

RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

CIRCLE – R.W.D Works Circle, Chapra

DVISION – R.W.D Works Division, Marhaura

A.D.L - ~~0.095~~ 0.095 km.

Name of Work - Motrable of road from L065 Welde Tarayai PWD to Jane Tola(VR44)

Block - Amnaur

Estimated Cost – Rs 969472.00

2020-21

Inspection Report For Flood Damage Work

Date:

1. Name of PIU - E. E. R. K. D (W) Mahauri.
2. Name of Block/Road - Amroha - Materials of road from L. 065 Wadda Taria
PWD to Jang Tola (VR-44)

A. For Road

1. Damage Location/ Chainage :- 0.150 km.
2. Damage Length :- 0.286 km.
3. Nature of Damage :- Ditches due to flood.
4. Details of Restoration :-

- I. Materials being used in restoration : Bricks, local sand.
- II. Equipment/Tools being used in restoration works : Tractor, Roller, J.C.B., Pick up.
- III. Procedure taken up in Restoration works : Supplying, laying filling.
- IV. Restored Length : 0.095 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, Mahauri

Signature

(Name of Inspector)

RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Motorable Road from L065 Bhadi Tadiyoc Ratta PWD to Jone
To (cc (VR 44)

पथ की लम्बाई:- 0.627 km

पथ के क्षतिग्रस्त भाग की लम्बाई:- 0.095 km

प्रखंड:- अरमगौर जिला :- सारण

प्रमंडल:- ग्रामीण कार्य विभाग कार्य प्रमंडल, मटौरा

अंचल:- ग्रामीण कार्य विभाग कार्य अंचल, छपरा

प्राक्कलित राशि:- 969472/-

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टि से क्षतिग्रस्त पथों के मोटरबुल कार्य हेतु कुल रुपये 969472/- का बजट मात्र के लिए तैयार किया गया है।
विदित है की गत जून

महीने से सितम्बर अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथों पर आवागमन बुरी तरह प्रभावित हो गया। ऐसी परिस्थिति में पथों पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियों से प्राप्त आदेश एवं इस संबंध में विभाग से निर्गत दिशा निर्देश के अलोक में तत्काल प्रभाव से प्रभावित पथों में कटाव/क्षतिग्रस्त भाग में आवश्यकतानुसार Brick Bats भरकर चलने लायक बनाया गया है।

इस प्रकार कटाव/क्षतिग्रस्त भाग में आवश्यकतानुसार Brick Bats इत्यादि मटों का प्रावधान करते हुए प्राक्कलन कुल रुपये 969472/- का बजट तैयार किया गया है जो कार्य हित में आवश्यक एवं जनपयोगी है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है।

कच्चीय अभियंता

सहायक अभियंता

कार्यपालक अभियंता

ABSTRACT OF COST

Name of Work –

Motrable of road from L065 Welde Tarayai PWD to Jane Tola(VR44)

Block –Amnaur

S.No	Particulars	Amount (In Rs.)
1	Cost of Motrable Work	969472.00
	Total Cost	969472.00

[Signature]
J.E 30/10/21

RWD

Amnaur

[Signature]
A.E 30/10/21

RWD

Amnaur

[Signature]
E.E

RWD

Amnaur

T/1 for Rs. 9,69,474—
(Repeat Nine Nine Sixty Nine Thousand
four hundred seventy two) only.

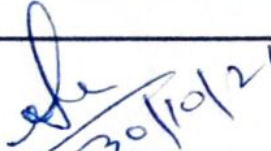
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S.E.

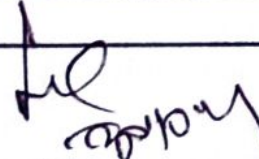
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Detailed Estimate

Name Of Road: Motrable of Road From L065 Welde Tarayai PWD to Jane Tola(VR44)

Sl.No.	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	86	1.2	1.2	123.84			
		1	98	1	1.1	107.80			
		2	71.00	1.10	1.15	179.63			
		Total				411.27	Cum	2300.58	946160.00
2	Filling and spreading local sand over brick bats as per drawing and technical specification Clause 303.5.9	1	86	1.2	0.10	10.32			
		1	98	1	0.10	9.80			
		2	71	1.1	0.10	15.62			
		Total				35.74	Cum	652.27	23312.00
TOTAL								969472.00	


J.E.
RWD
Amnaur


A.E.
RWD
Amnaur


E.E.
RWD
Amnaur

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 / Stoneaggregate / 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	#####		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
	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)					
	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 for Carriage by Road & Rail

Name of Road:--
District:--
Saran
Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Amnaur Harnarayan Bhabu Pratap Sah Ke Ghar To Amnaur
Block :- Amnaur

District:-		Saran		Block :- Amnauur													
SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km													
				Pukka / Surface		Katcha			Loading & Unloading Cost	Carriage Cost by Rail Head	Total`	Min Total`					
3	Local Sand	Cum	Local	$\frac{8.00}{4.99}$	$\times 10.10$	$\times 2.00$	Km	$=$					$\text{Rs } 32.38$	$\frac{8.00}{4.99}$	$\times 24.30$	$\times 1.00$	Km

JE
RWD

AE
RWD

AE
RWD

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 Carrige				530.30
		Labour cess 1%				5.30
		GST 12%				63.64
		Seignorage 10%				53.03
		TOTAL COST	cum			652.27