

तकनीकी प्रतिवेदन

योजना का नाम : Restoration of road from Surhana Urdana PMGSY road to Tendua
प्राकलित राशि:- 5.94700 लाख

प्रस्तुत प्राकलन शीर्ष FDR योजनान्तर्गत वर्ष 2024 में अत्याधिक वर्षा के कारण उक्त पथ के आरेखन Ch:-20.0... 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।

Ramji
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ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

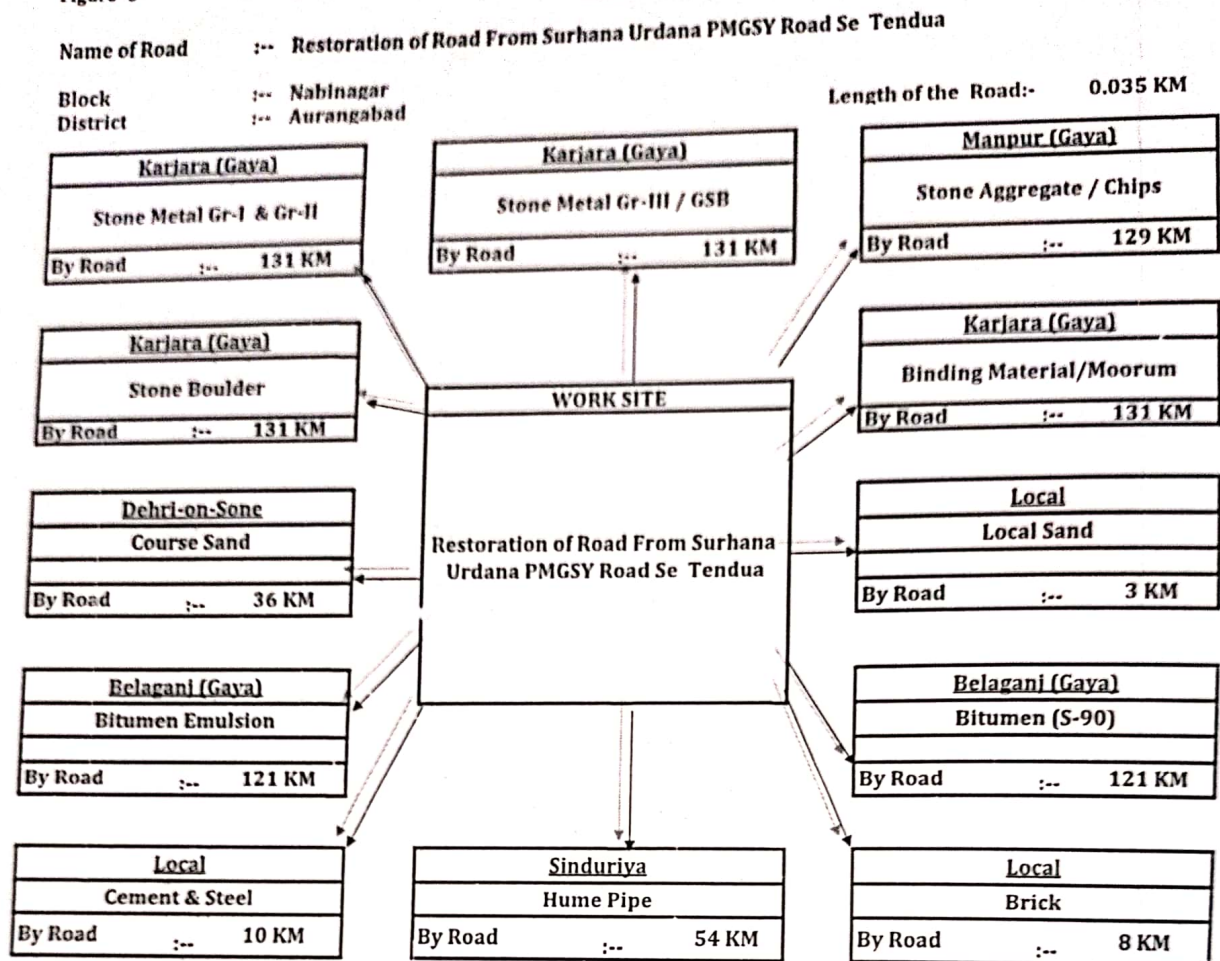
DETAILED PROJECT REPORT FOR WORK



DISTRICT :	Aurangabad	BLOCK :	Nabinagar
DIVISION :	Aurangabad	PROJECT ID :	0
NAME OF ROAD :	Restoration of Road From Surhana Urdana PMGSY Road Se Tendua		
TOTAL LENGTH IN KM.	:	0.035	KMS
TOTAL CONSTRUCTION LENGTH IN KM.	:	0.035	KMS
TOTAL CONSTRUCTION COST	:	5.947	Lakhs
TOTAL PROJECT COST	:	5.947	Lakhs

Submitted By:
Executive Engineer
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Aurangabad

Figure -3

Quarry Map

* Subjected to Verification of Lead

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GENERAL ABSTRACT OF COST
FDR WORK

Block:--	Nabinagar	District:--	Aurangabad
Total Length Of Road	0.035 KM	BT Length :-	0.035 KM.
Construction Length of Road:--	0.035 KM	PCC Length :-	0.000 KM.
Name of Road:--	Restoration of Road From Surhana Urdana PMGSY Road Se Tendua		

SL. No.	Item of Work	Amount
A	TOTAL COST OF CONSTRUCTION :	4.964 Lacs
	LABOUR CESS @1% :	0.050 Lacs
	SEIGNIORAGE FEE :	0.026 Lacs
	TOTAL :	5.040 Lacs
	GST @18% :	0.907 Lacs
	TOTAL (A) :	5.947 Lacs
TOTAL PROJECT COST :		5.947 Lacs

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SUMMARY OF COST ESTIMATE FDR WORK

NAME OF ROAD :	Restoration of Road From Surhana Urdana PMGSY Road Se Tendua
DISTRICT	Aurangabad
BLOCK	Nabinagar
DIVISION	Aurangabad
Total Length Of Road	0.035 km
Construction Length of Road	0.035 km
Length of Flexible Pavement 3.75 M	0.035 km
Length of CC Pavement 3.75 M	0.000 km

CD STRUCTURES

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

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FDR WORK									
SEIGNIORAGE FEE									
Sl. No.	SDB Sl.No	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	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	cum	1.2	145.87	175.044		
			Sand (assuming 20 percent voids)				175.04		
			Cost for 1 cum = a				175.04		
			Rate Per Cum = (a)/1 =	Cum			175.04		
			Total Cost =	Cum			175.04	38.00	665.17
Granular Sub-base with Well Graded Material (Table 400.1)									
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.						

Sl. No.	SDB SI.NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seigniorage Fee 10%
			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			
			Total Cost =	Cum			723.34	26.78	19,367.35	1,936.74
Total Construction Cost (With 10% Seigniorage Fee) :-										
Total Construction + Maintenance Cost (With 10% Seigniorage Fee) :-										
Total Construction + Maintenance Cost (With 10% Seigniorage Fee) :-										
Total Construction + Maintenance Cost (With 10% Seigniorage Fee) :-										

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Analysis for Carriage by Rail & Road

Name of Road:- Restoration of Road From Surhana Urdana PMGSY Road Se Tendua

District:- Aurangabad

BLOCK:- Nabinagar

LENGTH OF ROAD:- 0.035 Km

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Leading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha			
1	Stone Metal Gr-I & Gr-II	Cum	Karjara (Gaya)	8.00 4.59	x 7.25 x 131.00 Km = Rs 1655.34	8.00 4.59	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1864.23
2	Stone Metal Gr-III / GSB	Cum	Karjara (Gaya)	8.00 4.99	x 7.25 x 131.00 Km = Rs 1522.65	8.00 4.99	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1731.54
3	Stone Aggregate / Chips	Cum	Manpur (Gaya)	8.00 4.99	x 7.25 x 129.00 Km = Rs 1499.40	8.00 4.99	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1708.29
4	Stone Aggregate / Chips / Screening	Cum	Manpur (Gaya)	8.00 4.99	x 7.25 x 129.00 Km = Rs 1499.40	8.00 4.99	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1708.29
5	Stone Boulder	Cum	Karjara (Gaya)	8.00 4.80	x 7.25 x 131.00 Km = Rs 1582.92	8.00 4.80	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1791.81
6	Course Sand	Cum	Dehri-on-Sone	8.00 6.00	x 7.25 x 36.00 Km = Rs 348.00	8.00 6.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 460.28
7	Binding Material/Moorum	Cum	Karjara (Gaya)	8.00 6.00	x 7.25 x 131.00 Km = Rs 1266.33	8.00 6.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1475.22
8	Local Sand	Cum	Local	8.00 6.00	x 7.25 x 2.00 Km = Rs 19.33	8.00 6.00	x 17.55 x 1.00 Km = Rs 23.40	Rs. 155.01
9	Brick Bat	1000 Nos	Local	8.00 2.00	x 7.25 x 7.00 Km = Rs 203.00	8.00 2.00	x 17.55 x 1.00 Km = Rs 70.20	Rs. 740.26
10	Cement	MT	Local	8.00 8.00	x 7.25 x 10.00 Km = Rs 72.50	8.00 8.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 426.95
11	Steel	MT	Local	8.00 8.00	x 7.25 x 10.00 Km = Rs 72.50	8.00 8.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 455.60
12	Bitumen Emulsion	MT	Belaganj (Gaya)	8.00 8.00	x 7.25 x 121.00 Km = Rs 877.25	8.00 8.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1274.55
13	Bitumen	MT	Belaganj (Gaya)	8.00 8.00	x 7.25 x 121.00 Km = Rs 877.25	8.00 8.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 1274.55
14	Hume Pipe (1000 mm)	m	Sinduriya	8.00 10.00	x 7.25 x 54.00 Km = Rs 313.20	8.00 10.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 393.45
15	Hume Pipe (600 mm)	m	Sinduriya	8.00 25.00	x 7.25 x 54.00 Km = Rs 125.28	8.00 25.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 159.67
16	Hume Pipe (300 mm)	m	Sinduriya	8.00 60.00	x 7.25 x 54.00 Km = Rs 52.20	8.00 60.00	x 17.55 x 0.00 Km = Rs 0.00	Rs. 86.59

* 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	11.19	7.25
Unsurface Gravel Road	13.46	8.72
Kachha Road	27.07	17.55

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