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ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar



BIHAR RURAL ROADS PROJECT Bihar Rural Road Development Agency (BRRDA)

Govt. of Bihar

FDR



Name of the Road :-

Lalganj Rajbad RWD Path to village Gopalpur via Kanhaiyaganj Padri
Railway station

DISTRICT	:	NALANDA	
DIVISION	:	Harnaut	
BLOCK	:	Chandi	
TOTAL COST OF CONSTRUCTION	:	9.577 7.552	Lac
TOTAL COST OF PROJECT	:	9.577 7.552	Lac

Submitted By

Executive Engineer
Rural works Department
wroks Div-Harnaut

O/c

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Lalganj Rajbad RWD Path to village Gopalpur via
Kanhaiyaganj Padri Railway station
DISTRICT NALANDA
BLOCK Chandi
DIVISION Harnaut

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	GSB	826585.510
	Total	826585.51
	TOTAL COST IN LACS =	826585.51
	GST @ 12 % ON (PART A)	99190.26
	LABOUR CESS GST @ 1 % ON (PART A)	8265.86
	Seignories fee	23632.60
	Sub Total :-	957674.228
	Cost of LAND ACQUISITION :-	0.000
	TOTAL COST OF PROJECT IN LACS =	957674.228

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77689200
6474200
755208200
7.552

Technically approved for Rs. 7,55,200.00

(Rupees...seven lakh fifty five thousand two hundred only)

Condition and direction of work to be carried out as per technical notes with DPM to be followed strictly.

Certified copy

Sd-

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RWD

Work Circle Naland:

Amma
30/1/21
अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, नालन्दा
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Name of Road- Lalganj Rajbad RWD Path to village Gopalpur via Kanhaiyaganj
Padri Railway station
Block- Chandi
District- NALANDA

Measurment of GSB

Sl.No	No	Lenth (m)	Width(m)	Thickness (m)	Qty. (Cum)
1	2	50.00	3.20	0.175	56.00
2	2	45.00	2.50	0.150	33.76
3	1	50.00	1.90	0.175	16.63
4	1	40.00	2.20	0.100	8.80
5	2	50.00	2.25	0.175	39.38
6	1	30.00	1.25	1.100	41.25
7	1	30.00	2.50	1.120	84.00
8	2	30.00	1.25	1.550	116.26
				Total	396.08

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Seigniorage fee

Sl.No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs	Total Quantity required (Cum)	Total Amount	Add 10% Seigniorage fee
1		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.							
			Unit = cum						
			Taking output = 300 cum						
		Well graded granular sub-base material as per Table 400.1							
		53 mm to 9.5 mm @ 50%	cum	192.00	620.62	119159.04			
		9.5 mm to 2.36 mm @ 20%	cum	77.00	514.58	39622.66			
		2.36 mm below @ 30% (Course sand)	cum	115.00	175.8	20217			
		Cost for 300 Cum=a				178998.7			
		Rate per Cum=(a)/300				596.66			
					Total cost	596.66	396.08	236326.02	23632.60

SubTotal Seigniorage Fee
Total Seigniorage Fee

23632.60
23632.60

Analysis for Carriage by Road & Rail

Lalganj Rajbad RWD Path to village Gopalpur via Kanhaiyaganj Padri Railway station										
Name of Road:--		Block :- Chandi								
District:-		NALANDA								
Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Katcha		Loading & Unloading Cost	Carriage Cost by Rail Head	Total`
				Pucka / Surface						
1	Stone Metal Gr-I & Gr-II	Cum	Karjara Gaya	$\frac{8.00}{4.59} \times 7.52$	$\times 65.00 \text{ Km} = \text{Rs } 851.94$	$\frac{8.00}{4.59} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	0.00	Rs. 1048.07
	THROUGH RAIL	Cum	Karjara Gaya	$\frac{8.00}{4.59} \times 7.52$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	$\frac{8.00}{4.59} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	1619.59	Rs. 1815.72
2	Stone Metal Gr-III / GSB	Cum	Karjara Gaya	$\frac{8.00}{4.99} \times 7.52$	$\times 65.00 \text{ Km} = \text{Rs } 783.65$	$\frac{8.00}{4.99} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	0.00	Rs. 979.78
	THROUGH RAIL	Cum	Karjara Gaya	$\frac{8.00}{4.99} \times 7.52$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	$\frac{8.00}{4.99} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	1505.49	Rs. 1701.62
3	Stone Aggregate / Chips	Cum	Karjara Gaya	$\frac{8.00}{4.99} \times 7.52$	$\times 101.00 \text{ Km} = \text{Rs } 1217.67$	$\frac{8.00}{4.99} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	0.00	Rs. 1413.80
	THROUGH RAIL	Cum	Karjara Gaya	$\frac{8.00}{4.99} \times 7.52$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	$\frac{8.00}{4.99} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	1505.49	Rs. 1701.62
4	Stone Boulder	Cum	Karjara Gaya	$\frac{8.00}{4.00} \times 7.52$	$\times 65.00 \text{ Km} = \text{Rs } 977.60$	$\frac{8.00}{4.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	0.00	Rs. 1173.73
	THROUGH RAIL	Cum	Karjara Gaya	$\frac{8.00}{4.00} \times 7.52$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	$\frac{8.00}{4.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	196.13	1829.55	Rs. 2025.68
5	Course Sand	Cum	Kollwar	$\frac{8.00}{4.99} \times 7.52$	$\times 55.00 \text{ Km} = \text{Rs } 663.09$	$\frac{8.00}{4.99} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	106.19	0.00	Rs. 769.28
6	Binding Material/Moorum	Cum	Karjara Gaya	$\frac{8.00}{6.00} \times 7.52$	$\times 65.00 \text{ Km} = \text{Rs } 651.73$	$\frac{8.00}{6.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	106.19	0.00	Rs. 757.92
	THROUGH RAIL	Cum	Karjara Gaya	$\frac{8.00}{6.00} \times 7.52$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	$\frac{8.00}{6.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	106.19	1139.14	Rs. 1245.33
7	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 7.52$	$\times 2.00 \text{ Km} = \text{Rs } 24.11$	$\frac{8.00}{4.99} \times 18.19$	$\times 1.00 \text{ Km} = \text{Rs } 29.16$	106.19	0.00	Rs. 159.46
8	Brick	1000 Nos	Local	$\frac{8.00}{2.00} \times 7.52$	$\times 7.00 \text{ Km} = \text{Rs } 210.56$	$\frac{8.00}{2.00} \times 18.19$	$\times 1.00 \text{ Km} = \text{Rs } 72.76$	446.72	0.00	Rs. 730.04
9	Cement	MT	Local	$\frac{8.00}{8.00} \times 7.52$	$\times 10.00 \text{ Km} = \text{Rs } 75.20$	$\frac{8.00}{8.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	322.54	0.00	Rs. 397.74
10	Steel	MT	Local	$\frac{8.00}{8.00} \times 7.52$	$\times 10.00 \text{ Km} = \text{Rs } 75.20$	$\frac{8.00}{8.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	343.32	0.00	Rs. 418.52
11	Bitumen Emulsion	MT	Paharpur Gaya	$\frac{8.00}{8.00} \times 7.52$	$\times 34.00 \text{ Km} = \text{Rs } 255.68$	$\frac{8.00}{8.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	369.96	0.00	Rs. 625.64
12	Bitumen	MT	Fathua	$\frac{8.00}{8.00} \times 7.52$	$\times 29.00 \text{ Km} = \text{Rs } 218.08$	$\frac{8.00}{8.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	369.96	0.00	Rs. 588.04
13	Hume Pipe (1000 mm)	m	Patna	$\frac{8.00}{10.00} \times 7.52$	$\times 21.00 \text{ Km} = \text{Rs } 126.34$	$\frac{8.00}{10.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	76.57	0.00	Rs. 202.91
14	Hume Pipe (600 mm)	m	Patna	$\frac{8.00}{25.00} \times 7.52$	$\times 21.00 \text{ Km} = \text{Rs } 50.53$	$\frac{8.00}{25.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	32.82	0.00	Rs. 83.35
15	Hume Pipe (300 mm)	m	Patna	$\frac{8.00}{60.00} \times 7.52$	$\times 21.00 \text{ Km} = \text{Rs } 21.06$	$\frac{8.00}{60.00} \times 18.19$	$\times 0.00 \text{ Km} = \text{Rs } 0.00$	32.82	0.00	Rs. 53.88

Cost of Haulage Excluding Loading & Unloading as per S.O.

Cost of Haulage Excluding Loading & Unloading as per SOR

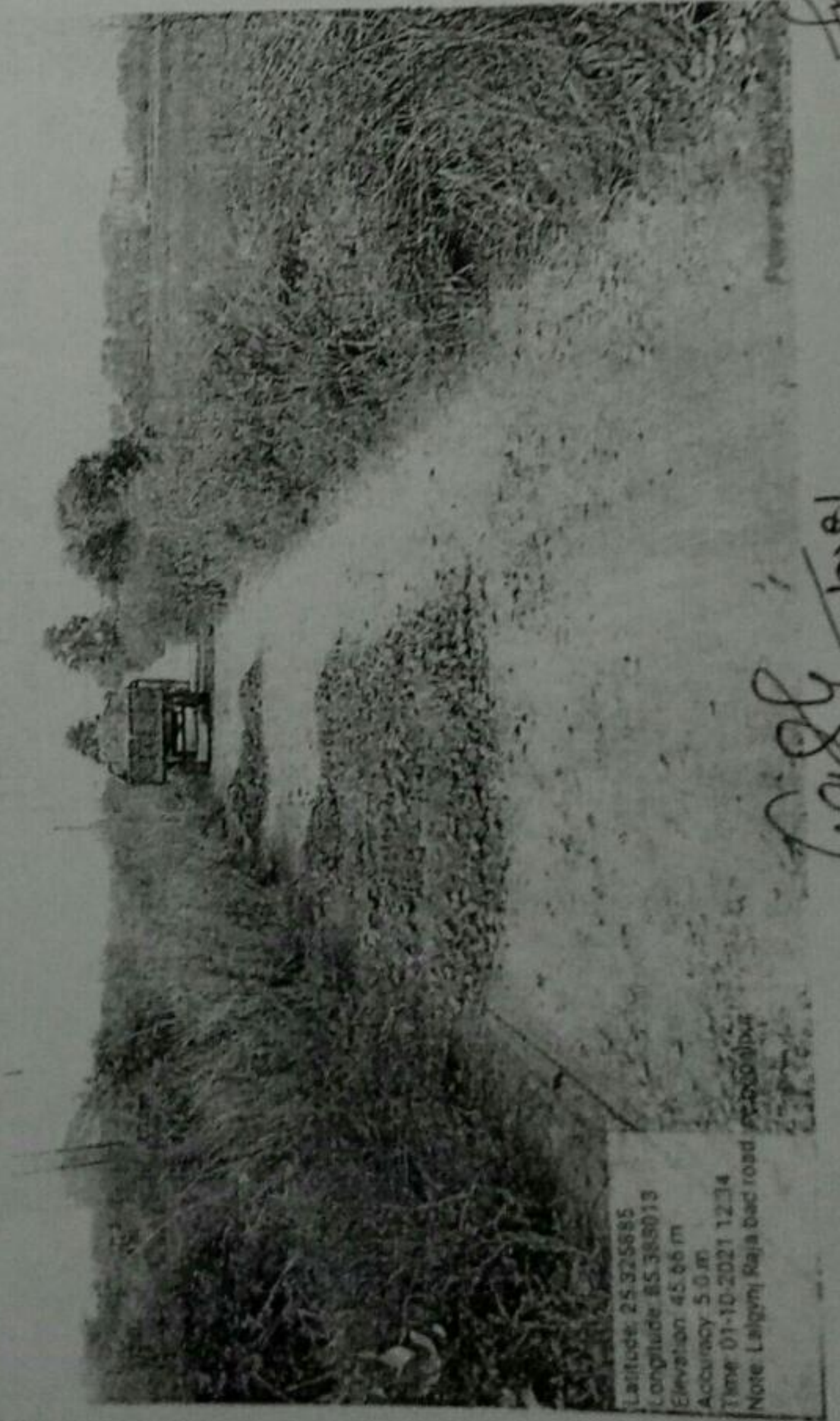
Type of Road	Per Ton. Km by Tinner	Per Ton. Km by Truck
For Surface Road	8.40	7.52
Unsurface Gravel Road	10.10	9.04
Kachha Road	20.30	18.19

* Subjected to Verification of Lead

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