

# FDR

## GENERAL ABSTRACT OF COST

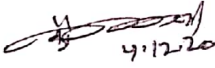
Block:- Mashrakh

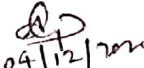
District:- Saran

Length of Road:- 2.010 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Mohammadpur Chapra SH 90 Dih Kudariya To Karn Kudariya Uttaar Tola. (1st Time Flood)

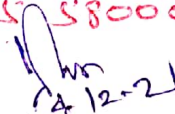
SL. No.	Item of Work	Amount
A	TOTAL COST	65.580 Lacs
	TOTAL	65.580 Lacs

  
4.12.20  
Junior Engineer

  
04/12/2020  
Asstt. Engineer

  
Executive Engineer

Technically approved for 65.58000 = (Sixty Five Lacs Fifty Eight  
Thousand Rupee)

  
4.12.20  
SE  
RWD  
अधीक्षक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अंचल, छपरा

Inspection Report for Flood damage work

Date:

1. Name of PIUs-

EE RWD (L) Division, Muzhara

2. Name of Block/Road-

- Madraha

A. For Road

- Repair of Road Breaches (Dam age by flood) for motorable work in

1. Damage Location/Chainage :

Mohammelpur Chobra SH 90 Dik  
Kulhariyat Kurn Kulhariyat Uttar Pali

2. Damage Length :

3. Nature of Damage :

4. Details of Restoration :

- 452 m  
cut in Road & leads to flood & road

i Material being used in Restoration :

- Bitum Batts

ii Equipment/Tools being used in Restoration works:

- Tractor, Roller & Tollyet

iii Procedure taken up in Restoration works :

- Bitum Batts

iv Restored Length :

- 452 m

B. For Bridge

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

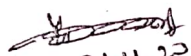
4. Details of Restoration :


i Material being used in Restoration :

ii Equipment/Tools being used in Restoration works:

iii Procedure taken up in Restoration works :

iv Restored Length :

  
21/11/20  
Signature of JE/AF/EE

  
21/11/20  
ME

  
Signature

(Name of Inspector)



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## FDR

### PLAN HEAD FDR (2245) (2020-2021) (PART-A)



**ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR  
MOTARABLE WORK IN MOHAMMADPUR CHAPRA SH 90 DIH KUDARIYA TO  
KARN KUDARIYA UTTAAR TOLA. (1ST TIME FLOOD)**

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Mashrakh	
TOTAL LENGTH OF ROAD	:-	2.010	KM
TOTAL COST OF CONSTRUCTION	:-	65.580	Lac
TOTAL COST OF PROJECT	:-	65.580	Lac

# FDR(2020-2021)

## प्रतिवेदन

पथ का नाम:- Mohammadpur Chapra SH 90 Dih Kudariya To Karn  
Kudariya Utaar Tola

पथ की लम्बाई:- 2.010 KM.

प्राक्कलित राशि:- 6558038 रु

प्रखंड:-मशरख

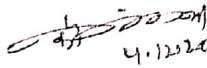
जिला:-सारण

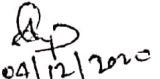
प्रस्तुत प्राक्कलन ग्रामीण कार्य विभाग कार्य प्रमंडल मढ़ौरा प्रखंड अंतर्गत बाढ़ से क्षतिग्रस्त पथों के मोटेरेबुल कार्य प्राक्कलन कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल मढ़ौरा के निर्देशानुसार तैयार किया गया है।


विदित है कि माह जूलाई एवं सितम्बर 2020 में गंडक नदी के बांध के टूटने एवं अतिवृष्टि के कारण आयी बाढ़ के कारण निर्मित/निर्माणाधीन पथों में काफी क्षति हुई है। पानी के तेज बहाव के कारण पथों में हुई कटाव से आवागमन प्रभावित हुआ है साथ ही दिनांक 3.11.2020 को बिहार विधान सभा का चुनाव निर्धारित है। बूथों तक वाहन का आवागमन आवश्यक है जिस कारण से चुनाव कार्य एवं लोगो की कठिनाईयो को देखते हुए तथा उच्चाधिकारी के निर्देशानुसार पथों को तत्काल मोटेरेबुल करने का निर्देश दिया गया है ताकि सभी बूथों पर वाहन का आवागमन सुनिश्चित हो सके।

उपरोक्त आलोक में क्षतिग्रस्त पथों में तत्काल Brick Bats से भरकर वाहन का आवागमन चालू किया गया है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार कर आवश्यक कारवाई हेतु समर्पित किया जाता है।

  
4.12.20  
कनीय अभियंता

  
04/12/2020  
सहायक अभियंता

  
कार्यपालक अभियंता

Sl. No.	SDB Sl. No	MORD Ref. No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (In Rs.)
1	B.1.3.2 (III)		BRICK BATS Providing brick bats including spreading laying labour for dry graded bhama khaa footer under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete job as per approved design specification and direction of E./Including carriage cost of bricks.	Cum					3,045.285	2,153.51	65,58,038.00
Total Quantity=									3,045.29		
TOTAL COST IN RS. =										65,58,038.00	

JE  
4.12.20  
RWD

AE  
04/12/20  
RWD

EE  
RWD

## ANNEXTURE-1

**Estimate for Repair of Road Breaches (Damage By Flood) For  
Name Of Road :- Motarable Work in Mohammadpur Chapra SH 90 Dih Kudariya  
To Karn Kudariya Uttaar Tola. (1st Time Flood)**

**Block:- Mashrahi**

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)(Av.)	HEIGHT (m)(Av.)	UNIT	QUANTITY
1st Time Flood on 10.09.2020							
1	CH-32 M Flank(L/S)	1	7.50	0.90	0.90	CUM	6.08 m <sup>3</sup>
2	CH-32 M Flank(R/S)	1	7.50	0.60	0.60	CUM	2.70 m <sup>3</sup>
3	CH-49 M	1	29.00	6.00	3.65	CUM	635.10 m <sup>3</sup>
4	CH-85 M Flank(L/S)	1	10.00	0.90	1.10	CUM	9.90 m <sup>3</sup>
5	CH-85 M Flank(R/S)	1	2.00	0.90	1.20	CUM	2.16 m <sup>3</sup>
6	CH-100 M Flank(R/S)	1	102.00	2.10	0.90	CUM	192.78 m <sup>3</sup>
7	CH-205 M	1	4.00	6.00	1.50	CUM	36.00 m <sup>3</sup>
8	CH-210 M FLANK	1	117.00	2.00	0.95	CUM	222.30 m <sup>3</sup>
9	CH-330 M	1	2.00	4.00	1.00	CUM	8.00 m <sup>3</sup>
10	CH-335 M Flank(L/S)	1	43.00	2.00	1.00	CUM	86.00 m <sup>3</sup>
11	CH-335 M Flank(R/S)	1	5.00	0.90	0.60	CUM	2.70 m <sup>3</sup>
12	CH-380 M	1	23.00	6.00	3.00	CUM	414.00 m <sup>3</sup>
13	CH-405 M Flank(L/S)	1	11.00	2.20	1.10	CUM	26.62 m <sup>3</sup>

**Estimate for Repair of Road Breaches (Damage By Flood) For  
Name Of Road :- Motarable Work in Mohaminadpur Chapra SH-90 Dih Kudariya  
To Karn Kudariya Uttaar Tola, (1st Time Flood)**

**Block:- Mashrak**

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)(Av.)	HEIGHT (m)(Av.)	UNIT	QUANTITY
14	CH-405 M Flank(R/S)	1	7.00	0.90	1.20	CUM	7.56 m3
15	CH-425 M	1	30.00	6.00	3.50	CUM	630.00 m3
16	CH-460 M Flank(L/S)	1	25.00	1.00	0.90	CUM	22.50 m3
17	CH-488 M Flank(L/S)	1	6.00	1.50	0.90	CUM	8.10 m3
18	CH-490 M	1	4.00	5.50	1.00	CUM	22.00 m3
19	CH-495 M Flank(L/S)	1	17.00	1.45	0.60	CUM	14.79 m3
20	CH-1800 M	1	40.00	6.00	2.90	CUM	696.00 m3
<b>TOTAL QUANTITY =</b>							<b>3045.29 m3</b>

*[Signature]*  
4/12/20

JE  
RWD

*[Signature]*  
04/12/20

AE  
RWD

*[Signature]*

EE  
RWD

### Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
6.6.1 WRD Bihar	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/L.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	287.00	861.00
	Add 6% Overhead Charge				51.66
	Rate for 2.832 Cum				912.66
	<b>Rate Per Cum(Rs.)=</b>				<b>322.27</b>
<b>RCD</b>	<b>Cost of haulage Excluding Loading and Unloading</b>				
	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				
	<b>(i) Surface Road</b>				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity	hour	0.667	549.10	366.25
	Time Taken For onward haulage with load	hour	0.400	549.10	219.64
	Time Taken For empty return trip				35.15
	b) Overhead Charges @0.06 on (a)				621.04
	Cost for 36 t km=(a+b+c)/36				<b>17.25</b>
	<b>Say RS.-</b>				
	<b>ii) Unsurface Gravel Road</b>				
	Speed With load :12 km / hour.				
	Speed for empty return trip :20 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity	hour	0.833	549.10	457.40
	Time Taken For onward haulage with load	hour	0.500	549.10	274.55
	Time Taken For empty return trip 0.50				43.92
	b) Overhead Charges @0.06 on (a)				775.87
	Cost for 36 t km=(a+b+c)/840.34				21.55
	Rate per t.km = (a+b+c)/3623.34				<b>21.55</b>
	<b>Say RS.-</b>				



1.1 RCD Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum						
Placing Tractor at loading point, loading with front loader, 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	305.00	9.15
Mazdóor for loading and unloading			Day	0.72	287.00	206.64
b) Machinery						
Tractor 3.60 tonnes capacity			hour	0.10	549.10	54.91
Front end loader 1 cum bucket capacity @ 25 cum/hour			hour	0.08	1403.00	116.45
c) Overhead charges @ 0.06 on (a+b)						
						23.23
Cost for 2.25 cum = a+b+c+d						410.38
Cost for 2.25 cum = (a+b+c+d)/2.25						182.39
Note- Unloading will be done manually.						
1 Suplying for Brick Bats (With OH )						
			Per Cum		1017.00	1017.00
A Basic Rate of Brick Bats				0.06		61.02
Add overhead Charges 6%						1078.02
Total-						
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 17.25) + (1.6 x 1 x 21.55) + 182.39						410.07
C Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)						
Total (A+B+C)-						1810.36
Add 1% Labour Cess (A+B+C)						18.10
Add 12% GST(A+B+C)						217.24
Add 10% cost of Material for seigniorage Fee				1.00	107.80	107.80
Total Cost per Cum				Rs:-		2153.51

Inspection Report for Flood damage work

Date:  
Name of PIUs-

EERNAD WORKS DIVISION Markapur

2. Name of Block/Road-

Mudraich

**A. For Road**

Repair of Road Breaches (Damage by Flood) for noticable work in Mohammaipurechprashhgodik  
1cu Janipeta (earn kudamyer. Uthartola (2nd)

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

4. Details of Restoration :

- 46m  
cut in Road - Due to Flood & rain

i Material being used in Restoration

- Bricks, Bats

ii Equipment/Tools being used in Restoration works:

- Tactor, Roller, Pilly et

iii Procedure taken up in Restoration works

- Bricks Bats

iv Restored Length

- 46m

**B. For Bridge**

1. Damage Location/Chainage :

2. Damage Length :

3. Nature of Damage :

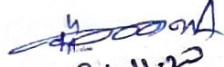
4. Details of Restoration :



i Material being used in Restoration :

ii Equipment/Tools being used in Restoration works:

iii Procedure taken up in Restoration works :

iv Restored Length :

  
21/11/20  
Signature of JE/AE/EE

  
21/11/20  
  
21/11/20  
AE

  
21/11/20  
Signature

(Name of Inspector)



# ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

## FDR

### PLAN HEAD FDR (2245) (2020-2021) (PART-B)



#### ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR MOTARABLE WORK IN MOHAMMADPUR CHAPRA SH 90 DIH KUDARIYA TO KARN KUDARIYA UTTAAR TOLA. (2ND TIME FLOOD)

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Mashrakh	
TOTAL LENGTH OF ROAD	:-	2.010	KM
TOTAL COST OF CONSTRUCTION	:-	10.001	Lac
TOTAL COST OF PROJECT	:-	10.001	Lac

# FDR

## GENERAL ABSTRACT OF COST

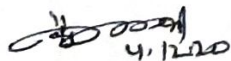
Block:- Mashrakh


District:- Saran

Length of Road:-- 2.010 KM

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Mohammadpur Chapra SH 90 Dih Kudariya To Karn Kudariya Uttaar Tola. (2nd Time Flood)


SL. No.	Item of Work	Amount
A	TOTAL COST	: 10.001 Lacs
	TOTAL	: 10.001 Lacs

  
4.12.20  
Junior Engineer

  
04/12/20  
Asstt. Engineer

  
Executive Engineer

Technically approved to Rs 10,00,100 :- (Ten lakh one hundred)

  
SE 4/12/20  
अधीक्षक अभियंता  
ग्रामीण कार्य विभाग  
कार्य अंचल, छपरा

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Mohammadpur Chapra SH 90 Dlh Kudariya To				Block :-	Mashrakh	DISTRICT:-	Saran	LENGTH :-	2.010 KM
Sl. No.	SDB Sl. No	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
1	8.1.3.2 (iii)		<b>BRICK BATS</b> Providing brick bats including spreading laying, Labour for dry graded jhama khoasolter under Brick Pitching or boulder pitching in 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					464.400	2,153.51	10,00,088.00
									<b>Total Quantity=</b>		
									<b>Quantity As Per Annexure</b>		
									<b>TOTAL COST IN RS.=</b>		<b>10,00,088.00</b>

*[Signature]*  
JE  
RWD


*[Signature]*  
AE  
RWD


*[Signature]*  
EE  
RWD

## ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For Name Of Road :- Motarable Work in Mohammadpur Chapra SH 90 Dih Kudariya To Karn Kudariya Uttaar Tola. (2nd Time Flood)							Block:- Mashrakh
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)(Av.)	HEIGHT (m)(Av.)	UNIT	QUANTITY
1	Providing Brick Bats						
	2nd Time Flood on 10.10.2020						
1	CH-49.50 M	1	21.00	6.00	1.90	CUM	239.40 m3
2	CH-1800 M	1	25.00	6.00	1.50	CUM	225.00 m3
<b>TOTAL QUANTITY =</b>							<b>464.40 m3</b>

  
4/12/20  
JE  
RWD

  
04/12/20  
AE  
RWD

  
04/12/20  
EE  
RWD

## Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
6.6.1 WRD Bihar	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/L.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	287.00	861.00
	Add 6% Overhead Charge				51.66
	Rate for 2.832 Cum				912.66
	<b>Rate Per Cum(Rs.)=</b>				<b>322.27</b>
<b>RCD</b>	<b>Cost of haulage Excluding Loading and Unloading</b>				
	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				
	<b>(i) Surface Road</b>				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.667	549.10	366.25
	Time Taken For empty return trip	hour	0.400	549.10	219.64
	b) Overhead Charges @0.06 on (a)				35.15
	Cost for 36 t km=(a+b+c)/36				621.04
	<b>Say RS.-</b>				<b>17.25</b>
	<b>ii) Unsurface Gravel Road</b>				
	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	549.10	457.40
	Time Taken For empty return trip 0.50	hour	0.500	549.10	274.55
	b) Overhead Charges @0.06 on (a)				43.92
	Cost for 36 t km=(a+b+c)/840.34				775.87
	Rate per t.km = (a+b+c)/3623.34				21.55
	<b>Say RS.-</b>				<b>21.55</b>

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	305.00	9.15
Mazdoor for loading and unloading		Day	0.72	287.00	206.64
b) Machinery					
Tractor 3.60 tonnes capacity		hour	0.10	549.10	54.91
Front end loader 1 cum bucket capacity @ 25 cum/hour		hour	0.08	1403.00	116.45
c) Overhead charges @ 0.06 on (a+b)					23.23
Cost for 2.25 cum = a+b+c+d					410.38
<b>Cost for 2.25 cum = (a+b+c+d)/2.25</b>					<b>182.39</b>
Note-	Unloading will be done manually.				
1 Supplying for Brick Bats (With OH )					
A	Basic Rate of Brick Bats		Per Cum	1017.00	1017.00
Add overhead Charges 6%			0.06		61.02
Total-					1078.02
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 17.25) + (1.6 x 1 x 21.55) + 182.39					410.07
C Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)					
Total (A+B+C)-					1810.36
Add 1% Labour Cess (A+B+C)					18.10
Add 12% GST(A+B+C)					217.24
Add 10% cost of Material for seigniorage Fee					107.80
<b>Total Cost per Cum</b>			Rs:-	107.80	<b>2153.51</b>