

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Singhari Kabristan Tola To T-03

Block - Kochadhaman

Estimated cost - Rs 514785.00

Year : 2020-21

TECHNICAL REPORT

Name of Work – FDR To Road From Singhari Kabristan to/a to T03
Head – FDR
Estimated cost – 514785.00 Lacs

The work done estimate has been framed for the restoration (motarable) of traffic for the above road which was damage during the year 2020-2021 flash flood.

(A) Source of materials

Brick Bats – Local Kiln
Fine sand – Local
Cement Bag – Local Market
Aggregate for G.S.B – Matigara (Silliguri) by road up to site.
Bamboo – Local
Earth – Private land from 1000m lead.

(B) Rate - Carriage has been analyzed on minimum lead. Finished rate has been calculated without contractor's profit on MORD norms. Carriage of materials has been added to finished rate. Basic Rates are evaluated from rates approved by State schedule rate committee. 12% GST & 1% Labour cess has been added in the estimate in abstract part.

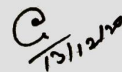
Sanction of estimate is much needed for payment of the work which was already done.



J.E
R.W.D
Kishanganj-1



A.E
R.W.D
Kishanganj-1



E.E
R.W.D
Kishanganj-1

Inspection Report for flood damage work

Date:

1. Name of PIUs- Kishangaur-1

2. Name of Block/Road- Singhari Kabristan Tola to T-03

A. For Road

1. Damage Location/Chainage :

2. Damage Length : 137 m.

3. Nature of Damage : Damage and deep side cutting

4. Details of Restoration :

i Material being used in Restoration : Bamboo, brick bats

ii Equipment/Tools being used in Restoration works: tractor

iii Procedure taken up in Restoration works : manual

iv Restored Length : 137 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 :


13-12-20

Signature of JE/AF/EE


13/12/20
AE


13/12/20


13/12/20

Signature

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

ame of work :-

Detailed Estimate

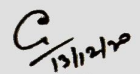
Singhari Kabristan Tola To T-03

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	550	2.50	-	-	1375.00			
						Total	1375.00	RM	50.20
									69025.00
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	4	110.00	-	-	440.00			
						Total	440.00	RM	28.53
									12553.00
3	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	40.00	2.15	1.35	116.10			
		1	44.00	0.90	1.10	43.56			
		1	23.00	0.75	0.60	10.35			
		1	21.00	0.45	0.35	3.31			
		1	8.60	0.40	0.30	1.03			
						Total	174.35	cum	2145.02
									373984.00
									TOTAL
									455562.00
									Add 12 % GST
									Rs 54667.00
									Add 1 % L. Ces
									Rs 4556.00
									Total Cost
									Rs 514785.00

Say Rs. 514800/-


10-12-20
J.E
RWD
Kishanganj-1


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


13/12/20
E.E
R.W.D
Kishanganj - I

Technically approved for ₹.....514800/-

(Rs. Five Lacs Fourty thousand and Eight Hundred) only


25/1/21
अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, किशनगंज

LEAD CHART

S.I. 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

18-12-22

J.E
RWD
Kishanganj-1

10/12/22

A.E
R.W.D
Kishanganj-1

13/12/22
E.E
R.W.D
Kishanganj - I

FDR 2020
RATE ANALYSIS

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1	30.2	(f)	EARTHWORK 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	287.00	12915.00
		b)	Mazdoor (Unskilled)				
		b)	Overheads @ 6 % on (a)				
		c)	Contractor's profit @ 0% on (a+b)				0.00
		c)	Cost for 120 cum = a+b+c				13464.00
			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	0.02	305.00	6.10
			Mate	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)				6.90
		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			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					
		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				

[illegible]

			b) Sutali	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		Per % nos	(a)	Rs.583.88
5.7.40.1.	1	WRD	Labour rate for filling of E.C.Bags with stitching and stacking				
			Sub Available				
			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 %				861.00
			Cost for 100 nos = a+b+c				861.00
			Rate per % Nos =				Rs.861.00
			Final Rate		Per%Nos	(b)	Rs.1444.88
			Only Labour Charge		Per%Nos		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.				
			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	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				1521.19
			Sub total				1521.19
		(c)	Overheads @5 %	%	15		1531.19
			Total for 30.5 Mtr Length				50.20
			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 3B 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	Kg	0.5	55.84	27.92
			Cost of 150 mm long nails	m	30.5	23.85	727.43
			Bamboo 75 mm to 62 mm dia				
		(b)	Labour	nos	0.125	345.00	43.13
			Carpenter Gr II	nos	0.25	287.00	71.75
			Unskilled mazdoor				
			Sub total				870.22
		(c)	Overheads @5 %		15 %		870.22
			Total for 30.5 Mtr Length				28.53
			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)				
		(B)	Labour	m	143.35	23.85	3418.90
			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	1100 & (1)	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	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)				0.00
		d)	Overheads @ 5 %				
			<u>CARRIAGE COST</u>				
			sand	Cum	1.2	306.27	367.52
			Rate per cum = ar/b/c				626.89
			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)	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	1,062.00	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
12/12/20