

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधुबनी।

Email:-cerwmdadhubani@gmail.com Mob-8986915356

पत्रांक:- 598 अन्क दिनांक:- 12/03/2022

प्रेषक,

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, मधुबनी।

सेवा में,

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, दरभंगा-2

विषय:-

वर्ष 2021-22 में आयी बाढ़ के कारण क्षतिग्रस्त पथों में अस्थायी रूप से कराये गये कार्यों का प्राक्कलन जाँच हेतु समर्पित करने के संबंध में।

प्रसंग:-

आपका पत्रांक-263(A) दिनांक-24.02.2022 एवं 269(A) दिनांक-28.02.2022

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में जाले एवं केवटी प्रखंड अंतर्गत वर्ष 2021-22 में आयी बाढ़ के कारण क्षतिग्रस्त पथों में अस्थायी रूप से कराये गये कार्यों का प्राक्कलन जाँच कर आवश्यक कार्रवाई हेतु समर्पित की जाती है।

क्र०	क्षतिग्रस्त पथों का नाम	प्रखंड का नाम	Quantity (M ³)	अभ्युक्ति
1	L026-Muritha to Khajurwara	Jale	69.699	
2	L044-T03 to Katraul	Jale	185.922	
3	Darbhanga Jila antargat-Yogiyara PWD pat se dhariya mor se sahpur bhaya ramauli panihari tariyani meejopur massa ewn dhankaul pat (Madhubani Darbhanga Boader) tak	Jale	102.875	
4	Milki PMGSY Sadak to Muraittha Dakshin tol	Jale	127.693	
5	Naya tola Islampur to Kusumpatti	Jale	100.449	
6	Bachey Yadav house to Serha tola	Jale	7.69	
7	PMGSY Bihari village Mahendra Baitha to Gosaie tola	Jale	25.575	
8	Ahiyari Dakshine Sima to Chanua ramna gachhi	Jale	106.207	
9	Ahiyari South to chanua tol RWD road FDR	Jale	44.87	
10	Ahiyari got to Rahi tola	Jale	104.23	
11	Ahiyari got to Usra Rahi tola tak	Jale	59.87	
12	Brahmpur hat to Sotiya	Jale	178.175	
13	PMGSY Jahangir tola chowk se sahni tola	Jale	54.42	
14	NABARD Hajipur to Hazma tola	Keoti	10.74	
15	PWD road Phulkahi Apan chowk to Birkha Shankarpur chowk	Keoti	86.525	
16	L058-PMGSY Md Dani to Bajitpur (VR58)	Keoti	123.82	
17	L059-Jalwara to Kothia (VR42)	Keoti	327.603-E/W 111.544- Brick Bats 87 Nos- Bamboo 4853 Nos- EC Bags	
18	REO road Pindaruch to Kathiyaghat	Keoti	25.30	
19	PMGSY road se Sukhalapur	Keoti	38.449	

अनु०:-यथोक्त।

विश्वासभाज्ज

कार्यपालक अभियंता

ग्रामीण कार्य विभाग, कार्य प्रमंडल, मधुबनी।

Inspection Report for Flood Damage Work

Date:- 8/3/22

Name of PIUs:- Darbhanga-2

Name of Block/Road:- Keoti | REO Road Pindaruch to Kathiyaghat

(A) For Road:-

1 Damage Location/Chainage:- 400 M to 2300 M

2 Damage Length:- 51.10 M

3 Nature of Damage:- Road and shoulder cut damage.

4 Details of Restoration Works:-

(i) Material being used in Restoration Works:- Brick bats (25.30 m³)

(ii) Equipment's/Tools being used in Restoration works:-

(iii) Procedure taken up in Restoration Works:- Brick bats filling

(iv) Restored Length:- 51.10 M

(B) For Bridge:-

1 Damage Location/Chainage:-

2 Damage Length:-

3 Nature of Damage:-

4 Details of Restoration Works:-

(i) Material being used in Restoration Works:-

(ii) Equipment's/Tools being used in Restoration works:-

(iii) Procedure taken up in Restoration Works:-

(iv) Restored Length:-

N/A

work found satisfactory.

Signature of JE/AE/EE

[Signature]
8/3/22
JE.

[Signature]
8/3/22
AE

[Signature]
8/3/22
Signature

(Name of Inspection)



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

HEAD-FDR 2021

STATE:-BIHAR

DISTRICT:-Darbhanga

CIRCLE:-Darbhanga

DIVISION:-Darbhanga-2

BLOCK:-Keoti

NAME OF WORK:-

Detail Estimate for Restoration under F.D.R 2021 for
REO Road Pindaruch to Kathiyaghat ✓

TOTAL COST FOR MOTORABLE Rs. 6.705-lacs

0.599 lacs

AA Copy

TIS-copy

Submitted By:-
Executive Engineer
RWD(W) Division, Darbhanga-2

प्रशासनिक प्रतिवेदन

पथ का नाम	: REO Road Pindaruch to Kathiyaghat
पथ की लंबाई	: 2.8550 km
प्राक्कलित राशि	: 6.705 लाख 0.599 लाख
प्रमंडल का नाम	: दरभंगा 2
अंचल का नाम	: दरभंगा
योजना शीर्ष	: 3054
योजना वर्ष	: 2021-22

प्रस्तुत प्राक्कलन विभागीये पत्रांक मु0 अ0-4 (मु0) विविध कार्य-23-60/2020-1937 पटना दिनांक 07/07/2021 के आदेशानुसार पथ में कराये गये यातायात पुनर्स्थापना कार्य के निमित्त तैयार की गयी है।

यह प्राक्कलन REO Road Pindaruch to Kathiyaghat पथ में Bricks Bats, Earthwork, Bamboo Piling तथा sand Filled Cement Bag से Motorable कराये गये कार्य के लिए तैयार की गई है। वर्ष 2021 में आधी प्रलयकारी बाढ़/अतिवृष्टि के कारण पथ कई जगहों पर क्षतिग्रस्त हो गया था जिसके कारण आवागमन अवरुद्ध हो गई थी जिसमें अस्थाई यातायात पुनर्स्थापन कार्य किया गया है।

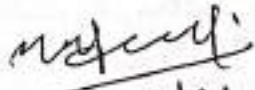
प्रस्तुत प्राक्कलन संपादित कार्य के समय लागू अनुसूचित दर पर, जो संवेदक लाभांश को छोड़कर था, उसे प्रावधान करते हुए तैयार किया गया है।

अतः किये गये कार्यों के भुगतान हेतु प्राक्कलन की प्रशासनिक स्वीकृति अपेक्षित है।


4.11.2021

कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रसाखा-केवटी

सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल- केवटी


4.11.21

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल- दरभंगा 2

Abstract of Cost

NAME OF SCHEME : FDR 2021
 NAME OF ROAD : REO Road Pindaruch to Kathiyaghat
 DISTRICT : Darbhanga
 BLOCK : Keoti
 DIVISION : Darbhanga-2
 LENGTH OF ROAD : 2.85KM

Sl. No.	DESCRIPTION	AMOUNT
	RESTORATION WORK	
1	TOTAL COST OF EARTHWORK (Total quantity 394.4 m ³ @ RATE Rs 227.38)	₹ 89,678.67
	ADD GST @ 12 %	₹ 10,761.44
	ADD LABOUR CESS @ 1 %	₹ 896.79
	ADD SEIGNIORANGE FEE ((Total quantity 394.4 x Rs 34.81) x 10%)	₹ 1,372.91
	TOTAL COST	₹ 1,02,709.81
2	TOTAL COST OF BRICKS BAT (Total quantity 121.878 m ³ @ RATE Rs 2004.958)	₹ 2,44,360.77
	25-30 ADD GST @ 12 %	₹ 29,323.29
	ADD LABOUR CESS @ 1 %	₹ 2,443.61
	ADD SEIGNIORANGE FEE ((Total quantity 121.878 x Rs 1032.00) x 10%)	₹ 12,577.84
	25-30 TOTAL COST	₹ 2,88,705.51
3	TOTAL LABOUR COST FOR DRIVING (Total quantity 158.0m @ RATE Rs 31.20/m)	₹ 4,914.00
	ADD GST @ 12 %	₹ 589.68
	ADD LABOUR CESS @ 1 %	₹ 49.14
4	TOTAL LABOUR COST OF RUNNER (Total quantity 104.0m @ RATE Rs 5.50/m)	₹ 572.00
	ADD GST @ 12 %	₹ 68.64
	ADD LABOUR CESS @ 1 %	₹ 5.72
5	TOTAL COST FOR BAMBOO (Total quantity 79Nos @ RATE Rs 166.50/each)	₹ 13,153.50
	ADD GST @ 12 %	₹ 1,578.42
	ADD LABOUR CESS @ 1 %	₹ 131.54
	TOTAL COST	₹ 15,863.46
6	TOTAL COST OF EC Bags (Total quantity 6118.0Nos @ RATE Rs 36.90)	₹ 2,25,754.20
	ADD GST @ 12 %	₹ 27,090.50
	ADD LABOUR CESS @ 1 %	₹ 2,257.54
	ADD SEIGNIORANGE FEE ((Total quantity 208.0x Rs 141.85.00) x 10%)	₹ 2,950.48
	TOTAL COST	₹ 2,58,052.73
	GRAND TOTAL COST	₹ 6,70,530.67

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 11/11/22

EE
 RWD
 Darbhanga-2

अभियंता कार्यालय 220 मीटर का रेड लाईन मध्यम व 420 मीटर 598.00 रु. 12/03/2022
 डाटा समीक्षा करी, यतिवेदन 2-21111 (45)
 TIS for Rs 59930=10 (Rupees fifty nine thousand
 nine hundred thirty only).

अधीक्षण अभियंता,
 प्राचीन कार्य विभाग,
 कृषि अंचल, दरभंगा

Detailed Estimate of Flood Damaged Road

Block:- Keoti
District:- Darbhanga

Darbhanga-2
REO Road Pindaruch to Kathiyaghat
FDR 2021
2.85KM

1	Restoration of Road Embankment using Earth Work.....etc.					
Particulars		Details of Actual Measurement				Quantity(m³)
		No.	Length(m)	Breadth(average)(m)	Depth(average)(m)	
1 X		1	30.00	(3.0+4.50)/2	2.00	225.000 m³
1		1	22.00	(3.0+4.0)/2	2.20	169.400 m³
			52.000		Total	394.400 m³

Sl. No.	SOR Sl.No.	Items of Work																																																																										
2	6.61 WRD BIHAR	Providing and laying of Bricks bats with carriage by tractor loading with front end loader with light ramming etc all complete job																																																																										
<table><thead><tr><th rowspan="2">Particulars</th><th colspan="5">Details of Actual Measurement</th></tr><tr><th>No.</th><th>Length(m)</th><th>Breadth(average)(m)</th><th>Depth(average)(m)</th><th>Quantity(m³)</th></tr></thead><tbody><tr><td rowspan="3">Chainage 400m</td><td>1</td><td>11.00</td><td>1.50</td><td>0.30 0.25</td><td>4.95 0.413</td></tr><tr><td>1</td><td>4.00</td><td>1.00</td><td>0.20</td><td>0.80</td></tr><tr><td>1</td><td>10.00</td><td>2.50</td><td>0.20</td><td>7.500</td></tr><tr><td rowspan="2">Chainage 600m</td><td>1</td><td>30.00</td><td>(1.75+2.0)/2</td><td>0.90</td><td>50.625</td></tr><tr><td>1</td><td>22.00</td><td>(1.75+1.90)/2</td><td>(0.65+0.80)/2</td><td>29.109</td></tr><tr><td>Chainage 820m</td><td>2</td><td>2.50 1.3</td><td>1.80</td><td>0.30 0.15</td><td>2.700 0.70</td></tr><tr><td>Chainage 1500m</td><td>3</td><td>3.90</td><td>2.00</td><td>0.30</td><td>7.020</td></tr><tr><td>Chainage 1700m</td><td>1</td><td>5.00</td><td>2.75</td><td>0.95</td><td>43.063</td></tr><tr><td>Chainage 2300m</td><td>1</td><td>6.80</td><td>(1.0+1.40)/2</td><td>0.60 (0.8+0.6)/2</td><td>5.712 4.90</td></tr><tr><td colspan="5">Total</td><td>134.678</td></tr><tr><td colspan="5">105.300</td><td>51.10 M</td></tr></tbody></table>			Particulars	Details of Actual Measurement					No.	Length(m)	Breadth(average)(m)	Depth(average)(m)	Quantity(m ³)	Chainage 400m	1	11.00	1.50	0.30 0.25	4.95 0.413	1	4.00	1.00	0.20	0.80	1	10.00	2.50	0.20	7.500	Chainage 600m	1	30.00	(1.75+2.0)/2	0.90	50.625	1	22.00	(1.75+1.90)/2	(0.65+0.80)/2	29.109	Chainage 820m	2	2.50 1.3	1.80	0.30 0.15	2.700 0.70	Chainage 1500m	3	3.90	2.00	0.30	7.020	Chainage 1700m	1	5.00	2.75	0.95	43.063	Chainage 2300m	1	6.80	(1.0+1.40)/2	0.60 (0.8+0.6)/2	5.712 4.90	Total					134.678	105.300					51.10 M
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3	Particulars	Details of Actual Measurement	
		Quantity	Quantity
	Labour For Cutting 62 mm to 75 mm dia Bamboo pile to size and making Shoes and Driving etc complete job as per specification and direction of E/f		
	Total length		

SOR SL. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	EARTHWORK				
3-40	301.5 Construction of Embankment with Material Obtained from Borrow Pits 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 <u>lead upto 1000 m</u> as per Technical Specification Clause 301.5 Unit = cum Taking output = 100 cum				
a)	Labour	day	0.04	321.00	12.84
	Mate	day	1.00	304.00	304.00
	Mazdoor (Unskilled)				
b)	Machinery				
	Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	2702.00	4512.34
	Tipper 5.5 cum with 10 t capacity	hour	4.50	1183.00	5323.50
	Add 10 % of the cost of carriage by tipper				532.35
	Dozer D-50 for spreading @ 100 cum per hour(wrd)	hour	0.50	3337.90	1668.95
	Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	1.00	642.00	642.00
	Water tanker 6 kl capacity	hour	2.00	907.00	1814.00
	Three wheel 80-100 kN Static Roller @ 80 cum per hour	hour	1.25	901.00	1126.25
c)	Material				
	Water	kl	12.00	73.60	883.20
	Compensation for earth taken from private land	cum	100.00	34.82	3482.00
d)	Overheads Profit @ 12.0% on (a+b+c)				2436.17
	Cost for 100 cum = a+b+c+d				22737.60
	Rate per cum = (a+b+c+d)/100=				227.38
	Total Cost	CUM			227.38

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	BRICK BATS PITCHING MANUAL MEANS				
6.6.1 WRD BBar	Labour for laying dry graded Jhama Khola or stone filter 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				
a)	Labour				
	Mazdoor (Unskilled)	Nos.	3.00	304.00	912.00
b)	Over Heads @ 12% on (a)				109.44
	Cost for 2.832 cum				1,021.44
	Rate per cum (Rs)				360.68
	Total Cost	cum			360.68
1.4 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 load 10 km = 36.0 t.km				
	(i) Surface Road				
	Speed with Load: 15 km/hour				
	Speed while Returning empty: 25 km/hour.				
a)	Machinery				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	0.667	612.00	408.20
	Time taken for empty return trip.	hour	0.400	612.00	244.80
					78.36
b)	Over Heads @ 12% on (a)				731.36
	Cost for 36 t.Km = a+b				20.32
	Rate per t.km = (a+b)/36				20.32
	Total Cost	t.Km			20.32
	(ii) Unsurfaced Graveled Road				
	Speed with Load: 12 km/hour				
	Speed while Returning empty: 20 km/hour.				
a)	Machinery				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	0.833	612.00	509.80
	Time taken for empty return trip.	hour	0.500	612.00	306.00
					97.90
b)	Over Heads @ 12% on (a)				913.69
	Cost for 36 t.Km = a+b				25.38
	Rate per t.km = (a+b)/36				25.38
	Total Cost	t.Km			25.38
	(iii) Katcha Track and Track in River Bed/Nallah Bed and Choe Bed				
	Speed with Load: 10 km/hour				
	Speed while Returning empty: 15 km/hour.				
a)	Machinery				
	Tractor 3.6 tonne capacity				
	Time taken for onward haulage with load	hour	1.000	612.00	612.00
	Time taken for empty return trip.	hour	0.667	612.00	408.20
					122.42
b)	Over Heads @ 12% on (a)				1,142.63
	Cost for 36 t.Km = a+b				31.74
	Rate per t.km = (a+b)/36				31.74
	Total Cost	t.Km			31.74

Sl. No.	SOR Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1.1	RCD	Loading and Unloading of Stone Boulder/Stone aggregates/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 1 Min ii) Loading by Front end loader 1 Cum Bucket Capacity @ 25 Cum per hour 5 Min iii) Maneuvering, reversing, dumping and turning for return 0 Min iv) Waiting time, unforeseen contingencies etc 0 Min Total 6 Min a) Labour Mate day 0.03 321.00 9.63 Mazdoor for loading and unloading day 0.72 304.00 218.88 b) Machinery Tractor 3.6 tonne capacity hour 0.1 612.00 61.20 Front end-loader 1 cum bucket capacity @25 cum/hour hour 0.083 1594.00 132.30 c) Over Heads @ 12% on (a+b) 50.64 Cost for 2.25 cum=(a+b+c) 472.65 Rate per cum (Rs) 210.07				
		Notes:- Unloading will be done manually				
		1 Supplying for Brick Bats (with OH)				
		A. Basic Rate of Brick Bats	Per Cum		1032.00	1032.00
		Add overhead charges		12%		123.84
		Total				1155.84
		Surface Lead	KM	7		
		Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
		Factor(3.6/2.25)	Cum	1.6		
		B. Carriage(with OH)				488.438
		((1.6*7*20.32)+(1.6*1*31.74)+(210.07))				
		C. Cost of Labour for Pitching and Light Ramming as per WRD				360.68
		SOR 6.6.1(with OH)				
		Total (A+B+C)				2004.96
						2004.96
		For (7km.p+1kmk)= without (GST+LC+SF)				1972.45
		For (6km.p+1kmk)= without (GST+LC+SF)				1939.93
		For (5km.p+1kmk)= without (GST+LC+SF)				1907.42
		For (4km.p+1kmk)= without (GST+LC+SF)				1874.91
		For (3km.p+1kmk)= without (GST+LC+SF)				