



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

ELAN HEAD FDR(2245)
(2020-2021)



ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY
FLOOD) FOR MOTARABLE WORK IN GOPALWARI TO KUMHAILA
VIA DIYALA PATH TAK.

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Mashrakh	
TOTAL LENGTH OF ROAD	:-	5.500	KM
TOTAL COST OF CONSTRUCTION	:-	13.87	Lac
TOTAL COST OF PROJECT	:-	13.87	Lac

Inspection Report for Flood Damage Work

Date:

1. Name of PIUs – EE RWD works Division Marhaura
2. Name of Block/Road – Mohan work in Gopalwari to kumhauka via Dola
Block - Musakh

A. For Road

1. Damage Location/Chainage : Ch. 0.70 km, 0.80 km & 1.30 km
2. Damage Length : 94 M
3. Nature of Damage : cutting in road due to flood
4. Details of Restoration Works :
 - i. Material being used in Restoration works : Brck ball
 - ii. Equipments/Tools being used in Restoration works : Tractor, Trolley etc
 - iii. Procedure taken up in Restoration works : Dumping, spreading, compacting
 - iv. Restored Length : 94 M

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage : N/A
4. Details of Restoration Works :
 - i. Material being used in Restoration works :
 - ii. Equipments/Tools being used in Restoration works :
 - iii. Procedure taken up in Restoration works :
 - iv. Restored Length :

C. Requirement of new CD/Bridge

- i. Name of Road :
- ii. Location/Chainage : N/A
- iii. Type of CD work/Length required :

- Upload one Photograph of damaged portion if available
- Attach minimum two photograph (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode.

Signature of JE/AE/EE
5-12-20

Signature

(Name of Inspector)

प्रतिवेदन

कार्य का नाम :- गोपालवारी से कुम्हौला भाया डोयला पथ।

शीर्ष :- FDR

प्राक्कलित राशि:- 13.87 लाख।

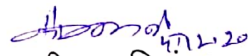
प्रखण्ड का नाम:- मशरख।

जिला-सारण।

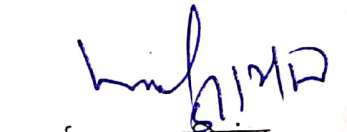
प्रस्तुत प्राक्कलन शीर्ष PMGSY/MMGSY/GTSNY/NABARD/MR-3054 अर्तगत निर्मित/निर्माणाधीन पथ के गत महीने में इस जिला में आये बाढ़/अतिवृष्टि के कारण क्षतिग्रस्त हुए पथों को चलने लायक (Motarable) बनाने हेतु विभागीय दिशा-निर्देशानुसार कार्यपालक अभियंता, ग्रा0का0वि0, कार्य प्रमंडल मढ़ौरा के दिशा-निर्देशन में कुल रु0 13.87000 लाख के लिए तैयार किया गया है।

आवश्यकतानुसार तत्काल प्रभाव से पथों को चलने लायक बनाने हेतु प्राक्कलन में Bricks Bats, Sand Bag, Hume-Pipe इत्यादी का प्रावधान आवश्यक लम्बाई, चौड़ाई एवं मोटाई में प्राक्कलन के अनुसार प्रावधान किया गया है।

योजना एवं कार्य की महत्ता के साथ-साथ जनहित के लिए अतिउपयोगी प्राक्कलन को कार्यहित में स्वीकृति हेतु प्रस्तुत किया जा रहा है।


कनीय अभियंता,


04/12/2020
सहायक अभियंता


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मढ़ौरा।

FDR

GENERAL ABSTRACT OF COST

Block:- Mashrakh

District:- Saran

Length of Road:- 5.500 KM

Name of Road:- Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work In Gopalwari To Kumhaila Via Diyala Path Tak.

Sl. No.	Item of Work	Amount
A	TOTAL COST	13.87 Lacs
TOTAL		13.87 Lacs


9.12.20
Junior Engineer


04.12.20
Asstt. Engineer


9/12/20
Executive Engineer

T.A For Rs- 13.87 Lacs (thirteen lacs eighty seven thousand rupees)
10.12.20
SE
RWD

Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work In Gopalwari To Kumbhalla Via Diyala Path (T.P. 100)											
Name Of Road :-		Description				Unit		NOS		Block (P)	
Sl. No.	SDB Sl. No.	MORD Ref. No.									
BRICK BATS											
1	B.1.3.2 (III)		Providing brick bats including spreading laying Labour for dry graded blum's foot roller 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/Including carriage cost of bricks.								
Quantity As Per Annexure											
Cum											
Total Quantity= 644.04											
2.153.51											
1386947.10											
TOTAL COST IN RS= 1386947.00											

ANNEXTURE-1

Name Of Road : Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Gopalwari To Kumbhalla Via Diyala Path Tak							Block : Mashrafi
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
1	CH-1.300KM	1	13.00	6.00	3.10	CUM	241.80 m ³
2	CH-0.800KM	1	24.00	5.00	1.30	CUM	156.00 m ³
3	CH-0.700KM	1	57.00	4.80	0.90	CUM	246.24 m ³
TOTAL QTY.							644.04 m ³

[Signature]
JE
RWD

[Signature]
04/12/20
AE
RWD

[Signature]
EE
RWD

Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
66.1 WRD Bihar	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	287.00	861.00
	Add 6% Overhead Charge				51.66
	Rate for 2.832 Cum				912.66
	Rate Per Cum(Rs.)=				322.27
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	549.10	366.25
	Time Taken For empty return trip	hour	0.400	549.10	219.64
	b) Overhead Charges @0.06 on (a)				35.15
	Cost for 36 t km=(a+b+c)/36				621.04
	Say RS.-				17.25
	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	549.10	457.40
	Time Taken For empty return trip 0.50	hour	0.500	549.10	274.55
	b) Overhead Charges @0.06 on (a)				43.92
	Cost for 36 t km=(a+b+c)/840.34				775.87
	Rate per t.km = (a+b+c)/3623.34				21.55
	Say RS.-				21.55

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	305.00
	Mazdoor for loading and unloading	Day	0.72	287.00
	b) Machinery			
	Tractor 3.60 tonnes capacity	hour	0.10	549.10
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	1403.00
	c) Overhead charges @ 0.06 on (a+b)			23.23
	Cost for 2.25 cum = a+b+c+d			410.38
	Cost for 2.25 cum = (a+b+c+d)/2.25			182.39
Note-	Unloading will be done manually.			
1	Suplying for Brick Bats (With OH)			
A	Basic Rate of Brick Bats	Per Cum	1017.00	1017.00
	Add overhead Charges 6%	0.06		61.02
	Total-			1078.02
	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 17.25) + (1.6 x 1 x 21.55) + 182.39			410.07
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)			
	Total (A+B+C)-			1810.36
	Add 1% Labour Cess (A+B+C)			18.10
	Add 12% GST(A+B+C)			217.24
	Add 10% cost of Material for seigniorage Fee	1.00	107.80	107.80
	Total Cost per Cum	Rs:-		2153.51