



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 AMARI PAKHA SE MARHAURA BAZAR TAK**

DISTRICT	-:-	Saran	
DIVISION	-:-	Marhaura	
BLOCK	-:-	Marhaura	
TOTAL LENGTH OF ROAD	-:-	2.000	KM
TOTAL COST OF CONSTRUCTION	-:-	7.824	Lac
TOTAL COST OF PROJECT	-:-	7.824	Lac

Inspection Report For Flood Damage Work

Date:

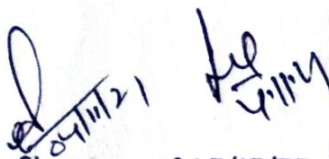
1. Name of PIU - E.E.-R.W.D(W) Marhaura.
2. Name of Block/Road - Marhaura - B Motable wale Anvari to So Marhaura Bazar Teh.

A. For Road

1. Damage Location/ Chainage :- 0.145 k.m.
2. Damage Length :- 0.225 k.m.
3. Nature of Damage :- Ditches close to foot.
4. Details of Restoration :-
- I. Materials being used in restoration : Bone bats, Local sand.
 - II. Equipment/Tools being used in restoration works : Tractor, Roller, J.C.B, Trully. --
 - III. Procedure taken up in Restoration works : Laying & spreading Bone (above)
 - IV. Restored Length : 0.130 k.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

'S'

Signature
03/12/2021

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

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Amari Pakha Se Marhaura Bazar Tak

पथ की लम्बाई:- 2.000 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

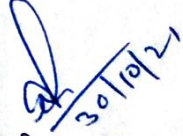
प्राक्कलित राशि:- 782424 रु

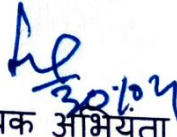
प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटरबुल कार्य हेतु कुल रुपये 782424.000 लाख मात्र के लिए तैयार किया गया है ।
विदित है की गत जून

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 782424.000 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 ।
यु.न.न.न. में 4 वि.2 मदों की मात्रा एवं दर की जांच की गयी है जो ठीक है और इस के अनुसार है


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Marhaura

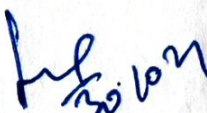
District:- Saran

Length of Road:- 2.000 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amari Pakha Se Marhaura Bazar Tak

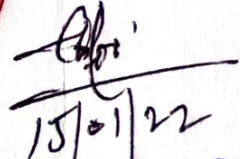
SL. No.	Item of Work	Amount
A	TOTAL COST :	7.824 Lacs
	TOTAL :	7.824 Lacs


30/10/21
Junior Engineer


Asstt. Engineer


Executive Engineer

T/S. for Rs. 7.824/- Lakhs.
(Repres. Seven lakhs Eighty two thousand
four hundred) only.


15/01/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amari Pakha Se Marhaura Bazar Tak										Block :-		Marhaura		DISTRICT:-		Saran		LENGTH :-		2.000 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 folter 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.					Total =	0.000	190.57	0.00												
			Quantity As Per Annexure-1 (For Brick Bats)	Cum				Total Quantity=	326.27	2,300.58	7,50,600.00												
2			Local Sand For Voids Filling Filling and Spreading local sand over brick bats as per drawing and technical specification clause 305.3.9																				
			Quantity As Per Annexure-2 (For Local Sand)	Cum				Total Quantity=	48.79	652.27	31,824.00												
										TOTAL COST IN RS.=										7,82,424.00			


 JE
 RWD


 AE
 RWD


 EE
 RWD

ANNEXTURE-1

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For
Motarable Work in Amari Pakha Se Marhaura Bazar Tak

Block:- Marhaura

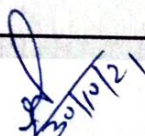
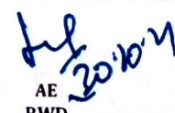
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	150.00	3.30	0.50	CUM	135.00 m3
2	"	1	19.00	3.30	0.75	CUM	47.03 m3
3	"	1	40.00	3.00	0.85	CUM	102.00 m3
4	"	1	16.00	2.20	1.20	CUM	42.24 m3
TOTAL QUANTITY FOR BRICK BATS=							326.27 m3


30/10/21
JE
RWD


30/10/21
AE
RWD


EE
RWD

ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amari Pakha Se Marhaura Bazar Tak							Block:- Marhaura
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	150.00	3.30	0.10	CUM	27.00 m3
2	"	1	19.00	3.30	0.10	CUM	6.27 m3
3	"	1	40.00	3.00	0.10	CUM	12.00 m3
4	"	1	16.00	2.20	0.10	CUM	3.52 m3
TOTAL QUANTITY FOR LOCAL SAND =							48.79 m3
 JE RWD							 AE RWD
							 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	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
Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amari Pakha Se Marhaura Bazar Tak

Saran

District:-

Block :- Marhaura

SI 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	$\frac{8.00}{4.99} \times 10.10 \times 2.00 \text{ Km} = \text{Rs } 32.38$	$\frac{8.00}{4.99} \times 24.30 \times 1.00 \text{ Km} = \text{Rs } 38.96$		113.67			Rs. 185.01

JE
RWDAE
RWDEE
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



1

Agency by which work is executed—

No. and date of agreement.

work.)

First & Final Bill

Amari Pakhase Mohara

Norma Agency - Sat Sunday till

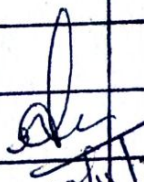
Auth - E-E. R. W. D(w) Molaron

Cello. No. -		date.	
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Continuation

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
<u>Item of Work.</u>					
40.1: Providing bridge work including spreading lying below forming gradual approach to the latter under bridge—					
	5	30	330	0.30	148.50
	1	19	330	0.50	31.35
	1	40	3.00	0.86	103.20
	1	16	2.20	1.20	42.24
					<u>325.29</u>
40.02: Filling & spreading of sand over bridge work as per drawing etc.					

vide 40.					
	5	30	^{2.50} 3.30	0.10	39.0
	1	19	330	0.10	38.0
	1	40	3.00	0.10	
	1	16	2.20	0.10	
	5	30	1.90	0.10	28.50
	1	19	330	0.10	6.27
	1	18	330	0.10	5.94
	1	30	2.00	0.10	6.00
					<u>46.71</u>
 08/11/24 J.E. Arora					

Continuation

