

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Idgah Tola to L075

Block - Kochadhaman

Estimated cost - Rs 619803.00

Year : 2020-21

Date:

Inspection Report for flood damage work

1. Name of PIUs- Kishanganj-1

2. Name of Block/Road- Idgah tola to L075

A. For Road

1. Damage Location/Chainage :

2. Damage Length : 173 m.

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

Damage and deep side cutting
sand, cement bags,
Bamboo, Brick bats
Tractor
manual
173 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

8-12-20

Signature of JE/AF/EE

14/12/20
AE

14/12/20

Signature

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

Detailed Estimate

Name of work :-

Idgah Tola to L075

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	100	1.65	-	-	165.00			
		50	1.25	-	-	62.50			
		Total				227.50	sqm	50.20	11421.00
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	8	50.00	-	-	400.00			
		2	10.00	-	-	20.00			
		Total				420.00	sqm	28.53	11983.00
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	15.00	0.40	0.45	2.70			
		1	15.00	0.65	0.80	7.80			
		1	30.00	0.45	1.50	20.25			
		1	40.00	1.25	1.10	55.00			
		1	73.00	0.45	0.50	16.43			
		Total				102.18	cum		
=		3608.49 cft		Say	3007.00	Nos	38.14	114687.00	
4	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	15.00	0.60	2.60	23.40			
		1	15.00	1.10	0.90	14.85			
		1	30.00	1.15	1.20	41.40			
		1	40.00	1.00	1.50	60.00			
		1	73.00	1.18	0.60	51.68			
		Total				191.33	cum	2145.02	410407.00
TOTAL								548498.00	

Add 12 % GST	Rs 65820.00
Add 1 % L. Ces	Rs 5485.00
Total Cost	Rs 619803.00

Say Rs. 619800/-

[Signature]
8-12-20
J.E
RWD
Kishanganj-1

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

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

Technically approved for ₹ 619800/-

(Rs. six Lacs ninety thousand and Eight

Hundred) only

[Signature]
25/1/24
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

8-12-20
J.E
RWD
Kishanganj-1

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

2/12/20
E.E
R.W.D
Kishanganj - I

BASIC RATES
(C) Material (vide SOR RCD Dtd- 16.04.20 and WRD dtd -15.07.19)

Sl. No.	Description	Unit	Basic Rate (Rs.)	Royalty included in col. 4 (Rs.)	Final Rate with all taxes (Rs.)
1	2	3	4	5	6
1	Annealed wire 20 to 25 SWG	kg	62.92	0.00	62.92
2	Bamboo of 62 mm to 75 mm dia (6 to 8 m long)	M	20.21	0.00	20.21
3	B.A wire 8 to 10 SWG	kg	62.92	0.00	62.92
4	Brick bat	cum	1,063.00	18.00	1,083.00
5	Empty Bitumen Drum	nos	127.80	0.00	127.80
6	Empty Cement Bag	nos	2.92	0.00	2.92
7	Nylon Crate	nos	39.85	0.00	39.85
8	RCC Pipe NP3 (1000 mm dia)	m	2,744.50	0.00	2,744.50
9	RCC Pipe NP3 (800 mm dia)	m	2,058.38	0.00	2,058.38
10	River bed materials Grade-III	cum	210.35	75.00	210.35
11	Sand bag (Cost of sand + Empty Cement Bag)	nos	8.46	2.59	8.46
12	Sand (Coarse)	cum	175.80	75.00	175.80
13	Sutali	kg	19.75	0.00	19.75
14	Sand (Fine)	cum	141.85	75.00	141.85
15	Water	kl	40.00	0.00	40.00
16	75 mm to 100 mm long Nail	kg	55.84	0.00	55.84
17	150 mm long Nail	kg	55.84	0.00	55.84

FDR 2020
RATE ANALYSIS

Sl. No.	SDB Sl. No.	MC/IRD 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				
			Mate	day	1.80	305.00	549.00
			Mazdoor (Unskilled)	day	45.00	267.00	12,315.00
		b)	Overheads @ 6 % on (a)				
		c)	Contractor's profit @ 0% on (a+b)				0.00
		c)	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				
			Mate	day	0.02	305.00	6.10
			Mazdoor (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 30-100 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 = 112.20 + 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 (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		2075.92	15569.40
		b) Labour					
		Mate	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				

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A For filling & stitching & stacking

			b) Suttali						
			c) Overheads @ 0% on (a+b+c)						
			d) Overheads @ 5 %	Kg		0.50	19.75	9.88	
			Cost for 100 nos = a+b+c+d						
			Rate per % Nos =						583.88
			Final Rate For filling & stitching & stacking						583.88
						Per % nos	(a)		Rs.583.88
5.7.40.1.		WRD	Labour rate for filling of E.C.Bags with stitching and stacking						
1			Sub Amount						
			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 Mtr			Rs.1444.88
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					1531.19	
		(c)	Overheads @5 %	%		15			
			Total for 30.5 Mtr Length					1531.19	
			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	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)	m	143.35	23.85	3418.90	
	(B)	Labour					
		Carpenter Gr II	nos	1	345.00	345.00	
		Unskilled mazdoor	nos	1	287.00	287.00	
		Sub total				4064.86	
	(c)	Overheads @ 5 %	15	%			
		Total for 9.30 SqM				4064.86	
		Rate Per SqM				437.08	

			Say Rs		Per M ²		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 I. 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 % <u>CARRIAGE COST</u> sand Rate per cum = a+b+c					day day cum Cum	0.01 0.30 1.20 1.2	305.00 287.00 141.85 306.27	3.05 86.10 170.22 367.52 626.82
			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	day	0.00	305.00	0.00				
			Mazdoor (Unskilled)	day	3.00	287.00	861.00				
			Mazdoor (Unskilled)				861.00				
			Sub total of Labour for 2.832 Cum				304.03				
			Labour charge for 1.00 cum								
		(b)	Material	cum	1.200	1,062.00	1,275.60				
			Brick bat:								
		(e)	Carriage	cum	1.200	471.16	565.39				
			Brick bat								
			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				

Q
14/12/22