

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Ward No. 01 Tola to Singhari T03

Block - Kochadhaman

Estimated cost - Rs 339038.00

Year : 2020-21

Inspection Report for flood damage work

Date:

1. Name of PIUs- Kishanganj-1

2. Name of Block/Road- Ward no-1 tola to Singharai 403

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

: 95m.

: Damage and deep side cutting

: sand, cement bags

: Bamboo, Brick bats

: Tractor

: manau

: 95m.

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:

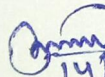
iii Procedure taken up in Restoration works

iv Restored Length

:

:

:


14/12/20
AE

Signature of JE/AE/EE


14/12/20


14/12/20
Signature

(Name of Inspector)
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, अररिया

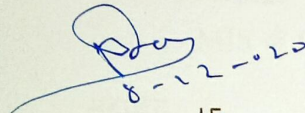
Name of work :-

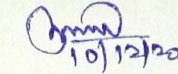
Detailed Estimate

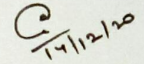
Ward No. 01 Tola to Singhari T03

Sl No	Item	No	Length	Width	Height	Qty	Unit	Rate	Amount
1	Providing and cutting of 62 mm to 75 mm dia bamboo piles to size and making shoes, all complete job ----E/I	164	1.60	-	-	262.40			
						Total	262.40	sqm	50.20
									13172.00
2	Providing, fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E/I.	10	95.00	-	-	950.00			
						Total	950.00	sqm	28.53
									27104.00
3	Providing and filling empty cement bags with local sand, stitching the bags and placing including supply of sutli etc. all complete job ----E/I	1	95.00	0.65	1.55	95.71			
						Total	95.71	cum	
		=	3380.00	cft	Say	2817.00	Nos	38.14	107440.00
4	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	95.00	1.15	0.65	71.01			
						Total	71.01	cum	2145.02
									152318.00
TOTAL									300034.00
Add 12 % GST									Rs 36004.00
Add 1 % L. Ces									Rs 3000.00
Total Cost									Rs 339038.00

Say Rs - 339000/-


 J.E
 RWD
 Kishanganj-1

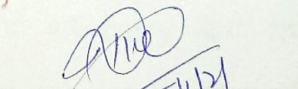

 A.E
 R.W.D
 Kishanganj-1


 E.E
 R.W.D
 Kishanganj - I

Technically approved for ₹ 339000/-

(Rs. Three Lacs thirty ^{nine} thousand and --)

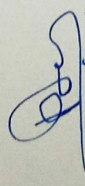
-----) only


 अवीक्षण अभियन्ता
 ग्रामीण कार्य विभाग
 कार्य अंचल, किशनगंज

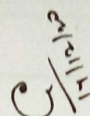
खयमती नीती
ठक में अपरे
20 के र
मुख्य
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र

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


8-12-2021
J.E
RWD
Kishanganj-1


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


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

BASIC RATES
(A) Labour As per Notification dtd.- 06.05.20

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287.00
L-02	Bitumen Sprayer	day	302.00
L-03	Blacksmith	day	345.00
L-04	Blaster	day	477.00
L-05	Carpenter 1st Class	day	388.00
L-06	Carpenter 2nd Class	day	345.00
L-06	Chips spreader	day	345.00
L-07	Chiseller	day	364.00
L-08	Dresser (Skilled)	day	364.00
L-09	Driller	day	345.00
L-10	Electrician	day	367.00
L-11	Fitter	day	395.00
L-12	Mason (1st class)	day	388.00
L-13	Mason (2nd Class)	day	345.00
L-14	Mate	day	305.00
L-15	Mazdoor (Unskilled)	day	287.00
L-16	Mazdoor (Semi skilled)	day	299.00
L-17	Mazdoor (Skilled)	day	364.00
L-18	Painter (1st class)	day	367.00
L-19	Plumber	day	367.00
L-20	Surveyor	day	349.00
L-21	White Washer	day	365.00

FDR 2020
RATE ANALYSIS

Sl. No.	SDS Sl. No.	MORD Ref 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
			Material (Unskilled)	day	45.00	267.00	12,015.00
		b)	Overheads @ 6 % on (a)				
		c)	Contractor's profit @ 0% on (a+b)				0.00
		e)	Cost for 120 cum = a+b+c				13,464.00
			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	0.04	305.00	6.10
			Material (Unskilled)	day	0.50	287.00	143.50
		b)	Machinery				
			Dozer D-50 for spreading @ 100 cum per hour	hour	0.50	3,337.90	1,668.95
			Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	1.00	573.20	573.20
			Water tanker 6 kl capacity	hour	2.00	184.00	368.00
			Three wheel 80-100 kN Static Roller	hour	1.25	803.00	1,003.75
		c)	Material				
			Water	kl	12.00	40.00	480.00
			Compensation for earth	cum	100.00	34.81	3,481.00
		d)	Overheads @ 6 % on (a+b+c)				
		e)	Contractor's profit @ 10% on (a+b+c+d)				0.00
			Rate for 100 cum = a+b+c+d+e				7,724.50
			Rate per cum = (a+b+c+d+e)/100=				77.25
			Total Cost	CUM			77.25
			Grand total = 112.2 + 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					
		i) Sand at site	cum			175.80	0.00
		ii) Cement at site	ton			4850.80	0.00
		iii) RCC pipe NP 3 pipe including collar at site	m	7.50		2075.92	15569.40
		b) Labour					
		Material	day	0.04		305.00	12.20
		Mason (1st class)	day	0.12		388.00	46.56
		Mazdoor (Unskilled)	day	0.96		287.00	275.52
		c)Overheads @6 % on (a+b)					
		d)Contractor's profit @ 0% on (a+b+c)					0.00
		e) Carriage					
		i) Sand at site	cum	0		2107.51	0.00
		ii) Cement at site	ton	0		5547.44	0.00
		iii) RCC pipe NP 3 pipe including collar at site	m	7.50		921.38	6910.35
		Cost for 7.5m = (a+b+c)					22814.03
		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	cum		175.80	0.00
ii) Cement at site	ton		4850.80	0.00
iii) RCC pipe NP 3 pipe including collar at site	m	7.50	2758.22	20686.65
Jute	kg	7.50	33.66	252.45
b) Labour				
Fitter	day	1.00	395.00	395.00
Mason (1st class)	day	2.00	388.00	776.00
Mazdoor (Unskilled)	day	21.00	287.00	6027.00
c)Overheads @6 % on (a+b)				
d)Contractor's profit @ 0% on (a+b+c)				
e) Carriage				
i) Sand at site	cum	0	2107.51	0.00
ii) Cement at site	ton	0	5547.44	0.00
iii) RCC pipe NP 3 pipe including collar at site	m	7.50	1030.28	7727.10
Cost for 7.5m = (a+b+c+d)				35864.20
Rate per m =(a+b+c+d) / 7.5				4781.89
Total				4781.89
		Total Cost	m	4781.89

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	cum		175.80 0.00
			ii) Cement at site	ton		4850.80 0.00
			iii) RCC pipe NP 3 pipe including collar at site	m	15.00	2758.22 41373.30
			Jute	kg	15.00	33.66 504.90
			b) Labour			
			Fitter	day	2.00	395.00 790.00
			Mason (1st class)	day	4.00	388.00 1552.00
			Mazdoor (Unskilled)	day	42.00	287.00 12054.00
			c)Overheads @6 % on (a+b)			
			d)Contractor's profit @ 0% on (a+b+c)			
			e) Carriage			
			i) Sand at site	cum	0	2107.51 0.00
			ii) Cement at site	ton	0	5547.44 0.00
			iii) RCC pipe NP 3 pipe including collar at site	m	15.00	1030.28 15454.20
			Cost for 7.5m = (a+b+c)			71728.40
			Rate per m =(a+b+c)/7.5			9563.79
			Total			9563.79
		Total Cost	M			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 :-	Per % nos		
			Taking Out put:-	100 nos		
	M-159	Cost of E.C. Bags	%	100	8.46	846.00
		Cost of Sand (100x1.2/35.3)(120Cft)	cum	3.40	141.05	482.20
						1328.29
	b)	Overheads @ 0% on (a+b+c)				
	c)	Overheads @5 %		Per % nos		
	d)	Carriage of Sand	cum	3.40	306.27	1041.32
	e)	For filling & stitching & stacking (Sub analysis below)				583.88
	f)	For Placing (Sub Analysis below)				861.00
		Rate Per % Bags				Rs.3814.49
		Final Rate Per % Bags				Rs.3814.50

Sub Analysis

A) For filling & stitching & stacking

(a) Unskilled mazdoor for filling sand into bags and sewing	nos	2.00	287.00	574.00
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		b) Satali							
		c) Overheads @ 0% on (a+b+c)		Kg		0.50		19.75	9.88
		d) Overheads @ 5 %							
		Cost for 100 nos = a+b+c+d							583.88
		Rate per % Nos =							583.88
		Final Rate For filling & stitching & stacking				Per % nos	(a)		Rs.583.88
5.7.40.1.	1	WRD	Labour rate for filling of E.C.Bags with stitching and stacking						
		B	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				Per%Nos	(b)		Rs.861.00
		Only Labour Charge				Per %nos			Rs.1444.66
7	5.7.7	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.						
		5.7.7							
			Unit :-		Per M				
			Taking Out put:-		30.50 Mtr				
			(Assuming 20 nos. pile sunk 1.525 mtr deep)						
			Total depth sunk 30.50 meter						
		(a)	Labour						
			Carpenter Gr II	nos		0.25		345.00	86.25
			Unskilled mazdoor for piling	nos		2.5		287.00	717.50
		(b)	Materials						
			Bamboo 75 mm to 62 mm dia	m		30.5		23.85	727.43
			Sub total						1521.19
		(c)	Overheads @5 %	%		15			
			Total for 30.5 Mtr Length						1521.19
			Rate Per M						50.20
			Say Rs		per M				50.20
8	5.7.9	WRD	Supplying fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 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 :-		Per M				
			Taking Out put:-		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 %			
			Total for 30.5 Mtr Length						870.22
			Rate Per M						28.53
			Say Rs		28.53 Per M				
9	5.7.8	WRD	Providing fitting and fixing split 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 :-		Per M ²				
			Taking Out put:-		9.30 Sqm				
			(Assuming strip of 3.05x3.05 = 9.30 sqm)						

(A) Materials

75 mm to 100 mm long nails

Bamboo 75 mm to 62 mm dia

(Bamboo @ 75mm = $3050/75 = 40.67$ say 41 nos. $\times 3.05 = 125.05m$

Add for Lower binder of Chachari $10 \times 3.05 = 30.5m$

Runner (@ 150mm C/C) $7 \times 3.05 = 21.35m$

(Total = $143.35m$, Hence, $176.9/6 = 30$ Nos)

(B) Labour

Carpenter Gr II

Unskilled mazdoor

Sub total

(c) Overheads @ 5 %

Total for 9.30 SqM

Rate Per SqM

Kg

0.25

55.84

13.96

m

143.35

23.85

3418.90

nos

1

345.00

345.00

nos

1

287.00

287.00

4064.86

15

%

4064.86

437.08

Say Rs

Per M²

437.08

10

9.2

(1)

1100 &

800

Sand filling or Type B (First Class) Bedding

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

1.

Sand filling

Unit = cum

a)

Labour

Mate

Mazdoor (Unskilled)

b)

Material

Sand (assuming 20 per cent voids)

c)

Overheads @ 6 % on (a+b)

d)

Overheads @ 5 %

CARRIAGE COST

sand

Rate per cum = a+b+c

day

0.01

305.00

3.05

day

0.30

287.00

86.10

cum

1.20

141.85

170.22

Cum

1.2

306.27

367.52

626.05

Total Cost

CUM

626.89

11

WRD

5.7.40

Construction of granular sub base using jhama metal/ 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)

Mazdoor (Unskilled)

Sub total of Labour for 2.832 Cum

Labour charge for 1.00 cum

(b)

Material

Brick bat

day

0.00

305.00

0.00

day

3.00

287.00

861.00

861.00

304.03

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.2145.02

C
14/12/22