

L039 to mubarakpur khas Road

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D Works Circle, Chapra

DIVISION – R.W.D Works Division, Marhaura

Name of Work -

1039 to mubarakpur khas.
Motrable of road from PMGSY path Mobarakpur se
Bhalua gram se hote hue kojhi gram tak

Block -

Marhaura.
~~Amraut~~

Estimated Cost – Rs 797580.00

2020-21

Inspection Report For Flood Damage Work

Date:

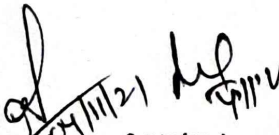
1. Name of PIU - E.E. R.W.D. (W) Marhaura.
2. Name of Block/Road - Marhaura - Motorable of road from Pithy Path
~~Marhaura to Bhatra gauri~~ ~~to Kote Kote Kote Kote~~
Lo39 to Mubarakpur Khas. Road.

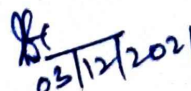
A. For Road

1. Damage Location/ Chainage :- 0.070 km.
2. Damage Length :- 0.178 km.
3. Nature of Damage :- Ditch due to flood.
4. Details of Restoration :-
- I. Materials being used in restoration : Brick bats, local sand.
- II. Equipment/Tools being used in restoration works : Roller, Trolley, J.C.B, Tractor.
- III. Procedure taken up in Restoration works : Laying & spreading Bricks (about 0.178 km).
- IV. Restored Length :

B. For Bridge

1. Damage Location/ Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration :-
- I. Materials being used in restoration :
- II. Equipment/Tools being used in restoration works :
- III. Procedure taken up in Restoration works :
- IV. Restored Length :


Signature of AE/JE/EE
Executive Engineer
Rural Works Department
Works Division, Marhaura


Signature
03/12/2021

(Er. Atchlesh Kumar)
(Name of Inspector)
EE
RWD (W) - SONEPUR

ABSTRACT OF COST

Name of Work -

Mottrable of road from PMGSY path Mobarakpur se Bhalua gram se hote hue kojhi gram tak 1039 to mubarakpur khar Road

Block - Amnaur

S.No	Particulars	Amount (In Rs.)
1	Cost of Mottrable Work	797580.00
	Total Cost	797580.00

य/कर्म मी. 15/01/22 मदीं वी मदीं 1039 तक की जमीन काम/जि.ई.
जो एम के 797580 है


J.E.

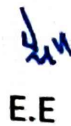
RWD

Amnaur


A.E.

RWD

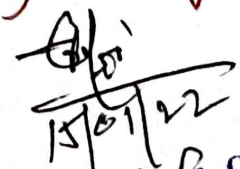
Amnaur


E.E.

RWD

Amnaur

T/S. for Rs. 7,97,580/-
(Rupees Seven lakhs. Ninety seven thousand,
five hundred. Eighty) only.


15/01/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Detailed Estimate

1039 to mubarakpur khal

Adoptable of Road From DMSV Path Moharakpur to Bhalua gram so hote hue kaji gram tak

Item	No	Length	Width	Avg.H/D	Qty	Unit	Rate	Amount
Providing laying and spreading brick bats in road ditches all complete as per approved design, specification and direction of E/L.	1	2.3	1.9	0.2	0.88			
	1	1.5	1	0.2	0.30			
	1	2.2	1.3	0.2	0.58			
	1	2	2	0.2	0.80			
	1	2.8	1.4	0.25	0.98			
	1	2.3	2.2	0.2	1.02			
	1	2.8	1.8	0.25	1.26			
	1	1.5	1.5	0.25	0.57			
	1	2.00	1.00	0.20	0.40			
	1	2.90	1.50	0.20	0.87			
	1	1.00	1.00	0.25	0.25			
	1	2.90	1.40	0.25	1.02			
	1	1.80	1.80	0.20	0.65			
	1	1.10	1.10	0.25	0.31			
	1	0.90	0.90	0.20	0.17			
	1	2.60	2.60	0.25	1.69			
	1	2.40	1.60	0.25	0.96			
	1	2.30	1.60	0.25	0.92			
	1	2.00	2.00	0.20	0.80			
	1	1.50	1.40	0.25	0.53			
	1	2.40	1.50	0.20	0.72			
	1	1.50	1.20	0.20	0.36			
	1	2.80	1.25	0.25	0.88			
	1	3.10	1.25	0.25	0.97			
	1	1.10	1.00	0.20	0.22			
	1	3.75	0.80	0.25	0.75			
	1	2.60	1.10	0.25	0.72			
	1	2.60	1.40	0.25	0.91			
	1	2.60	1.40	0.25	0.91			
	1	2.10	1.15	0.20	0.49			
	1	1.80	1.00	0.25	0.45			

1	1.00	1.00	0.15	0.15			
1	2.10	1.00	0.20	0.42			
1	2.25	1.60	0.25	0.90			
1	1.80	1.10	0.25	0.50			
1	2.80	1.45	0.25	1.02			
1	2.80	1.60	0.25	1.12			
1	1.80	1.00	0.25	0.45			
1	2.40	3.75	0.20	1.80			
1	1.30	1.20	0.25	0.39			
1	15.10	1.20	0.35	6.35			
1	3.10	1.25	0.25	0.97			
1	2.50	1.60	0.25	1.00			
2	2.10	1.00	0.20	0.84			
2	3.00	1.00	0.25	1.50			
1	20.00	1.70	0.25	8.50			
1	1.30	1.30	0.25	0.43			
1	2.60	1.80	0.25	1.17			
2	1.16	1.00	0.25	0.58			
1	3.90	2.35	0.25	2.30			
2	3.10	1.80	0.25	2.79			
1	15.10	1.25	0.25	4.72			
1	1.25	1.10	0.25	0.35			
1	15.25	1.60	0.25	6.10			
2	1.90	2.10	0.25	2.00			
1	3.10	1.60	0.25	1.24			
1	3.10	3.00	0.25	2.33			
1	5.15	1.80	0.20	1.86			
1	6.15	1.90	0.20	2.34			
1	3.10	1.00	0.25	0.78			
1	2.00	1.00	0.25	0.50			
1	12.15	1.80	0.25	5.47			

1	2.00	1.20	0.25	0.60			
4	1.80	1.40	0.25	2.52			
2	3.20	1.40	0.25	2.24			
1	10.00	1.50	0.25	3.75			
1	3.10	1.40	0.25	1.09			
2	1.80	1.60	0.25	1.44			
2	15.25	1.80	0.30	16.47			
1	1.25	1.10	0.30	0.42			
4	1.80	1.20	0.25	2.16			
2	2.10	1.80	0.25	1.89			
2	2.10	1.40	0.30	1.77			
2	1.00	1.00	0.25	0.50			
1	1.30	1.30	0.25	0.43			
1	1.90	2.35	0.25	1.12			
1	12.00	3.75	0.30	13.50			
1	1.25	1.00	0.30	0.38			
2	2.80	1.90	0.30	3.20			
1	4.15	1.80	0.30	2.25			
4	2.10	1.80	0.30	4.54			
2	2.10	3.75	0.35	5.52			
1	2.15	1.30	0.35	0.98			
1	86.40	1.10	1.87	177.73			
Total				327.71	Cum	2300.58	753923.08.00
1	2.3	1.9	0.10	0.44			
1	1.5	1	0.10	0.15			
1	2.2	1.3	0.10	0.29			
1	2	2	0.10	0.40			
1	2.8	1.4	0.10	0.40			
1	2.3	2.2	0.10	0.51			
1	2.8	1.8	0.10	0.51			
1	1.5	1.5	0.10	0.23			

Filling and spreading
local sand over brick
bats as per drawing and
technical specification
Clause 303.5.9

1	2	1	0.10	0.20			
1	2.9	1.5	0.10	0.44			
1	1	1	0.10	0.10			
1	2.9	1.4	0.10	0.41			
1	1.8	1.8	0.10	0.33			
1	1.1	1.1	0.10	0.13			
1	0.9	0.9	0.10	0.09			
1	2.6	2.6	0.10	0.68			
1	2.4	1.6	0.10	0.39			
1	2.3	1.6	0.10	0.37			
1	2	2	0.10	0.40			
1	1.5	1.4	0.10	0.21			
1	2.4	1.5	0.10	0.36			
1	1.5	1.2	0.10	0.18			
1	2.8	1.25	0.10	0.35			
1	3.1	1.25	0.10	0.39			
1	1.1	1	0.10	0.11			
1	3.75	0.8	0.10	0.30			
1	2.6	1.1	0.10	0.29			
1	2.6	1.4	0.10	0.37			
1	2.6	1.4	0.10	0.37			
1	2.1	1.15	0.10	0.25			
1	1.8	1	0.10	0.18			
1	1	1	0.10	0.10			
1	2.1	1	0.10	0.21			
1	2.25	1.6	0.10	0.36			
1	1.8	1.1	0.10	0.20			
1	2.8	1.45	0.10	0.41			
1	2.8	1.6	0.10	0.45			
1	1.8	1	0.10	0.18			
1	2.4	3.75	0.10	0.90			
1	1.3	1.2	0.10	0.16			
1	15.1	1.2	0.10	1.82			
1	3.1	1.25	0.10	0.39			

1	2.5	1.8	0.10	0.40			
2	2.1	1	0.10	0.42			
2	3	1	0.10	0.60			
1	20	1.7	0.10	3.40			
1	1.3	1.3	0.10	0.17			
1	2.6	1.8	0.10	0.47			
2	1.16	1	0.10	0.24			
1	3.9	2.35	0.10	0.92			
2	3.1	1.8	0.10	1.12			
1	15.1	1.25	0.10	1.89			
1	1.25	1.1	0.10	0.14			
1	15.25	1.6	0.10	2.44			
2	1.9	2.1	0.10	0.80			
1	3.1	1.6	0.10	0.50			
1	3.1	3	0.10	0.93			
1	5.15	1.8	0.10	0.93			
1	6.15	1.9	0.10	1.17			
1	3.1	1	0.10	0.31			
1	2	1	0.10	0.20			
1	12.15	1.8	0.10	2.19			
1	2	1.2	0.10	0.24			
4	1.8	1.4	0.10	1.01			
2	3.2	1.4	0.10	0.90			
1	10	1.5	0.10	1.50			
1	3.1	1.4	0.10	0.44			
2	1.8	1.6	0.10	0.58			
2	15.25	1.8	0.10	5.49			
1	1.25	1.1	0.10	0.14			
4	1.8	1.2	0.10	0.87			
2	2.1	1.8	0.10	0.76			
2	2.1	1.4	0.10	0.59			
2	1	1	0.10	0.20			
1	1.3	1.3	0.10	0.17			
1	1.9	2.35	0.10	0.45			

1	12	3.75	0.10	4.50			
1	1.25	1	0.10	0.13			
2	2.8	1.9	0.10	1.07			
1	4.15	1.8	0.10	0.75			
4	2.1	1.8	0.10	1.52			
2	2.1	3.75	0.10	1.58			
1	2.15	1.3	0.10	0.28			
1	86.4	1.1	0.10	9.51			
Total				66.93	Cum	652.27	43656.00
TOTAL							797580.00

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		#REF!	CUM		#REF!
11.2	600	Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9			
	1	Fine Sand Filling			
		Unit = cum			
	a)	Labour	day	0.01	310.00
		Mate	day	0.30	304.00
		Mazdoor Unskilled			
	b)	Material	day	1.20	141.75
		Sand assuming 20% voids			
	c)	Overheads @6 % on (a+b)			15.86
	d)	Contractor's profit @ 10% on (a+b+c)			28.03
		Rate per cum = a+b+c+d			308.29
		Carriage cost:-			
		Fine Sand	nos.	1.20	222.01
		Cost per cum including Carriage			530.30
		Labour cess 1%			5.30
		GST 12%			63.64
		Seignorage 10%			53.03
		TOTAL COST	cum		652.27


 04/11/21
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1.1 RCD Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum					
Placing Tractor at loading point, loading with frontloader, 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					
Mate	Day	0.03	316.00		9.48
Mazdoor for loading and unloading	Day	0.72	304.00		218.88
b) Machinery					
Tractor 3.60 tonnes capacity	hour	0.10	652.00		65.20
Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	3201.00		265.68
c) Overhead charges @ 0.06 on (a+b)					33.55
Cost for 2.25 cum = a+b+c+d					592.80
Cost for 2.25 cum = (a+b+c+d)/2.25					263.47
Note-	Unloading will be done manually.				
1	Suplying for Brick Bats (With OH)				
A	Basic Rate of Brick Bats	Per Cum	1006.00		1006.00
	Add overhead Charges 6%	0.06			60.36
	Total-				1066.36
	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 20.48) + (1.6 x 1 x 25.59) + 263.47				533.83
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				341.36
	Total (A+B+C)-				1941.55
	Add 1% Labour Cess (A+B+C)				19.42
	Add 12% GST(A+B+C)				232.99
	Add 10% cost of Material for seigniorage Fee	1.00	106.64		106.64
	Total Cost per Cum	Rs:-			2300.58


 04/11/21
 J.E. Ag

Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	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	304.00	912.00
	Add 6% Overhead Charge				54.72
	Rate for 2.832 Cum				966.72
	Rate Per Cum(Rs.)=				341.36
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	652.00	434.88
	Time Taken For empty return trip	hour	0.400	652.00	260.80
	b) Overhead Charges @0.06 on (a)				41.74
	Cost for 36 t km=(a+b+c)/36				737.43
	Say RS.-				20.48
	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	652.00	543.12
	Time Taken For empty return trip 0.50	hour	0.500	652.00	326.00
	b) Overhead Charges @0.06 on (a)				52.15
	Cost for 36 t km=(a+b+c)/840.34				921.26
	Rate per t.km = (a+b+c)/3623.34				25.59
	Say RS.-				25.59