

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

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

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

Name of Work - Mastan Chowk PWD Road to Dakchin Tola
Bagalbari

Block - Kochaulhaman

Estimated cost - Rs 230122.00

Year : 2020-21

Inspection Report for Flood damage work

Date:

1. Name of PIUs- Kishanganj-1

2. Name of Block/Road- Mastan Chowk PWD Road to Dakshin Tolga Bagalbari

A. For Road

1. Damage Location/Chainage :
2. Damage Length : 18 m.
3. Nature of Damage : Damage and deep side cutting
4. Details of Restoration :
 - i Material being used in Restoration : Brick bats
 - ii Equipment/Tools being used in Restoration works: Tractor
 - iii Procedure taken up in Restoration works : manual
 - iv Restored Length : 18 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


10/12/20


13/12/20

Signature

कार्यपालक अभियन्ता
(Name of Inspector)
कार्य प्रमण्डल, अररिया

Detailed Estimate

Name of work :-

Mastan Chowk PWD Road to Dakchin Tola Bagalbari

Sl No	Item	No	Length	Width	Height	Qty	Unit	Rate	Amount
1	Providing laying and spreading brick bats in Road ditches all complete as per approved design, specifications and direction of E/I	1	11.20	3.65	1.50	61.32			
		1	6.10	3.65	1.51	33.62			
		Total					94.94	cum	2145.02
TOTAL								203648.00	
							Add 12 % GST	Rs 24438.00	
							Add 1 % L. Ces	Rs 2036.00	
							Total Cost	Rs 230122.00	

Say RS - 230100/-

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

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

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

Technically approved for ₹.....230100/-.....

(Rs.....Two.....Lacs.....thirty.....thousand and.....one
hundred.....)only

[Signature]
अधीक्षक अभियन्ता
ग्रामीण कार्य विभाग
कार्य अंचल, किशनगंज

Technically approved for ₹.....

(Rs.....Lacs.....thousand and.....
.....)only

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

[Signature]
18-12-2020

J.E
RWD
Kishanganj-1

[Signature]
10/12/20

A.E
R.W.D
Kishanganj-1

[Signature]
15/12/20
E.E
R.W.D
Kishanganj - I

FDR 2020
RATE ANALYSIS

Sl. No.	SDB Sl. No.	MDRD 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
			Mate	day	45.00	267.00	12,015.00
			Mazdoor (Unskilled)				
		b)	Overheads @ 6 % on (a)				0.00
		c)	Contractor's profit @ 0% on (a+b)				13,464.00
		c)	Cost for 120 cum = a+b+c				117.20
			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
			Mazdoor (Unskilled)				
		b)	Machinery	hour	0.50	3,337.90	1,668.95
			Dozer D-50 for spreading @ 100 cum per hour	hour	1.00	573.20	573.20
			Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	2.00	184.00	368.00
			Water tanker 6 kl capacity	hour	1.25	803.00	1,003.75
			Three wheel 80-100 kN Static Roller				
		c)	Material	kl	12.00	40.00	480.00
			Water	cum	100.00	34.81	3,481.00
			Compensation for earth				
		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 = 112.20 + 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		cum		175.80	0.00
		i) Sand at site		ton		4850.80	0.00
		ii) Cement at site		m	7.50	2075.92	15569.40
		iii) RCC pipe NP 3 pipe including collar at site					
		b) Labour		day	0.04	305.00	12.20
		Mate		day	0.12	388.00	46.56
		Mason (1st class)		day	0.96	287.00	275.52
		Mazdoor (Unskilled)					
		c) Overheads @ 6 % on (a+b)					0.00
		d) Contractor's profit @ 0% on (a+b+c)					
		e) Carriage		cum	0	2107.51	0.00
		i) Sand at site		ton	0	5547.44	0.00
		ii) Cement at site		m	7.50	921.38	6910.35
		iii) RCC pipe NP 3 pipe including collar at site					22814.03
		Cost for 7.5m = (a+b+c)					3041.87
		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 NMM 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 cum ton m	0 7.50 7.50 1'00 2.00 21.00 0 0 7.50	175.80 4850.80 2758.22 33.66 395.00 388.00 287.00 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 4/81.89 4781.89 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 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	0 15.00 15.00 2.00 4.00 42.00 0 0 15.00	175.80 4850.80 2758.22 33.66 395.00 388.00 287.00 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	M			9563.79
5	WRD S 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:- Per % nos nos %	100 100 3.40 3.40	8.46 141.85 306.27	846.00 482.20 1328.29 1041.32 583.88 861.00 Rs.3814.49 Rs.3814.50
			Sub Analysis				
			A) For filling & stitching & stacking	nos	2.00	287.00	574.00
			(a) Unskilled mazdoor for filling sand into bags and sewing				

(A)	Materials				
	75 mm to 100 mm long nails				
	Bamboo 75 mm to 62 mm dia	Kg	0.25	55.84	13.96
	(Bamboo @ 75mm = 3050/75 = 40.67 say 41 nos. X 3.05 = 125.05m Add for Lower Binder of Gircham 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

				Qty	Unit	Rate	Amount	
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	3.05	
			Mate	day	0.30	287.00	86.10	
			Mazdoor (Unskilled)					
		b)	Material	cum	1.20	141.85	170.22	
			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	367.52	
			sand				626.89	
			Rate per cum = a+b+c					
			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				2,145.02	
			Cost for 1.00 cum = a+b+c+d+e				Rs.2145.02	
			Rate per cum = (a+b+c+d+e)				Rs.2145.02	
			Final Rate					