

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

पत्रांक 1778/2021

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 अनु० 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 Toll 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।
माथेय

Inspection Report for flood damage work

Date:

1. Name of PU/s: Executive Engineer, RWD, Marhaura.

2. Name of Block/Road: Teraiya, Gitalpur to Rajwara

A. For Road

1. Damage Location/Chainage : 4700, 4900

2. Damage Length : 0.138 km

3. Nature of Damage : Road cutting

4. Details of Restoration :
i Material being used in Restoration

: Brick Bats, Savel

ii Equipment/Tools being used in Restoration works:

: Tractor, Roller, etc

iii Procedure taken up in Restoration works

: Sub fillup.

iv Restored Length

: 0.138 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/AF/EE

Executive Engineer
Rural Work Department
Work Division, Marhaura

Signature

(Name of Inspector)

प्रतिवेदन

प्रस्तुत प्राक्कलन ग्रामीण कार्य विभाग, कार्य प्रमण्डल-मण्डल के अन्तर्गत प्रखण्ड-तरेगा के झीलपुर-से श्रमवारा पथ में कार्यपालक अभियंता के द्वारा निर्देशानुसार मोटरेबल कार्य का प्राक्कलन तैयार किया गया है। कार्य का प्राक्कलित शेष: 21.631 लाख रुपये मात्र है।

पथ की लम्बाई 5.510 किमी, कृत्रिम भाग की लम्बाई 0.138 किमी। यह पथ नयी अनुरक्षण नीति 2018 के अन्तर्गत MR-3054 से निर्मित है तथा पंचवर्षीय अनुरक्षण भवषि के अन्तर्गत है। सूयका पचांश गड्ढा नदी के पश्चिम खण्ड-तरेगा के समीप है। विगत बाढ़/अतिवृष्टि के कारण पथ में काफी कचरा हुआ था। जिससे यातायात प्रभावित हुआ था। कार्य अग्रिम एवं अवीक्षण अग्रिम के द्वारा स्थल निरीक्षण परामर्श दिये गये निर्देश के आलोक में बनये ~~उक्त~~ से भरकर पथ को Motorable किया गया है।

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

5.11.21
क० अ०
तरेगा

उत्तर
5.11.21
क० अ०
तरेगा

4/11/21
कार्य अभि
कार्य प्रमण्डल-मण्डल

FDR

GENERAL ABSTRACT OF COST

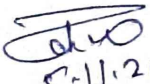
Block:- Taraiya

District:- Saran

Length of Road:-- 5.510 KM

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

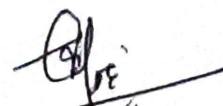
SL. No.	Item of Work	Amount
A	TOTAL COST :	21.631 Lacs
	TOTAL :	21.631 Lacs


5-11-2021
Junior Engineer


08/11/2021
Asstt. Engineer


Executive Engineer

T/S. for Rs. 21,63,100/- (Rupees twenty one lakh, sixty three thousand ^{SE} ^{RWD} one hundred) only.


17/11/21
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Sitapur To Rajwara									
Sl. No.	SDB SL. NO.	MORD Ref. No.	Description	Unit	NOS	Block :-	Taraiya	DISTRICT :-	Saran	LENGTH :-	5.510 KM
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							
			Total Quantity =						921.95	2,300.58	21,21,024.00
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							
			Total Quantity =						64.50	652.27	42,071.00
			TOTAL COST IN RS. =								21,63,095.00


 5.11.2024
 JE
 RWD


 05/11/2024
 AE
 RWD


 EE
 RWD

ANNEXTURE-1

Name of Road: Estimate for Repair of Road Breaches (Damage By Flood) for
Motorable Work in Sitalpur To Rajwara

Block:- Taraiya

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)Av.	UNIT	QUANTITY
1	CH-4700 M	1	8.00	3.00	0.60	CUM	14.40 m3
2	"	1	16.00	5.00	1.50	CUM	120.00 m3
3	"	1	10.00	5.00	1.40	CUM	70.00 m3
4	"	1	25.00	5.00	1.90	CUM	237.50 m3
5	"	1	10.00	5.00	1.40	CUM	70.00 m3
6	"	1	14.00	3.75	0.30	CUM	15.75 m3
7	CH-4900 M	1	10.00	5.00	1.40	CUM	70.00 m3
8	"	1	6.00	5.00	1.90	CUM	57.00 m3
9	"	1	10.00	6.00	1.50	CUM	90.00 m3
10	"	1	17.00	5.50	1.80	CUM	168.30 m3
11	"	1	12.00	2.50	0.30	CUM	9.00 m3
TOTAL QUANTITY FOR BRICK BATS=							921.95 m3

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ANNEXTURE-2

Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work In Sitalpur To Rajwara							Block:- Taraiya
Sl No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1	CH-4700 M	1	8.00	3.00	0.10	CUM	2.40 m3
2	"	1	16.00	5.00	0.10	CUM	8.00 m3
3	"	1	10.00	5.00	0.10	CUM	5.00 m3
4	"	1	25.00	5.00	0.10	CUM	12.50 m3
5	"	1	10.00	5.00	0.10	CUM	5.00 m3
6	"	1	14.00	3.75	0.10	CUM	5.25 m3
7	"	1	10.00	5.00	0.10	CUM	5.00 m3
8	"	1	6.00	5.00	0.10	CUM	3.00 m3
9	"	1	10.00	6.00	0.10	CUM	6.00 m3
10	"	1	17.00	5.50	0.10	CUM	9.35 m3
11	"	1	12.00	2.50	0.10	CUM	3.00 m3
TOTAL QUANTITY FOR LOCAL SAND =							64.50 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/L.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor				
	Add 6% Overhead Charge	Nos.	3	304.00	912.00
	Rate for 2.832 Cum				54.72
	Rate Per Cum(Rs.)=				966.72
					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, 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				
	ii) Loading by front end loader 1 cum bucket @ capacity 25 cum per hour		1 Min		
	iii) Maneuvering, reverse, dumping and turning for return		5 Min		
	iv) Waiting time, unforeseen Contingencies etc.		0 Min		
	Total		0 Min		
	a) Labour		6 Min		
	Mate				
	Mazdoor for loading and unloading	Day	0.03	316.00	9.48
	b) Machinery	Day	0.72	304.00	218.88
	Tractor 3.60 tonnes capacity				
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.10	652.00	65.20
	c) Overhead charges @ 0.06 on (a+b)	hour	0.08	#####	265.68
	Cost for 2.25 cum = a+b+c+d				33.55
	Cost for 2.25 cum = (a+b+c+d)/2.25				592.80
					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
	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)				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
	Total Cost per Cum		Rs:-		2300.58

Name of Road:-- Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Sitalpur To Rajwara
District:-- Saran

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
				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. 185.77

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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				
		Mazdoor Unskilled	day	0.01	310.00	3.10
	b)	Material	day	0.30	304.00	91.20
		Sand assuming 20% voids				
	c)	Overheads @ 6 % on (a+b)	day	1.20	141.75	170.10
	d)	Contractor's profit @ 10% on (a+b+c)				15.86
		Rate per cum = a+b+c+d				28.03
		Carriage cost:-				308.29
		Fine Sand				
		Cost per cum including Carriage	nos.	1.20	185.01	222.01
		Labour cess 1%				530.30
		GST 12%				5.30
		Seignorage 10%				63.64
						53.03
		TOTAL COST	cum			652.27