



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 APPROCH ROAD OF RCC BRIDGE IN TARAIYA TO AGRAHARPUR ROAD

DISTRICT	-	Saran	
DIVISION	-	Marhaura	
BLOCK	-	Taraiya	
TOTAL LENGTH OF ROAD	-	4.480 5.50 km	KM
EFFECTIVE LENGTH OF ROAD	-	0.025	KM
TOTAL COST OF CONSTRUCTION	-	1.573	Lac
TOTAL COST OF PROJECT	-	1.573	Lac

कार्य का नाम:- तरैया से अग्रहरपुर पथ में २.०८ किलोमीटर
पड़ैय पथ में मोटेरेवाल कार्य ।

पथ की लम्बाई:- ५.५० किलोमीटर

पथ में क्षतिग्रस्त भाग की लम्बाई:- ०.०२५ किलोमीटर

प्राक्कल्पित राशि:- १.५७३ लाख

प्रखण्ड:- तरैया, जिला - धारण

प्रतिवेदन

प्रस्तुत प्राक्कल्पन ग्रामीण कार्य विभाग, कार्य प्रमजल-मंडोरा के अन्तर्गत प्रखण्ड-तरैया के तरैया से अग्रहरपुर पथ में पड़ैय पथ में निर्मित पुल के पड़ैय पथ में ताल से क्षतिग्रस्त भाग में मोटेरेवाल कार्य हेतु कार्यपालक अभियंता, कार्य प्रमजल-मंडोरा के निर्देशानुसार तैयार किया गया कार्य का प्राक्कल्पित राशि १.५७३ लाख रुपये मात्र है।

उक्त नदी में अतिवृष्टि के कारण बाढ़ से पुल के पड़ैय पथ क्षतिग्रस्त होने के कारण आवागमन में कठिनाई हो रही थी। कार्यपालक अभियंता मंडोरा एवं अप्पीकरण अभियंता धारण के द्वारा स्थलनिरीक्षणोपरान्त दिने उक्त निर्देशानुसार ४ मीटर ब्रिज से कम की अरकर workable कार्य किया गया है।

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

5-11-21
क० अ०
तरैया

5-11-21
स० अ०
तरैया

कार्य अभि०
कार्य प्र० मंडोरा

Inspection Report for flood damage work

Date:

1. Name of PUs-

Executive Engineer, RWD, Madhavur

2. Name of Block/Road- Torrayy, Approach Road of R.C.C Bridge in

A. For Road

Torrayy to Agrahampur Road

1. Damage Location/Chainage : 2500 (Near R.C.C Bridge)

2. Damage Length :

0.025 Km

3. Nature of Damage :

Shoulder Cutup

4. Details of Restoration :

i Material being used in Restoration

: Brick Bats, Sand

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

iii Procedure taken up in Restoration works

: Brick Bats blup

iv Restored Length

: 0.025 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

21/11/2021

Signature of JE/AF/EE

21/11/21

21/11/21

5/11/2021

Signature

(Er. Atchilesh Kumar)

(Name of Inspector)

E.E

RW.D (W)-Sonepur

FDR

GENERAL ABSTRACT OF COST

Block:- Taraiya

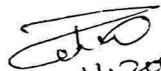
District:- Saran

Length of Road:-- 4.480 KM

Name of Road:--

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work
in Approach Road of RCC Bridge in Taraiya To Agraharpur Road

SL. No.	Item of Work	Amount
A	TOTAL COST :	1.573 Lacs
	TOTAL :	1.573 Lacs


5.11.2021

Junior Engineer


5.11.2021

Asstt. Engineer


5.11.2021

Executive Engineer

T/S. for Rs. 1,57,300/- (Rupees One lakh
fifty seven thousand three hundred) only.

SE
RWD


26/11/21
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Approach Road of RCC Bridge in Taraiya To				Block :-	Taraiya	DISTRICT:-	Saran	LENGTH :-	4.480 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.								
			Quantity As Per Annexure-1 (For Brick Bats)	Cum					67.50	2,300.58	1,55,289.00
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					3.05	652.27	1,986.00
TOTAL COST IN RS. =										1,57,275.00	


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ANNEXTURE-1

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Approach Road of RCC Bridge in Taraiya To
Agraharpur Road

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTIT"
1	CH-2500 M	1	13.00	(2+1.5+1)/3	2.50	CUM	48.75 m3
2	"	1	6.00	1.25	1.50	CUM	11.25 m3
3	"	1	6.00	1.25	1.00	CUM	7.50 m3
TOTAL QUANTITY FOR BRICK BATS=							67.50 m3

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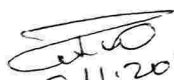
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ANNEXTURE-2

Estimate for Repair of Road Breaches (Damage By Flood) For
Name Of Road :- Motarable Work in Approach Road of RCC Bridge in Taraiya To
Agraharpur Road

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-2500 M	1	13.00	(2+1.5+1) /3	0.10	CUM	1.76 m3
2	"	1	6.00	1.25	0.10	CUM	0.75 m3
3	"	1	6.00	1.25	0.10	CUM	0.54 m3
TOTAL QUANTITY FOR LOCAL SAND =							3.05 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	Nos.	3	304.00	912.00
	Unskilled Mazdoor				54.72
	Add 6% Overhead Charge				966.72
	Rate for 2.832 Cum				341.36
	Rate Per Cum(Rs.)=				
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 frontloader, dumping, turning 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 turning for return		0 Min		
	iv) Waiting 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	Supplying 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 Approach Road of RCC Bridge in Taraiya To Agraharpur Road

Name of Road:-- District:--

Block:- Taraiya

Sl 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	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. 165.01

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Analysis of Rates (FORMAT F8)

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 Carriage				530.30
		Labour cess 1%				5.30
		GST 12%				63.64
		Seigniorage 10%				53.03
		TOTAL COST	cum			652.27