

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D. works Circle, Kishanganj

DIVISION – R.W.D. works Division , Kishanganj-1

Name of Work - Kairbirpur To Nadi Tola

Block - Kachadhaman

Estimated cost - Rs 1465110.00

Year : 2020-21

Inspection Report for flood damage work

Date:

1. Name of PIUs- Kishangem J-1

2. Name of Block/Road- Kairbirpur To Nadi Tola

A. For Road

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

97 m.

Damage and deep side cutting

: Brick bats

: Tractor

: manual

: 97 m.

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


18-12-20

Signature of JE/AF/EE


14/12/20
AE


14/12/20


Signature

कर्मचारी निवास
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, अररिया

Name of work :-

Detailed Estimate

Kairbirpur To Nadi Tola

Sl No	Item	No	Length	Width	Height	Qty	Unit	Rate	Amount
1	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	12.00	4.00	0.90	43.20			
		1	20.00	4.00	0.60	48.00			
		1	10.00	9.00	5.00	450.00			
		1	55.00	1.15	1.00	63.25			
		Total						604.45	cum
TOTAL									1296557.00

TOTAL 1296557.00

Add 12 % GST Rs 155587.00

Add 1 % L. Ces Rs 12966.00

Total Cost Rs 1465110.00

Say Rs. 1465100/-

[Signature]
10-12-20

J.E
RWD
Kishanganj-1

[Signature]
10/12/20

A.E
R.W.D
Kishanganj-1

[Signature]
10/12/20

E.E
R.W.D
Kishanganj - 1

Technically approved for Rs. 1465100/-

(Rs. Fourteen Lacs Sixty five thousand and one

Hundred) only

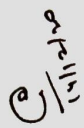
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25/12/20
अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, किशनगंज

LEAD CHART

S.L No.	Name of material	Source	Mode of transport	From	To	Lead in K.M		Loading	Unloading	Total Loading + Unloading
						Surface Road	Katcha Road			
1	2		3	4	5	6	7	8	9	10
1	Bricks	Local Kiln	By road	Local Kiln	Site	7	1	203.05	203.05	406.10
2	Fine sand	Local source	By road	Local	Site	2	1	59.43	37.10	96.53
3	Coarse Sand	Chopra	By road	Chopra	Site	80	0	59.43	37.10	96.53
4	Boulder	Siliguri	By road	Siliguri	Site	120	0	118.86	59.43	178.29
6	Stone metal for GSB	Siliguri	By road	Siliguri	Site	120	0	118.86	59.43	178.29
7	Seel	Local	By road	Local	Site	5	0	118.86	59.43	178.29
8	Hume pipe (1000 mm	Purnia	By road	Purnia	Site	90	0	41.62	28.00	69.62
9	Hume pipe (600 mm	Purnia	By road	Purnia	Site	90	0	17.84	12.00	29.84
10	Bamboo 62 to 75 mm	Local	By road	Local	Site	5	5	1,112.00	1,112.00	2,224.00


 10-12-02
 J.E
 RWD
 Kishanganj-1


 10/12/20
 A.E
 R.W.D
 Kishanganj-1


 14/12/20
 E.E
 R.W.D
 Kishanganj - I

FDR 2020
RATE ANALYSIS

S. No.	Sub S. No.	Work No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1	302	(i)	Excavation in cutting in soil by manual means with lead up to 50 m Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m as per technical specification clause 302.3 Unit = cum Taking output = 120 cum				
		a)	Labour	day	1.80	305.00	549.00
			Mate	day	45.00	267.00	12,315.00
			Mazdoor (Unskilled)				
		b)	Overheads @ 6 % on (a)				0.00
		c)	Contractor's profit @ 0% on (a+b)				13,464.00
		c)	Cost for 120 cum = a+b+c				112.20
			Rate per cum = (a+b+c)/120				112.20
			Total Cost	CUM			112.20
2	3.3	301.5	Construction of embankment with material obtained from road way cutting Construction of embankment with approved materials deposited at site and obtained from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5 Unit = cum Taking output = 100 cum				
		a)	Labour	day	0.02	305.00	6.10
			Mate	day	0.50	287.00	143.50
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.50	3,337.90	1,668.95
			Dozer D-50 for spreading @ 100 cum per hour	hour	1.00	573.20	573.20
			Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	2.00	184.00	368.00
			Water tanker 6 kl capacity	hour	1.25	803.00	1,003.75
			Three wheel 80-100 kN Static Roller				
		c)	Material	kl	12.00	40.00	480.00
			Water	cum	100.00	34.81	3,481.00
			Compensation for earth				
		d)	Overheads @ 6 % on (a+b+c)				0.00
		e)	Contractor's profit @ 10% on (a+b+c+d)				7,724.50
			Rate for 100 cum = a+b+c+d+e				77.25
			Rate per cum = (a+b+c+d+e)/100=				77.25
			Total Cost	CUM			189.45
			Grand total = 112.20 + 77.25 =	CUM			189.45
3	9.3	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row 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, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
		A.	600 MM DIA Unit = m Taking output = 7.5 m (5 pipes of 2.5 m length each)				
		a)	Material	cum		175.80	0.00
		i) Sand at site	ton			4850.80	0.00
		ii) Cement at site	m	7.50	2075.92	15569.40	
		iii) RCC pipe NP 3 pipe including collar at site					
		b) Labour	day	0.04	305.00	12.20	
		Mate	day	0.12	388.00	46.56	
		Mason (1st class)	day	0.96	287.00	275.52	
		Mazdoor (Unskilled)					
		c)Overheads @6 % on (a+b)					0.00
		d)Contractor's profit @ 0% on (a+b+c)					
		e) Carriage	cum	0	2107.51	0.00	
		i) Sand at site	ton	0	5547.44	0.00	
		ii) Cement at site	m	7.50	921.38	6910.35	
		iii) RCC pipe NP 3 pipe including collar at site				22814.03	
		Cost for 7.5m = (a+b+c)				3041.87	
		Rate per m = (a+b+c) / 7.5				3041.87	
		Total					3041.87
			Total Cost	M			3041.87
4	9.3	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row 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, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
		B.	1000 MM DIA				

			Unit =m Taking output =7.5 m (3 pipes of 2.5 m length each) a) Material i) Sand at site ii) Cement at site iii) RCC pipe NP 3 pipe including collar at site Jute b) Labour Fitter Mason (1st class) Mazdoor (Unskilled) c)Overheads @6 % on (a+b) d)Contractor's profit @ 0% on (a+b+c) e) Carriage i) Sand at site ii) Cement at site iii) RCC pipe NP 3 pipe including collar at site Cost for 7.5m = (a+b+c+d) Rate per m =(a+b+c+d)/7.5 Total	cum ton m kg day day day day cum ton m		175.80 4850.80 2758.22 33.66 1.00 2.00 21.00 0 0 7.50	0.00 0.00 20686.65 252.45 395.00 776.00 6027.00 0.00 2107.51 5547.44 1030.28	0.00 0.00 7727.10 35864.20 4781.89 4781.89
			Total Cost	M				Rs. 781.89
5	9.5 (C)	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per Design in Double Row Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in double row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets as per Clause 1106. C. 2 X 1000 MM DIA Unit =m Taking output =7.5 m (6 pipes of 2.5 m length each in two rows) a) Material i) Sand at site ii) Cement at site iii) RCC pipe NP 3 pipe including collar at site Jute b) Labour Fitter Mason (1st class) Mazdoor (Unskilled) c)Overheads @6 % on (a+b) d)Contractor's profit @ 0% on (a+b+c) e) Carriage i) Sand at site ii) Cement at site iii) RCC pipe NP 3 pipe including collar at site Cost for 7.5m = (a+b+c) Rate per m =(a+b+c)/7.5 Total	cum ton m kg day day day day cum ton m		175.80 4850.80 2758.22 33.66 2.00 4.00 42.00 0 0 15.00	0.00 0.00 41373.30 504.90 790.00 1552.00 12054.00 0.00 2107.51 5547.44 15454.20	0.00 0.00 71728.40 9563.79 9563.79
			Total Cost	M				Rs. 9563.79
6	WRD 5.7.40.1		Providing and Placing Sand bags including all material and Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete as per approved design, specifications and direction of E/I Unit :- Taking Out put:- M-159 Cost of E.C. Bags Cost of Sand(100x1.2/35.31/120Cft) b) Overheads @ 0% on (a+b+c) c) Overheads @5 % d) Carriage of sand e) For filling & stitching & stacking (Sub analysis below) f) For Placing (Sub Analysis below) Rate Per % Bags Final Rate Per % Bags	Per % nos 100 nos % cum cum cum nos nos nos		100 3.40 3.40 3.40 2.00	8.46 141.85 306.27	846.00 482.20 1041.32 583.88 861.00 Rs.3814.49 Rs.3814.50
			Sub Analysis A)For filling & stitching & stacking (a) Unskilled mazdoor for filling sand into bags and sewing			2.00	287.00	574.00

		b) Netall	Kg	0.50	19.75	9.88
		c) Overheads @ 0% on (a+b+c)				
		d) Overheads @ 5 %				
		Cost for 100 nos = a+b+c+d				583.88
		Rate per % Nos =				583.88
		Final Rate For filling & stitching & stacking				Rs.583.88
				Per % nos	(a)	
S.7.40.1.	WRD	Labour rate for filling of E.C.Bags with stitching and stacking				
1		For Placing				
		(a) Unskilled mazdoor for carrying filled bags and placing to work site	nos	3	287.00	861.00
		b) Overheads @0% on (a+b+c)				
		c) Overheads @5 %				
		Cost for 100 nos = a+b+c				861.00
		Rate per % Nos =				861.00
		Final Rate				Rs.861.00
		Total Labour Charge				Rs.1444.88
7	S.7.7	WRD Providing bamboo piles including Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.				
		Unit :- Taking Out put:-	Per M 30.50	Mtr		
		(Assuming 20 nos. pile sunk 1.525 mtr deep)				
		Total depth sunk 30.50 meter				
	(a)	Labour	nos	0.25	345.00	86.25
		Carpenter Gr II	nos	2.5	287.00	717.50
		Unskilled mazdoor for piling				
	(b)	Materials	m	30.5	23.85	727.43
		Bamboo 75 mm to 62 mm dia				
		Sub total				1531.19
	(c)	Overheads @5 %	%	15		1531.19
		Total for 30.5 Mtr Length				50.20
		Rate Per M				50.20
8	S.7.9	WRD Supplying fitting and fixing 62mm to 75 mm dia bamboo runners In position at every vertical pile with 150 mm long nails or 3R swg G.I. wire Including cost of G.I. wire or nails, all material and Labour complete job as per specification and direction of E / I.				
		Unit :- Taking Out put:-	Per M 30.50	Mtr		
	(a)	Materials				
		Cost of 150 mm long nails	Kg	0.5	55.84	27.92
		Bamboo 75 mm to 62 mm dia	m	30.5	23.85	727.43
	(b)	Labour				
		Carpenter Gr II	nos	0.125	345.00	43.13
		Unskilled mazdoor	nos	0.25	287.00	71.75
		Sub total				870.22
	(c)	Overheads @5 %		15 %		870.22
		Total for 30.5 Mtr Length				28.53
		Rate Per M				28.53
9	S.7.8	WRD Providing fitting and fixing splitte bamboo woven chachari In position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails, bamboo Labour for complete job as per specification and direction of E / I.				
		Unit :- Taking Out put:-	Per M² 9.30	Sqm		
		(Assuming strip of 3.05x3.05 - 9.30 sqm)				

		(A) Materials				
		75 mm to 100 mm long nails	Kg	0.25	55.84	13.96
		Bamboo 75 mm to 62 mm dia				
		(Bamboo@75mm = 3050/75 = 40.67 say 41 nos. X 3.05 = 125.05m				
		Add for Lower Binder of Chachari 10 x 3.05 = 30.5 m				
		Runner (@150mm C/C) 7 x 3.05 = 21.35m				
		(Total=143.35m, Hence, 176.9/6 = 30 Nos)				
		(B) Labour	m	143.35	23.85	3418.90
		Carpenter Gr II				
		Unskilled mazdoor	nos	1	345.00	345.00
		Sub total	nos	1	287.00	287.00
		(c) Overheads @ 5 %				4064.86
		Total for 9.30 SqM	15 %			4064.86
		Rate Per SqM				437.08
						437.08
10	9.2 (1)	1100 & 800 Sand filling or Type B (First Class) Bedding	Say Rs		Per M ²	
		Laying (First Class) bedding on well compacted sand, moorum or approved granular material as per Clause 1105 (ii)				
		Filling in foundation trenches as per drawing and technical specification Clause 305.3.9				
		i. Sand filling				
		Unit = cum				
		a) Labour				
		Mate	day	0.01	305.00	3.05
		Mazdoor (Unskilled)	day	0.30	287.00	86.10
		b) Material				
		Sand (assuming 20 per cent voids)	cum	1.20	141.85	170.22
		c) Overheads @ 6 % on (a+b)				
		d) Overheads @ 5 %				0.00
		<u>CARRIAGE COST</u>				
		sand	Cum	1.2	306.27	367.52
		Rate per cum = a+b+c				626.89
		Total Cost	CUM			626.89
11	WRD	5.7.40 Construction of granular sub base using jhama meta/ Brick Bat vide WRD				
		Providing and laying dry graded jhama khoa? Brickbat or stone filter under brick pitching or boulder pitching in slope or apron including light ramming etc.all complete job as per specification and direction of E / I.				
		Unit = cum				
		Taking output = 2.832 cum				
		(a) Labour				
		Mazdoor (Unskilled)	day	0.00	305.00	0.00
		Mazdoor (Unskilled)	day	3.00	287.00	861.00
		Sub total of Labour for 2.832 Cum				861.00
		Labour charge for 1.00 cum				304.03
		(b) Material				
		Brick bat:	cum	1.200	1,063.00	1,275.60
		(e) Carriage				
		Brick bat	cum	1.200	471.16	565.39
		Cost for 1.00 cum = a+b+c+d+e				2,145.02
		Rate per cum = (a+b+c+d+e)				Rs.2145.02
		Final Rate				Rs.2145.07

C
14/12/22