RURAL WORKS DEPARTMENT

GOVERNMENT OF BIHAR

CIRCLE – R.W.D Works Circle, Chapra

DVISION – R.W.D Works Division, Marhaura

A.D.L - ~~0.0952~~ 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.W.D (W) Marhaura.

2. Name of Block/Road – Amnour – Motorable of road from L 065 wadah Tariya PWD to Jane 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 : Brick Bats, local sand.
   II. Equipment/Tools being used in restoration works : Tractor, Roller, J.C.B, Trolleys.
   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 :

'S'

4/11/21 4/11/21

Signature of AE/JE/EE

Executive Engineer
Rural Works Department
Works Division, Marhaura

08/12/2021

Signature

(Name of Inspector)

RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Motorable Road from L065 Bhedi Teriya Rath PWD to Jane Tola (VR 44)

पथ की लम्बाई:- 0.627 km

पथ के क्षतिग्रस्त भाग की लम्बाई:-0.095 km.

प्रखंड:- अमनौर जिला :-सारण

प्रमंडल:-ग्रामीण कार्य विभाग कार्य प्रमंडल,मढ़ौरा

अंचल:-ग्रामीण कार्य विभाग कार्य अंचल,छपरा

प्राक्कलित राशि:-9,69,472/=

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटरेबुल कार्य हेतु कुल रुपये 969472/-र० ~~लाख~~ 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 पथो पर आवागमन बुरी तरह प्रभावित हो गया ।ऐसी परिस्थिति मे पथो पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियोसे प्राप्त आदेश एवं इस संबंधमे विभाग से निर्गत दिशा निर्देश के अलोक मे तत्काल प्रभाव से प्रभावित पथो मे कटाव/क्षतिग्रस्त भाग मे अवश्यकतानुसार Brick Bats भरकर चलने लायक बनाया गया है ।

इस प्रकार कटाव/क्षतिग्रस्त भाग मे अवश्यकतानुसार Brick Bats इत्यादि मदो का प्रावधान करते हुए प्राक्कलन कुल रुपये 969472/-र० ~~लाख~~ का तैयार किया गया हैजो कार्य हित मे आवश्यक एवं जनपयोगी है ।

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

30/10/21   30/10/21

कनीय 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

30/10/21

J.E
RWD
Amnaur

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A.E
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Amnaur

E.E
RWD
Amnaur

T/S for Rs. 9,69,474/— (Rupees Nine Nine Sixty Nine thousand four hundred Seventy two) only.

15/01/22
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	Qnty	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

30/10/21

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Amnaur

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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 directionof 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)				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

FORM F8

Analysis for Carriage by Road & Rail

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

District:- Saran **Block :-** Amnaur

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total`	Min Total`
				Pucka / Surface	Katcha				
3	Local Sand	Cum	**Local**	$\frac{8.00}{4.99}$ x 10.10 x 2.00 Km = Rs 32.38	$\frac{8.00}{4.99}$ x 24.30 x 1.00 Km = Rs 38.96	113.67			Rs. 185.01

30/7/07

JE
RWD

AE
RWD

EE
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 SpecificationClause 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**