



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

FDR

STATE :- BIHAR
DISTRICT :- Samastipur
BLOCK :- Mohanpur

NAME OF ROAD :- Detailed Estimate For Repair of Flood
Damaged in PWD Road To Sarai Madhopur

TOTAL COST OF CONSTRUCTION :- Rs. 6.165 Laes

TOTAL COST OF PROJECT :- Rs. 6.165 Lacs

Gross check Amount — 6,16,452=00

SUBMITTED BY:

EXECUTIVE ENGINEER
RWD (W) DIVISION, PATORI
SAMASTIPUR

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Mohanpur

District:--Samastipur

Name of Road:--

**Detailed Estimate For Repair of Flood Damaged in PWD Road
To Sarai Madhopur**

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	6.165 Lacs
	Sub Total= (A)	6.165 Lacs
	TOTAL cost of project	6.165 Lacs

6.066 Lacs


15/10/2020
Junior Engineer
RWD (w)Section ,
Mohanpur


15/10/20
Asstt. Engineer
RWD (w)Sub Division , Mohanpur


15.10.20
Executive Engineer
RWD (w) Division, Patori

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SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Detailed Estimate For Repair of Flood Damaged in PWD Road To
Sarai Madhopur

DISTRICT
BLOCK

Samastipur
Mohanpur

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
		2.959
1	BRICK BAT	1.377 1.464
2	GSB GRADE II	0.981
3	WBM GRADE III	5.317 5.404
	SUB TOTAL OF PAVEMENT COST IN LACS =	5.317 5.404
	Sub Total :-	0.638 5.404
	12% GST on Total Amount :-	0.053 0.648
	1% Lab Cess :-	0.054 0.054
	Seigniorage Fee @ 10%	0.058 0.058
	Total Constriction Cost (including GSt and Labour Cess) (A) :-	6.165
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess)(A+B+C) :-	6.165

15/10/2020
Junior Engineer

RWD (w)Section , Mohanpur

15/10/20
Assistant Engineer

RWD (w)Sub Division , Mohanpur

15/10/20
Executive Engineer
RWD (w)
Division, Patori

Total — 5.317 Lacs
Add GST 12% — 0.638 Lacs
L. Cess 1% — 0.053 Lacs
10% Seigniorage fee — 0.058 Lacs
Total — 6.066 Lacs

Tech in Charge Approved Rs 6.066 Lacs Say Six Lacs Six
thousand Six Hundred Only.

02-02-2021

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2/2/21

Cost Estimate for Road Work

Sl. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
SUB HEAD : Embankment											
Brick Bats											
1			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
			Damaged Strech	cum	1.00	40.0	3.750	0.450	67.50		
			Damaged Side Strech	cum	1.00	20.0	1.000	0.300	6.00		
			Damaged Side Strech	cum	1.00	25.0	1.125	0.450	12.66		
			Damaged Side Strech	cum	1.00	80.0	1.400	0.600	67.20		
			Damaged Side Strech	cum	1.00	35.0	1.250	0.300	13.13		
			Damaged Side Strech	cum	1.00	28.0	1.150	0.300	9.66	1,680.02	2,95,920.82
									176.14		
B) SUB TOTAL OF CRUST =											2,95,920.82
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS											
2	4.1 (A)	401 (ii)	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 tractor mounted grader arrangement 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.								
			Damaged Portion 1	Cum	1.00	40.0	4.050	0.175	28.35		
			Damaged Portion 2	Cum	1.00	20.0	1.000	0.175	3.50		
			Damaged Portion 3	Cum	1.00	25.0	1.125	0.175	4.92		
			Damaged Portion 4	Cum	1.00	80.0	1.400	0.175	19.60		
			Damaged Portion 5	Cum	1.00	35.0	1.250	0.175	7.66		
			Damaged Portion 6	Cum	1.00	28.0	1.150	0.175	5.64		
									69.66	2,101.05	1,46,359.00
Net GSB Qty. Required form Grading II Material											1,37,703.00

Cost Estimate for Road Work

Sl. No.	SDB SL. NO	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
3	4.7 (3-A)	405	WBM Grading 3 (By Mechanical Means) Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.								
			Damaged Portion 1	Cum	1.00	40.0	3.750	0.075	11.25		
			Damaged Portion 2	Cum	1.00	20.0	1.100	0.075	1.65		
			Damaged Portion 3	Cum	1.00	25.0	1.200	0.075	2.25		
			Damaged Portion 4	Cum	1.00	80.0	1.450	0.075	8.70		
			Damaged Portion 5	Cum	1.00	35.0	1.350	0.075	3.54		
			Damaged Portion 6	Cum	1.00	28.0	1.150	0.075	2.42		
			Net WBM -3 Qty						29.81	3,290.39	98,086.53
C) SUB TOTAL OF CRUST =											2,44,445.53
TOTAL COST OF PAVEMENT IN RS. =											5,40,366.35

5,31,710=00


 Executive Engineer
 RWD (w) Division, Patori


 Assistant Engineer
 RWD (w) Sub Division , Mohanpur


 15/10/2020
 Junior Engineer
 RWD (w) Section , Mohanpur

Sl. No.	SDB SI. NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
PAVEMENT LAYERS - GSB, WBM-II & WBM-III										
1	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1)							
			(By mix in place method)							
		(i)	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 (Local Sand)							
			Unit = cum							
			Taking output = 300 cum							
		a)	Material							
			Well graded granular sub-base material as per Table 400.1	cum	134	657.85	88,151.900			
			26.5 mm to 9.5 mm @ 35%	cum	96	514.58	49,399.680			
			9.5 mm to 2.36 mm @ 25%	cum	153	141.85	21,703.050			
			2.36 mm below @ 40% (Local sand)				1,59,254.63			
			Cost for 300 cum = a				530.85			
			Rate Per Cum = (a)/300=	Cum			530.85	69.66	36,978.93	3,697.89
			Total Cost =	Cum						

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Analysis for Carriage by Road & Rail
Detailed Estimate For Repair of Flood Damaged in PWD Road To Sarai Madhopur
Block :- Mohanpur

Name of Road:-
District:-

Samastipur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km				Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha					
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.60 \times 53.00 \text{ Km} = \text{Rs } 702.05$	$\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$			83.64	952.23	Rs. 1737.92
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 53.00 \text{ Km} = \text{Rs } 645.77$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$			83.64	896.90	Rs. 1626.32
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 53.00 \text{ Km} = \text{Rs } 645.77$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$			83.64	896.90	Rs. 1626.32
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 7.60 \times 53.00 \text{ Km} = \text{Rs } 645.77$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$			83.64	1282.63	Rs. 2012.05
5	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.60 \times 53.00 \text{ Km} = \text{Rs } 671.33$	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$			83.64	922.04	Rs. 1677.01
6	Course Sand	Cum	Kuil	$\frac{8.00}{4.99} \times 6.83 \times 108.00 \text{ Km} = \text{Rs } 1182.59$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$			96.53		Rs. 1279.12
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 6.83 \times 2.00 \text{ Km} = \text{Rs } 21.90$	$\frac{8.00}{4.99} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 26.52$			96.53		Rs. 144.95
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$			406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

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Analysis for Carriage by Road
Detailed Estimate For Repair of Flood Damaged in PWD Road To Sarai Madhopur
Block :- Mohanpur

Name of Road:-
 District:-

Samastipur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha				
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	$\frac{8.00}{4.59} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 2159.13$	$\frac{8.00}{4.59} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2242.77
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 1986.05$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2069.69
3	Stone Aggregate / Chips	Cum	Sheikhpura	$\frac{8.00}{4.99} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 1986.05$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2069.69
4	Stone Aggregate / Chips	Cum	Mirzachowki	$\frac{8.00}{4.99} \times 7.60 \times 208.00 \text{ Km} = \text{Rs } 2534.35$	$\frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2617.99
5	Stone Boulder	Cum	Sheikhpura	$\frac{8.00}{4.80} \times 7.60 \times 163.00 \text{ Km} = \text{Rs } 2064.67$	$\frac{8.00}{4.80} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$		83.64		Rs. 2148.31
6	Course Sand	Cum	Kuil	$\frac{8.00}{4.99} \times 6.83 \times 108.00 \text{ Km} = \text{Rs } 1182.59$	$\frac{8.00}{4.99} \times 16.54 \times 0.00 \text{ Km} = \text{Rs } 0.00$		96.53		Rs. 1279.12
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 6.83 \times 2.00 \text{ Km} = \text{Rs } 21.90$	$\frac{8.00}{4.99} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 26.52$		96.53		Rs. 144.95
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 6.83 \times 7.00 \text{ Km} = \text{Rs } 191.24$	$\frac{8.00}{2.00} \times 16.54 \times 1.00 \text{ Km} = \text{Rs } 66.16$		406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tinner	Per Ton. Km by Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

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15/10/20

FDR
YEAR (2020 - 2021)

Analysis for Carriage by Road & Rail

Name of Road:--

Detailed Estimate For Repair of Flood Damaged in PWD Road To Sarai Madhopur

Block :-

Mohanpur

0.190 KM.

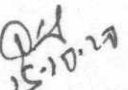
District:-

Samastipur

Sl No	Item	Unit	Carriage Cost By Road (Per cum)	Carriage Cost By Road & Rail (Per cum)	Minimum Carriage Cost (Adopted in DPR)
1	Stone Metal Gr-I & Gr-II	Cum	2242.77	1737.92	1737.92
2	Stone Metal Gr-III / GSB	Cum	2069.69	1626.32	1626.32
3	Stone Aggregate / Chips (seikhpura)	Cum	2069.69	1626.32	1626.32
4	Stone Aggregate / Chips	Cum	2617.99	2012.05	2012.05
5	Stone Boulder	Cum	2148.31	1677.01	1677.01
6	Course Sand	Cum	1279.12	1279.12	1279.12
7	Local Sand	Cum	144.95	144.95	144.95
8	Brick	1000 Nos	663.50	663.50	663.50
9	Cement	MT	617.16	617.16	617.16
10	Steel	MT	617.16	617.16	617.16
11	Bitumen Emulsion (Ulberia)	MT	978.35	978.35	978.35
12	Bitumine (Barauni)	MT	848.58	848.58	848.58
13	Hume Pipe (1000 mm)	Pipe	353.75	353.75	353.75


15/10/2020
Junior Engineer
RWD (w) Division, Patori


15/10/20
Asstt. Engineer
RWD (w) Division, Patori


15.10.20
Executive Engineer
RWD (w) Division, Patori

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
$\frac{8.00}{4.59}$	x 7.60 x 2.00 Km	= Rs 26.49	+	$\frac{8.00}{4.59}$	x 18.50 x 0.00 Km	= Rs 0.00	+	Rs 83.64 =
								Rs 110.13
	UnSurface	$\frac{8.00}{4.59}$	x 9.20 x 1.00 Km					Rs 16.03
Total "A"								Rs 126.16

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wagon	= For 1 cum	= Rs 118.86	=	Rs 118.86
	Total =	For 1 cum	"B"	Rs 118.86
iii) Railway freight charge from Sheikhpura Railway	= For 1 MT 122.00 Km	= Rs 231.30	=	Rs 231.30
Busy Season charge 12% of Railway freight charge	= For 1 MT	= 12%	=	Rs 27.76
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
	= For 1 MT		=	Rs 350.63
	For 1 cum	"C"	=	Rs 611.11
	Add 6% Overhead Charge	= 6.0%	=	Rs 36.67
	Add 10% Contractor Profit	= 10%	=	Rs 0.00
	Total Railway Freight for 1 cum	"C"		Rs 647.78
Cost for Stacking the Materials from Unloading dump upto lead 30 m.	Total "D" =	For 1 cum	= Rs 59.43	= Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	= For 1 Cum	A+B+C+D	=	Rs 952.23

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Metal Gr-III & GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

	Pucka / Surface	Carriage Cost & Lead in Km	Katcha	Loading & Unloading	Total
	$\frac{8.00}{4.99} \times 7.60 \times 2.00 \text{ Km}$	$= \text{Rs } 24.37 + \frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km}$	$= \text{Rs } 0.00 + \text{Rs } 83.64$	$=$	Rs 108.01
	UnSurface	$\frac{8.00}{4.99} \times 9.20 \times 1.00 \text{ Km}$		$=$	Rs 14.75
				Total "A"	Rs 122.76

Sheikhpura Railway Yard to Karpoorigram Railway Yard = 122.00 Km

Sheikhpura Railway Yard to Karpoorigram									
i) Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum		=	Rs 118.86	=			Rs 118.86
Total		=	For 1 cum		"B"	=			Rs 118.86
ii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT	122.00 Km	=	Rs 231.30	=			Rs 231.30
Busy Season charge 12% of railway freight charge	=	For 1 MT		=	12%	=			Rs 27.76
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
Total	=	For 1 MT				=			Rs 350.63
		For 1 CUM			"C"	=			Rs 562.13
		Add 6% Overhead Charge		=	6.0%	=			Rs 33.73
		Add 10% Contractor Profit		=	10%	=			Rs 0.00
		Total Railway Freight for 1 cum			"C"				Rs 595.85
Cost for Stacking the Materials from Unloading dump upto lead 30 m.									
Total "D"	=	For 1 cum		=	Rs 59.43	=			Rs 59.43

Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum		A+B+C+D	=	Rs 896.90
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Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Aggregate / Chips

Quarry Site to Sheikhpura Railway Yard (By Road)

Quarry Site to Sheikhpura Railway Station										Loading & Unloading		Total		
Carriage Cost & Lead in Km														
Pukka / Surface										Katcha				
$\frac{8.00}{4.99} \times 7.60 \times 2.00 \text{ Km} = \text{Rs } 24.37 + \frac{8.00}{4.99} \times 18.50 \times 0.00 \text{ Km} = \text{Rs } 0.00$										+ Rs 83.64		=		Rs 108.01
UnSurface										$\frac{8.00}{4.99} \times 9.20 \times 1.00 \text{ Km}$		=		Rs 14.75
										Total "A"		=		Rs 122.76

Sheikhpura	Railway Yard to Karpoorigram	Railway Yard = 122.00 Km						
i)	Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86	
	Total	=	For 1 Cum		"B"	=	Rs 118.86	
iii)	Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT 122.00 Km	=	Rs 231.30	=	Rs 231.30	
	Busy Season charge 12% of Railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76	
	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	
	Total	=	For 1 MT			=	Rs 350.63	
			For 1 CUM		"C"	=	Rs 562.13	
	Add 6% Overhead Charge				6%		Rs 33.73	
	Add 10% Contractor Profit	=			10%	=	Rs 0.00	
	Total Railway Freight for 1 cum				"C"	=	Rs 595.85	
Cost for Stacking the Materials from Unloading dump upto lead 30 m.								
	Total "D"	=	For 1 CUM	=	Rs 59.43	=	Rs 59.43	
Carriage Cost from Quarry to Karpoorigram Railway Yard		=	For 1 Cum		A+B+C+D	=	Rs 896.90	

Material -Stone Aggregate / Chips

Quarry Site to Mni Zachowia Railway										Loading & Unloading		Total							
Carriage Cost & Lead in Km																			
Pucka / Surface										Katcha									
8.00 4.99	x	7.60	x	2.00 Km	=	Rs 24.37	+	8.00 4.99	x	18.50	x	0.00 Km	=	Rs 0.00	+	Rs 83.64	=	Rs 108.01	
UnSurface																			Rs 14.75
																			Rs 122.76
										Total "A"		=						Rs 122.76	

Railway Yard = 230,00 Km

Mirzachowki Railway Yard to Karpoorigram		Railway Freight		Total	
i) Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	= Rs 118.86
Total	=	For 1 Cum	=	"B"	= Rs 118.86
iii) Railway freight charge from Mirzachowki Railway station to Karpoorigram Railway station	=	For 1 MT 230.00 Km	=	Rs 425.30	= Rs 425.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT	=	12%	= Rs 51.04
Railway Development Charge to 5% of Railway Fright 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
Total	=	For 1 MT	=		= Rs 577.61
	=	For 1 CUM	=	"C"	= Rs 926.02
	=	Add 6% Overhead Charge	=	6.0%	= Rs 55.56
	=	Add 10% Contractor Profit	=	10%	= Rs 0.00
	=	Total Railway Freight for 1 cum	=	"C"	= Rs 981.58
Cost for Stacking the Materials from Unloading dump upto lead 30 m.	=		=		=
Total "D"	=	For 1 CUM	=	Rs 59.43	= Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum	=	A+B+C+D	= Rs 1282.63

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

		Carriage Cost & Lead in Km		Katcha		Loading & Unloading		Total
Pucka / Surface								
8.00 4.80	x 7.60 x 2.00 Km	= Rs 25.33	+ 0.00 4.80	x 18.50	x 0.00 Km	= Rs 0.00	+ Rs 83.64	= Rs 108.98
UnSurface								
			0.00 4.80	x 9.20	x 1.00 Km			= Rs 15.33
Total "A"								= Rs 124.31

Sheikhpura	Railway Yard to Karpoorigram	Railway Yard = 122.00 Km						
i)	Loading Cost from Railway Yard to Railway Wagon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86	
	Total	=	For 1 CUM		"B"	=	Rs 118.86	
iii)	Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT 122.00 Km	=	Rs 231.30	=	Rs 231.30	
	Busy Season charge 12% of Railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76	
	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	
	Total	=	For 1 MT			=	Rs 350.63	
			For 1 CUM		"C"	=	Rs 584.38	
	Add 6% Overhead Charge	=		=	6.0%	=	Rs 35.06	
	Add 10% Contractor Profit	=		=	10.0%	=	Rs 0.00	
	Total Railway Freight for 1 cum				"C"	=	Rs 619.44	
	Cost for Stacking the Materials from Unloading dump upto lead 30 m.							
	Total "D"	=	For 1 CUM	=	Rs 59.43	=	Rs 59.43	
	Carriage Cost from Quarry to Karpoorigram Railway Yard	=	For 1 Cum	=	=A+B+C+D	=	Rs 922.04	

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 Empty return trip b) Overheads @ 6 % on (a) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b Rate per cum = (a+b) /100	hour hour	0.40 0.29	1043.00 1043.00	417.20 302.47 43.18 0.00 762.85 7.63 7.60
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 Empty return trip b) Overheads @ 6 % on (a) Contractor's profit @ 10% on (a+b) Cost for 100 t-km = a+b Rate per cum = (a+b) /100	hour hour	0.50 0.33	1043.00 1043.00	521.50 344.19 51.94 0.00 917.63 9.18 9.20
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 Empty return trip b) Overheads @ 6 % on (a) (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	1043.00 1043.00	1043.00 698.81 104.51 0.00 1846.32 18.46 18.50

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
Haulage BY TRUCK							
4	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 Truck 10 t capacity Haulage with load	hour	0.40	934.30	373.72
			Empty return trip	hour	0.29	934.30	270.95
							38.68
		b)	Overheads @ 6 % on (a)				0.00
		c)	Contractor's profit @ 10% on (a+b)				683.35
			Cost for 100 t-km = a+b+c				6.83
			Rate per cum = (a+b+c) /100				6.83
			Rate Per Km.	Cum			
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
							46.53
		b)	Overheads @ 6 % on (a)				0.00
		c)	Contractor's profit @ 10% on (a+b)				822.00
			Cost for 100 t-km = a+b+c				8.22
			Rate per cum = (a+b+c) /100				8.22
			Rate Per Km.	Cum			
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
							93.62
		b)	Overheads @ 6 % on (a)				0.00
		c)	Contractor's profit @ 10% on (a+b)				1653.90
			Cost for 100 t-km = a+b+c				16.54
			Rate per cum = (a+b+c) /100				16.54
			Rate Per Km.	Cum			

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
7	1.1	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 <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Time required for i) Positioning of tipper at loading point 13 Min ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour 2 Min iii) Maneuvering, reversing, dumping and turning for return 4 Min iv) Waiting time, unforeseen contingencies etc 20 Min Total a) Machinery Tipper 5.5 tonnes capacity Front end-loader 1 cum bucket capacity @ 25 cum/hour (b) Overheads @ 6 % on (a) (c) Contractor's profit @ 10% on (a+b) Cost for 5.5 cum = a+b+c Rate per cum = (a+b+c) / 5.5	hour hour	0.330 0.330	1043.00 1403.00	344.19 462.99 48.43 0.00 855.61 155.57
say							156.00
Unloading will be by tipping.							
8	1.2		Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means i Loading 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 Placing tipper at loading point, loading with front end loader excluding time for haulage and return trip. <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Time required for i Positioning of tipper at loading point Min 1.000 ii Loading by front end loader 1 cum bucket capacity @ 45 cum per hour Min 7.330 iii Waiting time, unforeseen contingencies, etc. Min 2.000 Total Min 10.330 a) Machinery Tipper 10 t capacity Front end-loader 1 cum bucket capacity @ 45 cum per hour b) Overheads @ 6.0 % c) Contractors Profit @ 10.0 % Cost for 5.5 cum = a+b+c Rate per cum = (a+b)/5.5 Unloading of Earth, Sand, Lime, Moorum, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Manure, Crushed Slag, Flyash, Stone for Masonry Work by mechanical means. <i>Unit = cum</i> <i>Taking output = 5.5 cum</i> Placing tipper at unloading point excluding time for haulage and return trip Time required for i Positioning of tipper at loading point Min 1.000 ii Manoeuvring, reversing, dumping and turning for return Min 2.000 iii Waiting time, unforeseen contingencies, etc. Min 2.000 Total Min 5.000 a) Machinery Tipper 10 t capacity Overheads @ 6 % on (a) Contractors Profit @ 10.0 % on (b) Cost for 5.5 cum = a+b Rate per cum = (a+b)/5.5	Min Min Min hour hour Min Min Min Min hour	1.000 7.330 2.000 10.330 0.172 0.122 0.080	1043.00 1403.00	179.40 171.17 21.03 - 371.60 67.56 83.44 5.01 0.00 88.45 16.08
Total loading and unloading by mechanical means							83.64

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
8	1.2	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 c) Overheads @ 6 % on (a+b) (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	0.110 0.750 0.750	305.00 287.00 1043.00	33.55 215.25 782.25 61.86 0.00 1092.91 198.71 say 199.00
			Unloading will be by tipping.				
9	1.3	RCD	Loading and Unloading of Cement or Steel by Manual Means Unit = tonne Taking output = 10 tonnes a) Labour Mate Mazdoor for loading and unloading b) Machinery Truck 10 tonne capacity c) Overheads 6 % on (a+b) (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	0.080 2.000 2.000	305.00 287.00 934.30	24.40 574.00 1868.60 148.02 0.00 2615.02 261.50 say 262.00
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 a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads 6 % on (a+b) 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	305.00 287.00 934.30	6.10 143.50 467.15 37.01 0.00 653.76 118.86 118.86
			Total Cost	Cum			118.86
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 a) Labour Mate Mazdoor (Unskilled) b) Machinery Truck c) Overheads 6 % on (a+b) 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	305.00 287.00 934.30	3.05 71.75 233.58 18.50 0.00 326.88 59.43 59.43
			Total Cost	Cum			59.43

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
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 Unit = cum Taking output = 5.5 cum				
		a)	Labour	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.25	934.30	233.58
			Truck				18.50
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				326.88
			Cost for 5.5 cum = a+b+c+d				59.43
			Rate per cum = (a+b+c+d) / 5.5				59.43
			Total Cost	Cum			59.43
			Total Loding & Unloading of Stone Aggregate	Cum	= 118.86 + 59.43 =		178.29
13		(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				
		a)	Labour	day	0.01	305.00	1.53
			Mate	day	0.13	287.00	35.88
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.166	934.30	155.09
			Truck				11.55
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				204.04
			Cost for 5.5 cum = a+b+c+d				37.10
			Rate per cum = (a+b+c+d) / 5.5				37.10
			Total Cost	Cum			37.10
			Total Loding & Unloading of Sand / Moorum	Cum	= 59.43 + 37.1 =		96.53
14	1.3	(i)	Loading, Unloading and Stacking of Bricks by Manual Means Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				22.99
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				406.11
			Cost for 2000 Nos. = a+b+c+d				203.05
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			Total Cost	no.			203.05
15		(ii)	Unloading and Stacking of Bricks by manual means including a Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour	day	0.01	305.00	3.05
			Mate	day	0.25	287.00	71.75
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.33	934.30	308.32
			Truck				22.99
		c)	Overheads 6 % on (a+b)				0.00
		d)	Contractor's profit @ 10% on (a+b+c)				406.11
			Cost for 2000 Nos. = a+b+c+d				203.05
			Rate for 1000 bricks = (a+b+c+d)/2				203.05
			Total Cost	no.			203.05
			Total Loding & Unloading of Brick Per 1000		= 203.05 + 203.05 =		406.10

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			PAVEMENT CRUST LAYERS				
15	4.1 (A)	401	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement 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.				
		(ii)	For Grading II Material Unit = cum Taking output = 300 cum				
		a)	Labour				
			Mate	day	0.48	305.00	146.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	10.00	287.00	2870.00
		b)	Machinery				
			Motor Grader 110 HP @ 50 cum per hour	hour	6.00	573.20	16716.00
			Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	2786.00	24090.00
			Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
			Water tanker 6 kl capacity	hour	5.00	184.00	920.00
		c)	Material				
			Well graded granular sub-base material as per Table 400.1	cum	134.00	657.85	88151.90
			26.5 mm to 9.5 mm @ 35%	cum	96.00	514.58	49399.68
			9.5 mm to 2.36 mm @ 25%	cum	153.00	141.85	21703.05
			2.36 mm below @ 40% (Local sand)	kl	30.00	40.00	1200.00
			Water				21280.34
		d)	Overheads @ 6 % on (a+b+c)				234083.77
			Cost of GSB for 300 cum				786.28
			A) Cost of GSB without carriage per cum	cum			690.28
		f)	CARRIAGE				
			Carriage for GSB material	Cum	0.77	1626.32	1246.85
			Carriage for material below 2.36 mm (With Local Sand)	Cum	0.51	144.95	49.66
			Rate per cum with carriage			67.40	73.92
			Total Cost	CUM			2101.05

1976 = 79

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
15	4.7 (3-A)	405	Water Bound Macadam with Stone Screening Type "B" Gr- III WBM Grading 3 Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.				
		(A)	By Mechanical Means Unit = cum Taking output = 360 cum				
		a)	Labour Mate Mazdoor (Skilled) Mazdoor (Unskilled)	day day day	0.68 2.00 15.00	305.00 364.00 287.00	207.40 728.00 4305.00
		b)	Machinery Tractor Mounted grader for grading @ 100 cum per hour Three wheel 80-100 kN static roller @ 8 cum per hour Water tanker 6 kl capacity	hour hour hour	14.40 45.00 24.00	549.10 803.00 184.00	7907.04 36135.00 4416.00
		c)	Material (Refer Tables 400.7, 8, 9 and 10) Aggregate Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for compacted thickness of 75 mm Stone Screening Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm Water	cum cum kl	435.60 86.40 144	511.44 397.73 40.00	222783.26 34363.87 5760.00
		d)	Overheads @ 6 % on (a+b+c) Cost for 360 cum = a+b+c+d+e Rate per cum = (a+b+c+d+e)/360				18996.33 335601.91 932.23
		f)	CARRIAGE Stone material Grading 3 53 mm to 22.4 mm Stone Screening	Cum Cum	1.21 0.24	1626.32 1626.32	1967.85 390.32
			Rate per cum with carriage				3290.39
			Total Cost	cum			3,290.39

Construction at Road Embankment.
 Material obtained from borrow pits.
 - All compaction on P.B.
 Clause, 300.1, 300.2, with 1 end up B
 to 1000. cm. - Out put - 100.0M

Mate - 0.04 NO @ 305 = 12.20 - R 12 = 20
 Unskilled - 1.0 NO @ 287 = 287 - R 287 = 00

Machinery

113 drawnc excavate 0.9M³

2nd up 60 M³/hr - 1.67 H @ 1969 = 20 - R 3288 = 56

Tippers 5.5 cum with 10t

Capacity - 4.50 H @ 1043 = 00 R 4693 = 50

10% for Camerby
 Tippers - R 469 = 33

Doser D-50 for spread 100M³/hr - 0.50 @ 3337 = 90 R 1668 = 95

Trucks mixed Gravel - 1.04 H @ 573 = 20 - R 573 = 20

Water Tanks 6 K9 Capacity 2.0 M³ @ 184 = 00 - R 368 = 00

Three wheel Rops 80-100KN

Static Rops @ 80 M³/hr - 1.25 H - 803 = 00 R 1003 = 75

Compensation of Gravel - 100.0M³ @ 34 = 9 R 3481 = 00

Water 12.0 M³ @ 40 = 00 R 480 = 00

Add O.H.C. 6%

Rate 173 = 06/M³

Item 72 Labor for Camp 62M to 75MM
 and 3mm bed, Piles 62mm
 and making shoes and arranging etc
 - all comp. etc.

Out put - 30.5M
 Assuming 20 M³ pile 1525M deep

Labor

Carpenter Grade II - 0.25 NO @ 345 = 00 - 86 = 25

Unskilled Maxd - 2.5 NO @ 287 = 00 - 717 = 50

Add O.H.C. 6%

R 803 = 75

R 48 = 22

851 = 97

Item 73 Labor for forming and @ 28 = 40/metre.

62M to 75MM and 3mm bed running

at every vertical pile with 150MM

Camp nail @ 38 SWH 0.9 mm - all comp. etc

Out put - 30.5M

Nails 150MM by - 1.5 M³ @ 55 = 84 - 27 = 97

Carpenter Grade II - 0.25 NO @ 345 = 00 - 43 = 13

Unskilled Maxd - 0.25 NO @ 287 = 00 - 71 = 75

Add O.H.C. 6%

Here Rate - 4 = 96/Metre.

142 = 80

8 = 57

151 = 37

ANALYSIS OF RATE. BRICK BAT FILLING.

1. ~~Granular sub~~
providing brick bats including spreading, laying and packing with C.I. Hammer in layers not exceeding 75MM thick including cost of eight barriers, dangle, signal, chowkidar, taxes, Royalty, etc, all complete job, as per specifications and directions of E/S including cost of bricks, - - - all complete job.

Unit — Cum.

Assuming — 2.892 M³

Cost of brick bats — 2.892 M³ @ 1096 = 00 — Rs 3163 = 87
Mazdoor unskilled Local Sem 0.632 M³ @ 141 = 95/M³ Rs 89 = 65

Labor (unskilled)

1. Carrying, spreading, laying and packing unskilled labor 1.5 NO @ 287 = 00 — Rs 430 = 50
Compaction of brick bats with C.I. Hammer, 0.670 NO @ 287 = 00 — Rs 192 = 29
Over head charge @ 6% on (a+b+c) — Rs 228 = 98
Total — 4045 = 29

Rate / M³ — Rs 1428 = 42 / M³.

Carriage Cost

Carriage for bricks (1 M³ bat) @ 300 NO @ 663 = 50 / M³ — Rs 199 = 06
Local sand 0.220 M³ @ 97 = 00 / M³ — Rs 21 = 34
Cost of sand in the Royalty @ Rs 141 = 05 / M³ — Rs 31 = 21
Total Rs 1648 = 81.
31 = 21
Total 1680 = 02

2. Granular sub. base, with well Graded Material, Table 400.1 by Mix and Place method for grading II material all complete job.

Labels — Mate — 0.48 NO @ 305.00 — Rs 146 = 40
Mazdoor unskilled — 2.0 NO @ 364.00 — Rs 728 = 00
Mazdoor unskilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00

Machine cost

Tractor Manual Grader 6.0 Hrs @ 573 = 20 Rs 3439 = 20
Three wheel 80-100 KN static weight 30.0 Hrs @ 803 = 00 / Hrs — Rs 24090 = 00
10 M³ / Hour — Rs 6878 = 40
Tractor with rotavator 12.0 Hrs @ 573 = 20 — Rs 920 = 00
25 M³ / Hour — Rs 920 = 00
Water Tanker 6kg Capacity 5.0 Hrs @ 184 = 00 — Rs 920 = 00
Total 39072 = 00

Material

Coarse Graded Granular sub base 53MM to 9.5MM, 95% — 134.40 M³ @ 604 = 91 / M³ — Rs 80695 = 00
9.5MM to 2.36MM 25% — 96.00 M³ @ 514 = 58 / M³ — Rs 49400 = 00
2.36MM below Local sand 153.60 M³ @ 141 = 05 / M³ — Rs 21788 = 00
Water 30 KLD @ 40 = 00 / Kg — Rs 1200 = 00
Total — 1,92,155 = 00
Add over head charge 6% — Rs 11,529 = 00
Total — 2,04,084 = 00