



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 AMNAUR HARNARAYAN BHABU PRATAP SAH KE GHAR TO AMNAUR BARAPOKHAR PMGSY ROAD

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Amnaur	
TOTAL LENGTH OF ROAD	:-	0.415	KM
TOTAL COST OF CONSTRUCTION	:-	6.716	Lac
TOTAL COST OF PROJECT	:-	6.716	Lac

Inspection Report For Flood Damage Work

Date:

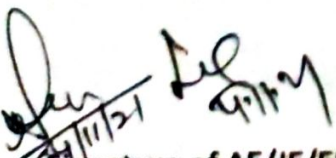
1. Name of PIU - E.E.R.W.D (W) Marhaura.
2. Name of Block/Road - Amnau - Amnau Haryana on State Road Sch 66
Ghat Se To Amnau Pakhal P4GS4 Road.

A. For Road

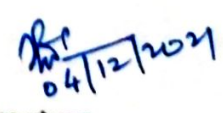
1. Damage Location/ Chainage :- 70 M.
2. Damage Length :- 0.146 Km.
3. Nature of Damage :- Cutting due to Flood.
4. Details of Restoration :-
 - I. Materials being used in restoration : Broken Gats, Local Sand.
 - II. Equipment/Tools being used in restoration works : Roller, J.C.B, Tolly, Roller, et... & C.
 - III. Procedure taken up in Restoration works : Laying Speeding, Paving Libu. et... & C.
 - IV. Restored Length : 0.146 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 :


Executive Engineer
Rural Works Department
Works Division, Marhaura

Signature of AE/JE/EE

'S'

Signature

(Er. Akhilesh Kumar 2)
(Name of Inspector)
EE
RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Amnaur Harnarayan Bhabu Pratap Sah Ke Ghar To
Amnaur Barapokhar PMGSY Road
पथ की लम्बाई:- 0.415 KM.
पथ के क्षतिग्रस्त भाग की लम्बाई:-
प्रखंड:-अमनौर जिला :-सारण
प्रमंडल:-ग्रामीण कार्य विभाग कार्य प्रमंडल,मदौरा
अंचल:-ग्रामीण कार्य विभाग कार्य अंचल,छपरा
प्राक्कलित राशि:- 671617 रु

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटेरबुल कार्य हेतु कुल रुपये 671617.000 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 671617.000 लाख का तैयार किया गया हैजो कार्य हित में आवश्यक एवं जनपयोगी है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है।
प्रमाण में प्रकट मदों की मात्रा एवं दरों की जांच का भी यह है जो पथ के भूखण्ड है


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Amnaur

District:- Saran

Length of Road:- 0.415 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amnaur Harnarayan Bhabu Pratap Sah Ke Ghar To Amnaur Barapokhar
BMCV Road

SL. No.	Item of Work	Amount
A	TOTAL COST	: 6.716 Lacs
	TOTAL	: 6.716 Lacs

[Signature]
30/10/21

Junior Engineer

[Signature]
30.10.21

Asstt. Engineer

[Signature]
1/11/21

Executive Engineer

T/S. for Rs. 6.716/- lakhs.
(Repair 8th lakhs. Security cost thousand.
8th hundred) only
SE
RWD

[Signature]
15/11/22

Superintending Engineer
Rural (Works) Deptt.
Works Circle. Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Annaur Harnarayan Bhabu Pratap Sah Ke Ghar						Block :-		Annaur		DISTRICT:-		Saran		LENGTH :-		0.415 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.																
			Quantity As Per Annexure-1 (For Brick Bats)			Cum					Total Quantity=	276.38	2,300.58	6,35,824.00					
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=	54.88	652.27	35,793.00					
												TOTAL COST IN RS.=		6,71,617.00					

JE
RWD

AE
RWD

EE
RWD

ANNEXTURE-1

**Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Amnaur Harnarayan Bhabu Pratap Sah Ke
Ghar To Amnaur Barapokhar PMGSY Road**

Block:- Amnaur

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	1st km	1	125.00	3.75	0.50	CUM	234.38 m3
2	"	2	20.00	1.50	0.55	CUM	33.00 m3
3	"	2	10.00	1.00	0.45	CUM	9.00 m3
TOTAL QUANTITY FOR BRICK BATS=							276.38 m3

[Signature]
30/10/21
JE
RWD

[Signature]
30.10.21
AE
RWD

[Signature]
EE
RWD

ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Amnaur Harnarayan Bhabu Pratap Sah Ke
Ghar To Amnaur Barapokhar PMGSY Road

Block:- Amnaur

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	"	1	125.00	3.75	0.10	CUM	46.88 m3
2	"	2	20.00	1.50	0.10	CUM	6.00 m3
3	"	2	10.00	1.00	0.10	CUM	2.00 m3
TOTAL QUANTITY FOR LOCAL SAND =							54.88 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	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

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amnaur Harnarayan Bhabu Pratap Sah Ke Ghar To Amnaur District:-- Saran Block :- Amnaur

Sl No	Item with Source	Unit	Source Up to	Pucka / Surface	Carriage Cost & Lead in Km	Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total	Min Total
3	Local Sand	Cum	Local	8.00 4.99	x 10.10 x 2.00 Km = Rs 32.38	8.00 4.99	x 24.30 x 1.00 Km = Rs 38.96	113.67		Rs. 185.01

JE
RWD

AE
RWD

EE
RWD

Analysis of Rates (FORMAT F8)

.2	600	Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9	#REF!	CUM	#REF!
	1	Fine Sand Filling			
		Unit = cum			
	a)	Labour			
		Mate			
		Mazdoor Unskilled	day	0.01	310.00
	b)	Material	day	0.30	304.00
		Sand assuming 20% voids			
	c)	Overheads @6 % on (a+b)	day	1.20	141.75
	d)	Contractor's profit @ 10% on (a+b+c)			15.86
		Rate per cum = a+b+c+d			28.03
		Carriage cost:-			308.29
		Fine Sand	nos.	1.20	185.01
		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