

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Makraha to Makraha

Block - Kochadhaman

Estimated cost - Rs 771875.00

Year : 2020-21

Date:

Inspection Report for flood damage work

1. Name of PIUs- Kishanganj - 1

2. Name of Block/Road- makraha to makraha

A. For Road

1. Damage Location/Chainage :
2. Damage Length : 129 m.
3. Nature of Damage : Damage and deep side cutting
4. Details of Restoration :
i Material being used in Restoration : sand, cement bags
ii Equipment/Tools being used in Restoration works: Bamboo, Brick bats
iii Procedure taken up in Restoration works : Tractor
iv Restored Length : manual
: 129 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 :


14-12-20

Signature of JE/AF/EE


14/12/20


14/12/20


Signature

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

Name of work :-

Detailed Estimate

Makraha to Makraha

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	120	1.50	-	-	180.00			
		140	1.20	-	-	168.00			
		Total				348.00	RM	50.20	17470.00
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.	3	40.00	-	-	120.00			
		3	85.00	-	-	255.00			
		Total				375.00	RM	28.53	10699.00
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	40.00	1.95	3.00	234.00			
		1	85.00	1.90	1.50	242.25			
		Total				476.25	cum		
4	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	=	16818.77 cft	Say	14016.00	Nos	38.14	534570.00	
		1	40.00	1.05	0.30	12.60			
		1	4.00	3.00	1.50	18.00			
		1	85.00	1.00	0.30	25.50			
Total				56.10	cum	2145.02		120336.00	
TOTAL									683075.00
Add 12 % GST									Rs 81969.00
Add 1 % L. Ces									Rs 6831.00
Total Cost									Rs 771875.00

say. RS. 771900/-

J.E

RWD
Kishanganj-1

A.E

R.W.D
Kishanganj-1

E.E

R.W.D
Kishanganj - 1

Technically approved for ₹ 771900/-

(Rs. seven Lacs, seventy thousand and nine

hundred) only

25/11/20

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	Seal	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

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

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

Chopra
E.E
R.W.D
Kishanganj - I

FDR 2020
RATE ANALYSIS

Sl. No.	PS No.	MSD 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	287.00	12,915.00
		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 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				
			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)	Carrlage				
			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				

		b) Satal							
		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 & stiching & stacking					Per % nos	(a) Rs.583.88	
5.7.40.1	1	WRD	Labour rate for filling of E.C.Bags with stiching and stacking						
		B	For Placing						
		(a)	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						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						
			nos	0.25	345.00	86.25			
			nos	2.5	287.00	717.50			
		(b)	Materials						
			m	30.5	23.85	727.43			
			Bamboo 75 mm to 62 mm dia						
			Sub total						
		(c)	Overheads @ 5 %						
			%	15		1091.18			
			Total for 30.5 Mtr Length						
			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						
			Kg	0.5	55.84	27.92			
			m	30.5	23.85	727.43			
			Cost of 150 mm long nails						
			Bamboo 75 mm to 62 mm dia						
		(b)	Labour						
			nos	0.125	345.00	43.13			
			nos	0.25	287.00	71.75			
			Carpenter Gr II						
			Unskilled mazdoor						
			Sub total						
		(c)	Overheads @ 5 %						
			15.9%						
			Total for 30.5 Mtr Length						
			Rate Per M						
			28.53						
			Say Rs. 28.53 Per M						
9	5.7.8	WRD	Providing fitting and fixing splite 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 - 0.30 sqm)						

(A)	Materials				
	2% min to 100 mm long nails				
	Bamboo 25 mm to 63 mm dia	Kg	0.25	55.84	13.96
	(Bamboo @ 25mm - 40% / 2" - 40 Nos / say 41 Nos X 1.05 = 12% 05m				
	runner @ 150mm (2") x 4.05 = 21.35m				
	(Total = 143.25m. Hence, 176 Nos = 40 Nos)				
(B)	Labour	m	143.35	23.85	3418.90
	carpenter cum				
	Unskilled mason	nos	1	145.00	145.00
	Sub total	nos	1	287.00	287.00
(C)	Overheads @ 5 %				4064.86
	Total for 9.40 SqM	15 %			4064.86
	Rate Per SqM				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	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 %				
			CARRIAGE COST				
			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	1,062.00	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
1/1/20