 \text{ Km} = \text{Rs } 32.38$	$\frac{8.00}{4.99} \times 24.30$	$\times 1.00 \text{ Km} = \text{Rs } 38.96$	113.67		Rs. 185.01	Rs. 185.01
7	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.94$	$\times 7.00 \text{ Km} = \text{Rs } 222.32$	$\frac{8.00}{2.00} \times 19.22$	$\times 1.00 \text{ Km} = \text{Rs } 76.88$	477.44		Rs. 776.64	Rs. 776.64
	Cement	MT	Local	$\frac{8.00}{8.00} \times 7.94$	$\times 10.00 \text{ Km} = \text{Rs } 79.40$	$\frac{8.00}{8.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	347.32		Rs. 426.72	Rs. 426.72
8	Steel	MT	Local	$\frac{8.00}{8.00} \times 7.94$	$\times 10.00 \text{ Km} = \text{Rs } 79.40$	$\frac{8.00}{8.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	370.58		Rs. 449.98	Rs. 449.98
	Bitumen Emulsion	MT	Barauni	$\frac{8.00}{8.00} \times 7.94$	$\times 81.00 \text{ Km} = \text{Rs } 643.14$	$\frac{8.00}{8.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	396.98		Rs. 1040.12	Rs. 1040.12
9	Bitumen	MT	Muzaffarpur	$\frac{8.00}{8.00} \times 7.94$	$\times 90.00 \text{ Km} = \text{Rs } 714.60$	$\frac{8.00}{8.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	396.98		Rs. 1111.58	Rs. 1111.58
	Hume Pipe (1000 mm)	m	Samastipur	$\frac{8.00}{10.00} \times 7.94$	$\times 36.00 \text{ Km} = \text{Rs } 228.67$	$\frac{8.00}{10.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	70.84		Rs. 299.51	Rs. 299.51
10	Hume Pipe (600 mm)	m	Samastipur	$\frac{8.00}{25.00} \times 7.94$	$\times 36.00 \text{ Km} = \text{Rs } 91.47$	$\frac{8.00}{25.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	30.36		Rs. 121.83	Rs. 121.83
	Hume Pipe (300 mm)	m	Samastipur	$\frac{8.00}{60.00} \times 7.94$	$\times 36.00 \text{ Km} = \text{Rs } 38.11$	$\frac{8.00}{60.00} \times 19.22$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	30.36		Rs. 68.47	Rs. 68.47

Cost of Haulage Excluding Loading & Unloading as per SOI aa

Type of Road	₹ Per Ton. Km by Tipper	₹ Per Ton. Km by Truck
For Surface Road	10.10	7.94
Unsurface Gravel Road	12.10	9.55
Kachha Road	24.30	19.22

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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)

Carriage Cost & Lead in Km				Loading & Unloading		Total
Pucka / Surface		Katcha				
$\frac{8.00}{4.59} \times 10.10 \times 4.00 \text{ Km} = \text{Rs } 70.41$	+	$\frac{8.00}{4.59} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$	+	$\text{Rs } 105.12$	=	$\text{Rs } 175.53$
UnSurface		$\frac{8.00}{4.59} \times 12.10 \times 1.00 \text{ Km}$			=	$\text{Rs } 21.09$
Loading & Unloading Cost by manual				=	$\text{Rs } 210.19$	= $\text{Rs } 210.19$
				Total	=	$\text{Rs } 406.81$
Less for O.H & C.P = $\text{Rs } 406.81 / 1.166$					= $\text{Rs } 348.89$	Total "A" = $\text{Rs } 348.89$

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	=	$\text{Rs } 231.30$	= $\text{Rs } 231.30$
Busy Season charge 15% of Railway freight charge	=	For 1 MT		=	15%	= $\text{Rs } 34.70$
Railway Development Charge to 5% of Railway freight Charge		For 1 MT		=	5%	= $\text{Rs } 11.57$
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT		x	$\text{Rs } 40.00$	= $\text{Rs } 0.00$
GST 0% "(4% included in Overhead Charges)"	=	$\text{Rs } 277.57 \times 0\%$				= $\text{Rs } 0.00$
Total	=	For 1 MT				= $\text{Rs } 277.57$
Rail Freight =	$1.743 \times \text{Rs } 277.57$	For 1 MT		"B"		= $\text{Rs } 483.80$
Gross Cost for Railway freight charge "A" + "B"				For 1 MT		= $\text{Rs } 832.69$
Add 12% Overhead Charge				=	12%	= $\text{Rs } 99.92$
Add 10% Contractor Profit				=	10%	= $\text{Rs } 93.26$

Carriage Cost from Quarry to Karpurigram Railway Yard For 1 Cum = $\text{Rs } 1025.87$

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)

Carriage Cost & Lead in Km				Loading & Unloading		Total
Pucka / Surface		Katcha				
$\frac{8.00}{4.99} \times 10.10 \times 4.00 \text{ Km} = \text{Rs } 64.77$	+	$\frac{8.00}{4.99} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$	+	$\text{Rs } 105.12$	=	$\text{Rs } 169.89$
UnSurface		$\frac{8.00}{4.99} \times 12.10 \times 1.00 \text{ Km}$			=	$\text{Rs } 19.40$
Loading & Unloading Cost by manual				=	$\text{Rs } 210.19$	= $\text{Rs } 210.19$
				Total	=	$\text{Rs } 399.48$
Less for O.H & C.P = $\text{Rs } 399.48 / 1.166$					= $\text{Rs } 342.61$	Total "A" = $\text{Rs } 342.61$

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	2	x	Rs 40.00	=	Rs 80.00
GST 0 % "(4% included in Overhead Charges) =	Rs 357.57	x	0%			=	Rs 0.00

Total	=	For 1 MT	=	Rs 357.57
Rail Fright =	1.603 x	Rs 357.57	For 1 MT	"B" = Rs 573.25

Gross Cost for Railway freight charge "A" + "B"	For 1 MT	=	Rs 915.86
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Add 12% Overhead Charge	=	12%	=	Rs 109.90
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Add 10% Contractor Profit	=	10%	=	Rs 102.58
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Carriage Cost from Quarry to Karpurigram Railway Yard	For 1 Cum	=	Rs 1128.34
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Analysis for Carrige 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)

Carriage Cost & Lead In Km				Loading & Unloading		Total
Pucka / Surface		Katcha				
$\frac{8.00}{4.99} \times 10.10 \times 4.00 \text{ Km} = \text{Rs } 64.77$	+	$\frac{8.00}{4.99} \times 24.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$	+	$\text{Rs } 105.12$	=	Rs 169.89
UnSurface		$\frac{8.00}{4.99} \times 12.10 \times 1.00 \text{ Km}$			=	Rs 19.40
Loading & Unloading Cost by manual				=	Rs 210.19	= Rs 210.19
				Total	=	Rs 399.48
Less for O.H & C.P = Rs 399.48 / 1.166				=	Rs 342.61	Total "A" = Rs 342.61

Mirza Chowki Railway Yard to Karpurigram

Railway Yard = 230.00 Km

Railway freight charge from Mirza Chowki Railway station to Karpurigram Railway station	=	For 1 MT	230.00 Km	=	Rs 425.30	=	Rs 425.30
Busy Season charge 15% of Railway freight charge	=	For 1 MT		=	15%	=	Rs 63.80
Railway Development Charge to 5% of Railway freight Charge		For 1 MT		=	5%	=	Rs 21.27
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2	x	Rs 40.00	=	Rs 80.00
GST 0 % "(4% included in Overhead Charges) =	Rs 590.37	x	0%			=	Rs 0.00

Total	=	For 1 MT	=	Rs 590.37
Rail Fright =	1.603 x	Rs 590.37	For 1 MT	"B" = Rs 946.48

Gross Cost for Railway freight charge "A" + "B"	For 1 MT	=	Rs 1289.09
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Add 12% Overhead Charge	=	12%	=	Rs 154.69
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Add 10% Contractor Profit	=	10%	=	Rs 144.38
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Carriage Cost from Quarry to Karpurigram Railway Yard	For 1 Cum	=	Rs 1588.15
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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)

Pucka / Surface		Carriage Cost & Lead in Km				Katcha		Loading & Unloading		Total
$\frac{8.00}{4.80}$	x 10.10 x 4.00 Km = Rs 67.33	+	$\frac{8.00}{4.80}$	x 24.30	x 0.00 Km = Rs 0.00	+	Rs 105.12	=	Rs 172.45	
UnSurface			$\frac{8.00}{4.80}$	x 12.10	x 1.00 Km			=	Rs 20.17	
Loading & Unloading Cost by manual								=	Rs 210.19	
								Total	= Rs 402.81	
Less for O.H & C.P		=	Rs 402.81 / 1.166		=	Rs 345.46		Total "A"	= Rs 345.46	

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	2	x	Rs 40.00	=	Rs 80.00
GST 0 % "(4% included in Overhead Charges)"	=	Rs 357.57 x 0%				=	Rs 0.00
Total	=	For 1 MT		=	Rs 357.57	=	Rs 357.57
Rail Freight =	1.667 x Rs 357.57	For 1 MT			"B"	=	Rs 595.94
Gross Cost for Railway freight charge "A" + "B"		For 1 MT		=	Rs 941.41		
		Add 12% Overhead Charge	=	12%	=	Rs 112.97	
		Add 10% Contractor Profit	=	10%	=	Rs 105.44	
Carriage Cost from Quarry to Karpurigram Railway Yard		For 1 Cum		=	Rs 1159.81		

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpurigram

Binding Material /Moorum

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface		Carriage Cost & Lead in Km				Katcha		Loading & Unloading		Total	
$\frac{8.00}{6.00}$	x 10.10 x 4.00 Km = Rs 53.87	+	$\frac{8.00}{6.00}$	x 24.30	x 0.00 Km = Rs 0.00	+	Rs 66.31	=	Rs 120.18		
UnSurface			$\frac{8.00}{6.00}$	x 12.10	x 1.00 Km			=	Rs 16.13		
Loading & Unloading Cost by manual								=	Rs 113.67	=	Rs 113.67
								Total	=	Rs 249.98	
Less for O.H & C.P		=	Rs 249.98	/	1.166	=	Rs 214.39	Total "A"	=	Rs 214.39	

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 2 x Rs 40.00 = Rs 80.00

GST 0 % "(4% Included in Overhead Charges) = Rs 357.57 x 0%

= Rs 0.00

Total

=

For 1 MT

=

Rs 357.57

Rail Freight =

1.333 x Rs 357.57

For 1 MT

"B"

=

Rs 476.75

Gross Cost for Railway freight charge "A" + "B"

For 1 MT

=

Rs 691.14

Add 12% Overhead Charge

= 12%

=

Rs 82.94

Add 10% Contractor Profit

= 10%

=

Rs 77.41

Carriage Cost from Quarry to Karpurigram Railway Yard

For 1 Cum

=

Rs 851.49

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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			10.10
2	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
3	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			24.30

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
4	1.10	(I)	Haulage BY TRUCK 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 Truck 10 t capacity Haulage with load	hour	0.40	934.30	373.72
			Empty return trip	hour	0.29	934.30	270.95
		b)	Overheads @ 12%				77.36
		c)	Contractor's profit @ 10% on (a+b)				72.20
			Cost for 100 t-km = a+b+c				794.23
			Rate per cum = (a+b+c) / 100				7.94
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	hour	0.50	934.30	467.15
			Empty return trip	hour	0.33	934.30	308.32
		b)	Overheads @ 12%				93.06
		c)	Contractor's profit @ 10% on (a+b)				86.85
			Cost for 100 t-km = a+b+c				955.38
			Rate per cum = (a+b+c) / 100				9.55
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	hour	1.00	934.30	934.30
			Empty return trip	hour	0.67	934.30	625.98
		b)	Overheads @ 12%				187.23
		c)	Contractor's profit @ 10% on (a+b)				174.75
			Cost for 100 t-km = a+b+c				1922.27
			Rate per cum = (a+b+c) / 100				19.22
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				
					1 Min		
					13 Min		
					2 Min		
					4 Min		
					20 Min		

Analysis of Rates (FORMAT F8)

SL No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			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	390.39 462.99
			c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c				102.41 95.58
			Rate per cum = (a+b+c) / 5.5				1051.36
			Unloading will be by tipping.				191.16
8	1.20	RCD	Loading and Unloading of Boulders by Manual Means Unit = cum Taking output = 5.5 cum			say	191.20
			a) Labour Mate Mazdoor for loading and unloading	day day	0.11 0.75	321.00 304.00	35.31 228.00
			b) Machinery 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				138.07 128.86
			Rate per cum = (a+b+c+d) / 5.5				1417.49
			Unloading will be by tipping.				257.73
9	1.30	RCD	Loading and Unloading of Cement or Steel by Manual Means and Unit = tonne Taking output = 10 tonnes			say	257.73
			a) Labour Mate Mazdoor for loading and unloading	day day	0.08 2.00	321.00 304.00	25.68 608.00
			b) Machinery 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				300.27 280.26
			Rate per tonnes = (a+b+c+d) / 10				3082.81
							308.28
10	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			say	308.30
			a) Labour Mate Mazdoor (Unskilled)	day day	0.02 0.50	321.00 304.00	6.42 152.00
			b) Machinery Truck	hour	0.50	934.30	467.15
			c) Overheads @ 12%				75.07
			d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d				70.06
			Rate per cum = (a+b+c+d) / 5.5				770.70
			Total Cost	Cum			140.13
11		(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				140.13
			a) Labour Mate Mazdoor (Unskilled)	day day	0.01 0.25	321.00 304.00	3.21 76.00
			b) Machinery Truck	hour	0.25	934.30	233.58
			c) Overheads @ 12%				37.53
			d) Contractor's profit @ 10% on (a+b+c) Cost for 5.5 cum = a+b+c+d				35.03
			Rate per cum = (a+b+c+d) / 5.5				385.35
			Total Cost	Cum			70.06
12		(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				

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			Unit = cum Taking output = 5.5 cum				
		a)	Labour				
			Mate	day	0.01	321.00	3.21
		b)	Machinery	day	0.25	304.00	76.00
			Truck	hour	0.25	934.30	233.58
		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
			Total Cost	Cum			70.06
			Total Loding & Unloading of Stone Aggregate	Cum	= 140.13 + 70.06 =		210.19
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	1.61
			Mazdoor (Unskilled)	day	0.13	304.00	38.00
		b)	Machinery	hour	0.17	934.30	155.09
		c)	Overheads @ 12%				23.36
		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	Cum			43.61
			Total Loding & Unloading of Sand / Moorum	Cum	= 70.06 + 43.61 =		113.67
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	hour	0.33	934.30	308.32
		c)	Overheads @ 12%				46.50
		d)	Contractor's profit @ 10% on (a+b+c)				43.40
			Cost for 2000 Nos. = a+b+c+d				477.44
			Rate for 1000 bricks = (a+b+c+d)/2				238.72
			Total Cost	no.			238.72
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	hour	0.33	934.30	308.32
		c)	Overheads @ 12%				46.50
		d)	Contractor's profit @ 10% on (a+b+c)				43.40
			Cost for 2000 Nos. = a+b+c+d				477.44
			Rate for 1000 bricks = (a+b+c+d)/2				238.72
			Total Cost	no.			238.72
			Total Loding & Unloading of Brick Per 1000		= 238.72 + 238.72 =		477.44

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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 Mazdoor (Unskilled)	day	0.06	321.00	19.26
		b)	Machinery Truck	day	1.50	304.00	456.00
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d				169.15 157.87
			Rate per tonnes = (a+b+c+d)/10				1736.58 173.66
			Total Cost including	t			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)	day	0.06	321.00	19.26
		b)	Machinery Truck	day	1.50	304.00	456.00
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d				169.15 157.87
			Rate per tonne = (a+b+c+d)/10				1736.58 173.66
			Total Cost	t			173.66
			Total Loding & Unloading of Cement	t			347.32
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 Mazdoor (Unskilled)	day	0.07	321.00	22.47
		b)	Machinery Truck	day	1.80	304.00	547.20
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d				180.48 168.44
			Rate per tonnes = (a+b+c+d)/10				1852.89 185.29
			Total Cost	t			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)	day	0.07	321.00	22.47
		b)	Machinery Truck	day	1.80	304.00	547.20
		c)	Overheads @ 12%	hour	1.00	934.30	934.30
		d)	Contractor's profit @ 10% on (a+b+c) Cost for 10 t = a+b+c+d				180.48 168.44
			Rate per t = (a+b+c+d)/10				1852.89 185.29
			Total Cost	t			185.29
			Total Loding & Unloading of Steel	t			370.58

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
20	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 Mate				
			Mazdoor (Unskilled)	day	0.06	321.00	19.26
		b)	Machinery Truck	day	1.60	304.00	486.40
		c)	Overheads @ 12%				1167.88
		d)	Contractor's profit @ 10% on (a+b+c)	hour	1.25	934.30	200.82
			Cost for 10 t = a+b+c+d				187.44
			Rate per tonnes = (a+b+c+d)/10				2061.80
			Total Cost	t			206.18
21		(ii)	Unloading of Bitumen Drums by Manual Means Unloading of Bitumen Drums by manual means including a lead upto 30 m Unit = t Taking output = 10 t				
		a)	Labour Mate				
			Mazdoor (Unskilled)	day	0.05	321.00	16.05
		b)	Machinery Truck	day	1.20	304.00	364.80
		c)	Overheads @ 12%	hour	1.25	934.30	1167.88
		d)	Contractor's profit @ 10% on (a+b+c)				185.85
			Cost for 10 t = a+b+c+d				173.46
			Rate per t = (a+b+c+d)/10				1908.03
			Note :- The rate is inclusive of the self weight of drum				190.80
			Total Cost	t			190.80
			Total Loading & Unloading of Bitumen Drums	t			396.98
22	1.9	(I)	Loading and Unloading of Hume Pipes 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 Mate	day	0.02	321.00	6.42
			Mazdoor (Unskilled)	day	0.50	304.00	152.00
		b)	Machinery Truck	hour	0.33	934.30	308.32
			Crane	hour	0.33	909.00	299.97
		c)	Overheads @ 12%				92.01
		d)	Contractor's profit @ 10% on (a+b+c)				85.87
			Cost for 9 pipes = a+b+c+d				944.59
			Rate per pipe = (a+b+c+d)/9				104.95
			Total Cost	per p			104.95
23		C.	600/450 mm dia Hume pipe Unit = per pipe Taking output = 21 pipe				
		a)	Labour Mate	day	0.02	321.00	6.42
			Mazdoor (Unskilled)	day	0.50	304.00	152.00
		b)	Machinery Truck	hour	0.33	934.30	308.32
			Crane	hour	0.33	909.00	299.97
		c)	Overheads @ 12%				92.01
		d)	Contractor's profit @ 10% on (a+b+c)				85.87
			Cost for 21 pipes = a+b+c+d				944.59
			Rate per pipe = (a+b+c+d)/21				44.98
			Total Cost	per p			44.98
24		(II)	Unloading of RCC Hume pipe by mechanical means 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				

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		a)	Labour				
			Mate				
		b)	Machinery				
			Truck	day	0.02	321.00	6.42
			Crane	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 9 pipes = a+b+c+d	hour	0.20	909.00	181.80
			Rate per pipe = (a+b+c+d)/9				63.25
							59.03
							649.36
							72.15
			Total Loding & Unloading of RCC Hume Pipe per p				72.15
			Total Loding & Unloading of RCC Hume Pipe per Pipe = 104.95 + 72.15 =				177.10
				m			70.84
25		C.	600/450 mm dia Hume pipe				
			Unit = per pipe				
			Taking output = 21 pipes				
		a)	Labour				
			Mate				
		b)	Machinery				
			Truck	day	0.02	321.00	6.42
			Crane	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 Loding & Unloading of RCC Hume Pipe per p				30.92
			Total Loding & Unloading of RCC Hume Pipe per Pipe = 44.98 + 30.92 =				75.90
				m			30.36
26	OLD 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.				
	8.1.3.2 (III)		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
			Total Cost	CUM			1,868.70
32	3.40	302 (A)	Construction of Embankment with Material Obtained from Borrow Pits				
			Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 1000 m</u> as per Technical Specification Clause 301.5				
			Unit = cum				
			Taking output = 100 cum				
		a)	Labour	day	0.04	321.00	12.84
			Mate	day	1.00	304.00	304.00
		b)	Machinery				
			Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	2702.00	4512.34
			Tipper 5.5 cum with 10 t capacity	hour	4.50	1183.00	5323.50
			Add 10 % of the cost of carriage by tipper				532.35
		c)	Material	kl	12.00	40.00	480.00
			Water	cum	100.00	34.82	3482.00
			Compensation for earth taken from private land				2361.00
		d)	Overheads @ 12%				

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		e)	Contractor's profit @ 10% on (a+b+c+d) Cost for 100 cum = a+b+c+d+e				2203.60
			Rate per cum = (a+b+c+d+e)/100=				24239.58
			Total Cost	CUM			242.40
35	4.10	401	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.				242.40
		(ii)	For Grading II Material Unit = cum Taking output = 300 cum				
		a)	Labour				
			Mate				
			Mazdoor (Skilled)	day	0.48	321.00	154.08
			Mazdoor (Unskilled)	day	2.00	385.00	770.00
		b)	Machinery	day	10.00	304.00	3040.00
			Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	12.00	573.20	6878.40
			Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	803.00	24090.00
			Tractor with Rotavator 25 cum per hour	hour	12.00	629.00	7548.00
			Water tanker 6 kl capacity	hour	5.00	907.00	4535.00
		c)	Material				
			Well graded granular sub-base material as per Table 400.1				
			26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	595.36	80016.38
			9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	506.92	48664.32
			2.36 mm below @ 40 per cent - Local Sand	cum	153.60	141.85	21788.16
			Water	kl	30.00	40.00	1200.00
		d)	Overheads @ 12%				23842.12
		e)	Contractor's profit @ 10% on (a+b+c+d)				22252.65
			Cost of GSB for 300 cum				244779.11
			A) Cost of GSB without carriage per cum	cum			815.93
		f)	CARRIAGE				
			Carriage for GSB material	Cum	0.768	1832.58	1407.42
			Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	185.01	94.73
			Rate per cum with carriage				2318.08
			Total Cost	CUM			2318.08
46	9.30	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row				
(I)			Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
		A.	600 MM DIA				
			Unit =m				
			Taking output =7.5 m (3 pipes of 2.5 m length each)				
		a)	Material	cum	0.02	185.01	4.44
		i)	Sand at site	ton	0.02	5118.72	92.14
		ii)	Cement at site	m	7.50	2431.83	18238.73
		iii)	RCC pipe NP 4 pipe including collar at site				
		b)	Labour	day	0.04	321.00	12.84
			Mate	day	0.12	408.00	48.96
			Mason (1st class)	day	0.96	304.00	291.84
			Mazdoor (Unskilled)				3737.79
			Overheads @ 20%				2242.67
		d)	Contractor's profit @ 10% on (a+b+c)				24669.40
			Cost for 7.5m = (a+b+c)				3289.25
			Rate per m =(a+b+c)/7.5				3289.25
			Total Cost	M			3289.25