

तकनीकी प्रतिवेदन

योजना का नाम : Restoration of road from L061-Maigra se Simri at Ch-0.800 Km
प्राकलित राशि:- 2.38900 लाख

प्रस्तुत प्राकलन शीर्ष FDR योजनान्तर्गत वर्ष 2024 में अत्याधिक वर्षा के कारण उक्त पथ के आरेखन Ch-0.800 Km पर पथ क्षतिग्रस्त हो जाने के कारण अभियंता प्रमुख ग्रामीण कार्य विभाग, बिहार पटना का पत्रांक 1956 दिनांक 28.05.2024 से प्राप्त निर्देश के आलोक में आवागमन सूचारु रूप से जारी रखने के लिए Temporary Restoration कराया गया है।

अतः जनहित एवं विधि व्यवस्था की महत्ता को दृष्टिगत रखते हुए प्राकलन की स्वीकृति आवश्यक है।
आवश्यक कार्रवाई हेतु सूचनार्थ समर्पित।

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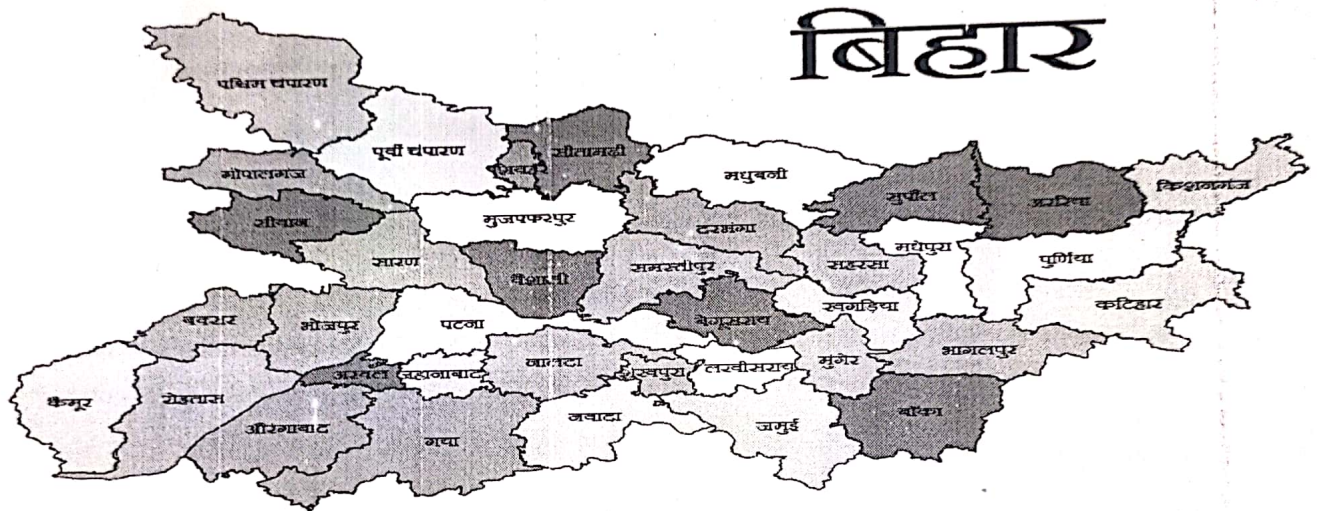


ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

DETAILED PROJECT REPORT FDR WORK



DISTRICT :	Aurangabad	BLOCK :	Nabinagar
DIVISION :	Aurangabad	PROJECT ID :	0
NAME OF ROAD :	Restoration of Road From L061 Maigra Se Simri At Ch-0.800 km		
TOTAL LENGTH IN KM.	:	0.012	KMS
TOTAL CONSTRUCTION LENGTH IN KM.	:	0.012	KMS
TOTAL CONSTRUCTION COST	:	2.389	Lakhs
TOTAL PROJECT COST	:	2.389	Lakhs

Submitted By:
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Aurangabad

GENERAL ABSTRACT OF COST
FDR WORK

Block:--	Nabinagar	District:-	Aurangabad	
Total Length Of Road	0.012 KM	BT Length :-	0.012 KM.	
Construction Length of Road:--	0.012 KM	PCC Length :-	0.000 KM.	
Name of Road:--	Restoration of Road From L061 Malgra Se Simri At Ch-0.800 km			

SL. No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION	1.995 Lacs
	LABOUR CESS @1%	0.020 Lacs
	SEIGNIORAGE FEE	0.009 Lacs
	TOTAL	2.024 Lacs
	GST @18%	0.364 Lacs
	TOTAL (A)	2.389 Lacs
TOTAL PROJECT COST		2.389 Lacs

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**SUMMARY OF COST ESTIMATE
FDR WORK**

NAME OF ROAD :	Restoration of Road From L061 Maigra Se Simri At Ch-0.800 km
DISTRICT	Aurangabad
BLOCK	Nabinagar
DIVISION	Aurangabad
Total Length Of Road	0.012 km
Construction Length of Road	0.012 km
Length of Flexible Pavement 3.75 M	0.012 km
Length of CC Pavement 3.75 M	0.000 km

CD STRUCTURES

BOX CELL CULVERT	0	
Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A		
1	PREPARATORY WORKS ,SITE CLEARANCE , DISMANTLING	0.000
2	EARTHWORK	0.773
3	BRICK BAT	0.669
4	LOCAL SAND OVER BRICK BAT (Fine Sand)	0.076
5	GSB GR-I & GR-II	0.247
6	WBM GRADE III	0.000
7	CEMENT CONCRETE PAVEMENT	0.000
8	MAINTENANCE BOARD	0.000
	SUB TOTAL OF PAVEMENT COST IN LACS =	1.765
PART-B CROSS DRAINAGE STRUCTURES		
I	HUME PIPE	0.230
II	RCC	0.000
I	BOX	0.000
	SUB TOTAL OF CD STRUCTURES COST IN LACS =	0.230
	SUB TOTAL	1.995
	1% LABOUR CESS	0.020
	10% SEIGNIORAGE FEE (Construction)	0.009
	18 % GST	0.364
	TOTAL COST OF PROJECT IN LACS =	2.389

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FDR WORK

Detailed Cost Estimate For Road Construction

Name Of Road :-		Restoration of Road From L061 Maigra Se Simri At Ch-0.800 km				Total Length In Km :- 4.035 Km			BLOCK :- Nabinaagar		
Sl.No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	3.14	303.1	Construction of Embankment, 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.	cum	1.00	12.00	6.950	3.800	316.92	243.99	77,325.00
B) SUB-TOTAL OF EARTHWORK = 77,325.00											
Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS											
2	5.7.40	WRD	BRICK BAT Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	Cum	1	12.00	4.000	0.50	24.000	2,786.59	66,878.00
LOCAL SAND OVER BRICK BAT (Fine Sand)											
Filling and spreading local sand over brick bats as per drawing and technical specifications clause 305.3.9											
At Ch-0.800 km											
Net GSB Qty											
At Ch-0.800 km											
Net GSB Qty											
14.400											
14.400											
526.19											
7,577.00											

Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
4	4.1	401 (ii)	Granular Sub-base with Well Graded Material (Table 400.1) (By Mix in Place Method)- 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.	Cum	1	12.00	3.750	0.200	9.000		
			At Ch-0.800 km						9.000		
			Add for extra widening on curve (2%)						0.180		
			Net GSB Qty						9.180	2,689.747	24,692.00
A) SUB TOTAL OF CRUST =											99,147.00
TOTAL COST OF PAVEMENT IN RS. (A+B+C)=											1,76,472.00

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FDR WORK

SEIGNIORAGE FEE

Sl. No.	SDB SI. NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
EARTHWORK SEIGNIORAGE FEE										
PAVEMENT LAYERS - GSB, WBM-II & WBM-III SEIGNIORAGE FEE										
1			LOCAL SAND OVER BRICK BAT (Fine Sand)							
			Filling and spreading local sand over brick bats as per drawing and technical specifications clause 305.3.9							
			Unit = cum							
			Taking output = 1 cum							
			Material							
		a)	Material							
			Sand (assuming 20 percent voids)	cum	1.2	145.87	175.044			
			Cost for 1 cum = a				175.04			
			Rate Per Cum = (a)/1 =	Cum			175.04			
			Total Cost =	Cum			175.04	14.40	2,520.63	252.06
2	4.1	401	Granular Sub-base with Well Graded Material (Table 400.1)							
			(By mix in place method) - Gr. I							
		(i)	Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS							
			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							
			Taking output = 300 cum							
			Material							
		a)	Material							
			Well graded granular sub-base material as per Table 400.1							
			26.5 mm to 9.5 mm @ 35 per cent	Cum	180.00	944.26	1,69,966.80			
			9.5 mm to 2.36 mm @ 25 per cent	Cum	72.00	434.45	31,280.400			
			2.36 mm below @ 40 per cent - Stone Screening	Cum	108.00	145.87	15,753.960			
			Cost for 300 cum = a				2,17,001.16			
			Rate Per Cum = (a)/300 =	Cum			723.34	9.18	6,640.24	664.02
			Total Cost =	Cum			723.34	9.18	6,640.24	664.02
Total Construction Cost (With 10% Seigniorage Fee) :-										916.09
Total Construction + Maintenance Cost (With 10% Seigniorage Fee) :-										916.09

Sl. No.	SDB SI. NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
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