



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 SHILHAURI PAHADPUR PMGSY PATH SE AARA
PURAB TOLA TAK**

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Marhaura	
TOTAL LENGTH OF ROAD	:-	1.550	KM
TOTAL COST OF CONSTRUCTION	:-	11.89079 6.526	Lac
TOTAL COST OF PROJECT	:-	11.89079 6.526	Lac

Inspection Report For Flood Damage Work

Date:

1. Name of PIU - E.E. R.W.D.(W) Marhaura.
2. Name of Block/Road - Marhaura - Motabale wade in Shikhar Palspur
P.H.S. Path Se Aam Palsur Tolo Tolo.

A. For Road

1. Damage Location/ Chainage :- 0.250 km.
2. Damage Length :- 0.533 km.
3. Nature of Damage :- Ditch due to flood.
4. Details of Restoration :-
- I. Materials being used in restoration : Bricks bats, Local sand.
- II. Equipment/Tools being used in restoration works : Roller, Tractor, Trolley etc.
- III. Procedure taken up in Restoration works : Laying & spreading of labour.
- IV. Restored Length : 0.220 km. 0.185 m

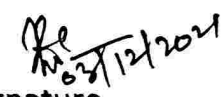
B. For Bridge

1. Damage Location/ Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration :-
- I. Materials being used in restoration :
- II. Equipment/Tools being used in restoration works :
- III. Procedure taken up in Restoration works :
- IV. Restored Length :


Signature of AE/JE/EE


Executive Engineer
Rural Works Department
Works Division, Marhaura




Signature

(Er. Akhilesh Kumar)
(Name of Inspector)
EE
RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Shilhauri Pahadpur PMGSY Path Se Aara Purab Tola Tak

पथ की लम्बाई:- 1.550 KM.

पथ के क्षतिग्रस्त भाग की लम्बाई:-

प्रखंड:-मढ़ौरा जिला :-सारण

प्रमंडल:-ग्रामीण कार्य विभाग कार्य प्रमंडल,मढ़ौरा

अंचल:-ग्रामीण कार्य विभाग कार्य अंचल,छपरा

प्राक्कलित राशि:- ^{1187079/-}~~672009~~ रु

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटरबुल कार्य हेतु कुल रुपये ~~672009.000~~ ^{1187079/-} लाख मात्र के लिए तैयार किया गया है। विदित है की गत जून

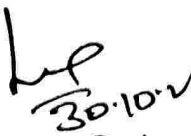
महीने से सितम्बर अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथो पर आवागमन बुरी प्रभावित हो गया। ऐसी परिस्थिति में पथो पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियोंसे प्राप्त आदेश एवं इस संबंधमें विभाग से निर्गत दिशा निर्देश के अलोक में तत्काल प्रभाव से प्रभावित पथो में कटाव/क्षतिग्रस्त भाग में अवश्यकतानुसार Brick Bats भरकर चलने लायक बनाया गया है।

इस प्रकार कटाव/क्षतिग्रस्त भाग

में अवश्यकतानुसार Brick Bats इत्यादि मदों का प्रावधान करते हुए प्राक्कलन कुल रुपये ~~672009.000~~ ^{1187079/-} लाख का तैयार किया गया है जो कार्य हित में आवश्यक एवं जनपयोगी है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है। प्राक्कलन में प्रतिवेदन महीने की मात्रा एवं दा की गई कीमतों का अर्थ है जो व्यय के अग्रहण है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Marhaura

District:- Saran

Length of Road:- 1.550 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Shilhauri Pahadpur PMGSY Path Se Aara Purab Tola Tak

SL. No.	Item of Work	Amount
A	TOTAL COST :	1189079 6.726 Lacs
	TOTAL :	11.89079 6.726 Lacs

Junior Engineer

Asstt. Engineer

Executive Engineer

T/S. for Rs. 11,89,000/-
(Repairs. Elewana SE labor Eight Nos. thousand)
only.

[Signature]
03/01/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Shilhauri Pahadpur PMGSY Path Se Aara
Purab Tola Tak

Block:- Marhaura

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	50.00	1.20	0.65	CUM	39.00 m3
2	"	1	22.50	1.00	0.70	CUM	15.75 m3
3	"	1	16.00	1.00	0.75	CUM	12.00 m3
4	"	1	2.70	1.90	0.80	CUM	4.10 m3
5	"	1	5.90	1.70	0.70	CUM	7.02 m3
6	"	1	2.00	1.70	0.30	CUM	1.02 m3
7	"	1	6.80	1.50	1.10	CUM	11.22 m3
8	"	1	4.40	1.00	0.50	CUM	2.20 m3
9	"	1	3.00	1.50	0.60	CUM	2.70 m3
10	"	1	2.60	1.50	0.60	CUM	2.34 m3
11	"	1	11.90	1.00	0.70	CUM	8.33 m3
12	"	1	2.90	1.00	0.55	CUM	1.60 m3
13	"	2	6.50	1.00	0.65	CUM	8.45 m3
14	"	1	92.00	1.40	0.65	CUM	83.72 m3
15	"	1	23.00	1.00	0.50	CUM	11.50 m3
16	"	2	8.00	1.00	0.65	CUM	10.40 m3
17	"	1	17.00	1.00	0.65	CUM	11.05 m3
18	"	1	24.00	1.00	0.60	CUM	14.40 m3
19	"	1	9.00	1.00	0.50	CUM	4.50 m3
20	"	1	30.00	1.20	0.50	CUM	18.00 m3
21	"	1	9.00	1.00	0.60	CUM	5.40 m3
22	"	1	4.00	1.25	0.55	CUM	2.75 m3
23	"	2	1.80 1.80	1.00 1.80	0.50 0.60	CUM	2.70 m3 2.16 m3
TOTAL QUANTITY FOR BRICK BATS=							565.45 279.07 m3 493.45

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ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Shilhauri Pahadpur PMGSY Path Se Aara
Purab Tola Tak

Block:- Marhaura

Purab Tola Tak							
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	50.00	1.20	0.10	CUM	9.00 m3
2	"	1	22.50	1.00	0.10	CUM	2.25 m3
3	"	1	16.00	1.00	0.10	CUM	1.60 m3
4	"	1	2.70	1.90	0.10	CUM	0.51 m3
5	"	1	5.90	1.70	0.10	CUM	1.00 m3
6	"	1	2.00	1.70	0.10	CUM	0.34 m3
7	"	1	6.80	1.50	0.10	CUM	1.02 m3
8	"	1	4.40	1.00	0.10	CUM	0.44 m3
9	"	1	3.00	1.50	0.10	CUM	0.45 m3
10	"	1	2.60	1.50	0.10	CUM	0.39 m3
11	"	1	11.90	1.00	0.10	CUM	1.19 m3
12	"	1	2.90	1.00	0.10	CUM	0.29 m3
13	"	2	6.50	1.00	0.10	CUM	1.30 m3
14	"	1	92.00	1.40	0.10	CUM	12.88 m3
15	"	1	23.00	1.00	0.10	CUM	2.30 m3
16	"	2	8.00	1.00	0.10	CUM	1.60 m3
17	"	1	17.00	1.00	0.10	CUM	1.70 m3
18	"	1	24.00	1.00	0.10	CUM	2.40 m3
19	"	1	9.00	1.00	0.10	CUM	0.90 m3
20	"	1	30.00	1.20	0.10	CUM	3.60 m3
21	"	1	9.00	1.00	0.10	CUM	0.90 m3
22	"	1	4.00	1.25	0.10	CUM	0.50 m3
23	"	2	180 1.80	1.00 1.80	0.10	CUM	36.00 0.32 m3
TOTAL QUANTITY FOR LOCAL SAND =							82.57 46.89 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 filter 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 / Stone aggregate / 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)					341.36
	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:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Shilhauri Pahadpur PMGSY Path Se Aara Purab Tola Tak
District:- Saran Block :- Marhaura

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
				Pucka / Surface	Katcha					
3	Local Sand	Cum	Local	8.00 x 10.10 x 2.00 Km = 4.99	8.00 x 24.30 x 1.00 Km = 4.99	Rs 32.38	113.67			Rs. 185.01

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Analysis of Rates (FORMAT F8)

			#REF!	CUM		#REF!
11.2	600	Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9				
	1	Fine Sand Filling				
		Unit = cum				
	a)	Labour	day	0.01	310.00	3.10
		Mate	day	0.30	304.00	91.20
		Mazdoor Unskilled				
	b)	Material	day	1.20	141.75	170.10
		Sand assuming 20% voids				15.86
	c)	Overheads @6 % on (a+b)				28.03
	d)	Contractor's profit @ 10% on (a+b+c)				308.29
		Rate per cum = a+b+c+d				
		Carriage cost:-				
		Fine Sand	nos.	1.20	185.01	222.01
		Cost per cum including Carriage				530.30
		Labour cess 1%				5.30
		GST 12%				63.64
		Seignorage 10%				53.07
		TOTAL COST	cum			652.22