



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 SIMR TO ANDHARWARI, FARIDANPUR ARDEVA PATH**

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Taraiya	
TOTAL LENGTH OF ROAD	:-	3.500	KM
EFFECTIVE LENGTH OF ROAD	:-	0.046	KM
TOTAL COST OF CONSTRUCTION	:-	1.547	Lac
TOTAL COST OF PROJECT	:-	1.547	Lac

पथ का नाम :- सिरमी से अरईवा, फरीदपुर आरईवा ।

पथ की लम्बाई :- 3.500 किमी.

इतिहासिक भाग की लम्बाई :- 0.046 किमी.

प्राक्कल्पित शक्ति :- 1.547 लाख

प्रयत्न - तरैया, जिला - साधवा

प्रतिवेदन

प्रस्तुत प्राक्कल्पन ग्रामीण कार्य विभाग, कार्य प्रमण्डल मर्दोरा के अन्तर्गत प्रयत्न-तरैया के सिरमी से अरईवा पथ में मोटेरेबल कार्य हेतु कार्यपालक अभियंता, कार्य प्रमण्डल मर्दोरा के निर्देशानुसार तैयार किया गया है।

इस पथ का पचांस गंडक नदी के किनारे साधवा-पश्चिम तरबूत के बगल में पड़ता है। गंडक नदी में आयी बाढ़ से पथ में कचरा उत्पन्न हो गया था। कार्यपालक अभियंता मर्दोरा एवं अभियंता अभि-द्वारा द्वारा स्वयं निरीक्षण किया गया। निरीक्षण के दौरान दिखे गये निर्देशानुसार ~~उत्पन्न~~ तत्काल उचित कार्य करवा मोटेरेबल कार्य किया गया है।

कार्य का प्राक्कल्पन तैयार कर आवश्यक कारवाई एवं स्वीकृति हेतु समर्पित किया जा रहा है।

5.11.21

कठईरा

तरैया

अमर
5.11.21
कठईरा
तरैया

अमर
कार्यपालक अभि
कार्य प्रम-मर्दोरा

Date:

Inspection Report for Road damage work

1. Name of PUs: Executive Engineer, RWD Marhaura

2. Name of Block/Road: Taraiya, Sismi to Anelharwari, Faridampur.
Asdeva path

A. For Road

1. Damage Location/Chainage : 3100, 3200

2. Damage Length : 0.046 Km

3. Nature of Damage : Road cutting

4. Details of Restoration :

i Material being used in Restoration : Brick bat

ii Equipment/Tools being used in Restoration works: Tractor, Roller

iii Procedure taken up in Restoration works : Brick bat filling

iv Restored Length : 0.046 Km

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

Executive Engineer
Rural Works Department
Works Division, Marhaura

Signature

(Name of Inspector)

FDR

GENERAL ABSTRACT OF COST

Block:- Taraiya

District:- Saran

Length of Road:- 3.500 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Simri To Andharwari, Faridapur Ardeva Path

SL. No.	Item of Work	Amount
A	TOTAL COST	1.547 Lacs
	TOTAL	1.547 Lacs

S. 11.2021

Junior Engineer

S. 11.21

Asstt. Engineer

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Executive Engineer

T/S. for Rs. 1,54,700/- (Rupees, One Lakh fifty four thousand seven hundred) only.

SE
RWD

S. 11.21
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Simri To Andharwari, Faridapur Ardeva Path				Block :-	Taraiya	DISTRICT:-	Saran	LENGTH :-		3.500 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)	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.								1,50,320.00	
			Quantity As Per Annexure-1 (For Brick Bats)	Cum					65.34	2,300.58		
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					6.68	652.27	4,354.00	
											TOTAL COST IN RS. =	
											1,54,674.00	


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ANNEXTURE-1

Name Of Road : Estimate for Repair of Road Breaches (Damage By Flood) For
Motarable Work in Simri To Andharwari, Faridanpur Ardeva Path

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTITY
1	CH-3100 M	1	5.00	1.50	1.50	CUM	11.25 m3
2	"	1/2	12.00	6.00	1.20	CUM	43.20 m3
3	"	1	10.00	0.60	0.60	CUM	3.60 m3
4	3200	1	7.00	0.60	0.45	CUM	1.89 m3
5	"	1	12.00	0.75	0.60	CUM	5.40 m3
TOTAL QUANTITY FOR BRICK BATS=							65.34 m3

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5-11-2021
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ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For
 Name Of Road :- Motarable Work in Simri To Andharwari, Faridanpur Ardeva
 Path

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-3100 M	1	5.00	1.50	0.10	CUM	0.63 m3
2	"	1/2	12.00	6.00	0.10	CUM	3.60 m3
3	"	1	10.00	0.60	0.10	CUM	0.90 m3
4	"	1	7.00	0.60	0.10	CUM	0.42 m3
5	"	1	12.00	0.75	0.10	CUM	1.08 m3
TOTAL QUANTITY FOR LOCAL SAND =							6.68 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 / 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	3201.00	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	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 Motorable Work in Simri To Andharwari, Faridanpur Ardeva Path

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

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Analysis of Rates (FORMAT FS)

		Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9			
11.2	600	1	Fine Sand Filling		
			Unit = cum		
		a)	Labour	day	0.01
			Mate	day	0.30
			Mazdoor Unskilled		
		b)	Material	day	1.20
			Sand assuming 20% voids		
		c)	Overheads @6 % on (a+b)		
		d)	Contractor's profit @ 10% on (a+b+c)		
			Rate per cum = a+b+c+d		
			Carriage cost:-		
			Fine Sand	nos.	1.20
					185.01
			Cost per cum including Carriage		222.01
			Labour cess 1%		530.30
			GST 12%		5.30
			Seignorage 10%		63.64
					53.03
			TOTAL COST	cum	652.27

Name of ^{Person} ~~Work~~ ^{The} ~~A~~ ^{And} ~~has~~ ^{has} ~~bari~~ ^{farid} ~~qanbar~~ ^{qanbar} ~~And~~ ^{And} ~~sons~~ ^{sons}
Path.

Schedule XLV-Form No. 134

M.B No- 206

DIVISION

Taxing

SUB-DIVISION

WEASURPMENT BOOK

Name to work—
 Situation of work—
 Agency by which work is executed—
 Date of measurement—
 No. and date of agreement.
 (These four lines should be repeated at the commencement of the measurements relating to each work.)

Particulars	Details of actual measurement				Contents of area
	No.	L.	B.	D.	
	F. D. R.				
Name of work - Motorable of					
work in road from Simi					
To Andharbare, Pannanpur.					
Ardena Path.					
If Agency:- Raj Kumar Singh					
Authority:- E. E. RWD, work					
Division, Madhaur.					

① Bracing Brick Batt Paving					
Including spreading and					
laying etc. as per comp. spec.					
Sl. No.	L	B	D		Qty
3100 - 1	5.00	1.50	1.50		11.25 m ³
" - 1/2	12.00	6.00	1.00		43.20 m ³
" - 1	10.00	0.60	0.60		3.60 m ³
3200 - 1	7.00	0.60	0.45		1.89 m ³
" - 1	12.00	0.75	0.60		5.40 m ³
					65.34 m ³
② Pavement Small Paving					
	5	1.50	0.10		0.75 m ³
	1/2	12.00	6.00	0.10	3.60 m ³
	10.00	0.60	0.10		0.60 m ³
	7.00	0.60	0.10		0.42 m ³
	12.00	0.75	0.10		0.90 m ³
Continuation					6.27 m ³

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Sch. XLV—Form No. 134 *S.E. Ryd Chapter 2*

Material		
(1)	Brake Bats	65.34 uB
(2)	Local Seed	6.27 uB
10.11.22		10.11.22
A.E		