



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

**PLAN HEAD FDR(2245)
(2021-2022)**



ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR MOTARABLE WORK IN MORWA MAHADALIT TOLA TO MOHAMMADPUR HAJAM TOLA

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Panapur	
TOTAL LENGTH OF ROAD	:-	1.400	KM
EFFECTIVE LENGTH OF ROAD	:-	0.020	KM
TOTAL COST OF CONSTRUCTION	:-	1.163	Lac
TOTAL COST OF PROJECT	:-	1.163	Lac

अतिवृद्ध

प्रस्तुत प्रावकलन आभीण कार्य विभाग, कार्य प्रमण्डल
मर्जोरा अन्तर्गत प्रस्ताव पानापुर के भुक्ता महाकलित
टोला से महम्मदपुर हजाम टोला तक पथ में मोरिबुल
कार्य का प्रावकलन विभागीय निर्देशानुसार तैयार की गई है।
कार्य का प्राठ राशि 1.163 लाख रुपये मात्र है।

पथ की ल० - 1.400 कि०मी० अतिग्रह भागकी ल० - 0.020 कि०मी०

यह पथ पंचवर्षीय अनुरक्षण अवधि से ब्याहर
है। ~~इस~~ वर्ष आधी लाह/अतिवृष्टि के कारण पथ में
कटाव होने के कारण यातायात बाधित हुआ था।
कार्य पालक अधिकारी के स्थल निरीक्षण परागत दिने जय निर्देशा-
नुसार पथ में 8 मीटर डबल से भरकर maintainable किया गया है।

महम्मद मोरिबुल कार्य का प्रावकलन तैयार कर
आवश्यक कारवाई एवं स्वीकृति हेतु समर्पित किया जा रहा है।

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5.11.21
क० अ०
पानापुर

प्र०
5.11.21
क० अ०
पानापुर

प्र०
कार्य पालक अधिकारी
कार्य प्र० मर्जोरा

Inspection Report for Flood damage work

Date:

1. Name of PIUs- Executive Engineer, RWJ - Madhaura

2. Name of Block/Road- Pampura, Morwa Mahadalit Tols, Mahammadpur
Hajam Tols

A. For Road

1. Damage Location/Chainage : 800

2. Damage Length : 0.020 km

3. Nature of Damage : Road cutting

4. Details of Restoration :

i Material being used in Restoration

: Gravel Sub, Sand

ii Equipment/Tools being used in Restoration works: Tractor, Roller etc

iii Procedure taken up in Restoration works : Gravel Sub bluff

iv Restored Length : 0.020 km

B. For Bridge

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

4. Details of Restoration :

i Material being used in Restoration

: X

ii Equipment/Tools being used in Restoration works:

iii Procedure taken up in Restoration works

iv Restored Length


21.11.2024
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Signature of JE/AF/EE


Executive Engineer
Rural Works Department
Works Division, Marhaura

(S)

Signature
Asst. Insp.

(E) Akhilesh Kumar
(Name of Inspector)

E.E.

RWD (W) - Sonapur

FDR

GENERAL ABSTRACT OF COST

Block:- Panapur

District:- Saran

Length of Road:--

1.400 KM

Name of Road:--

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Morwa Mahadalit Tola To Mohammadpur Hajam Tola

SL. No.	Item of Work	Amount
A	TOTAL COST	1.163 Lacs
	TOTAL	1.163 Lacs

Junior Engineer

Asstt. Engineer

Executive Engineer

T/S. for Rs. 1,16,300/- (Rupees one lakh sixteen hundred and thirty only)

SE
RWD

Superintending Engineer
Rural (Works) Dept.
Works Circle, Chapra

Sl. No.	SDB	MORD Ref No	Description	Unit	NOS	Block	Panapur	DISTRICT:-	Saran	LENGTH:-	1-400 KM
							WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	8.1.3.2	(iii)	Providing brick bats including spreading laying, Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching ir slope or apron including light ramming etc. All complete job as per approved design specification and direction of E/I, including carriage cost of bricks.	Cum					50.00	2,300.58	1,15,029.00
			Quantity As Per Annexure-1 (For Brick Bats)	Cum				Total Quantity=			
2			Local Sand For Voids Filling								
			Filling and Spreading local sand over brick bats as per drawing and technical specification clause 305.3.9	Cum					2.00	652.27	1,305.00
			Quantity As Per Annexure-2 (For Local Sand)	Cum				Total Quantity=			
			TOTAL COST IN RS.=								1,16,334.00

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ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Morwa Mahadalit Tola To Mohammadpur
Hajam Tola

Block:- Panapur

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTITY
1	CH-800 M	1	5.00	(4+6)/2	2.00	CUM	50.00 m3
TOTAL QUANTITY FOR BRICK BATS=							50.00 m3

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ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road : Motorable Work in Morwa Mahadalit Tola To Mohammadpur
Hajani Tola

Block:- Panapur

Sl No.	Description:	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-800 M	1	5.00	4.00	0.10	CUM	2.00 m3
TOTAL QUANTITY FOR LOCAL SAND =							2.00 m3

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Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and direction of E/I.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	304.00	912.00
	Add 6% Overhead Charge				54.72
	Rate for 2.832 Cum				966.72
	Rate Per Cum(Rs.)=				341.36
RCD	Cost of haulage Excluding Loading and Unloading				
	Haulage of Materials By Tractor Excluding Cost Of loading, unloading and stacking				
	Unit-t.km				
	Taking output 3.60 tonnes load and lead 10 km =36.0 t.km				
	(i) Surface Road				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.667	652.00	434.88
	Time Taken For empty return trip	hour	0.400	652.00	260.80
	b) Overhead Charges @0.06 on (a)				41.74
	Cost for 36 t km=(a+b+c)/36				737.43
	Say RS.-				20.48
	ii) Unsurface Gravel Road				
	Speed With load :12 km / hour.				
	Speed for empty return trip :20 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.833	652.00	543.12
	Time Taken For empty return trip 0.50	hour	0.500	652.00	326.00
	b) Overhead Charges @0.06 on (a)				52.15
	Cost for 36 t km=(a+b+c)/840.34				921.26
	Rate per t.km = (a+b+c)/3623.34				25.59
	Say RS.-				25.59

1.1 RCD	Loading and Unloading of Stone Boulder / Stoneaggregate / sand / kanker / Moorum					
	Placing Tractor at loading point, loading with frontloader,dumping, turnig for return trip,excluding for haulage and return trip.					
	Unit = cum					
	Taking output = 2.25 cum					
	Time required for					
	i) Positioning of Tracter at loading Point		1 Min			
	ii) Loading by front end loader 1cum bucket @ capacity 25 cum per hour		5 Min			
	iii) Maneuvering, reverse, dumping and turnig for return		0 Min			
	iv) Wating time,unforeseen Contingencies etc.		0 Min			
	Total		6 Min			
	a) Labour					
	Mate	Day	0.03	316.00		9.48
	Mazdoor for loading and unloading	Day	0.72	304.00		218.88
	b) Machinery					
	Tractor 3.60 tonnes capacity	hour	0.10	652.00		65.20
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	#####		265.68
	c) Overhead charges @ 0.06 on (a+b)					33.55
	Cost for 2.25 cum = a+b+c+d					592.80
	Cost for 2.25 cum = (a+b+c+d)/2.25					263.47
Note-	Unloading will be done manually.					
1	Suplying for Brick Bats (With OH)					
A	Basic Rate of Brick Bats	Per Cum	#####			1006.00
	Add overhead Charges 6%		0.06			60.36
	Total-					1066.36
	Surface Lead	km	7.00			
	Unsurface Lead	km	1.00			
	Factor(3.6/2.25)	cum	1.60			
B	Carriage (with OH)					
	(1.6 x 7 x 20.48) + (1.6 x 1 x 25.59) + 263.47					533.83
C	Cost of Labour for Pitching and Light Ramming as per WRD-SOR 6.6.1 (with OH)					
	Total (A+B+C)-					1941.55
	Add 1% Labour Cess (A+B+C)					19.42
	Add 12% GST(A+B+C)					232.99
	Add 10% cost of Material for seigniorage Fee		1.00	106.64		106.64
	Total Cost per Cum		Rs:-			2300.58

Analysis for Carriage by Road & Rail

Name of Road:-- District:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Morwa Mahadalit Tola To Mohammadpur Hajam Tola

FORM F8

Block:- Panapur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost by Rail Head	Total	Min Total
				Pukka / Surface	Katcha					
3	Local Sand	Cum	Local	$\frac{8.00}{4.99} \times 10.10 \times 2.00 \text{ Km} = \text{Rs } 32.38$	$\frac{8.00}{4.99} \times 24.30 \times 1.00 \text{ Km} = \text{Rs } 38.96$		113.67			Rs. 185.01

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