



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR REPAIRING OF ROAD F.D.R. PART - A (2020 - 21)

DETAILED ESTIMATE FOR F.D.R. RESTORATION WORK

DISTRICT :	BHAGALPUR	BLOCK :	ISMILEPUR
NAME OF ROAD :	L026 T01 TO RAGHUNI TOLA VIA MADDHAT TOLA (VR7)		
PACKAGE NO. :	BR-06R- 184		
TOTAL LENGTH OF ROAD	:	2.722	KMS
TOTAL COST OF FDR. PART - A	:	12.828	LACS
ADD G.S.T. @ 12 %	:	1.539	LACS
ADD LABOUR CESS @ 1%	:	0.128	LACS
ADD SF @ 10%	:	0.609	LACS
TOTAL COST OF RESTORATION WORK	:	15.105	LACS

SUBMITTED BY
The Executive Engineer
Works Division, Naugachhiya

प्रतिवेदन

योजना का नाम :- L026 T01 to Raghuni Tola via Maddhat Tola (VR7) .

प्रमंडल :- ग्रामीण कार्य विभाग, कार्य प्रमंडल, नवगछिया।

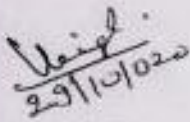
अंचल :- ग्रामीण कार्य विभाग, कार्य अंचल, भागलपुर।

पथ की लम्बाई :- 2.722 कि०मी०

प्राक्कलित राशि :- Rs. 15.105 लाख

प्रस्तुत प्राक्कलन वर्ष 2020 में आयी बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों की तत्काल मरम्मत कर, यातायात पुनः बहाल करने हेतु तैयार किया गया है। दिनांक- 20/10/2020 को मुख्यालय स्तर पर V.C. के माध्यम से होने वाली समान्य बैठक में दिये गये दिशा निर्देश के अनुपालन एवं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, नवगछिया का पत्रांक- 1385/नवगछिया, दिनांक- 20/10/2020 के आलोक में प्राक्कलन तैयार किया गया है। बाढ़ के कारण जगह-जगह पर रोडकस्ट में कटाव के साथ-साथ पथ का फलैंक भी क्षतिग्रस्त हुआ है। कटाव के कारण पथ से आवागमन बाधित हो गया है।

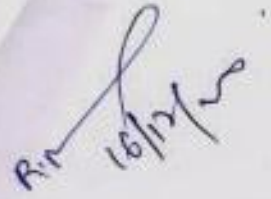
अतः आपातकालीन प्रकृति के कार्य को देखते हुए इस क्षतिग्रस्त पथांश में आवश्यकता एवं उपलब्धतानुसार ईट के टुकड़े (Brick Bats) / Sand Bag इत्यादि के द्वारा पथ के पुनःस्थापन का प्रावधान किया गया है। प्राक्कलन में मर्दों का दर, वर्तमान अनुसूचित दर विश्लेषण पर आधारित हैं। प्राक्कलन में Contractor Profit एवं Over Head Charge नहीं जुड़ा हुआ है। जबकि GST, S.F एवं Labour Cess को जोड़ा गया है।


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GENERAL ABSTRACT OF COST

Name of Road : L026 T01 TO RAGHUNI TOLA VIA
MADDHAT TOLA (VR7)

District : BHAGALPUR

Package No. : BR-06R- 184

Block : ISMILEPUR

Length : 2.722 KM

Sl. No	Particulars		Details	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	2.722 KM	12,82,772.00
2	Add G.S.T @ 12 %	:		1,53,933.00
3	Add L.C. @ 1 %	:		12,828.00
4	S. F. @ 10 %	:		60,929.00
	Total Cost of Restoration work	:		15,10,462.00
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Technically Approved for Rs 15,10,462.00 (Rupees fifteen lac ten thousand four hundred only).

Superintending Engineer
17/11/2021
Rural Works Department
Works Circle, Bhagalpur

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ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: L026 T01 TO RAGHUNI TOLA VIA MADDHAT TOLA (VR7)

Block: ISMILEPUR

Length : 2.722 KM

District: BHAGALPUR

Sl. No.	SSR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount (in Rs.)
1	5.7.53	Providing sand bag with sand and labour including carriage laying, filling etc all complete job as per specification and direction of E/I								
		As per attached "Annexure - B"					12.713	/ bags	31.22	3.96,900.00
2	4.5	Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light, barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.								
		As per attached "Annexure - A"					515.50			
							515.50	cum	1718.47	8.85,872.00
Total Cost of Flood Protective work =										12,82,772.00

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ANNEXURE - " B "

Measurement of E. C. Bags

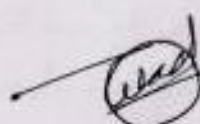
Name of Road : L026 T01 TO RAGHUNI TOLA VIA MADDHAT TOLA (VR7)

Package No.: BR-06R- 184

Length of Road : 2.72

Sr. No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)	Quantity (No of)
1	CH.1800 m - 2000 m LHS	2	25.00	2.00	1.00		1.50	1.20			1.20	90.00	254
2	1825 - 2100 m CH.1800 m - 2000 m LHS	1	25.00	2.00	1.00		1.50	1.50			1.50	56.25	165
3		2	30.00	2.00	1.00		1.50	1.50			1.50	135.00	397
4		2	25.00	2.00	1.00		1.50	1.40			1.40	105.00	308
5		2	25.00	2.00	0.80		1.40	1.30			1.30	91.00	257
6	NEAR PULIYA	4	3.00	4.00	1.00		2.50	1.50			1.50	45.00	132
											Total =	522	1271

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ANNEXURE - " A "

Brick Bat Measurement

Name of Road : L026 T01 TO RAGHUNI TOLA VIA MADDHAT TOLA (VR7)

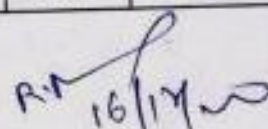
Package No.: BR-06R- 184

Length of Road : 2.722 KM

Sr.No.	Chainage (m)	Nos.	Length (m)	Width (m)			Average Width (M)	Depth (m)			Average Depth (M)	Quantity (cum)
1	1800 - 2000	1	12.00	5.00	3.50		4.25	3.80			3.80	193.80
2		1	15.00	4.00	3.50		3.75	1.60			1.60	90.00
3		1	10.00	4.00	3.50		3.75	1.60			1.60	60.00
4		1	18.00	5.00	3.00		4.00	1.50			1.50	108.00
5		1	10.00	4.00	3.00		3.50	1.70			1.70	59.50
6	NEAR HP CULVERT	1	2.00	1.00			1.00	0.60			0.60	1.20
7		1	2.00	1.00			1.00	1.50			1.50	3.00
											Total =	515.50

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Rate Analysis for Carriage of Materials.

Name of Road : L026 T01 TO RAGHUNI TOLA VIA MADDHAT TOLA (VR7)

Name of Road : L026 T01 TO RAGHUNI TOLA VIA MADDHIA TOLA (V.R.)																		
Sl No	Item	Unit	Source	Carriage Cost & Lead in Km										Loading & Unloading Cost	Carriage Cost by Rail Head	Total* (By Road)		
				Pukka / Surface					Katcha									
1	Stone Metal Gr-III / GSB	Cum	Mirjachauki	8.00 4.99	x	16.32	x	80.00 Km	=	Rs 2093.21	8.00 4.99	x	25.47	x	0.00 Km	=	Rs 0.00	Rs. 2265.28
2	Brick/ Brick Bats	Cum	Local	3.60 1.91	x	16.32	x	7.00 Km	=	Rs 215.33	3.60 1.91	x	25.47	x	1.00 Km	=	Rs 48.01	Rs. 435.40
3	Local Sand	Cum	Local	3.60 2.04	x	16.32	x	2.00 Km	=	Rs 57.60	3.60 2.04	x	25.47	x	1.00 Km	=	Rs 44.95	Rs. 274.62
4	Earth	Cum	Local	8.00 6.00	x	16.32	x	0.00 Km	=	Rs 0.00	8.00 6.00	x	25.47	x	1.00 Km	=	Rs 33.96	Rs. 206.03
5	Hume Pipe (1000 mm)	M	Purnia	8.00 10.00	x	16.32	x	52.00 Km	=	Rs 678.93	8.00 10.00	x	25.47	x	0.00 Km	=	Rs 0.00	Rs. 843.12
6	Hume Pipe (600 mm)	M	Purnia	8.00 25.00	x	16.32	x	52.00 Km	=	Rs 271.57	8.00 25.00	x	25.47	x	0.00 Km	=	Rs 0.00	Rs. 435.93

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tractor	Per Ton. Km by Tipper
For Surface Road	16.32	
Unsurface Gravel Road	0.00	
Kachha Road	25.47	

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Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.5	Providing and Laying of Brick Bats				
	Placing tractor at loading point loading with front end loader dumping, turning for return trip excluding time for haulage and return trip				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour	day	2.170	287.00	622.79
	Mazdoor (Unskilled)				
b)	Material	cum	2.830	1,063.00	3008.29
	Brick Bats				
c)	Carriage	cum	2.830	435.40	1232.19
	Cost for 5.5 cum = a+b+c				4863.27
	Rate per cum = (a+b+c+d)/2.83	cum			1718.47
	Total per cum	cum			1,718.47
10.7.40 WRD	Labour for filling Cement Bag, swing and laying material				
	Unit = Per Bag				
A	Supply Empty cement Bag with Sand	kg	1	7.460	7.46
					7.46
B	Unskilled Mazdoor for filling sand into bag and swing	No	2	287.00	574.00
	Unskilled Mazdoor for filling sand Bag to work site	No	3	287.00	861.00
	Rate per 100 Nos.				1,442.46
	Total per bag				14.42
C	Supply Local sand Cost of Fine Sand				
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 No.				
	Labour				14.42
	Cost of cement bag with Sand				7.46
	Cost of Local Sand				
	1.2 Cft = 0.034 m ³	cum	0.034	274.62	9.34
	Carriage				
	Total per bag	Bag			31.22
	Total cost of (A + B+C) =				31.22
5.7.52	Supply of New bag and N.C with labour for filling item E.C. bag with local sand, stitching on two lines by approval (1mx1mx1m)				
	Unit = Per N.C.				
	Taking output = 100 Nos filled new bags in 4 nos N.C.				
A	Supply Empty cement Bag with Sand	No	100	14.30	1430.00
	Nylon crate (N.C.)	No	4	39.85	159.40
	Total =				1589.40
	Rate of Material for each N. C. (Total x 25/100)				397.35
B	Labour for filling, stitching and stacking in dry position	No	1.67	287	479.29
	Labour for carrying and placing at work site	No	3	287	861.00
	skilled Mazdoor for stitching	No	0.33	364	120.12
	Stitching roll (Nylone)	No	2	30	60.00
	Hire charge of stitching Machine	day	0.33	50	16.50
	Hire charge of Generator 3 KVA	hrs	2.67	74	197.58
	Total =				1734.49
	Rate of Material for each N. C. (Total x 25/100)				433.62
	Rate for each N. C. in dry portion (A + B) =				830.97
C	Carriage :				
	Local sand				
	25 bags = 0.85 m ³	cum	0.85	274.62	233.43
	Carriage for each N. C.	No			233.43
	Total cost of (A + B+C) =	No			1064.40

SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs	Total material Qty. required	Total Material Amount	Add 10% Seigniorage Fee
4.5	Providing and Laying of Brick Bats Placing tractor at loading point loading with front end loader dumping, turning for return trip excluding time for haulage and return trip							
	Unit = cum							
	Loading output = 2.832 cum							
b)	Materilas	cum	2.830	1,063.00	3008.29			
	Brick Bats	cum			1,063.00	515.50	547976.5	54798
	Total per cum							
10.7.40	Labour for filling Cement Bag, swing and laying materilas							
WRD	Unit = Per Bag							
A	Supply Empty cement Bag with Sand							
	Cost of Local Sand	cum	0.034	141.85	4.82			
	1.2 CM = 0.034 m ³	Bag			4.82			
	Total per bag	Bag			4.82	12713	61313.53	6131
	Total cost of (A + B+C) =							
							Total Amount =	60,929

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