



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 RAFIK KHAN TOLA TO SARAYBAKS PMGSY

DISTRICT	-	Saran	
DIVISION	-	Marhaura	
BLOCK	-	Amnaur	
TOTAL LENGTH OF ROAD	-	0.825	KM
TOTAL COST OF CONSTRUCTION	-	2.720	Lac
TOTAL COST OF PROJECT	-	2.720	Lac

Inspection Report For Flood Damage Work

Date:

1. Name of PIU - *E.E. R.W.D (W) Morhama.*
2. Name of Block/Road - *Amnara - Rafik Khan Tola To Sagay Bales 07954.*

A. For Road

1. Damage Location/ Chainage :- *0.300 Km.*
2. Damage Length :- *45.50 M.*
3. Nature of Damage :- *Ditches due to Flood.*
4. Details of Restoration :-
- I. Materials being used in restoration : *Brick Bats, Local Sand.*
 - II. Equipment/Tools being used in restoration works : *Tractor, Roller, J.C.B. Trolley, etc.*
 - III. Procedure taken up in Restoration works : *Supplying, Laying, Rolling.*
 - IV. Restored Length : *0.037 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 :

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

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Rafik Khan Tola To Saraybaks PMGSY

पथ की लम्बाई:- 0.825 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:- 272024 रु

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटेरेबुल कार्य हेतु कुल रुपये 272024.000 लाख मात्र के लिए तैयार किया गया है। विदित है की गत जून

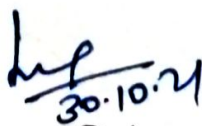
महीने से सितम्बर अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथो पर आवागमन बुरी प्रभावित हो गया। ऐसी परिस्थिति में पथो पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियोंसे प्राप्त आदेश एवं इस संबंधमें विभाग से निर्गत दिशा 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 272024.000 लाख का तैयार किया गया है जो कार्य हित में आवश्यक एवं जनपयोगी है।

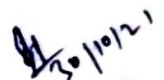
प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है। प्राक्कलन में प्रविष्ट मदों की मिला एवं दा की गई की की गई है जो उनके अनुषंग है।


30/10/21

कनीय अभियंता


30.10.21

सहायक अभियंता


30/10/21

कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Amnaur

District:- Saran

Length of Road:- 0.825 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Rafik Khan Tola To Saraybaks PMGSY

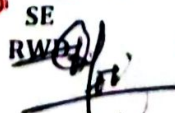
SL. No.	Item of Work	Amount
A	TOTAL COST :	2.720 Lacs
	TOTAL :	2.720 Lacs


30/10/21
Junior Engineer


30/10/21
Asstt. Engineer


Executive Engineer

T/S for Rs. 2.720/- Lacs.
(R.P.S. for Lacs. Security two thousand only)

SE
RWB

15/11/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Rafik Khan Tola To Saraybaks PMGSY									
Sl. No.	SDB SL. NO	MORD Ref.No	Description	Unit	NOS	Block :-	Amnaur	DISTRICT:-	Saran	LENGTH :-	AMOUNT (in Rs.)
							WIDTH	HEIGHT	QUANTITY	RATE	
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=						114.30	2,300.58	2,62,957.00
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=						13.90	652.27	9,067.00
TOTAL COST IN RS.=										2,72,024.00	

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ANNEXTURE-1

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For
Motarable Work in Rafik Khan Tola To Saraybaks PMGSY

Block:- Amnaur

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	1st km	2	40.00	1.60	0.85	CUM	108.80 m3
2	"	2	5.50	1.00	0.50	CUM	5.50 m3
TOTAL QUANTITY FOR BRICK BATS=							114.30 m3

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ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Rafik Khan Tola To Saraybaks PMGSY

Block:- Amnaur

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	1st km	2	40.00	1.60	0.10	CUM	12.80 m3
2	"	2	5.50	1.00	0.10	CUM	1.10 m3
TOTAL QUANTITY FOR LOCAL SAND =							13.90 m3

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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 / 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					
Mazdoor for loading and unloading	Day	0.03	316.00		9.48
b) Machinery	Day	0.72	304.00		218.88
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				
	Add overhead Charges 6%	Per Cum	#####		1006.00
	Total-		0.06		60.36
					1066.36
	Surface Lead				
	Unsurface Lead	km	7.00		
	Factor(3.6/2.25)	km	1.00		
		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)-				341.36
	Add 1% Labour Cess (A+B+C)				1941.55
	Add 12% GST(A+B+C)				19.42
	Add 10% cost of Material for seigniorage Fee				232.99
	Total Cost per Cum		1.00	106.64	106.64
		Rs:-			2300.58

Analysis for Carriage by Road & Rail

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Rafik Khan Tola To Saraybaks PMGSY

Saran

FORM F8

Block :- Annanaur

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Carriage Cost by Rail Head	Loading & Unloading Cost	Total	Min Total
				Pukka / 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


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Analysis of Rates (FORMAT F8)

		#REF!	CUM		#REF!
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				
	Mazdoor Unskilled	day	0.01	310.00	3.10
b)	Material	day	0.30	304.00	91.20
	Sand assuming 20% voids				
c)	Overheads @6 % on (a+b)	day	1.20	141.75	170.10
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	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