



FLOOD DAMAGE REPAIR (FDR)
YEAR 2024-25

FOR T/S

DISTRICT :- MADHUBANI
BLOCK :- ~~LAKSHI~~ *Khutang*
CONSTRUCTION COST :- Rs. ~~11.111~~ *10.641* Lac
TOTAL COST :- Rs. ~~11.111~~ *10.641* Lac

MMGSY (NDB) YOJNA

NAME OF ROAD :- FLOOD DAMAGE REPAIR OF SIHULA
PMGSY TO SIHULA

TOTAL LENGTH : 3.445 KM
LENGTH DAMAGE DUE TO FLOOD : 0.042 KM.

SUBMITTED BY:
EXECUTIVE ENGINEER
R.W.D. WORKS DIVISION, PHULPARAS

तकनीकी प्रतिवेदन

पथ का नाम:- Sihula PMGSY to Sihula.
कार्य प्रमंडल का नाम:- फुलपरास
प्रखंड का नाम:- खुटौना
पथ की लंबाई:- 3.445 कि०मी०
क्षतिग्रस्त पथांश की लंबाई कि०मी०- 0.042 कि०मी०
योजना का नाम:- FDR (FY- 2024-25)

प्रस्तुत प्राक्कलन सचिव, ग्रामीण कार्य विभाग, पटना बिहार के पत्रांक- मु०अ०-०७ (नि० एवं गु०) FDR-09-03/2024-1999 पटना/ दिनांक- 04.06.2024 के निदेशानुसार बाढ़/ अतिवृष्टि से क्षतिग्रस्त पथों की आपातकालीन मरम्मत कर अविलंब यातायात को पुनः बहाल करने का आदेश प्राप्त हुआ है।

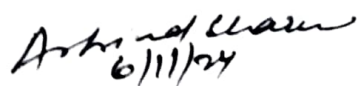
उपरोक्त आदेश के अपालेक में उक्त पथ में बाढ़/ अतिवृष्टि से क्षतिग्रस्त भाग का आपातकालीन मरम्मत (Motorable) कर यातायात पुनः स्थापित किया गया है के आलोक में पथ के कटाव का विवरणी RWD के MIS Module में विहित प्रपत्र में फोटोग्राफ सहीत अपलोड/ संधारित की गई है।

प्रस्तुत प्राक्कलन में मुलतः आवश्यकतानुसार Brick Bats/ Local sand/ Hume Pipe की भराई कार्य कर यातायात बहाल किया गया है। अतिवृष्टि/ बाढ़ एवं नदी से प्रभावित वाले पथों में कटाव निरोधक कार्य में Sand Bag Filling, Hume Pipe, Bamboo Piling with Runner के साथ NC कार्य भी आवश्यकतानुसार कराया गया है। जिन- जिन में अत्यधिक जल- जमाव निकाशि की आवश्यकता थी उन पथों में Brick Bat Filling के साथ Hume pipe का उपयोग किया गया है।

प्राक्कलन में प्रयुक्त दर ग्रामीण कार्य विभाग कार्य अंचल मधुबनी द्वारा स्वीकृत वर्तमान अनुसूचित दर के आधार पर तैयार किया गया है। कार्य विभागीय होना है तथा Contractor Profit और Over Head Charge की कटौती की गई है।

प्रावधान के तहत निर्माण की राशि को अलग अलग दर्शाते हुए सभी को जोड़कर प्राक्कलित राशि तैयार की गई है।

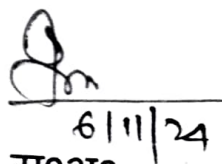
कार्य की महता को देखते हुए इस प्राक्कलन की स्वीकृति अपेक्षित है।


6/11/24

क०अ०

ग्रा०का०वि०

कार्य प्रशाखा, खुटौना।


6/11/24

स०अ०

ग्रा०क०वि०

कार्य अवर प्रमंडल खुटौना। कार्य प्रमंडल फुलपरास।


9/11/24

का०अ०

ग्रा०का०वि०

**Flood Damage Repair of Sihula
PMGSY To Sihula**

Name of Road :-

Year 2024-25

District :-

Madhubani

Block :-

Laukhi

GENERAL ABSTRACT OF COST

No.	Item of Work	Amount (in Rs.) As Per Estimate
	COST OF FDR	10,64,055.00
	Add L.C. @1%	0.00
	ADD GST @ 18%	0.00
	Add S.F. @ 10% on Material Rate	—76,972.00
	Total Rs. :--	11,41,027.00
	Say Rs. :--	11,41,100.00
		10,64,055.00

Ashish Kumar
6/11/24
J.E.

RWD. Phulparas

Im
6/11/24
A.E.

RWD. Phulparas

Im
6/11/24
E.E.

RWD. Phulparas

असंलग्न कार्यपालक अभियंता, ग्रामीण कार्य विभाग,
कार्य प्रमण्डल बेनीपट्टी के पत्रांक- 2192 अक्षर
विमांक - 15.11.2024 के आलोक में
Technically sectioned for (Provisionally) for Rs.
10,64,055.00 (Rupee Ten Lakhs Sixty four
Thousand and fifty five) only.

Im
15/11/24
Superintending Engineer
R.W.D. Works Circle

Im
15/11/24
E.O.

Im
15/11/24
TO

Sl. No.	Description	Unit	NO.	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (IN RS.)
1	Providing brick bats including spreading, laying, hand packing with C1 hammer in layers has exceeding 75mm thick including cost of light barriers, danger equal, chouldar taxes, royalty etc. all complete job, as per specifications and direction of E/I including cost of bricks, all complete job.								
	Qty From Calculation Sheets	Cum					720.888281	1,324.44	9,66,425.00
2	Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, back filling concrete and masonry works in head walls and parapets Clause 1106								
	Qty From Calculation Sheets	RM					7.5	2,150.03	16,125.00
3	Labour for cutting 62mm to 75mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I								
	Qty From Calculation Sheets	RM					286.7	48.92	14,025.00
4	Supplying Labour for fitting and fixing 62 mm to 75mm dia bamboo runners in position at every verticle pile with 150mm long nails or 38 swg G.I or nails complete job as per specification and direction of E/I.								
	Qty From Calculation Sheets						156	24.42	3,809.00
5	Supplying of empty cement bags with local sand, stitching the bags and placing including supply of suthi etc. laying, stacking properly, all complete job as per specifications and direction of E/I								
		Nos	90.4	X		25	2260	28.17	63,671.00
							Total =		1064055.00

Asst. Engineer
6/11/24
J.E.
RWD, Phulparas

Am
6/11/24
A.E.
RWD, Phulparas

Am
9/11/24
E.E.
RWD, Phulparas

ABSTRACT OF QUANTITY (QUANTITY CALCULATION SHEET)

name of Road :-

Flood Damage Repair of Sihula PMGSY To Sihula

	NO.	LENGTH	WIDTH	DEPTH	QUANTITY
providing brick bats including, spreading, laying, hand packing with C1 hammers in layers has exceeding 75mm thick including cost of barriers, danger equal, chowkidar, taxes, royalty etc all complete job, as per specifications and direction of E/I including cost of bricks,.....all complete job.					
Ch 0.400KM To 0.460 KM	1	12	14.000	2.750	= 462.000 ✓
	1	12	3.000	1.500	= 54.000 ✓
	4	8	1.250	0.300	= 12.000 ✓
	1	10	5.125	4.000	= 205.000 ✓
	less for pipe	1	0.785	0.563	7.500
TOTAL QUANTITY					= 729.688 CUM
Providing and laying reinforced concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, back filling concrete and masonry works in head walls and parapets Clause 1106					
600mm dia	1	3	2.5		= 7.500 ✓
Labour for cutting 62mm to 75mm dia bamboo piles in size and making shoes and driving etc. complete job as per specification and direction E/I					
	104	1.525			= 158.600 ✓
	84	1.525			= 128.100 ✓
					= 286.700 ✓
Supplying Labour for fitting and fixing 62 mm to 75mm dia bamboo runners in position at every verticle pile with 150mm long nails or 38 SWG G.I. or nails complete job as per specification and direction of E/I.					
	3	14	2		= 84.000 ✓
	3	12	2		= 72.000 ✓
			Total		= 156.000 ✓
Supplying of empty cement bags with local sand, stitching the bags and placing including supply of suth etc.laying, stacking properly.....all complete job as per specifications and direction of E/I.					
	1	12	1.000	1.350	= 16.200 ✓
	1	14	1.000	0.800	= 11.200 ✓
	1	10	14.000	0.450	= 63.000 ✓
					= 90.400 CUM ✓

AE 6/11/24

AE 6/11/24

AE 6/11/24

Unloading of H.V. Pipe by mechanical means including a total upto 10m

1000/1200 mm dia Hume Pipe

Unit = per pipe			
Taking output = 9 pipes			
Labour			
Male	day	0.020	350.00
			7.00
Masterdoor (Unskilled)	day	0.500	320.00
			160.00
Machinery			0.00
Truck	hour	0.200	1150.00
			210.00
Crane	hour	0.200	1220.00
			244.00
Cost for 9 pipes= (a+b)			
			641.00
Rate per pipe = (a+b)/9			
			71.22
Total per Pipe			
			71.22

600/450 mm dia Hume Pipe

Unit = per pipe			
Taking output = 21 pipes			
Labour			
Male	day	0.020	350.00
			7.00
Masterdoor (Unskilled)	day	0.500	320.00
			160.00
Machinery			0.00
Truck	hour	0.200	1150.00
			230.00
Crane	hour	0.200	1220.00
			244.00
Cost for 21 pipes= (a+b)			
			641.00

Rate per pipe = (a+b)/2.1

645.21

Total per Pipe

645.21

1100
RWD

providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, preparation works, back filling concrete and masonry works in head walls and parapets (Clause 1104)

B

1000mm dia (Single Row)

a)

Material

RCC NP3 pipe including collar

m

7.500

5100.00

38,250.00

b)

Labour

0.00

Mate

day

0.090

350.00

31.50

Mason (1st Class)

day

0.250

450.00

112.50

Mazdoor (Unskilled)

day

2.000

320.00

640.00

Cost of 7.5 m = (a+b)

39,034.00

A) Basic Cost per m = (a+b)/7.5

5,204.53

Overhead & CP @ 12.5%

0.00

Total Rate per m

5,204.53

Rate Per m of pipe

5,204.53

c)

Carriage Cost

NP3 Pipe

m

7.500

536.91

0.00

Carriage of 7.5m

0.00

Carriage Cost per m

m

0.00

Rate per m with carriage

m

5,204.53

Total per m

m

5,204.53

C)

600mm single Row

a)	Material	m	7.500	2100.00	15,750.00
	RCC NP3 pipe including collar				
b)	Labour	day	0.040	350.00	14.00
	Mate	day	0.120	450.00	54.00
	Mason (1st Class)	day	0.960	320.00	307.20
	Mazdoor (Unskilled)				16,125.20
	Cost of 7.5 m = (a+b)				2,150.03
	A) Basic Cost per m = (a+b)/7.5				0.00
	Overhead & CP @ 12.5%				2,150.03
	Total Rate per m				2,150.03
	Rate Per m of pipe				2,150.03
c)	Carriage Cost	m	7.500	284.52	0.00
	NP3 Pipe				0.00
	Carriage of 7.5m	m			0.00
	Carriage Cost per m	m			0.00
	Rate per m with carriage	m			2,150.03
	Total per m	m			2,150.03
	Providing brick bats including, spreading,laying, hand packing with C/I hammers in layers has exceeding 75mm thick including cost of light barriers,danger equal,choukidar,taxes,royalty etc all complete job, as per specifications and direction of E/I including cost of bricks,..... all complete job				
	units-Cum Qty=2.832 Cum				
	a) Labour				
	Carrying,spreading,laying and packing unskilled labour	Nos	1.50	320.00	480.00
	Compaction of bricks bats with C/I Hammer unskilled labour	Nos	0.67	320.00	214.40
	b) Materials				

		Bricks bats	Cum	3.396	900	3.056.40
		c) Over Head Charge & CP 12.5% on (a+b)				
		Total (a+b+c)				3.750.80
		Rate per Cum=(a+b+c)/2.832				1.324.44
		Carriage cost				-
		Bricks bats	Cum	1.20	422.82	1.324.44
						1.324.44
5.7.7	WRD	Labour for cutting 62mm to 75mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I				
		Unit = per mt				
		Taking out put = 30.50 m				
		Assuming				
		20 no pile sunk 1.525 m deeps				
		Total depth sunk 30.50m				
	a)	Materials				
		Bamboo (100mm dia)	m	30.5	19	579.50
	b)	Labour				
		Carpenter Gr-II	day	0.25	450	112.50
		Unskilled labour for piling	day	2.5	320	800.00
		Rate for 30.5 m				1.492.00
		Overhead and CP @ 12.5%				-
		Total for 30.5 m				1.492.00
		Rate per m				48.92
		Carriage cost for bamboo per m				-
		Total cost with carriage				48.92
		Cost per m				48.92
5.7.9	WRD	Supplying Labour for fitting and fixing 62 mm to 75mm dia bamboo runners in position at every verticle pile with 150mm long nails or 38 swg G.I or nails complete job as per specification and direction of E/I.				
		Unit = Per mtr				
		Taking out put = 30.50 m				
	(i)	Materials				
		Bamboo	M	30.5	19	579.50
		Nails	Kg	0.5	58	29.00
	(ii)	Labour				
		Carpenter Gr-II	day	0.125	450	56.25
		Unskilled labour	day	0.25	320	80.00
	(iii)	Overhead and CP @ 12.5%				-
		Total cost for 30.5 m				744.75
		Cost per m				24.42
	(iv)	Carriage cost for bamboo per m				-
		Total cost with carriage per m				24.42
		Supplying of empty cement bags with local sand, stitching the bags and placing including supply of suti etc.laying,staking properlyall complete job as per specifications and direction of E/I.				
						24.42

Qty = 100 Nos				
a) Labour				
Unskilled labour for filling	Nos	1.67	320.00	534.40
Unskilled labour for carrying and packing	Nos	3.00	320.00	960.00
Skilled labour for stretching	Nos	0.33	350.00	115.50
b) Materials				
Old E. C. Bags	Nos	100	6	600.00
Local sand	Cum	3.40	125	424.81
c) Machinery				
Hire charge of machine	hour	0.33	550	182.60
d) Over Head Charge & CP @ 12.5% on (a+b+c)				-
Total (a+b+c+d)				2,817.31
Rate per bag = (a+b+c)/100				28.17
Carriage cost				-
Local sand				-
Rate per cement bag	Cum	0.034	9.48	28.17