



GOVERNMENT OF BIHAR

NAME OF WORK:- Restoration work of Road T01 to Sonapur

(FDR PART-A)

Restoration Length :- 190 M

Block:- Korha

DETAILED PROJECT REPORT

UNDER FDR (2245)

ESTIMATED COST

Rs. 7,53,441.00

**-: PREPARED BY :-
EXECUTIVE ENGINEER
R.W.D. (W) DIVISION**

तकनीकी प्रतिवेदन

योजना का नाम :- अतिवृष्टि एवं बाढ़ के कारण क्षतिग्रस्त "टी01 से सोनापुर" पथ का आकस्मिक मरम्मत कार्य (पार्ट-A)

क्षतिग्रस्त पथ की लम्बाई :- 200 मी0

प्राक्कलित राशि :- रू0 7,53,441.00

योजना शीर्ष :- FDR (2245)

प्राधिकार :- सचिव, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक-2789 दिनांक 21.08.2020

प्रतिवेदन

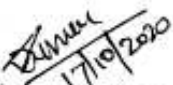
प्रस्तुत प्राक्कलन अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त पथ के पथांश का प्राक्कलन रू0 7,53,441.00 मात्र के लिए ग्रामीण कार्य विभाग, कार्य प्रमंडल, कटिहार के द्वारा शीर्ष FDR के अन्तर्गत बनाया गया है।

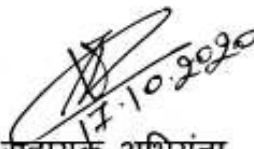
पथ के आकस्मिक मरम्मत हेतु पथांशों में Brick Bats एवं खाली सिमेंट बैग में लोकल बालू भरकर बचाव का कार्य करते हुए यातायात पुर्नस्थापित किया गया है।

पथ मरम्मत कार्य का प्राक्कलन वर्तमान अनुसूचित दर एवं सामग्री की दुलाई निकटतम खदान से प्रावधान कर बनाया गया है। दर गणना में संवेदक लाभांश सम्मिलित नहीं हैं।

उक्त कार्य को विभागीय रूप से कराये जाने हेतु आदेश प्राप्त है (प्रति संलग्न) एवं प्रशासनिक स्वीकृति हेतु तकनीकी अनुमोदन अपेक्षित है।

प्रमाणित किया जाता है कि प्राक्कलन कार्य स्थल के अनुरूप है।


कनीय अभियंता,
कोढ़ा


सहायक अभियंता,
ग्रा0का0वि0, कार्य अवर प्रमंडल,
कोढ़ा।


कार्यपालक अभियंता
ग्रा0का0वि0, कार्य प्रमंडल,
कटिहार।

NAME OF WORK:- Restoration work of Road T01 to Sonapur

Total Length :- 1.000 Km

Restoration Length :- 190 M

ABSTRACT OF COST			
1	Cost of Emergent repair of road	Rs.	6,33,335.00
2	Add 1 % Labour Cess	Rs.	6,333.00
3	Add 12 % GST	Rs.	76,000.00
4	Add for Seigniorage Fee	Rs.	37,773.00
Total :-		Rs.	7,53,441.00
Say		Rs.	7,53,441.00

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17/10/2020

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A.E.
17.10.2020
RWD, Sub-Division, Korha

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E.A.
RWD (W) Div. Katihar

Technically approved for ₹ 7,53,441.00 (Rupees Seven Lac Fifty three thousand four hundred forty one) only

checked by me
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20/3/21
A.E.

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SUPERINTENDING ENGINEER
R.W.D. WORKS CIRCLE, PURNEA

NAME OF WORK:- Restoration work of Road T01 to Sonapur

Total Length :- 1.000 Km

Restoration Length :- 190 M

Sl. No.	ITEM OF WORKS	QTY	UNIT	RATE	AMOUNT
1	Labour for filling empty cement bags with local sand, stitching the bags and placing including supply ofutti etc. all complete as per approved design, specificalton and direction E/L.				
	Total Sand Bag =	1250	1250 Nos	32.14	40,175.00
2	<u>Providing and Laying of Brick Bats</u>				
	Placing tractor at loading point loading with front end loader dumpong ,turning for return trip exluding time for haulage and return tirp				
	1 x 50.0 x $(\frac{1.00 + 2.00}{2}) \times (\frac{0.90 + 1.75}{2}) =$				99.38
	1 x 40.0 x $(\frac{1.00 + 2.00}{2}) \times (\frac{0.90 + 1.75}{2}) =$				79.50
	1 x 35.0 x $(\frac{1.00 + 1.75}{2}) \times (\frac{0.75 + 2.00}{2}) =$				66.17
	1 x 25.0 x $(\frac{1.00 + 1.75}{2}) \times (\frac{0.75 + 2.00}{2}) =$				47.27
	1 x 7.0 x 1.25 x $(\frac{1.00 + 0.75}{2}) =$				7.66
	1 x 6.0 x 1.10 x $(\frac{1.50 + 0.70}{2}) =$				7.26
	1 x 15.0 x 1.00 x $(\frac{1.50 + 0.90}{2}) =$				18.00
	1 x 12.0 x 1.20 x $(\frac{1.60 + 1.20}{2}) =$				20.16
	Total =	345.39	345.39 cum	1,717.37	5,93,160.00
	Total cost			Rs.	6,33,335.00

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Executive Engineer
RWD. (W) Div. Katihar.

Seigniorage Fee

Description	Unit	Quantity	Rate	Amount (In Rs.)	@	Add Seigniorage Fee 10%
EARTHWORK						
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						
Material						
Compensation For Earth Taken From Private Land	Cum	-	34.81	-	10%	-
Providing and Laying of Brick Bats						
Placing tractor at loading point loading with front end loader dumpoing, turning for return trip excludng time for haulage and return trip						
Material						
Brick Bats	Cum	345.39	1,063.00	3,67,148.24	10%	36,715.00
3 Labour for cutting and fixing of 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I.						
Material						
62 mm to 75 mm dia bamboo	Rm	-	20.21	-	10%	-
4 Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G. I. wire or nails complete job as per specification and direction of E/I.						
Material						
62 mm to 75 mm dia bamboo	Sqm	-	152.31	-	10%	-
20 swg G.I. wire or 75 mm to 150 mm long nails	Kg	-	50.00	-	10%	-
5 Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I						
Material						
62 mm to 75 mm dia bamboo	Rm	-	20.21	-	10%	-
20 swg G.I. wire or 75 mm to 100 mm long nails	Kg	-	50.00	-	10%	-

Providing including labour for filling empty cement bag with local sand, stitching the bag and placing including supply of sutali etc. all complete as per approved design, specification and direction of E/I						
Material						
Sand Bags (Cost of Sand and empty cement bag)	Nos	1,250.00	8.46	10,575.00	10%	1,058.00
Sutali	Kg	-	34.20	-	10%	-
Total Seigniorage Fee						37,773.00

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BASIC RATES (A) Labour			
Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287
L-02	Bitumen Sprayer(semi skilled)	day	302
L-03	Blacksmith, special	day	345
L-04	Blaster, 2nd class	day	477
L-05	Carpenter 1st Class	day	345
L-06	Chips spreader, semi-skilled	day	299
L-06	Chiseller (Skilled)	day	388
L-07	Dresser (Skilled)	day	367
L-08	Driller, 2nd class	day	345
L-09	Electrician, skilled	day	367
L-10	Fitter, skilled	day	395
L-11	Mason (1st class)	day	388
L-12	Mason (2nd Class)	day	345
L-13	Mate, Semi skilled	day	305
L-14	Mazdoor (Unskilled)	day	287
L-15	Mazdoor (Semi skilled)	day	299
L-16	Mazdoor (Skilled)	day	364
L-17	Painter (1st class)	day	364
L-18	Plumber, Special	day	364
L-19	Surveyor	day	349
L-20	White Washer	day	364
L-21	Head blacksmith	day	388
L-22	Welder 1 St Class	day	434

(Basic Rates Taken From SOR, Thirteenth Edition, Road Construction Department, Govt. of Bihar effective from 06/05/2020.

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अधीक्षक आभयंता
ग्रामीण कार्य विभाग
कार्य अंचल, पूर्णिया

**BASIC RATES
(B) Material**

SL No.	Description	Unit	Basic Rate as per SOR	Royalty	Final Rate Including Royalty
M-028	Bamboo (1st Class) 85 mm - 100 mm dia, 6 to 8 m long	No.	151.00		151.00
M-029	Bamboo (1st Class) 85 mm - 100 mm dia, 6 to 8 m long	No.	151.00		151.00
M-030	Bamboo (1st Class) 85 mm - 100 mm dia, 6 to 8 m long	No.	151.00		151.00
M-031	Bamboo (1st Class) 85 mm - 100 mm dia, 6 to 8 m long	No.	151.00		151.00
M-032	Bamboo (2nd Class) 75mm dia, 6 to 8 m long	No.	141.50		141.50
M-033	Bamboo (2nd Class) 75mm dia, 6 to 8 m long	No.	141.50		141.50
M-049	Brick Bats	cum	1063.00		1063.00
M-052	Royalty & Compensation for earth taken from private land	cum	1.81	33.00	34.81
M-159	Empty Cement Bag	Nos.	3.00		3.00
M-159	Sand bags (Cost of sand and Empty cement bag)	Nos.	5.87	2.59	8.46
M-159	Sutli (Brown)	kg	34.20		34.20
M-159	Nails (150 mm Long)	kg	50.00		50.00
M-086	Granular material (Natural occurring, soil gravel mixture / quarry waste, kanikar, laterite, dhandia)	cum	82.26	83.00	165.26
M-112	RCC Pipe NP3 (1000 mm dia)	m	2675.47		2675.47
M-114	RCC Pipe NP3 (600 mm dia)	m	768.53		768.53
M-125	Sand (Fine)	cum	66.85	75.00	141.85
M-145	Water	kl	40.00		40.00

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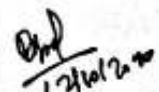
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अधीक्षण अभियंता
ग्रामीण कार्य विभाग
कार्य अंशदा, पंजीय

**BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY**

Sr. No.	Snr Code	Description of		Output of Machine		Usage Rates in Rs.	
		Machine	Activity	Unit	Output	Unit	Rate
PM-009	P&M-012	Crane upto 80 T	Lifting of materials			per hour	1,289.00
PM-010	P&M-015	Dozer D 80 - A12 Dozer D 50 - A15	Dosing cutting	cum/h	260.00	per hour	5,629.90
PM-011				cum/h	120.00		3,337.90
PM-014	P&M-017	Front end-loader 1 cum bucket capacity @ 45 cum/hour	Loading Aggregates	cum/h	45.00	per hour	1,403.00
PM-017	P&M-026	Hydraulic Excavator of 1cum bucket	Excavation	cum/h	100.00	per hour	1,969.20
PM-031	P&M-044	Three wheel 80-100 kN Static Roller	Compaction/ Rolling			per hour	803.00
PM-032			Earth:- Embankment or sub-grade	cum/h	80/70		803.00
PM-033			Sub-base G-I	cum/h	10.00		803.00
PM-034			Sub-base G-II/G-III	cum/h	8.00		803.00
PM-035			WMM	cum/h	16.00		803.00
PM-036			BLUSG	cum/h	10.00		803.00
PM-037			BM 50/75 mm	cum/h	12.00		803.00
PM-038			Premix 20 mm	sqm/h	250.00		803.00
PM-039			Seal Coat	sqm/h	500.00		803.00
PM-040			Surface Dressing 1st Coat	sqm/h	400.00		803.00
PM-041			Surface Dressing 2nd Coat	sqm/h	500.00		803.00
PM-042	P&M-048	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,043.00
PM-043	P&M-053	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	549.10
PM-044	P&M-055	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	591.40
PM-045	P&M-053	Tractor with trolley with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	549.10
PM-046	P&M-054	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-047	P&M-057	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.30
PM-048	P&M-059	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	2,069.00
PM-049			Compaction of BM	cum/h	60.00		2,069.00
PM-050	P&M-060	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	184.00


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 ग्रामीण कार्य विभाग
 कार्य अंचल, पूर्णिया

Summary of Carriage Cost			
Sl. No.	Item	Unit	Amount (Rs.)
1	Earth Work	Cum	216.93
2	Brick Bats	Cum	434.30
3	G.S.B.	Cum	2106.36
4	Local Sand	Cum	274.35
5	HUME PIPE (1000 mm DIA)	Mtr.	831.34
6	HUME PIPE (600 mm DIA)	Mtr.	336.65

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अधीक्षण अभियंता
प्रादेशिक कार्य विभाग
कार्य अंचल, पूरबी

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SI No	Item	Unit	Source	Pucca / Surface	Katcha	Unload	by Road
1	Earth Work Via Road	Cum	Local	$\frac{3.60}{2.04} \times 16.27 \times 0 \text{ Km}$ - Rs 0.00	$3.60 \times 25.42 \times 1 \text{ Km}$ - Rs 44.86	172.07	216.93
2	Brick Via Road	Cum	Local	$\frac{3.60}{1.91} \times 16.27 \times 7 \text{ Km}$ - Rs 214.38	$3.60 \times 25.42 \times 1 \text{ Km}$ - Rs 47.85	172.07	434.30
3	Local Sand Via Road	Cum	Local	$\frac{3.60}{2.04} \times 16.27 \times 2 \text{ Km}$ - Rs 57.42	$3.60 \times 25.42 \times 1 \text{ Km}$ - Rs 44.86	172.07	274.35
4	Hume Pipe (1000 mm) Via Road	M	purnea	$\frac{8.00}{10.00} \times 16.27 \times 53 \text{ Km}$ - Rs 689.85	$8.00 \times 25.42 \times 0 \text{ Km}$ - Rs 0.00	141.49	831.34
5	Hume Pipe (600 mm) Via Road	M	purnea	$\frac{8.00}{25.00} \times 16.27 \times 53 \text{ Km}$ - Rs 275.94	$8.00 \times 25.42 \times 0 \text{ Km}$ - Rs 0.00	60.71	336.65

Cost of Haulage Excluding Loading & Unloading as per SOR * Subjected to Verification of Lead

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अधीक्षक अभियंता
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कार्य अंचल, पूर्णियाँ

SDB Sl No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.4		Loading and unloading of stone Boulder/stone aggregates sand/ kankar/ moorum				
		Placing tractor at loading point loading with front end loader dumpong, turning for return trip exluding time for haulage and return trip				
		Unit = cum				
		Taking output = 2.25 cum				
		Time required for				
	i)	positioning of tractor at loading point	min	1 min		
	ii)	Loading by front end loader 1 cum bucket capacity @ 25	min	5 min		
		Total		6 min		
	a)	Labour				
		Mate	day	0.030	305.00	9.15
		Mazdoor (Unskilled)	day	0.720	287.00	206.64
	b)	Machinery				
		Tractor 3.60 Tonnes Capacity	hour	0.100	549.10	54.91
		Front end loader 1 cum bucket capacity @ 25 Cum/hour	hour	0.083	1,403.00	116.45
		Cost for 2.25 cum = a+b+c				387.15
		Rate per cum = (a+b+c+d)/2.25	cum			172.07
		Total per cum	cum			172.07
1.1		Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Manual Means				
	(i)	Loading of lime, Aggregates, Stone boulder, Brick aggregate, Kankar, Building Rubbish, Crushed Slag Stone for masonry work by manual means including a lead upto 30m				
		Unit = cum				
		Taking output = 5.5 cum				
		Time required for				
	(i)	Position of tipper at loading point		1Min		
	(ii)	loading by front end loader 1 cum bucket capacity @25		13Min		
	(iii)	maneuvering, reversing, dumping and turning for return		2Min		
	(iv)	Waiting time unforeseen contingencies etc.		4Min		
		Total		20Min		
	b)	Machinery				
		Tipper 5.5 Tonnes Capacity	hour	0.330	1,043.00	344.19
		Front end loader 1 cum bucket capacity @ 25 Cum/hour	hour	0.330	1,403.00	462.99
	c)	Over Heads @6% (a+b)				0.00
	d)	C Profit @10% (a+b+c)				0.00
		Cost for 5.5 cum = a+b+c				807.18
		Rate per cum = (a+b+c+d)/5.5	cum			146.76
		Total per cum	cum			146.76
1.10		Haulage excluding Loading & Unloading				
		Haulage of materials by truck excluding cost of Loading, Unloading and stacking				
		Unit = 1 km				
		Taking output 10t load and lead 10km = 100t km				
		Case- I : Surfaced Road				
		Speed with load : 25km per hour				
		Speed while returning empty : 35km per hour				
	a)	Machinery				
		Tipper	hour	0.400	1043.00	417.20
		Haulage with load	hour	0.290	1043.00	302.47
		Empty return trip				0.00
	b)	Over Heads @6% (a)				0.00
	c)	C Profit @10% (a+b)				0.00
		Cost for 100t km = a+b+c				719.67
		Cost for 1 t km = a+b+c/100				7.19
		Total per t per km				7.19

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SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
		Case - III Kutcha Track and Track in River Bed / Nallah Bed and Choe Bed				
		Speed with load : 10km per hour				
		Speed while returning empty : 15km per hour				
	a)	Machinery				
		Tipper				
		Haulage with load	hour	1.000	1043.00	1043.00
		Empty return trip	hour	0.670	1043.00	698.81
	b)	Over Heads @6% (a)				0.00
	c)	C Profit @10% (a+b)				0.00
		Cost for 100t km = a+b+c				1741.81
		Cost for 1 t km = a+b+c/100				17.41
		Total per t per km				17.41
1.9		Loading and Unloading of Hume Pipes				
	(i)	Loading of RCC Hume pipes by mechanical means including a lead upto 30 m				
	A.	1000 / 1200 mm dia Hume pipe				
		Unit = per pipe				
		Taking output = 9 pipes				
	a)	Labour				
		Mate	day	0.020	305.00	6.10
		Mazdoor (Unskilled)	day	0.500	287.00	143.50
	b)	Machinery				
		Tractor 3.60 Tonnes Capacity	hour	0.330	549.10	181.20
		Crane	hour	0.330	1289.00	425.37
		Cost for 9 pipes = a+b+c+d				756.17
		Rate per pipe = (a+b+c+d)/9	per p			84.02
		Total per p				84.02
	C.	600/450 mm dia Hume pipe				
		Unit = per pipe				
		Taking output = 21 pipes				
	a)	Labour				
		Mate	day	0.020	305.00	6.10
		Mazdoor (Unskilled)	day	0.500	287.00	143.50
	b)	Machinery				
		Tractor 3.60 Tonnes Capacity	hour	0.330	549.10	181.20
		Crane	hour	0.330	1289.00	425.37
		Cost for 21 pipes = a+b+c+d				756.17
		Rate per pipe = (a+b+c+d)/21	per p			36.01
		Total per p				36.01
	(ii)	Unloading of RCC Hume pipe by Mechanical means including a lead upto 30 m				
	A.	1000/1200 mm dia RCC Hume pipes				
		Unit = per pipe				
		Taking output = 9 pipes				
	a)	Labour				
		Mate	day	0.020	305.00	6.10
		Mazdoor (Unskilled)	day	0.500	287.00	143.50
	b)	Machinery				
		Tractor 3.60 Tonnes Capacity	hour	0.200	549.10	109.82
		Crane	hour	0.200	1289.00	257.80
		Cost for 9 pipes = a+b+c+d				517.22
		Rate per pipe = (a+b+c+d)/9	per p			57.47
		Total per p				57.47
	C.	600/450 mm dia Hume pipe				
		Unit = per pipe				
		Taking output = 21 pipes				
	a)	Labour				
		Mate	day	0.025	305.00	7.63
		Mazdoor (Unskilled)	day	0.500	287.00	143.50

At 12/10/20

12.10.20

At 12/10/20

At 12/10/20

SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
	b)	Machinery				
		Tractor 3.60 Tonnes Capacity	hour	0.200	549.10	109.82
		Crane	hour	0.200	1289.00	257.80
		Cost for 21 pipes = a+b+c+d				518.75
		Rate per pipe = (a+b)/21	per p			24.70
		Total per p				24.70
1.10		Haulage excluding Loading & Unloading				
		Haulage of materials by truck excluding cost of Loading, Unloading and stacking				
		Unit = 7km				
		Taking output 3.6t load and lead 10km = 36t/km				
		Case - I: Surfaced Road				
		Speed with load : 15km per hour				
		Speed while returning empty : 25km per hour				
	a)	Machinery				
		Tractor 3.6 tonnes Capacity				
		Haulage with load	hour	0.667	549.10	366.25
		Empty return trip	hour	0.400	549.10	219.64
		Cost for 36t/km = a+b+c				585.89
		Cost for 1 t_km = a+b+c/36				16.27
		Total per t per km				16.27
		Case - II Kutcha Track and Track in River Bed / Nallah Bed and Choe Bed				
		Speed with load : 10km per hour				
		Speed while returning empty : 15km per hour				
	a)	Machinery				
		Tractor 3.6 tonnes Capacity				
		Haulage with load	hour	1.000	549.10	549.10
		Empty return trip	hour	0.667	549.10	366.25
		Cost for 36t/km = a+b+c				915.35
		Cost for 1 t_km = a+b+c/36				25.42
		Total per t per km				25.42
4.5		Providing and Laying of Brick Bats				
		Placing tractor at loading point loading with front end loader dumpoing ,turning for return trip exluding time for haulage and return tirp				
		Unit = cum				
		Taking output = 2.832 cum				
	a)	Labour				
		Mazdoor (Unskilled)	day	2.170	287.00	622.79
	b)	Materilas				
		Brick Bats	cum	2.830	1,063.00	3008.29
	c)	Carriage				
		Tractor 3.6 tonnes Capacity	cum	2.830	434.30	1229.07
		Rate per cum = (a+b+c)/2.83	cum			4860.15
		Total per cum	cum			1717.37
3.3	301.5	Construction of Embankment with approved material obtained from borro pits with a lift upto 1.5 m transporting to site, spreding grading to required slope and compacting to meet requirement of Table 300.1 and 300.2 with a lead of 1000 m as per Technical				
		Unit = cum				
		Rate item no. 3.3 Clause 301.5				
		Royalty Compensation for earth taken from private land				31.84
		Carriage of Earth by Tractor Lead 1 K.M.				34.81
		Total Cost of 1 cum=				216.93
						283.58
3.3	301.5	Construction of Embankment with material obtained from roadway cutting				

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SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
		Construction of Embankment with approved material deposit at site from roadway cutting and excavation from drain and foundation of other structure graded and compacted to meet requirement of Table 300.1 and 300.2 as per Technical Specification Clause 301.5.				
		Unit = cum				
		Taking output = 100 cum				
	a)	Labour				
		Mate	day	0.020	305.00	6.10
		Mazdoor (Unskilled)	day	0.500	287.00	143.50
	b)	Machinery				
		Dozer D -50 for spreading @200 cum per hour	hour	0.500	0.00	0.00
		Motor Grader for grading @200 Cum per hour	hour	2.000	591.40	1182.80
		Water tanker 6 kl capacity	hour	2.000	184.00	368.00
		Three Wheel 80-100 kN Static Roller	hour	1.250	803.00	1003.75
	c)	Material				
		Water	kl	12.000	40.00	480.00
		Cost for 100 cum = a+b+c+d+e				0.00
		Rate per cum = (a+b+c+d)/100	cum			31.84
		Total per cum	cum			31.84
4.5		Providing and Laying of Brick Bats				
		Placing tractor at loading point loading with front end loader dumpsong, turning for return trip excluding time for haulage and return trip				
		Unit = cum				
		Taking output = 2.832 cum				
	a)	Labour	day	2.170	287.00	622.79
		Mazdoor (Unskilled)				
	b)	Material	cum	2.830	1,063.00	3008.29
		Brick Bats				
	c)	Carriage	cum	2.830	434.30	1229.07
		Tractor 3.6 tonnes Capacity				
						4860.15
			cum			1717.37
		Rate per cum = (a+b+c)/2.83	cum			1717.37
		Total per cum				
9.3	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.				
	A.	1000 MM DIA (Double Row)	m	15.000	2675.47	40132.05
	a)	Material				
		RCC NP3 pipe including collar	day	0.220	305.00	67.10
	b)	Labour	day	0.600	388.00	232.80
		Mate	day	4.800	287.00	1377.60
		Mason (1st class)				41809.55
		Mazdoor (Unskilled)				5574.61
		Cost for 7.5m = (a+b+c)	m			
		A) Basic Cost per m = (a+b+c+d)/7.5	m	15.000	831.34	12470.10
		CARRIAGE COST				12470.10
		NP3 Pipe	m			1662.68
		Carriage cost of 7.5 m	m			7237.29
		B) Carriage cost per m	m			7237.29
		Rate per m = (A+B)				
		Total per m				
	B.	1000 MM DIA (Single Row)	m	7.500	2675.47	20066.03
	a)	Material				
		RCC NP3 pipe including collar				
	b)	Labour				

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आयोग कार्य
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SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
		Mate	day	0.090	287.00	25.83
		Mason (1st class)	day	0.250	345.00	86.25
		Mazdoor (Unskilled)	day	2.000	299.00	598.00
		Cost for 7.5m = (a+b+c)				2076.11
		A) Basic Cost per m = (a+b)/7.5	m			2770.15
		CARRIAGE COST				
		NP3 Pipe	m	15.000	831.34	12470.10
		Carriage cost of 7.5 m				12470.10
		B) Carriage cost per m	m			1662.68
		Rate per m = (A+B)	m			4432.83
		Total per m	m			4432.83
	C.	600 MM DIA (Double Row)				
	a)	Material				
		RCC NP3 pipe including collar	m	15.000	768.53	11527.95
	b)	Labour				
		Mate	day	0.040	287.00	11.48
		Mason (1st class)	day	0.120	345.00	41.40
		Mazdoor (Unskilled)	day	0.960	299.00	287.04
		Cost of 7.5m = (a+b+c+d)				11867.87
		A) Basic Cost per m = (a+b)/7.5	m			1582.38
		CARRIAGE COST				
		NP3 Pipe	m	15.000	336.65	5049.75
		Carriage cost of 7.5 m				5049.75
		B) Carriage cost per m	m			673.30
		Rate per m = (A+B)	m			2255.68
		Total per m	m			2255.68
	C.	600 MM DIA (Single Row)				
	a)	Material				
		RCC NP3 pipe including collar	m	7.500	768.53	5763.98
	b)	Labour				
		Mate	day	0.040	287.00	11.48
		Mason (1st class)	day	0.120	345.00	41.40
		Mazdoor (Unskilled)	day	0.960	299.00	287.04
		Cost of 7.5m = (a+b+c+d)				6103.90
		A) Basic Cost per m = (a+b)/7.5	m			813.85
		CARRIAGE COST				
		NP3 Pipe	m	7.500	336.65	2524.88
		Carriage cost of 7.5 m				2524.88
		B) Carriage cost per m	m			336.65
		Rate per m = (A+B)	m			1150.50
		Total per m	m			1150.50
5.7.40.3		Labour for filling empty cement bags with local sand, stitching the bags and pitching in Nylon crate of size (1m x 1m x 1m) with a lead of 150 m including supply of suti etc. and placing the filed crates in water portion within a lead 30 m all complete as per approved design, specification and direction of E/I.				
		Unit = Each N.C.				
	(i)	(i) Labour Cost for filling bags in one Nylon crate in dry portion	No.	1.000	299.00	299.00
		(II) Placing of filed N/C with 30 m lead in water portion				
		Labour	No.	0.370	305.00	112.85
		Mate	No.	1.000	364.00	364.00
		Labour (Skilled)	No.	1.000	287.00	287.00
		Labour (Unskilled)				651.00
						651.00
						651.00
		Hence, Total Labour for 100 Cft.				
		Taking one E.C. Bags to contain 1.20 Cft. Of sand				
	(ii)	Hence, labour rate for placing one filed N.C.		195.300		195.30
		Hence rate for mu:pm crate om water portion (I+II)			Say.	494.30

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कार्य अंश. प्रमाणित

SDB SL No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
5.7.40.2		Labour for filling empty cement bags with local sand, stitching the bags and Placing in Nylon crate of size (1m X 1m X 1m) with a lead of 150 m including supply of suttu etc. at site in dry portion all complete as per approved design, specification and direction of E/I.				
		Unit = Each N.C.				
		Taking Out Put = 25 Nos. filled E.C. Bags in Each Nylon Crate				
		Cost of 25 Nos. of filed E.C. bag (Vide item No. 5.7.40.1)	No.	25.000	1837.10	551.13
		Each N.C. =		551.130	Say.	551.13
5.7.9		Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification				
		Unit = Per mt.				
		Taking Out Put = 30.50 m				
	(i)	Materials				
		Cost of 150 mm long nails	kg	0.500	50.00	25.00
	(ii)	Labour				
		Carpenter Gr -II	No.	0.125	345.00	43.13
		Unskilled Labour	No.	0.250	287.00	71.75
						139.88
		Rate for 30.5 m				139.88
						4.59
		Rate for 1 m			Say.	4.59
		Finish Rate				
5.7.7		Labour for cutting 62 mm to 75 mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I.				
		Unit = Per mt.				
		Taking Out Put = 30.50 m				
		Assurning				
		20 no pile sunk 1.525 m deeps				
		Total depth sunk 30.50 m				
	(i)	Labour	No.	0.250	345.00	86.25
		Carpenter Gr -II	No.	2.500	287.00	717.50
		Unskilled Labour for piling				803.75
						803.75
		Rate for 30.5 m				803.75
						26.35
		Rate for 1 m			Say.	26.35
		Finish Rate				
5.7.7(A)		S/F/fixing 62 mm to 75 mm dia bamboo piles in size and making shoes and driving etc. complete job as per specification and direction E/I.				
		Unit = Per mt.				
	(i)	Material	No.	0.150	141.50	21.23
		Bamboo 6 to 8 M long	No.	1.000	26.35	26.35
						47.58
	ii	Labour charge 5.7.7				
		Rate for 1 m				
14.18		Supplying fitting and fixing in position split bamboo woven chanchary with 20 SWG G.I etc. Complete				
		Taking in put - 100 sft (9.29 sqm)				
		Materials	No.	10.000	141.500	1415.00
		Bamboo 10 nos	Kg	0.250	50.000	12.50
		nails 0.25/kg	No.	1.000	287.000	287.00
		labour unskilled 1 nos	No.	1.000	345.000	345.00
		carpenter 1 nos				

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मार्गीन कार्य विभाग
कार्य अंशल पूरिया

SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
						2059.50
						2059.50
		Rate 9.29 Sqm				221.69
		Hence per SqM				
5.7.8 WRD		Labour for fitting and and fixing split bamboo woven chachari in position with 20 swg G.I. wire of 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E/I.				
		(Assuming strip of 3.05x3.05 = 9.30 sqm				
		Unit = per sqm				
		Taking Out = 9.30 sqm				
	a	Labour	No.	1.000	345.00	345.00
		Carpenter Gr -II	No.	1.000	287.00	287.00
		Mazdoor (Unskilled) for piling				
	b	Materials	kg	0.250	50.00	12.50
		75 mm to 100 mm long nails				644.50
						69.30
		Rate Per m = (a+b)/9.30				
10.7.40 WRD		Supply & Labour for filling Cement Bag, swing and laying materilas				
	A	Supply Empty cement Bag with Sand	kg	1.000	8.460	8.46
						8.46
	B	Unskilled Mazdoor for filling sand into bag and swing	No	2.000	287.00	574.00
		Unskilled Mazdoor for filling sand Bad to work site	No	3.000	287.00	861.00
						1435.00
		Rate per 100 Nos.				14.35
		Labour Per Bag				
	C	Supply Local sand Cost of Fine Sand				
		Supply Empty Cement Bag				
		Unit = No.				
		Taking output = 1 No.				14.35
		Labour				8.46
		Cost of cemnt bag with Sand				
		Carriage				
		1.2 Cft = 0.034 m ³	cum	0.034	274.35	9.33
		Total per cum	cum			32.14
		Total cost of (A + B+C) =				32.14
5.7.46 (C)		Supplying fitting and fixing Bamboo Runner including cost of Bamboo all comp				
		Unit = M				
		Assuming 30M				
	(i)	Materials				
		Bamboo 75mm dia, 6 to 8 m long	No.	4.250	141.50	601.38
		Cost of 150 mm long nails	kg	0.500	50.00	25.00
	(ii)	Labour				
		Carpenter	No.	0.125	345.00	43.13
		Unskilled Labour for filling E.C. Bags	No.	0.250	287.00	71.75
						741.26
		Rate Per M				24.71
						24.71
		Say Rs.				24.71

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अधीक्षण
प्राचीन कार्य विभाग
कार्य अंचल, पूर्णिया



17/10/2020
A.E.

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A.E.



17/10/2020
A.E.

ग्रामीण कार्य विभाग, कार्य प्रमंडल, कटिहार।

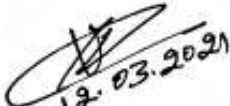
बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों/पुलों की आपातकालीन मरम्मत हेतु जाँच प्रतिवेदन।

(वित्तीय वर्ष-2020-21)

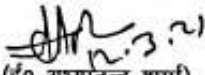
Block -Korha

Sl No.	Name of District	Name of Division	Name of Road	Road Status	Length (In Km)	Estimated Cost For Restoration (In Lakh)	Remarks
1	2	3	4	5	6	7	8
1	Katihar	Katihar	T01 To sonapur	Ongoing	1.000	753441.00	Restoration Work Complete
2	Katihar	Katihar	HL Bridge Approach Road at Khanpur Ghat	Completed	0.500	659943.00	Restoration Work Complete
3	Katihar	Katihar	NH-31 Petrol Pump to Basgarha via Akama primary School	Ongoing	2.400	950692.00	Restoration Work Complete
Total :-						2364076.00	


(ई० दिलीप कुमार)
कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रशाखा, कोढ़ा।


(ई० विजय कुमार)
सहायक अभियंता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल, कोढ़ा।


(ई० चन्द्रहास कुमार)
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, कटिहार।


(ई० अम्यानन्द शर्मा)
कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, मनिहारी।