

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR YEAR 2021-22

DISTRICT:- EAST CHAMPARAN

BLOCK:- TETARIA

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in TO2 To KOTHIA

LENGTH OF ROAD (in Km)- 2.371 KM

ESTIMATED COST - 6.303 Lacs 5.932

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
PAKRIDAYAL

पथ का नाम:- ७०० द्रो न्तीरिया

प्रखंड का नाम :- देत्ररीया

पथ की लम्बाई :- 2 371 K·M

F. D.R शीर्ष:-

प्राक्कलित राशिः 6. 303 लाउन

योजना शीर्ष :- क. m. ca. s. y

उपरोक्त योजना का प्राक्कलन सचिव, ग्रामीण कार्य विभाग, बिहार पटना के पत्रांक 1937 दिनांक 07.07.2021 के द्वारा दिए गए निदेश के आलोक में एवं कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पकड़ीदयाल के निदेशानुसार स्थल जॉचोपरान्त तैयार किया गया है। माह मई 2021 से अक्टुबर 2021 के बीच प्रलयंकारी बाढ़ एवं अतिवृष्टि के कारण उक्त पथ में अनेक स्थानों पर कटाव हो गया था जिस कारण पथ से होकर आवागमन बाधित हो गया था। पथ से होकर तत्काल आबागमन चालू करने हेतु क्षतिग्रस्त भाग में तत्काल उपलब्ध हो सके सामग्री यथा—ईंट टूकडा / स्थानीय बालू / बॉस—बल्ला / खाली सिमेंट बैग / हयूम पाईप आदि आवश्यकतानुसार उपयोग करने का प्रावधान किया गया है। यह कार्य निदेशानुसार विभागीय रूप से करा दिया गया है।

यह प्राक्कलन अद्यतन अनुसूचित दर पर संवेदक लाभ रहित तैयार

किया गया है। जनहित में इसकी स्वीकृति अपेक्षित है।

कनीय अभियंता ग्रामीण कार्य विभाग, प्रशाखा, ते.तर्राप्रा

सहायक अभियंता ग्रामीण कार्य विभाग,

कार्यपालक् ग्रामीण कार्य विभाग, कार्य अवर प्रमंडल,..... कार्य प्रमंडल, पकड़ीदयाल।

GENERAL ABSTRACT OF COST

ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR MOTORIBILITY IN T02 TO KOTHIA

DISTRICT - EAST CHAMPARAN

BLOCK - TETARIA

<u>DIVISION - PAKRIDAYAL</u> <u>LENGTH OF ROAD (in Km)- 2.371 KM</u>

SL. No.	Item of Work	- 7	Amount
1	EARTH WORK		0.000 Lac
2	BRICK BATS	-2	5.311 Lac
3	SAND BAGS		0.000 Lac
4	HUME PIPE	:	0.000 Lacs
	COST OF RESTORATION	:	5.311 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST	:	0.302 Lacs
1.	ADD LABOUR CESS @ 1%	•	0.053 Lacs
	ADD GST @ 12%		0.637 Lacs
	TOTAL COST OF RESTORATION OF ROAD	T 1:	6.303 Lacs

Junior Engineer

Asstt. Engineer

Executive Engineer

SI No.	Item No.	Name of Item	unit	õ	Length	Width	Height	Qfy.	Rate	Amount
1		EARTH WORK - Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5			As F Appen	er		0	183.70	0
2		Providing and Labour for laying dry graded Brick Bats including light ramming etc. all complete as per approved design, specification and direction of E/I.	cum		As P Append	55.70		305.930	4736.04 1938.89	5931
3		Providing Filling Cond Dec. Col. 11	Nos.		-		-	0.000	24.45	0.00
		Providing and laying 1000 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonary.	RM		0 Nos*	2.5m		0.000	6086.50	0.00
		Providing and laying 600 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonary.	RM		0 Nos*2	2.5m		0.000	2545.18	0.00
					8	cu	9	597	320	0.9

Junior Engineer, Rural Works Department, Works Section, TETARIA

Assistant Engineer, Rural Works Department, Works Sub Division, TETARIA

Executive Engineer, Rural Works Department, Works Division, PAKRIDAYAL

A Maria	May V		SEIGNIC	ORAG	E FEE CA	LCULATIO	N SHEET	и пете	to to start 2	127 5750 5750 5
Item dexeription	unit	Quantity of Consuming Item	Materials Required/ Unit	Unit	Quantity/ Unit	Total Quantity Requeired	Rate	Amount	Seigniorage Fee (RS)	Final Amount (RS)
Earth Work	Cum	0.00	Earth	Cum	1.0	0.00	34.82	0.00	0.00	0.0
Brick bats	Cum	305.93	Brick bats	Cum	1.0	205.00			0.00	0.00
Sand Bags	per bag			1,000	1.0	305.93	987.00	301952.91	30195.29	30195.29
	por bag	0.00	sand	Cum	0.034	0.00	141.85	0.00	0.00	0.00
1000 MM Dia	RM	0.00	Sand at site	Cum	0.04	0.00	175.80	0.00	0.00	
600 MM Dia	RM	0.00	Sand at site	Cum	0.0032	A COL			0.00	0.00
497 0	DH TOTAL	March States				0.00	175.80	0.00	0.00	0.00
		Total Am	ount of segino	rage fee	in construct	ion (Rs)				30195.29
			THE PERSON NAMED IN				经验的有效	THE RESERVE	CONTRACTOR ASSESSMENT	NAME OF STREET

26/10/02/ 5.E

23/1/ev/

Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for Motoribility in T02 To KOTHIA

SI.	Chainage	Tor surfacin	ent for surfacing the Breach with Brick Bats							
No.		zengui (WI)	Av. Width (M)	Thickness (M)	Quantity (cum)					
2	0.200 To 0.600	11.000	1.500	1.100	18.150					
3		2.000	1.100	0.900	1.980					
4		3.000	1.000	1.000	3.000					
5		8.000	1.400	2.000	22,400					
6		2.000	1.500	2.100	6.300					
7		40.000	1.100+0.700/2	1.800	64.800					
8	0.650 To 0.900	38.000	1.200+0.800/2	1.700	64.600					
9		40.000	1.300+0.850/2	1.500	64.500					
		40.000	1.400+0.750/2	1.400	60.200					
D	Deduction for ONos old 1000 mm HP at 0 m (3.142*0.36*0)									
D	Deduction for 0Nos old 600 mm HP at 0 m (3.142*0.36*0)									
	a Alles		Net Qu	antity of Brick Bats	305 93					

Junior Engineer

Asistant Engineer

Executive Engineer

BRICK BATS PITCHING MANUAL MEANS

6.6.1 WRD Bihar	Labour for laying dry graded Jhama Kh Pitching in slope or apron including I design, specification and direction of E/I	oa or sto		rick Pitchir oplete as p	ng or Boulde				
	Unit :- Per Cum		7						
	Taking Output = 2.832 Cum								
	Unskilled Mazdoor	Nos.							
	Rate for 2.832 Cum	1405.	3	304.00	912.00				
	Rate per Cum (Rs.) -	-		2,11, 42/4/4	912.00				
1.4 RCD			-		322.03				
1.4 KCD	Cost of Haulage Excluding Loading and U	Inloading							
	Haulage of materials by Tractor excluding Unit = t.km	cost of lo	ading unleading	State States					
	Unit = t.km	3000 01 10	durig, unloading	and stackin	g.				
	Taking output 3.60 tonnes load and lead (i) Surfaced Road	10 km = 3	6.0 t.km						
	Try carraced Road								
	Speed with load: 15 km / hour.								
	Speed while Returning empty :25 km / ho a) Machinery.	ur.							
	Tractor 2 C.		10.50						
	Tractor 3.6 tonne capacity		9						
	Time taken for onward haulage with load	hour	0.667	612.00					
-	Time taken for empty return trip.	hour	0.400	612.00	408.2				
	cost for 36 t km = a+b+c		0.400	612.00	244.8				
	Rate per t.km = (a+b+c)/36				653.00				
	Say Rs				18.14				
				100	18.14				
	(ii) Unsurfaced Graveled Road								
	Speed with load: 12 km / hour								
	Speed for empty return trip :20 km / hour		1						
	a) Machinery								
	Tractor 3.6 tonnes capacity								
	Time taken for onward haulage with load	hour							
	Time taken for empty return trin hour of	hour	0.833	612.00	509.80				
	Cost for 36 t .km = a+b+c 840.34	nour	0.500	612.00	306.00				
	Rate per t.Km = $(a+b+c)/36$				815.80				
	Say Rs				22.66				
				157	22.66				

1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Brick Bats/Jhama Metal/Sa/Kanker/Moorum Placing Tractor at loading point, loading with frontloader, dumping, turning for return treexcluding for haulage and return trip							
		Taking output = 2.25 cum			_			
	Time required for							
	i) Positioning of Tractor at loading point							
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour	4	1 Min	Continue	اسبطاعه			
	iii) Maneuvering, reversing, dumping and turning for return	i	5 Min					
	iv) Waiting time, unforeseen		0 Min					
	contingencies etc		0.14					
	Total		0 Min	_				
	a) Labour		6 Min					
	Mate	day	0.00					
	Mazdoor for loading and unloading		0.03	321.00	9.6			
	b) Machinery	day	0.72	304.00	218.8			
	Tractor 3.60 tonnes capacity	E 27						
	Front end-loader 1 cum bucket capacity	hour	0.1	612.00	61.2			
	@ 25 cum/hour	hour	0.083	1594.00	132.3			
	Cost for 2.25 cum = a+b+c+d			1	422.01			
Note:-	Rate per cum = (a+b+c+d)/ 2.25				187.56			
vote:-	Unloading will be done manually.		ł		107.50			
1.	Suplying for Brick Bats	T 9	11111					
Α.	Basic Rate of Brick Bats	Per Cum		987.00	007.00			
	Total -			387.00	987.00 987.00			
	Surface Lead	КМ			987.00			
	Unsurface Lead	KM	7					
	Factor (3.6/2.25)	Cum	1					
В.		Cum	1.60					
D.	Carriage							
	(1.6 x 7 x 18.14) + (1.6 x 1 x 22.66) + 187.5	6			426.98			
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1				720.58			
	Total (A+B+C) -				322.03			
					1736.01			
	Total Cost per Cum			Rs	1736.01			

26/16/02/ J.E

26/10/4 26/10/4 Are 100 mg

Inspection Report For Flood Damage Work

Date :-

- 1. Name of PIUs- Executive Engineer, RWD. Pakridayal.
- 2. Name of Block Tetaria
- 3. Name of Road T02 TO KOTHIA.

(A) For Road

- 1. Damage Location/Chainage :- 0.200 To 0.600 & 0.650 To 0.900
- 2. Damage Length :- 184.00 Meter.
- 3. Cause of Damage :- Due To Flood 2021/ Heavy Rain.
- 4. Nature of Damage :- Ditches/Breaches
- 5. Details of Restoration Work:-
 - Material being used in restoration works :- Bricks Bat/Jhamma Metal/ Rabis/Hume Pipe (i)
 - Equipment/Tools being used in restoration Works :- J.C.B./Tractor/Trolley/Others (ii)
 - Procedure Taken up in restoration works :- Emergent Repair. (iii)
 - (iv) Restored Length: - 184.00 Meter.

Signature of Inspecting officer (Executive Engineer) R.W.D. (W.D) Dhaka.