

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Bishanpur T06 to Chikni to Majkuri Paschim Tak

Block - Kochadhaman

Estimated cost - Rs 2868037.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

1. Name of PIUs- Kishanganj-1

2. Name of Block/Road- Bishanpur to Chikni to Majkuri
Paschim tar
Part I

A. For Road

1. Damage Location/Chainage :

2. Damage Length : 1200 m.

3. Nature of Damage : Damage and deep side cutting

4. Details of Restoration :

i Material being used in Restoration : GSB, Brick ball

ii Equipment/Tools being used in Restoration works: Tractor

iii Procedure taken up in Restoration works : manual

iv Restored Length : 1200 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 :

P. Das
14-12-20

Signature of JE/AE/EE

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14/12/20
AE

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Signature

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

Inspection Report for Flood damage work

Date:

1. Name of PIUs- Executive Engineer Kishnupur-01.

2. Name of Block/Road- Kochedhemen / Kishnupur To to shikni to
Majkuri Paschimtek, part-II.

A. For Road

1. Damage Location/Chainage :

2. Damage Length : 130 M.

3. Nature of Damage : Flood.

4. Details of Restoration :

i Material being used in Restoration

: bamboo, sand cement bags

ii Equipment/Tools being used in Restoration works: Tractor

iii Procedure taken up in Restoration works

: manual

iv Restored Length

: 130 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 :


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Signature of JE/AF/EE


14/12/20
AE


14/12/20


14/12/20

Signature

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

ABSTRACT OF COST

Name of Work - Bishanpur T06 to Chikni to Majkuri Paschim Tak

Block - Kochadhaman

S.L No.	Particulars	Amount (In Rs.)
A	Bishanpur T06 to Chikni to Majkuri Paschim Tak (Part-I)	Rs 2197463.00
B	Bishanpur T06 to Chikni to Majkuri Paschim Tak (Part-II)	Rs 670574.00
	Total Cost	Rs 2868037.00


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RWD
Kochadhaman


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A.E
R.W.D
Kochadhaman


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

Technically approved for Twenty Rs 28,68,037/-

(Rs. Twenty Lacs Sixty Eight thousand and Twenty
seven) only


23/11/20
अधीक्षण अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, किशनगंज

Detailed Estimate

Bishanpur T06 to Chikni to Majkuri Paschim Tak

Sl No		Item	No	Length	Width	Height	Qty	Unit	Rate	Amount
1		Construction of granular sub-base by providing well graded gading-II material, all complete job—E/I	1	1200.00	4.00	0.15	720.00			
Total							720.00	cum	2198.92	1583221.00
2		Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	200.00	3.75	0.15	112.50			
			1	70.00	4.00	0.20	56.00			
Total							168.50	cum	2145.02	361436.00
TOTAL										1944657.00
Add 12 % GST										Rs 233359.00
Add 1 % L. Ces										Rs 19447.00
Total Cost										Rs 2197463.00

Say RS- 2197500/-


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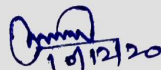

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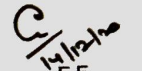
Detailed Estimate
Bishanpur Chikni to Majkuri

Bishanpur Chikni to Majra

Item	No	Length	Width	Height	Qty	Unit	Rate	Amount
Providing and cutting of 62 mm to 75 mm dia bamboo piles to size and making shoes, all complete job —E/I	130	1.35	-	-	175.50			
	0	0.00	-	-	0.00			
	Total				175.50	RM	50.20	8810.00
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	130.00	-	-	390.00			
	0	0.00	-	-	0.00			
	Total				390.00	RM	28.53	11127.00
3 Providing and laying empty cement bags with local sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with a lead of 150 M including supply of sutil etc and placing the filled crates in water portion within a lead of 30 M, all complete as per approved design, specifications and direction of E/I	1	130.00	3.50		455.00			
	Total				455.00	cum		
	=	16068.33 cft			Say	643.00	Nos	891.90
TOTAL								593429.00
Add 12 % GST								Rs 71211.00
Add 1 % L. Ces								Rs 5934.00


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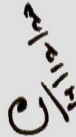

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LEAD CHART

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


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RATE ANALYSIS

SL No.	SDS No.	MDR (Rate 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)				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			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)				0.00
		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 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 2107.51 5547.44 1030.28	0.00 0.00 20686.65 252.45 395.00 776.00 6027.00 0.00 0.00 7727.10 35864.20 4781.89 4781.89		
Total Cost										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 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 cum ton m			175.80 4850.80 2758.22 33.66 2.00 4.00 42.00 2107.51 5547.44 1030.28	0.00 0.00 41373.30 504.90 790.00 1552.00 12054.00 0.00 0.00 15454.20 71728.40 9563.79 9563.79		
Total Cost										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(100x1.2/35.3)/(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 Sub Analysis A) For filling & stitching & stacking (a) Unskilled mazdoor for filling sand into bags and sewing	Per % nos 100 nos % cum Per % nos cum nos			100 3.40 3.40 3.40 2.00	8.46 141.05 306.27 Rs.3814.49 Rs.3814.50 287.00	846.00 402.20 1328.29 1041.32 583.88 861.00 Rs.3814.49 Rs.3814.50 574.00	

				Kg	0.50	19.75	9.88
		b) Final overheads @ 0% on (a+b+c)					
		c) Overheads @ 5 %					
		d) Overheads @ 5 %					
		Cost for 100 nos = a+b+c+d					583.88
		Rate per % Nos =					583.88
		Final Rate For filling & stitching & stacking					583.88
					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 Analysis					
		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		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					1531.19
		Sub total					
		(c) Overheads @5 %		%	15		1031.16
		Total for 30.5 Mtr Length					50.20
		Rate Per M			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
		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					870.22
		Sub total			15 %		
		(c) Overheads @5 %					870.22
		Total for 30.5 Mtr Length					28.53
		Rate Per M			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	Kg	0.25	55.84	13.96
	75 mm to 100 mm long nails				
(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 (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	day	0.01	305.00
			Mate	day	0.30	287.00
			Mazdoor (Unskilled)			
		b)	Material	cum	1.20	141.85
			Sand (assuming 20 per cent voids)			
		c)	Overheads @ 6 % on (a+b)			0.00
		d)	Overheads @ 5 %			
			<u>CARRIAGE COST</u>	Cum	1.2	306.27
			sand			626.89
			Rate per cum = a+b+c	Total Cost	CUM	
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
			Mazdoor (Unskilled)	day	3.00	287.00
			Mazdoor (Unskilled)			
			Sub total of Labour for 2.832 Cum			304.03
			Labour charge for 1.00 cum			
		(b)	Material	cum	1.200	1,062.00
			Brick bat:			1,275.60
		(e)	Carriage	cum	1.200	471.16
			Brick bat			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

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