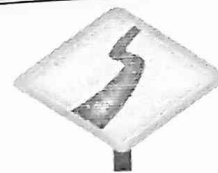




ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

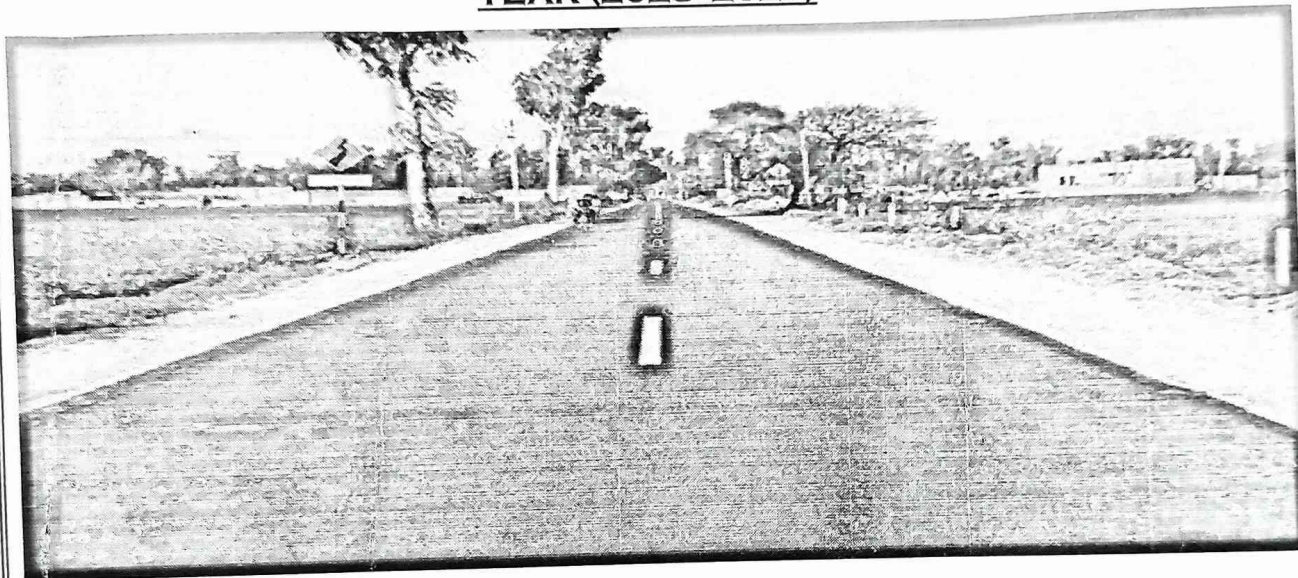


BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

DETAILED PROJECT REPORT

YEAR (2023-2024)



TEMPORARY RESTORATION (FDR)

STATE	:-	BIHAR
DISTRICT	:-	Lakhisarai
BLOCK	:-	Suryagarha
NAME OF ROAD	:-	T02 To Ghogi korasi
TOTAL LENGTH OF ROAD	:-	0.020 km
TOTAL COST OF CONSTRUCTION (Inclusive of GST & LC)	:-	Rs. 3.983 Lacs
COST OF ROAD CONSTRUCTION PER KM	:-	Rs. 199.172 Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER

RWD (W) DIVISION, LAKHISARAI

LAKHISARAI

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- RWD. (W) Div. Lakhisarai

Name of Block/Road :- T02 to Ghogi Korari

A. For Road

1. Damage Location/Chainage :- 2.4 km

2. Damage Length :- 20 m

3. Nature of Damage (Length Wise) (i) Breach :- 20 meter
(ii) Crust Damage :-
(iii) Only Flank Damage :-

whether traffic fully/Partially obstructed :- Fully obstructed

4. Details of Restoration :-

(i) Material Being Used in Restoration :- Earth, G.S.D, Hemp pipe

(ii) Equipment/Tools Being Used in Restoration Works :- J.C.D, Tractor,

(iii) Restored Length In open Area :- 20m to 20m
In habitation Area :- —

(iv) If Restoration work done in habitation Area give Reason :- —

B. For Bridge (Size of Bridge/Culvert)

(1) Damage Location/Chainage :-

(2) No. of Span Damage :-

(3) Length of Span :-

(4) Nature of Damage (Pier/Abutment/
Wing Wall/Approach Road Damage) :-

(5) Details of Restoration :-

(i) Material Being Used in Restoration :-

(ii) Equipment/Tools Being Used in Restoration Works :-

(iii) Restored Length :-

Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :-

Rajesh
R.E.
G. Kumar
Ujjwal
AB
Signature of Inspector
(Official Seal)
Executive Engineer
Rural Work, Department
Work, Div, Lakhisarai
Executive Engineer
R.W.D. (W) Division
Jamui
25/7/24

तकनीकी प्रतिवेदन


भोजना का नाम :- T-02 to Ghogi Korasi Under Temporary restoration.

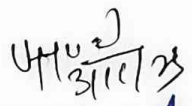
वित्तीय वर्ष :- 2023-2024

प्रतिशत :- 43.540 लाख

प्रकार :- सूर्यगढ़,

प्रस्तुत प्रारम्भिक स्मल निरीक्षण परन्तु विभागीय निर्देशानुसार तैयार किया गया है। यह पथ T-02 से खोगी कोडासी बर्मा में 3054 M.R. New सुरक्षा नीति अन्तर्गत निर्मित है तथा पंचवर्षीय सुरक्षाधीन है। अवस्था के कारण उस पथ का कचरा हो जाने के कारण आवागमन बन्द हो गया। जिससे आम जनता को परेशानी होने लगी। आवागमन तत्काल चालू करने हेतु Temporary Restoration का कार्य निर्देशानुसार कराया गया। प्रारम्भिक में Over Head and Contractor Profit से चारा दिया गया है। प्रारम्भिक की चराने तकनीकी लीहम अपेक्षा है।


31/11/23
तकनीकी अभियंता


सहायक अभियंता


31/11/23
Executive Engineer
Rural Work, Department
Work, Div, Lakhisarai

SUMMARY OF COST ESTIMATE FOR THE PROJECT

OF ROAD : T02 To Ghogi korasi
 ICT Lakhisarai
 K Suryagarha
 TH OF ROAD (in Km) 0.020
 TH OF BT PAVEMENT 20
 TH OF CC PAVEMENT 0
 TRUCTURES

No.	DESCRIPTION	AMOUNT (LAKHS)
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.000
2	EARTHWORK	2.633 2.633
3	GSB	0.402 0.473
4	CC PAVEMENT	0.000
5	ROAD FURNITURES , KM STONES , TRAFFIC & DIRECTION SIGN, PMGSY LOGO	0.106
SUB TOTAL OF PAVEMENT COST IN LACS =		3.140 3.140
6	CROSS DRAINAGE STRUCTURES	0.000
I	HUME PIPE	0.000
II	RCC	0.000
III	BOX	0.000
IV	Utility Pipe (300 mm Dia)	0.113 0.117
V	DISMANTLING OF CD	0.000
SUB TOTAL OF CD STRUCTURES COST IN LACS =		0.113 0.117
Total Constriction Cost (In Lacs) :-		3.253 3.940
GST @ 18% and Labour (In Lacs) :-		0.602 0.727
Labour Cess @ 1% (In Lacs) :-		0.033 0.039
Add Seigniorage Fee @ 10% (In Lacs) :-		0.057 0.057
Total Constriction Cost (Including GST & LC) (In Lacs) :-		3.944 4.763
Total Cost Of Contingency 1%		0.039 0.048
Total Project Cost (A+B) (In Lacs) :-		3.983 4.810

Junior Engineer

Assistant Engineer

Executive Engineer
 RWD (w) Division,
 Lakhisarai

D (w) Division, Lakhisarai

RWD (w) Division, Lakhisarai

SE

Ref. E.E. Letter No. 609 dt. 28/3/2024
 Technically Sanctioned for Rs. 3.944 lakh
 (Rupees Three lakh ninety four
 thousand four hundred only)
 for construction work & 5 Years Maintenance

Superintending Engineer
 Rural Works Department
 Works Circle, Munger

PAVEMENT COMPOSITION DETAILS

NAME OF ROAD : -- T02 To Ghogi korasi

BLOCK : -- Suryagarha

LENGTH OF ROAD :-- 0.020 Km

S.L. No.	Chainages			Total Length in Meter	Existing Pavement	Condition	Type of Pavement Proposed	Type of Existing Area
	From	-	To					
1	0	-	20	20	Earthen	Damaged	Flexible(Temporary Restoration)	
Total Length				20				
Total BT				0				
Total PCC				0				
Total Brick Soling				0				
Total Earthen				20				
Proposed Flexible Pavement					Proposed Rigid Pavement			
On BES Portion/for widening				0	On BES Portion/for widening			
On Earthen Portion				20	On Earthen Portion		0	
On BT Portion - (after Deduct Cross Drainage Length)				0	On BT Portion		0	
On PCC Portion				0	On PCC Portion		0	
Total Flexible Pavement				20	Total Rigid Pavement		0	


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0													
ESTIMATE FOR CONSTRUCTION OF ROADS													
NAME OF ROAD :			T02 To Ghogi korasi			Measurements							
Block :- Suryagarha			District :- Lakhisarai			Total Length of road-			20.00	mt.			
						Final Length			20.00	mt.			
						Length of new Proposed BT Portion			20.00	mt.			
						Length of new Proposed CC Portion			0.00	mt.			
Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)		
SUB HEAD : PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING													
1	3.14	303.1	Construction of Subgrade and Earthen Shoulders										
			Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).										
			A) For New Construction (BT ROAD)			Length =		20.0					
			i) Construction of subgrade		Cum	1.00	Avg Breadth =(5+15)/2	10.000					
						Depth =		3.500	700.00				
			A) For New Construction (BT ROAD)			Length =		20.0					
			i) Construction of subgrade		Cum	1.00	Avg Breadth =(6+15)/2	10.500					
						Depth =		2.500	525.00				
			For 1000 m lead @ 100 %					Total=	1,225.00	214.91	2,63,262.00		
									B) SUB TOTAL OF CRUST =		2,63,262.00		
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS													
2	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1)										
			(By mix in place method)										
			(i) For Grading I 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.										

Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)	
			GSB in Earthen Portion	Cum	1.00	20.00	4.050	0.200	16.20	2478.89	40155.00	
			Net GSB Qty. Required form Grading I Material						16.20	2917.17	47,258.00	
									C) SUB TOTAL OF CRUST =		40155.00 47,258.00	
			SUB HEAD : ROAD FURNITURES , KM STONES , PMGSY LOGO									42580.00
3	10.16	1700	(I)Providing and Fixing 'Logo' of Project									
			Providing and fixing of typical MMGSUY informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5m size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1									
			Providing and Fixing 'Logo' of Project As per Drawing	No.	1.00							
				Total=	1.00				1.00	10,629.62	10,630.00	
									G) SUB TOTAL OF ROAD FURNITURES =		10,630.00	
TOTAL COST OF PAVEMENT IN RS. (A+B+C+D+E+F)=											3,82,227.00	

3/11/23
JB

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SR

3/11/23
BC

316975 = 2
313988.00

Name Of Road :-			T02 To Ghogi korasi	Block :-		Suryagarha		Length Of Road :-		0.020 Km
Sl. No.	SDB Sl.NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
EARTHWORK										
1	3.14	303.1	Construction of Subgrade and Earthen Shoulders							
			Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.1.							
			Unit = cum							
			Taking output = 100 cum							
		a)	Material							
			Compensation For Earth Taken From Private Land	Cum	100	35.25	3,525.00			
			Cost for 100 cum = a				3,525.00			
			Rate Per Cum = (a)/100=	Cum			35.25			
			Total Cost =	Cum			35.25	1,225.00	43,181.25	4,318.13
PAVEMENT LAYERS - GSB ,WBM-II & WBM-III										
2	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1)							
			(By mix in place method)							
		(i)	For Grading I 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 I Material							
			Unit = cum							
			Taking output = 300 cum							

[illegible]

Estimate for Irrigation Conduit Pipe

Name of Road T02 To Ghogi korasi

Block: Suryagarha

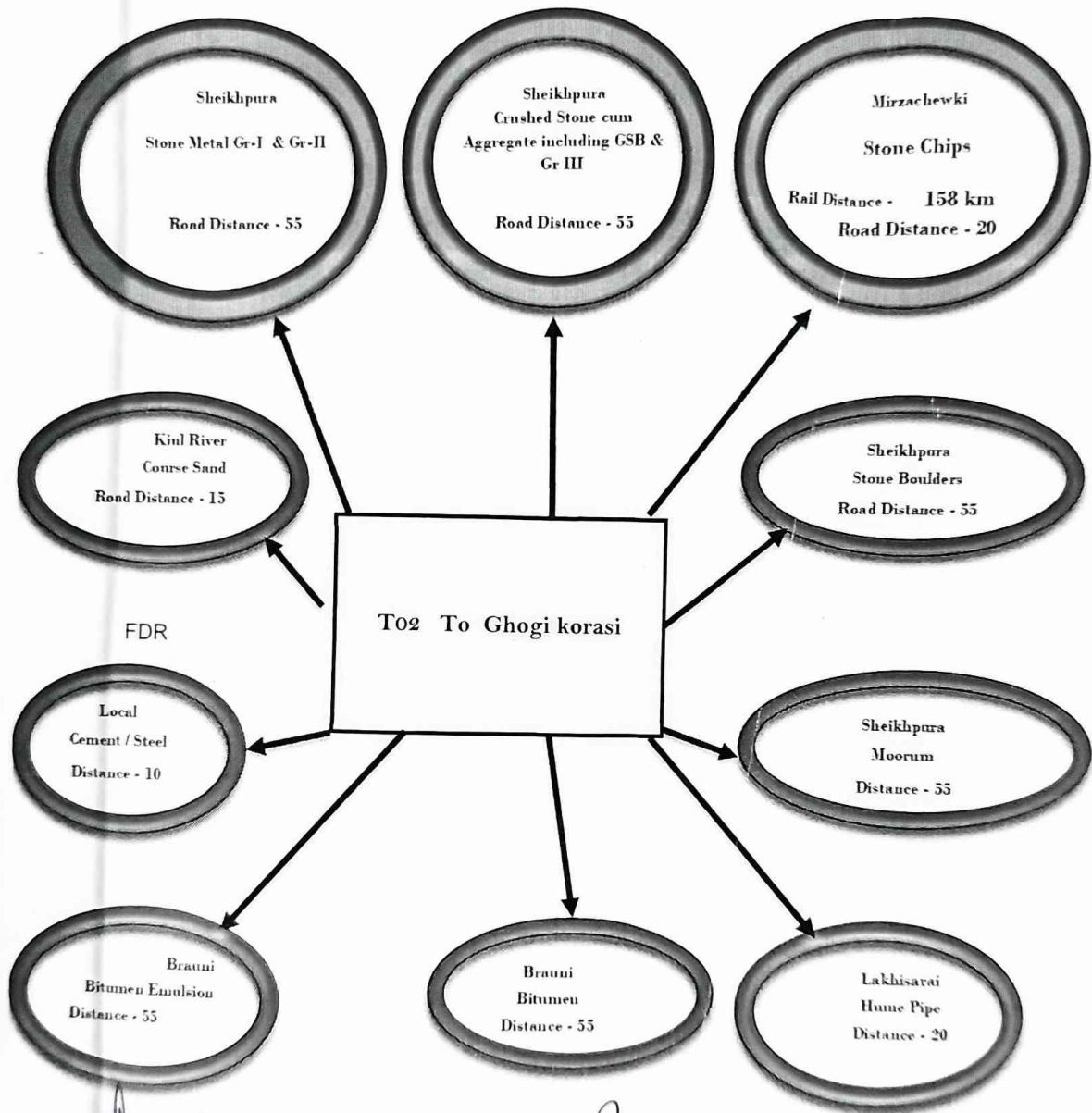
District: Lakhisarai

Sr. No.	Item No	Description of item	Qty	Unit	Rate (Rs)	Amount (Rs.)
1	2	3	8	9	10	11
1	8.29	Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:981997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings.				
		Single Row Cable Duct @ 4 no. Per Km (4 no. Pipe 10.0	10.00	RM	1,172.99	11,730.00
					Total	11,730.00

Name of Road:-
Block :-
District:-

T02 To Ghogi korasi
Suryagarha
Lakhisarai

Quarry Map



J.E
RWD (w) Division, Lakhisarai

A.E
RWD (w) Division, Lakhisarai

E.E
RWD (w) Division, Lakhisarai

Superintending Engineer
Rural Works Department
Works Circle, Munger

RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

Carriage Cost (Surfaced Road): 12.10 7.94
 Carriage Cost (Un Surfaced Road): 14.60 9.55
 Carriage Cost (Kacha Road): 29.30 19.22

NAME OF ROAD : T02 To Ghogi korasi

BLOCK : Suryagarha

DISTRICT:- Lakhisarai

S.NO.	Material	By Road/Rail	Railway Freight (Rs)	Lead Distance(Km)			Loading Unloading	Unit	Carriage Cost Per Km			Total Carriage Cost	Minimum Applicable Carriage Cost	SOURCE
				Surface Road	Unsurfaced Road	Kaccha Road			Surface Road	Unsurfaced Road	Kaccha Road			
1	Aggregate for WBM GrII & WBM Gr I	By Road		55	0	0	119.27	Cum	1159.91	0.00	0.00	1279.18	1036.24	Sheikhpura
		By Rail	1,316.44	12	0	0	119.27	Cum	253.07	0.00	0.00	1688.78	1279.18	
2	Crushed Stone cum Aggregate including GSB & GrIII	By Road		55	0	0	119.27	Cum	1066.93	0.00	0.00	1186.20	960.94	Sheikhpura
		By Rail	1,318.52	12	0	0	119.27	Cum	232.79	0.00	0.00	1670.58	1186.20	
3	Stone Chips	By Road		144	0	0	119.27	Cum	2793.43	0.00	0.00	2912.70	2066.62	Domchanch
		By Rail	1,559.37	20	0	0	119.27	Cum	387.98	0.00	0.00	2066.62	2359.25	Mirzachewki
4	Moorum	By Road		55	0	0	121.65	Cum	1070.67	0.00	0.00	1192.32	571.74	Sheikhpura
		By Rail	1,119.99	12	0	0	121.65	Cum	193.60	0.00	0.00	1435.24	1192.32	
5	Cement	By Road		10	0	0	382.40	MT	79.40	0.00	0.00	461.80	374.88	LOCAL
6	Coarse Sand	By Road		15	0	0	121.65	Cum	290.98	0.00	0.00	412.63	112.63	Kiul River
7	Fine Sand(Local Sand)	By Road		2	0	1	121.65	Cum	25.46	0.00	30.81	177.92	177.92	LOCAL
8	Steel Reinforcement	By Road		10	0	0	412.62	Tonne	79.40	0.00	0.00	492.02	192.02	LOCAL
9	RCC Pipe NP3 (1000 mm dia)	By Road		20	0	0	73.78	RM	127.04	0.00	0.00	200.82	200.82	Lakhisarai
10	RCC Pipe NP3 (600 mm dia)	By Road		20	0	0	31.62	RM	50.82	0.00	0.00	82.44	82.44	Lakhisarai
11	Bitumen Emulsion	By Road		55	0	0	429.70	MT	436.70	0.00	0.00	866.40	866.40	Brauni
		By Rail	1,632.65	20	0	0	429.70	MT	292.00	0.00	0.00	2354.35	703.53	
12	Bitumen	By Road		55	0	0	429.70	MT	436.70	0.00	0.00	866.40	866.40	Brauni
		By Rail	1,632.65	20	0	0	429.70	MT	292.00	0.00	0.00	2354.35	866.40	
13	Brick	By Road		7	0	1	506.68	1000 No.	222.32	0.00	76.88	805.88	805.88	LOCAL
14	Stone Boulders	By Road		55	0	0	119.27	Cum	1109.17	0.00	0.00	1228.44	995.19	Sheikhpura
		By Rail	1,285.03	12	0	0	119.27	Cum	242.00	0.00	0.00	1646.30	1338.44	

FDR

Junior Engineer

Asstt. Engineer

Executive Engineer

Analysis for Carriage Through Railway from Quarry Site to Work Site

Sheikhpura to kiul

Crushed Stone cum Aggregate including GSB & GrIII

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km				Loading & Unloading		Total
Pucka / Surface		Katcha				
$\frac{8.00}{4.99} \times 12.10 \times 5.00 \text{ Km} = \text{Rs } 96.99$	$+ \frac{8.00}{4.99} \times 29.30 \times 0.00 \text{ Km} = \text{Rs } 0.00$			+ Rs 119.27	=	Rs 216.26
UnSurface		$\frac{8.00}{4.99} \times 8.47 \times 1.00 \text{ Km}$			=	Rs 13.58
Loading Cost from Railway Yard to Railway Wagon		= For 5 MT @ 1.25 Nos Labour			= Rs 257.00	= Rs 321.25
				Total "A"	=	Rs 551.09

Sheikhpura

Railway Yard to kiul

Railway Yard = 26.00 Km

Railway freight charge from Sheikhpura Railway station to kiul Railway station	= For 1 MT 26.00 Km	= Rs 185.10	= Rs 185.10
Busy Season charge 12% of Railway freight charge	= For 1 MT	= 12%	= Rs 22.21
Railway Development Charge to 5% of Railway freight	= For 1 MT	= 5%	= Rs 9.26
Terminal charge @Rs.40.00 per Terminal per MT	= For 1 MT 2	x Rs 40.00	= Rs 80.00
Sub-Total	= For 1 MT		= Rs 296.57
Total	= For 1 MT		= Rs 296.57

Rail Freight = 1.6 x Rs 296.57 For 1 MT "B" = Rs 474.52

Add 12% Overhead Charge = 12% = Rs 56.94

Add 10% Contractor Profit For 1 cum = 10% = Rs 53.15
Rs 1135.69

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

Loading & Unloading Cost

For 1 cum = Rs 182.83

Carriage Cost from Quarry to kiul Railway Yard

For 1 Cum = Rs 1318.52

YEAR (2023- 2024)

Analysis for Carriage by Road & Rail

Name of Road:--

T02 To Ghogi korasi

Block :-


Suryagarha


District:-

Lakhisarai

0.020 KM.

Sl No	Item	Unit	Carriage Cost By Road (Per cum)	Carriage Cost By Rail(Per cum)	Carriage Cost (Adopted in DPR)
1	Stone Metal Gr-I & Gr-II	Cum	1279.18 1036.24		1279.18 1036.24
2	Stone Metal Gr-III / GSB	Cum	1186.20 960.94	1670.58	1186.20 960.94
3	Stone Aggregate / Chips	Cum	2912.70 2359.25		2912.70 2359.25
4	Stone Boulder	Cum	1228.44 995.14		1228.44 995.14
5	Course Sand	Cum	312.59 253.85		312.59 253.85
6	Binding Material (Moorum)	Cum	703.92 571.74		703.92 571.74
6	Local Sand	Cum	477.92 144.43		477.92 144.43
7	Brick	1000 Nos	805.88 654.26		805.88 654.26
8	Cement	MT	461.80 374.88		461.80 374.88
9	Steel	MT	492.02 399.42		492.02 399.42
10	Bitumen Emulsion	MT	866.40 703.53		866.40 703.53
11	Bitumine	MT	866.40 703.53		866.40 703.53
12	Hume Pipe (1000 mm)	Pipe	201.90 162.21		201.90 162.21


 Junior Engineer
 RWD (w) Division, Lakhisarai


 Asstt. Engineer
 RWD (w) Division, Lakhisarai


 Executive Engineer
 RWD (w) Division, Lakhisara



Latitude: 25.19006
Longitude: 86.30913
Altitude: 34.1±27 m
Accuracy: 10.5 m
Time: 10-11-2023 12:29
Note: to2 ghoghi to korashi

Powered by NoteCam



Latitude: 25.190037
Longitude: 86.30915
Elevation: 111.46±10 m
Accuracy: 1.7 m
Time: 10-10-2023 12:51
Note: T02Ghoghi To Korasi

Powered by NoteCam



Latitude: 25.190057
Longitude: 86.309192
Elevation: 100.85±19 m
Accuracy: 1.9 m
Time: 10-10-2023 12:38
Note: T02Ghoghi To Korasi



Latitude: 25.190103
Longitude: 86.309133
Elevation: 74.56±18 m
Accuracy: 10.9 m
Time: 10-11-2023 15:37
Note: to2 ghoghi to korashi

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 26

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 31/10/23
 26



31/10/23