

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D Works Circle, Chapra

DVISION – R.W.D Works Division, Marhaura

Name of Work - Motrable of road from Chapra Masrak Mukh path se
Gaura Mandir se Gaura S2 hote hue Aghra pahar tola

Block -

Marhaura.
~~Amraur~~

Estimated Cost – Rs 359808.00

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 Chapra
Mosoh Muleh Path Se Gaura Handis Se Gaura S 2 Kate hue
Aghor Aghora Potha to 10.

A. For Road

1. Damage Location/ Chainage :- 0.145 km --.
2. Damage Length :- 0.111 km -
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 :

Bridge Guts, Local S.C.

Tractor, Roller, T.B., Tally etc --

Logg & Spacing Roady labour etc.

0.051 km --.

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

(Eo. Akhilesh Kumar)

(Name of Inspector)

EE

RWD (W) - SONEPUR

ABSTRACT OF COST

Name of Work -

Motrabale of road from Chapra Masrak Mukh path se Gaura Mandir se Gaura S2 hote hue Aghra pahar tola

Block - Amnaur

S.No	Particulars	Amount (In Rs.)
1	Cost of Motrabale Work	359808.00
	Total Cost	359808.00

ਪ੍ਰਾਗਮਤਿਓਂ ਦੇ ਪ੍ਰਾਗਮਤਿਓਂ ਮਾਫੀ ਦੀ ਮਾਫੀ ਲਈ ਦਾ ਕੀ ਗੱਲ ਪ੍ਰਮਾਣੀ
ਦਿੱਤਾ ਹੈ ਜੀ ਲਾਗੂ ਕੀਤਾ ਗਿਆ ਹੈ


J.E.

RWD

Amnaur


A.E.

RWD

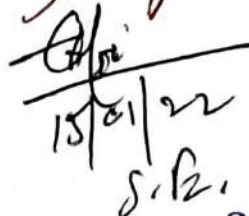
Amnaur


E.E.

RWD

Amnaur

T/S. for. Rs. 3,59,808/-
(Rupees. three lakhs. fifty nine thousand.
Eight hundred Eight) only.


15/01/22
S.E.

Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Detailed Estimate

of Road: Motrable of Road From Chapra Masrak Mukh path se Gaura Mandir se Gaura S2 hote hue Aghra Pkhar tola

O.	Item	No	Length	Width	Avg.H/D	Qty	Unit	Rate	Amount
1	Providing laying and spreading brick bats in road ditches all complete as per approved design, specification and direction of E/I.	1	1	1	0.3	0.30			
		1	2	2	0.3	1.20			
		1	10	2	0.45	9.00			
		1	2	1	0.25	0.50			
		1	5	1	0.3	1.50			
		1	2	2	0.3	1.20			
		1	2	1	0.3	0.60			
		1	5	3.3	0.7	11.55			
		1	2	2	0.30	1.20			
		1	10	3.75	0.60	22.50			
		1	15	1.10	0.30	4.95			
		1	2	2	0.65	2.60			
		1	15.00	3.00	0.70	31.50			
		1	14.00	2.10	0.60	17.64			
		1	2.00	2.00	0.30	1.20			
		1	10.00	2.00	0.60	12.00			
		1	3.00	1.00	0.45	1.35			
		1	6.00	2.40	0.65	9.36			
		1	2.00	3.50	0.65	4.55			
		1	3.00	3.60	0.80	8.64			
		Total				148.86	Cum	2300.58	342464.34.00
	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 303.5.9	1	1	1	0.10	0.10			
		1	2	2	0.10	0.40			
		1	10	2	0.10	2.00			
		1	2	1	0.10	0.20			
		1	5	1	0.10	0.50			
		1	2	2	0.10	0.40			
		1	2	1	0.10	0.20			
		1	5	3.3	0.10	1.65			
		1	2	2	0.10	0.40			

1	10	3.75	0.10	3.75			
1	15	1.1	0.10	1.65			
1	2	2	0.10	0.40			
1	15	3	0.10	4.50			
1	14	2.1	0.10	2.94			
1	2	2	0.10	0.40			
1	10	2	0.10	2.00			
1	3	1	0.10	0.30			
1	6	2.4	0.10	1.44			
1	2	3.5	0.10	0.70			
1	3	3.6	0.10	1.08			
Total				26.59	Cum	652.27	17344.00
TOTAL						359808.00	

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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

1.1 RCD	Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum				
	Placing Tractor at loading point, loading with front loader, dumping, turning for return trip, excluding for haulage and return trip.				
	Unit = cum				
	Taking output = 2.25 cum				
	Time required for				
	i) Positioning of Tractor at loading Point		1 Min		
	ii) Loading by front end loader 1 cum bucket @ capacity 25 cum per hour		5 Min		
	iii) Maneuvering, reverse, dumping and turning for return		0 Min		
	iv) Waiting time, unforeseen Contingencies etc.		0 Min		
	Total		6 Min		
	a) Labour				
	Mate	Day	0.03	318.00	9.48
	Mazdoor for loading and unloading	Day	0.72	304.00	218.88
	b) Machinery				
	Tractor 3.60 tonnes capacity	hour	0.10	852.00	85.20
	Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	3201.00	265.88
	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	Supplying 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

Analysis of Rates (FORMAT F8)

			#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				
		Mate	day	0.01	310.00	3.10
		Mazdoor Unskilled	day	0.30	304.00	91.20
	b)	Material				
		Sand assuming 20% voids	day	1.20	141.75	170.10
	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	185.01	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