

Inspection Report for flood damage work

Date:

1. Name of PIUs-

EE RND (W) Division Mathura

2. Name of Block/Road-

Tariya

A. For Road

- Malavalli road from Shidelpur to Raywara

1. Damage Location/Chainage:

Ch 4.00 TO 5.00 km, Ch 4.00 TO 5.00 km, Ch 4.00 TO 5.00 km

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

316 M.

Tractor, Roller

Brick bats

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

N/A

Signature
21/11/2020

Signature of JE/AE/EE

Signature
21/11/20

Signature
21/11/2020

(Name of Inspector)



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

Works Division-Marhaura

FDR

(2020-2021)

NAME OF WORK	Motorable of Road From Shitalpur To Rajwara		
DISTRICT	Saran		
BLOCK	Taraiya Rajwara		
LENGTH OF ROAD	5.510	KM	
ESTIMATED COST	10.867	Lac	

FDR

GENERAL ABSTRACT OF COST

Block:-- ~~Banpur~~ Tamra

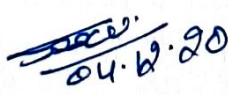
District:- Saran

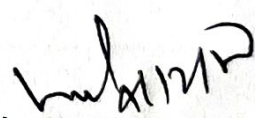
Length of Road:-- 5.510 KM

Name of Road:-- Motorable of Road From Shitalpur To Rajwara

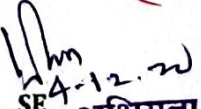
SL. No.	Amount
A ESTIMATED COST	: 10.867 Lacs
TOTAL	: 10.867 Lacs


4.12.2020
Junior Engineer


04.12.20
Asstt. Engineer


Executive Engineer

Technically approved for Rs 10,86,700 (Ten lakh eighty six thousand seven hundred)


SE-4-12-20
अधीक्षक अभियंता
RWD
ग्रामीण कार्य विभाग
कार्य अंचल, छपरा

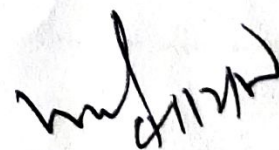
Name Of Road :-		Motorable of Road From Shitalpur To Rajwara		Block:-	Panapur
Sl. No.	Description	UNIT	QUANTITY	RATE	AMOUNT (in Rs.)
1	Providing Brick Bats Providing brick bats including spreading laying, Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete job as per approved design specification and direction of E/I, including carriage cost of bricks.				
	Quantity As Per Annexure-1	CUM	373.00	2153.51	803257.50
2	Construction of Embankment with Approved Material Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5				
	Quantity As Per Annexure-1	CUM	1020.00	234.40	239088.00
3	Providing and laying 1000 mm dia hume pipe.				
		RM	10.00	4430.60	44306.05
TOTAL COST =					10,86,651.54


4.12.2020

JE
RWD


04.12.2020

AE
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EE
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ANNEXTURE-1

Name Of Road :- Motorable of Road From Shitalpur To Rajwara

Block:- Panapur

No.	Description	Nos.	LENGTH (m)	WIDTH (m)	HEIGHT (m)	UNIT	QUANTITY
For Brick Bats							
1	CH- 4.00 To 5.00 Km L/S FLANK	1	22.00	1.50	1.00	CUM	33.00 m3
2	CH- 4.00 To 5.00 Km R/S FLANK	1	20.00	1.50	1.00	CUM	30.00 m3
3	CH- 4.00 To 5.00 Km	2	25.00	5.00	1.00	CUM	250.00 m3
4	"	1	20.00	1.50	1.00	CUM	30.00 m3
5	"	1	4.00	5.00	1.50	CUM	30.00 m3
TOTAL BRICK BATS QUANTITY =							373.00 m3
For Earthwork							
1		2	30.00	6.00	2.50	CUM	900.00 m3
2		1	8.00	6.00	2.50	CUM	120.00 m3
TOTAL EARTHWORK QUANTITY =							1020.00 m3


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Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
6.6.1 WRD Bihar	Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and direction of E/I.				
	Unit-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	287.00	861.00
	Add 6% Overhead Charge				51.66
	Rate for 2.832 Cum				912.66
	Rate Per Cum(Rs.)=				322.27
RCD	Cost of haulage Excluding Loading and Unloading				
	Haulage of Materials By Tractor Excluding Cost Of loading, unloading and stacking				
	Unit-t.km				
	Taking output 3.60 tonnes load and lead 10 km =36.0 t.km				
	(i) Surface Road				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.667	549.10	366.25
	Time Taken For empty return trip	hour	0.400	549.10	219.64
	b) Overhead Charges @0.06 on (a)				35.15
	Cost for 36 t km=(a+b+c)/36				621.04
	Say RS.-				17.25
	ii) Unsurface Gravel Road				
	Speed With load :12 km / hour.				
	Speed for empty return trip :20 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.833	549.10	457.40
	Time Taken For empty return trip 0.50	hour	0.500	549.10	274.55
	b) Overhead Charges @0.06 on (a)				43.92
	Cost for 36 t km=(a+b+c)/840.34				775.87
	Rate per t.km = (a+b+c)/3623.34				21.55
	Say RS.-				21.55

1.1 RCD	Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum				
	Placing Tractor at loading point, loading with front loader, dumping, turnig for return trip, excluding for haulage and return trip.				
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for				
	i) Positioning of Tracter at loading Point		1 Min		
	ii) Loading by front end loader 1cum bucket @ capacity 25 cum per hour		5 Min		
	iii) Maneuvering, reverse, dumping and turnig for return		0 Min		
	iv) Wating time, unforeseen Contingencies etc.		0 Min		
	Total		6 Min		
	a) Labour				
	Rate	Day	0.03	305.00	9.15
	Mazdoor for loading and unloading	Day	0.72	287.00	206.64
	b) Machinery				
	Tractor 3.60 tonnes capacity	hour	0.10	549.10	54.91
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	1403.00	116.45
	c) Overhead charges @ 0.06 on (a+b)				23.23
	Cost for 2.25 cum = a+b+c+d				410.38
	Cost for 2.25 cum = (a+b+c+d)/2.25				182.39
Note-	Unloading will be done manually.				
1	Suplying for Brick Bats (With OH)				
A	Basic Rate of Brick Bate	Per Cum		1017.00	1017.00
	Add overhead Charges 6%		0.06		61.02
	Total-				1078.02
	Surface Lead	km	7.00		
	Unsurface Lead	km	1.00		
	Factor(3.6/2.25)	cum	1.60		
B	Carriage (with OH)				
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39				410.07
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				
	Total (A+B+C)-				1810.36
	Add 1% Labour Cess (A+B+C)				18.10
	Add 12% GST(A+B+C)				217.24
	Add 10% cost of Material for seigniorage Fee		1.00	107.80	107.80
	Total Cost per Cum		Rs.-		2153.51

Analysis for Carriage by Road & Rail

Motorable of Road From Shitalpur To Rajwara

Name of Road:--

Saran

Block :- Panapaur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Leading & Unloading Cost	Carriage Cost by R & R Head	Total	Min Total
				Pukka / Surface		Katcha				
5	Hume Pipe (1000 mm)	m	Hazipur	8.00 x 7.52 x 9.00 Km = Rs 475.25	8.00	x 18.19 x 0.00 Km = Rs 0.00	76.58			Rs. 551.84
7	Hume Pipe (600 mm)	m	Hazipur	8.00 x 7.52 x 9.00 Km = Rs 190.11	8.00	x 18.19 x 0.00 Km = Rs 0.00	32.82			Rs. 222.93

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SO aa

Type of Load	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	8.40	7.52
Unsurface Gravel Load	10.10	9.04
Kachha Road	20.30	18.19

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Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
26	3.40	302 (A)	EARTHWORK Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 1000 m</u> as per Technical Specification Clause 301.5 Unit = cum Taking output = 100 cum				
		a)	Labour				
			Mate				
		b)	Mazdoor (Unskilled)	day	0.04	305.00	12.20
			Machinery	day	1.00	287.00	287.00
			Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	1969.20	3288.56
			Tipper 5.5 cum with 10 t capacity	hour	4.50	1043.00	4693.50
			Add 10 % of the cost of carriage by tipper				469.35
			Dozer D-50 for spreading @ 100 cum per hour	hour	0.50	3337.90	1668.95
			Tractor mounted grader arrangement for grading @ 100 cum per	hour	1.00	591.40	591.40
			Water tanker 6 kl capacity	hour	2.00	184.00	368.00
		c)	Three wheel 80-100 kN Static Roller @ 80 cum per hour	hour	1.25	803.00	1003.75
			Material				
			Water				
			Compensation for earth taken from private land	kl	12.00	40.00	480.00
		d)	Overheads @ 6 % on (a+b+c)	cum	100.00	34.61	3461.00
		e)	Contractor's profit @ 10% on (a+b+c+d)				980.62
			Cost for 100 cum = a+b+c+d+e				1732.43
			Rate per cum = (a+b+c+d+e)/100=				19056.77
			Labour Cess 1%				190.57
			GST 12%				1.91
			Seigniorage Fee 10%				22.87
							19.06
			Total Cost	CUM			234.40

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
29 (II)	9.30	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 4 pipe including collar at site b) Labour Mate Mason (1st class) Mazdoor (Unskilled) c)Overheads @6 % on (a+b) d)Contractor's profit @ 10% on (a+b+c) Cost for 7.5m = (a+b+c+d) Rate per m =(a+b+c+d)/7.5 Carrige cost:- Sand at site Cement at site RCC pipe NP3 concrete pipe including collar at site Rate per cum including Carrige Labour Cess 1% GST 12% Seigniorage Fee 10%				
				cum	0.04	159.46	6.38
				ton	0.03	5543.74	166.31
				m	7.50	2758.22	20686.65
				day	0.09	305.00	27.45
				day	0.25	388.00	97.00
				day	2.00	287.00	574.00
							1293.47
							2285.13
							22851.26
							3046.83
				cum	0.01	347.31	1.85
				ton	0.00	397.74	1.59
				m	1.00	551.84	551.84
							3602.12
							36.02
							432.25
							360.21
			Total Cost	m			4430.60