



Govt. of Bihar

R.W.D. WORKS CIRCLE, GAYA

*Detailed Estimate for Flood
Dammage Repair of Road from
Khizersarai Teusa Road To
Tetarpur.
(Temporary Restoration)*

Head-"-3054-Repair."

District - Gaya

Block - Khizersarai

Estimated Cost - Rs. 12,50,500/-

Prepared By :-

Executive Engineer

R.W.D. Works Division,

NEEMCHAK BATHANI

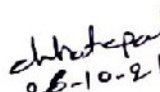
प्रतिवेदन

पथ का नाम :- खिजरसराय टेउसा पथ से तेतारपुर।
शीर्ष का नाम :- FDR
प्राक्कलित राशि :- 12.50500 लाख।

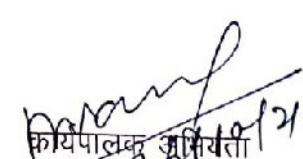
12,50,500 /—(बारह लाख पचास हजार पाँच सौ) रू० मात्र का यह प्राक्कलन खिजरसराय टेउसा पथ से तेतारपुर पथ के Temporary Restoration कार्य हेतु तैयार किया गया है। यह पथ पंचवर्षीय अनुरक्षण अवधि से बाहर है। इस पथ के चेन सं० 90 मी० पर पूर्व से निर्मित 1×6.00M×3.00M आकार का पुलिया विगत बरसात में आई बाढ़ के कारण क्षतिग्रस्त हो गया है। फलस्वरूप पुलिया के क्षतिग्रस्त हो जाने एवं यातायात बाधित होने के कारण विभागीय निदेशानुसार यातायात चालू रखने हेतु इस पुलिया के बगल में Temporary Diversion का निर्माण किया गया है।

इस प्राक्कलन में अस्थाई पथ निर्माण (Diversion) हेतु 95.0मी० लम्बाई में मिट्टी से समतलीकरण करने के उपरांत आवश्यक मोटाई में Brick Bat भरकर Light Ramming कर दी गई है। नाले में जलबहाव को देखते हुए 1000 MM dia के ह्यूम पाईप (5×7.5M), Laying करने के उपरांत Brick bat भराई किया गया है। Brick bats की स्थिरता सुनिश्चित करने के लिए किनारे में बालू भरे बैग रखा गया है, नये पुल के निर्माण हेतु अलग से प्राक्कलन तैयार किया जा रहा है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है। जनहित में प्राक्कलन की स्वीकृति अपेक्षित है।


26-10-21
कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रशाखा, खिजरसराय।


सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य अवर प्रमंडल, खिजरसराय।


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, नीमचक बथानी।

GENERAL ABSTRACT OF COST

Name of Road : F.D.R. of Khizersarai Teusa Road To Tetarpur.

Circle - Gaya

District - Gaya

Division - Neemchak Bathani

Block - Khizersarai

S.N.	DESCRIPTION	AMOUNT	
		Rs	
1	EARTH WORK	Rs	38912.00
2	BRICK BAT'S	Rs	921929.00
3	SAND BAG'S	Rs	3392.00
4	HUME PIPE	Rs	80290.00
	SUB TOTAL	Rs	1044523.00
	LABOUR CESS @ 1 %	Rs	10445.00
	G.S.T. @ 12 %	Rs	125343.00
	SEIGNIORAGE FEE	Rs	70162.00
	TOTAL	Rs	1250473.00
	Say -	Rs.	1250500.00

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Executive Engineer
R.W.D., Works Division
Neemchak Bathani
26/10/21

COST ESTIMATE FOR RESTORATION OF ROAD DAMAGED DUE TO FLOOD.

Name of Work **Khizersarai Teusa Road To Tetarpur.** Block **Khizersarai** District - **Gaya**

Sl.No	Item's of Work										Qty		Rate		Unit	Amount			
1	2										3		4		5	6			
1	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2, with lead upto 1000 M.																		
		1	x	15.00	Mx	6.00	Mx	0.45	M=	40.50	Cum								
		1	x	15.00	Mx	4.50	Mx	0.40	M=	27.00	Cum								
		1	x	15.00	Mx	5.50	Mx	0.45	M=	37.13	Cum								
		1	x	14.00	Mx	6.75	Mx	0.45	M=	42.53	Cum								
		1	x	20.00	Mx	7.50	Mx	0.30	M=	45.00	Cum								
											192.16	Cum	192.16	Cum	Rs.	202.50	/Cum	Rs.	38912
2	Providing laying, spreading and filling Brick Bat's in Flood damage area for making the road motarable as per specification and direction of E/I.																		
		1	x	15.00	Mx	6.00	Mx	0.50	M=	45.00	Cum								
		1	x	15.00	Mx	4.50	Mx	0.50	M=	33.75	Cum								
		1	x	15.00	Mx	5.50	Mx	0.60	M=	49.50	Cum								
		1	x	14.00	Mx	6.75	Mx	0.50	M=	47.25	Cum								
		1	x	16.00	Mx	7.00	Mx	2.00	M=	224.00	Cum								
		1	x	20.00	Mx	7.00	Mx	0.45	M=	63.00	Cum								
		1	x	16.00	Mx	7.50	Mx	0.40	M=	48.00	Cum								
											510.50	Cum							
	Less for Hume Pipe																		
	5	x	0.7857	x	1.20	Mx	1.20	Mx	7.50	M=	42.43	Cum							
										468.07	Cum	468.07	Cum	Rs.	1,969.64	/Cum	Rs.	921929	
3	Sand Bag's																		
		2	x	25	x	6	No	300	Nos										
		2	x	25	x	2	No	100	Nos										
											400	Nos	400.00	Nos	Rs.	8.48	each	Rs.	3392
4	Providing and laying reinforced cement concrete pipe NP4 culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, back filling, concrete and massonary works in head walls and parapets clause 1106.																		
	1000 mm dia			5	x	3	x	2.50	M=	37.50	M								
											37.50	M	37.50	M	Rs.	2,141.06	/M	Rs.	80290
Total -																			1044523

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Executive Engineer
R.W.D., Work Division
Neemchak Bathani

CALCULATION OF SEIGNOIRAGE FEE

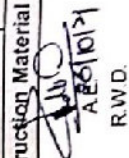
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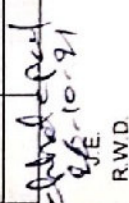
F.D.R. of Khizersarai Teusa Road To Tetarapur.

Block - Khizersarai

Length of Road - Km

Sl. No.	SDB Sl. No.	MoRD Ref. No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Seigniorage Fee @ 10 %
1			Providing laying, spreading and filling Brick Bat's in Flood damage area for making the road motorable as per specification and direction of E/I.							
			Unit - Cum							
			Material							
			Brick Bat	Cum	1.50	987.00	1480.50			
			Rate Per Cum = (a) =				1480.50			
2			Total Cost =	Cum			1480.50	488.07	692977.64	69297.76
			Sand Bags							
			Unit - Cum							
		(a)	Material							
			Fine Sand (Assuming 1.20 cft Sand in 1 bag)	Cft	1.20	400.00	480.00			
			Hence in 400 bags	Cft	1.20	35.32	13.59			
			Cost of Sand	Cum	480.00	141.85	1927.74			
			Cost for 100 nos bags = (a) =	Cum	13.59		1927.74			
			Total Cost =	Cum			1927.74		1927.74	192.77
3	3.16	305	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2. with lead upto 1000 M							
			Unit - Cum							
		(a)	Material							
			Compensation of earth taken from private land	Cum	1.00	34.82	34.82			
			Cost for 7400 nos bags = (a) =	Cum			34.82			
			Total Cost =	Cum			34.82	192.16	6691.01	669.10
4	9.3	1100	Providing and laying RCC pipe NP3 for culverts on first class bedding of PCC M-10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works back filling, concrete and masonry works in head wall and parapets Clause 1106. 1000 mm dia							
			Unit - M (Taking Output = 7.50 M)							
		(a)	Material							
			Sand	Cum	0.04	141.85	5.67			
			Cost for 7.50 M = (a)				5.67			
			Rate per M = (a) / 7.50 =				0.76			
			Total Cost =	Cum			0.76	37.50	28.50	2.85
			Seigniorage Fee @ 10 % on Construction Material Cost :-							70462.48


 R.W.D. Engineer
 W.D. Works Division
 Neemrana, Rajasthan


 R.W.D. Engineer
 W.D. Works Division
 Neemrana, Rajasthan

Cost of Carriage of Materials including loading & unloading.

1	Surface Road	Haulage	By Tipper	By Truck
		Tonne / Km	8.16	Rs. 8.16
2	Unsurface Road / Gravelled Road	Tonne / Km	9.82	Rs. 9.82
3	Katcha Track & Track in River Bed / Nallah Bed & Choe Bed	Tonne / Km	19.76	Rs. 19.76

Name of work - Khizersarai Teusa Road To Tetarpur.

Sl. No.	Item	Source	Unit	Av. Lead in KM	Lead in KM	Cost of Loading & Unloading	Multiplying Factor	Rate of Carriage			Cost of Carriage		Total Carriage cost	Basic Rate	Total Rate (Without C.P. & O.H.)
								Surface	Kutchha	Surface	Surface	Kutchha			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	Local Sand	Local	Cum	2.00	1.00	110.23	8.00 / 4.99	8.16	19.76	26.16	31.68	158.07	141.85		309.92
2	Brick	Local	1000 Nos	7.00	1.00	466.50	8.00 / 2.00	8.16	19.76	228.48	79.04	774.02			774.02
3	Hume Pipe 1000 mm	Manpur	Metre	30.00		157.02	8.00 / 10.00	8.16	19.76	195.84		141.14			141.14
4	Brick Bat	Local	Cum	7.00	1.00	202.83	8.00 / 4.99	8.16	19.76	91.58	31.68	325.09			325.09

Analysis of Finish Rate of Brick Bat			Carriage of Brick Bat		
Basic Rate	Total	Finished Rate	Basic Rate	Total	Finished Rate
987	1313.09	1969.64	326.09	1.50	1969.64

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Executive Engineer
R.W.D. Work Division
Neemuch District



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