



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 CHAPRA MARHAURA PATH 2 SE UTTAR TOLA 2 TAK

DISTRICT	-:-	Saran	
DIVISION	-:-	Marhaura	
BLOCK	-:-	Marhaura	
TOTAL LENGTH OF ROAD	-:-	1.780	KM
TOTAL COST OF CONSTRUCTION	-:-	5.131	Lac
TOTAL COST OF PROJECT	-:-	5.131	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 - Matarsale work in Chapra Marhaura
Part 2 Se Uttar Tola 2 Tola.

A. For Road

1. Damage Location/ Chainage :- 0.100.
2. Damage Length :- 0.238 km.
3. Nature of Damage :- Due to flood ditches.
4. Details of Restoration :-

- I. Materials being used in restoration : Bricks bats, Local sand.
II. Equipment/Tools being used in restoration works : Tractor, R.L.V., T.B. Tally etc..
III. Procedure taken up in Restoration works : Using a speedy pump blower.
IV. Restored Length : 0.085 km.

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

(E. Akhilesh Kumar)

(Name of Inspector)

EE

RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Chapra Marhaura Path 2 Se Uttar Tola 2 Tak

पथ की लम्बाई:- 1.780 KM.

पथ के क्षतिग्रस्त भाग की लम्बाई:-

प्रखंड:-मदौरा जिला :-सारण

प्रमंडल:-ग्रामीण कार्य विभाग कार्य प्रमंडल,मदौरा

अंचल:-ग्रामीण कार्य विभाग कार्य अंचल,छपरा

प्राक्कलित राशि:- 513092 रु

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटरबुल कार्य हेतु कुल रुपये 513092.000 लाख मात्र के लिए तैयार किया गया है । विदित है की गत जून

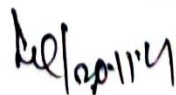
महीने से सितम्बर-अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथो पर आवागमन बुरी प्रभावित हो गया ।ऐसी परिस्थिति में पथो पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियोंसे प्राप्त आदेश एवं इस संबंधमें विभाग से निर्गत दिशा 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 513092.000 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 प्रविष्ट महीने की मात्रा एवं दर की जानकारी नीचे दी गई है जो स्थल के अनुसार है ।



कनीय अभियंता



सहायक अभियंता



कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Marhaura

District:- Saran

Length of Road:- 1.780 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Chapra Marhaura Path 2 Se Uttar Tola 2 Tak

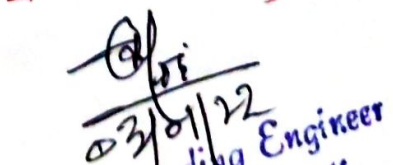
SL. No.	Item of Work	Amount
A	TOTAL COST :	5.131 Lacs
	TOTAL :	5.131 Lacs


30/10/21
Junior Engineer


30/10/21
Asstt. Engineer


Executive Engineer

Tls. for Rs. 5,13,100/- (Payees five lakhs
thirteen thousand ^{SE} one hundred) only.
BWD


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

ANNEXTURE-1

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Chapra Marhaura Path 2 Se Uttar Tola 2 Tak

Block:- Marhaura

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	52.00	1.45	0.85	CUM	79.56 m3
2	"	1	11.00	1.50	0.75	CUM	12.38 m3
3	"	1	4.00	1.40	0.80	CUM	4.48 m3
4	"	1	11.00	1.40	0.35	CUM	5.39 m3
5	"	2	6.00	1.20	0.40	CUM	5.76 m3
6	"	1	5.00	1.00	0.30	CUM	1.50 m3
7	"	1	20.00	0.80	0.65	CUM	10.40 m3
8	"	1	36.00	1.00	0.65	CUM	23.40 m3
19	"	1	11.00	1.00	0.65	CUM	7.15 m3
20	"	2	2.00	1.00	0.55	CUM	2.20 m3
21	"	2	4.00	1.00	0.30	CUM	2.40 m3
22	"	2	4.00	1.00	0.76	CUM	6.05 m3
23	"	1	5.00	1.15	0.85	CUM	4.89 m3
24	"	1	9.00	1.00	0.90	CUM	8.10 m3
25	"	1	8.70	1.00	0.65	CUM	5.66 m3
27	"	1	18.00	0.60	0.40	CUM	4.32 m3
28	"	2	1.50	1.00	0.55	CUM	1.65 m3
29	"	2	7.00	1.00	0.60	CUM	8.40 m3
30	"	2	3.70	1.00	0.70	CUM	5.18 m3
31	"	2	6.05	1.00	0.40	CUM	4.84 m3
32	"	1	6.00	1.00	0.65	CUM	3.90 m3
34	"	2	1.00	1.00	0.65	CUM	1.30 m3
35	"	1	7.00	1.20	0.60	CUM	5.04 m3
TOTAL QUANTITY FOR BRICK BATS=							213.94 m3

[Signature]
JE
RWD

[Signature]
AE
RWD

[Signature]
EE
RWD

ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Chapra Marhaura Path 2 Se Uttar Tola 2 Tak

Block:- Marhaura

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	52.00	1.45	0.10	CUM	9.36 m3
2	"	1	11.00	1.50	0.10	CUM	1.65 m3
3	"	1	4.00	1.40	0.10	CUM	0.56 m3
4	"	1	11.00	1.40	0.10	CUM	1.54 m3
5	"	2	6.00	1.20	0.10	CUM	1.44 m3
6	"	1	5.00	1.00	0.10	CUM	0.50 m3
7	"	1	20.00	0.80	0.10	CUM	1.60 m3
8	"	1	36.00	1.00	0.10	CUM	3.60 m3
9	"	1	11.00	1.00	0.10	CUM	1.10 m3
10	"	2	2.00	1.00	0.10	CUM	0.40 m3
11	"	2	4.00	1.00	0.10	CUM	0.80 m3
12	"	2	4.00	1.00	0.10	CUM	0.80 m3
13	"	1	5.00	1.15	0.10	CUM	0.58 m3
14	"	1	9.00	1.00	0.10	CUM	0.90 m3
15	"	1	8.70	1.00	0.10	CUM	0.87 m3
16	"	1	18.00	0.60	0.10	CUM	1.08 m3
17	"	2	1.50	1.00	0.10	CUM	0.30 m3
18	"	2	7.00	1.00	0.10	CUM	1.40 m3
19	"	2	3.70	1.00	0.10	CUM	0.74 m3
20	"	2	6.05	1.00	0.10	CUM	1.21 m3
21	"	1	6.00	1.00	0.10	CUM	0.60 m3
22	"	2	1.00	1.00	0.10	CUM	0.20 m3
23	"	1	7.00	1.20	0.10	CUM	0.84 m3

TOTAL QUANTITY FOR LOCAL SAND =

32.07 m3

[Signature]
JE
RWD

[Signature]
AE
RWD

[Signature]
EE
RWD

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 Supplying 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

Name of Road:--
District:--

Analysis for Carriage by Road & Rail

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Chapra Marhaura Path 2 Se Uttar Tola 2 Tak

FORM F8

Saran

Block :- Marhaura

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

JE
RWD

AE
RWD

EE
RWD

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					
		Mate	day	0.01	310.00		3.10
		Mazdoor Unskilled	day	0.30	304.00		91.20
	b)	Material					
		Sand assuming 20% voids	day	1.20	141.75		170.10
	c)	Overheads @6 % on (a+b)					15.86
	d)	Contractor's profit @ 10% on (a+b+c)					28.03
		Rate per cum = a+b+c+d					308.29
		Carriage cost:-					
		Fine Sand	nos.	1.20	185.01		222.01
		Cost per cum including Carrige					530.30
		Labour cess 1%					5.30
		GST 12%					63.64
		Seignorage 10%					53.03
		TOTAL COST	cum				652.27