



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

PLAN HEAD FDR (2245) (2020-2021)



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

DISTRICT	:-	Saran	
DIVISION	:-	Mahrhaura	
BLOCK	:-	Mashrakh	
TOTAL LENGTH OF ROAD	:-	2.010	KM
TOTAL COST OF CONSTRUCTION	:-	75.581	Lac
TOTAL COST OF PROJECT	:-	75.581	Lac

Inspection Report for Flood damage work

Date: _____
 1. Name of PUA: _____

2. Name of Block/Road: _____

A. For Road

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

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

Signature of JE/AE/EE

Signature

(Name of Inspector)

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 Motorable Work in Mohammadpur Chapra SH 90 Dih Kudariya To Karn Kudariya Uttaar Tola.

SL. No.	Item of Work	Amount
A	TOTAL COST	75.581 Lacs
	TOTAL	75.581 Lacs

Junior Engineer

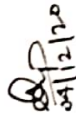
Asstt. Engineer

Executive Engineer

Technically approved for Rs 75.581 Lacs (Rupees seventy five Lacs Fifty-Eight thousand one hundred and one only).

SE RWD

Name Of Road :-			Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Mohammampur 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)		BRICK BATS																
			Providing brick bats including spreading laying,Labour for dry graded Jhama khoa filter 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/Lincluding carriage cost of bricks.																
			Quantity As Per Annexure			Cum					3,509.685					75,58,125.00			
			Total Quantity =								3,509.69	2,153.51							
			TOTAL COST IN RS. =													75,58,125.00			


 09/12/20
 AE
 RWD

JE
 RWD

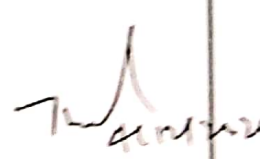

 EE
 RWD

ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Of Road :- Motorable Work in Mohammadpur Chapra SH 90 Dih Kudariya
To Karn Kudariya Uttara Tola.

Block- Mashrak

Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1st Time Flood on 10.09.2020						
CH-32 M Flank(L/S)	1	7.50	0.90	0.90	CUM	6.08 m3
CH-32 M Flank(R/S)	1	7.50	0.60	0.60	CUM	2.70 m3
CH-49 M	1	29.00	6.00	3.65	CUM	635.10 m3
CH-85 M Flank(L/S)	1	10.00	0.90	1.10	CUM	9.90 m3
CH-85 M Flank(R/S)	1	2.00	0.90	1.20	CUM	2.16 m3
CH-100 M Flank(R/S)	1	102.00	2.10	0.90	CUM	192.78 m3
CH-205 M	1	4.00	6.00	1.50	CUM	36.00 m3
CH-210 M FLANK	1	117.00	2.00	0.95	CUM	222.30 m3
CH-330 M	1	2.00	4.00	1.00	CUM	8.00 m3
CH-335 M Flank(L/S)	1	43.00	2.00	1.00	CUM	86.00 m3
CH-335 M Flank(R/S)	1	5.00	0.90	0.60	CUM	2.70 m3
CH-380 M	1	23.00	6.00	3.00	CUM	414.00 m3
CH-405 M Flank(L/S)	1	11.00	2.20	1.10	CUM	26.62 m3

Estimate for Repair of Road Breaches (Damage By Flood) For Name Of Road :- Motorable Work in Mohammadpur Chapra SH 90 Dih Kudariya To Karn Kudariya Uthar Tola.							Block:- Mashrak
No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
13	CH-405 M Flank(R/S)	1	7.00	0.90	1.20	CUM	7.56 m ³
14	CH-425 M	1	30.00	6.00	3.50	CUM	630.00 m ³
15	CH-460 M Flank(L/S)	1	25.00	1.00	0.90	CUM	22.50 m ³
16	CH-488 M Flank(L/S)	1	6.00	1.50	0.90	CUM	8.10 m ³
17	CH-490 M	1	4.00	5.50	1.00	CUM	22.00 m ³
18	CH-495 M Flank(L/S)	1	17.00	1.45	0.60	CUM	14.79 m ³
19	CH-1900 M	1	40.00	6.00	2.90	CUM	696.00 m ³
2nd Time Flood on 10.10.2020							
1	CH-49.50 M	1	21.00	6.00	1.90	CUM	239.40 m ³
2	CH-900 M	1	25.00	6.00	1.50	CUM	225.00 m ³
TOTAL QUANTITY =							3509.69 m ³
JE RWD  24/12/20 JE RWD  EE RWD							

Brick Bats Pitching Manual Means

Sl. No.	Description	Unit	Quantity	Rate	Amount in Rs.
8.8.1	Labour for dry graded phase brick batter under Brick Pitching in boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and dimension E/I.				
With					
80mm					
	Unit Per Cum				
	Labour Output = 2.832 Cum				
	Unit Price Machine	Rs.	3	287.50	861.50
	Add 6% Contingent Charge				51.69
	Rate for 2.832 Cum				912.59
	Rate Per Cum (Rs.) =				322.27
8.8.2	Cost of heafage Excluding Loading and Unloading				
	Heafage of thousands by tractor Excluding Cost of loading, unloading and stacking				
	Unit 1 km				
	Taking about 3.00 tonnes load and load 10 km = 30.0 t.km				
	a) Surface Road				
	Speed With load 15 km / hour.				
	Machine				
	Tractor 3.5 tonnes Capacity				
	Time Taken For round heafage With load	hour	0.567	549.10	309.25
	Time Taken For empty return trip	hour	0.443	549.10	243.64
	b) Contingent Charges (10% of a)				30.92
	Cost for 30 t.km = (309.25 + 243.64) / 30				17.25
	By Rs.				621.04
					17.25
	b) Unsurface Gravel Road				
	Speed With load 12 km / hour.				
	Speed for empty return trip 20 km / hour.				
	Machine				
	Tractor 3.5 tonnes Capacity				
	Time Taken For round heafage With load	hour	0.833	549.10	457.40
	Time Taken For empty return trip 0.50	hour	0.500	549.10	274.55
	c) Contingent Charges (10% of a)				45.74
	Cost for 30 t.km = (457.40 + 274.55) / 30				21.55
	By Rs.				21.55

1.1 RCU 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 Tractor at loading Point		1 Min		
ii) Loading by front end loader 1 cum bucket @ capacity 25 cum per hour		5 Min		
iii) Maneuvering, reverse, dumping and turnig for return		0 Min		
iv) Waiting 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
Cost for 2.25 cum = (a+b+c+d)/2.25				182.39
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)			322.27
	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
	Total Cost per Cum	Rs:-		2153.51