

अधीक्षण अभियन्ता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, छपरा।

पत्रांक: 1778/अ30

छपरा, दिनांक 17-12-2021

प्रेषक,

अधीक्षण अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य अंचल, छपरा।

सेवा में,

मुख्य अभियन्ता-4,
ग्रामीण कार्य विभाग,
बिहार, पटना।

विषय :- वित्तीय वर्ष 2021-22 में बाढ़ से क्षतिग्रस्त पथों को मोटरेबुल किये गये प्राक्कलन को तकनीकी स्वीकृति उपरान्त समर्पित करने के संबंध में।

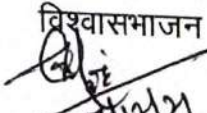
प्रसंग :- कार्यपालक अभियन्ता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, मढ़ौरा के पत्रांक 2582 अनु0 दिनांक 17.12.2021

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में वित्तीय वर्ष 2021-22 में बाढ़ से क्षतिग्रस्त 05 (पाँच) अदद पथों का प्राक्कलन तकनीकी स्वीकृति के उपरान्त समर्पित किया जा रहा है। जो निम्नलिखित है :-

क्र० सं०	प्रखंड का नाम	पथ का नाम	पथ की लम्बाई (कि०मी०)	प्राक्कलित राशि (लाख में)
1	Taraiya	Pachraur to Yakuchak Path.	4.480	10.79400
2		Sitalpur to Rajwara Path.	5.510	21.63100
3	Mashrakh	Gopalwari to Gangauli Path.	2.300	12.17500
4		SH-73 Se Bahrauli to Bahrauli Kumhar Toli Tak.	0.975	2.70500
5	Panapur	Turki to Bhorha Via Mohammadpur	2.200	12.86700

अनु०:- DPR एक-एक प्रति में।

विश्वासभाजन

अधीक्षण अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य अंचल, छपरा।
17/12/21

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 PACHRAUR TO YAKUCHAK

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Taraiya	
TOTAL LENGTH OF ROAD	:-	4.480	KM
EFFECTIVE LENGTH OF ROAD	:-	0.200	KM
TOTAL COST OF CONSTRUCTION	:-	10.794	Lac
TOTAL COST OF PROJECT	:-	10.794	Lac

Inspection Report for Flood damage work

Date:

1. Name of P.U.s. *Executive Engineer, RWD Madhaura*

2. Name of Block/Road *Taraiya, Pachaur to Yakuchak*

A. For Road

1. Damage Location/Chainage : *130, 260, 380.*

2. Damage Length : *0.200 km*

3. Nature of Damage : *Shoulder cut*

4. Details of Restoration :

i Material being used in Restoration

: *Brick Bat, Sand*

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

iii Procedure taken up in Restoration works

: *Brick Bat bldg*

iv Restored Length

: *0.200 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]
21.11.2014

Signature of JE/AE/EE

[Signature]

Executive Engineer
Rural Work Department
Work Division, Marhaura

'S'

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25/11/2014

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(Name of Inspector)

प्रतिवेदन

प्रस्तुत प्राक्कलन ग्रामीण कार्य विभाग, कार्य प्रमण्डल-मर्दोरा के अन्तर्गत प्रखण्ड - तरैया के पंचसौर से यादूचक पंच में मोटेखुप कार्य हेतु कार्यपालक अग्रिम, कार्य-प्रमण्डल-मर्दोरा के निर्देशानुसार तैयार किया गया है।

कार्य का प्राच राशि 40.794 लाख रुपये मात्र है।
पंच की ल० - 4.480 कि०मी., जल सहायक बांध की ल० - 0.200 Km.

यह पंच गंडकी नदी के किनारे अवस्थित है। नदी में भारी बाढ़ के कारण पंच के 200 बी० लाखाई में कटाव हो गया था। उसका Plank करते जा रहे थे। कार्यपालक अग्रिम एवं अजीम अग्रिमता के द्वारा स्थान निरीक्षण के दौरान 0.200 Km बांध बनकर कटाव रोकने हेतु निर्देश दिया गया। 0.200 Km बांध बनकर मोटेखुप कार्य किया गया है।

उक्त निर्देश के आलोक में प्राक्कलन तैयार कर आवश्यक कारवाई एवं स्वीकृति हेतु समर्पित किया जा रहा है।


5-11-21
क० अ०
तरैया


5-11-21
क० अ०
तरैया


कार्य अग्रिम
कार्य प्र० मर्दोरा

FDR

GENERAL ABSTRACT OF COST

Block:- Taralya

District:- Saran

Length of Road:-- 4.480 KM

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Pachraur To Yakuchak

SL. No.	Item of Work	Amount
A	TOTAL COST :	10.794 Lacs
	TOTAL :	10.794 Lacs

[Signature]
5.11.2021

Junior Engineer

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05/11/2021

Asstt. Engineer

[Signature]

Executive Engineer

T/S. for Rs. 10,79,400/- (Rupees ten lakhs -
Seventy nine thousand four hundred) only.

[Signature]
17/12/21
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

ANNEXTURE-1

Name Of Road :-		Estimate for Repair of Road Branches (Damage By Flood) For Motarable Work in Pachraur To Yakuchak					Block:- Taraiya
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTITY
1	CH-130 M (R/Side)	1	15.00	(1.2+1.5)/2	1.25	CUM	25.31 m3
2	CH-260 M (R/Side)	1	13.00	1.00	1.00	CUM	13.00 m3
3	CH-260 M (L/Side)	1	10.00	1.00	1.00	CUM	10.00 m3
4	CH-3800 M (R/Side)	1	75.00	1.50	2.00	CUM	225.00 m3
5	CH-3800 M (R/Side)	1	15.00	2.50	2.00	CUM	75.00 m3
6	CH-3800 M (R/Side)	1	7.00	1.50	1.50	CUM	15.75 m3
7	CH-3800 M (L/Side)	1	65.00	1.00	1.50	CUM	97.50 m3
TOTAL QUANTITY FOR BRICK BATS=							461.56 m3

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ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Pachraur To Yakuchak

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-130 M (R/Side)	1	15.00	$(1.2+1.5)/2$	0.10	CUM	2.03 m3
2	CH-260 M (R/Side)	1	13.00	1.00	0.10	CUM	1.30 m3
3	CH-260 M (L/Side)	1	10.00	1.00	0.10	CUM	1.00 m3
4	CH-3800 M (R/Side)	1	75.00	1.50	0.10	CUM	11.25 m3
5	CH-3800 M (R/Side)	1	15.00	2.50	0.10	CUM	3.75 m3
6	CH-3800 M (R/Side)	1	7.00	1.50	0.10	CUM	1.05 m3
7	CH-3800 M (L/Side)	1	65.00	1.00	0.10	CUM	6.50 m3
TOTAL QUANTITY FOR LOCAL SAND =							26.88 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 1 cum 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)				533.83
	(1.6 x 7 x 20.48) + (1.6 x 1 x 25.59) + 263.47				
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				341.36
	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
			Rs:-		2300.58
	Total Cost per Cum				

Name of Road:--
District:-

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Pachraur To Yakuchak
Saran

Analysis for Carriage by Road & Rail

Block :- Taraiya

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading Cost	Carriage Cost for Rail Road	Total	Misc 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 152.63

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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 Carrige				530.30
		Labour cess 1%				5.30
		GST 12%				63.64
		Seignorage 10%				53.03
		TOTAL COST	cum			652.27