

RURAL WORKS GOVT OF DEPARTMENT



Name of road -Runni to Rakshiya path

BLOCK

Runnisaidpur

FDR

Rs. 115364.00

Year - 2019-20

NAME OF CIRCLE - R.W.D., WORKS CIRCLE, SITAMARHI

NAME OF DIVISION - R.W.D., (W) DIVISION, BELSAND

प्रतिवेदन

पथ का नाम:- पथ

सालान प्राक्कलन 2020 के जुलाई माह में प्रखंड में ~~आई~~ ~~प्राक्कलन~~

बाद से क्षतिग्रस्त पथ

पथ में बाद से क्षतिग्रस्त मरम्मत मद से यातायात चालू करने हेतु तैयार किया गया है,

पथ की प्राक्कलित राशि Rs. 115364/- (एक लाख पचास हजार तीन सौ नौ सय रुपये) है।

पथ के क्षतिग्रस्त भाग में आवश्यकता अनुसार Brick Bats, Rabbish भरकर यातायात चालू करने का प्रावधान किया गया है।

प्राक्कलन वर्तमान अनुसूचित दर पर बनाया गया है।


11.01.2021
करीब अभियंता
ग्रामीण कार्य विभाग, बेलसंड


11.01.2021
सहायक अभियंता
ग्रामीण कार्य विभाग, बेलसंड


11.01.2021
कार्यपालक अभियंता
ग्रामीण कार्य विभाग, बेलसंड

DETAILED ESTIMATE FOR F.D.R.

General Abstract of Cost

Name of Road : Name of road -Runni to Rakshiya path
 Length of Road : 2.00 Km
 Block : Runnisaidpur
 DISTRICT : SITAMARHI

S.No.	Particulars	Total Cost (in Thousands)
1	Total Cost for Motorable Roads	102092.00
2	Labour cess @1%	1020.92
3	GST @12%	12251.04
	Total Cost of Road Repair	115363.96
	Say	115364.00

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*Technically approved for Rs 115364=00 (Rupees One Lax
 fifteen thousand three hundred sixty four) only.*

*E.B. Sheehar द्वारा जॉन
 योनिवैर 214/17/21
 सुपारी परान्त दिनांक 09/5/21
 को उपस्थापित।*

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INPUT DATA DATA

ITRISTRICT

SITAMBI MARHI

BITA INIATION CODE

DC BLOCK

Runnissaidpur

ROAD DETAILS

From (Chainage)

To (Chainage)

Flush Drain(Cum)

Road Connecting To

Brick Soling for Dismantling

CC Road for Dismantling

BT road for Dismantling

Name of road -Runni to Rakshiya path

Prepared By

Works Division, Belsand

11/01/24

11-01-2021
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Schedule of Quantity

Name of road -Runni to Rakshiya path		Block		Runnisaidpur	
S.No	DESCRIPTION OF ITEMS		UNIT	RATE	AMOUNT
1	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	0.00	Cum	401.00	0.00
2	Providing and laying of Brick bat obtained from chimney with machanical means with all spreading, grading to required slope and compacted at OMC to acheive required density with all complete as per the direction of engineer in charge.				
	80% of brick bats	58.96	Cum	1546.00	91155.25
3	Single bamboo palasiding / walling of whole 2nd class bamboo (Jati or Bethua) 75mm dia and closely packed & driven including fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and technical specifications Clause 1302.5				
		0.00	m	172.62	0.00
4	Providing ,laying and placing empty cement bag filled with local sand including stiching with sutali etc. ----- do ----- do-----all complete job as per specification and direction of E/I.(Including Royalty and all Taxes)				
		0.00	no.	23.12	0.00
5	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row with old available pipe				
		0.00	m	3158.69	0.00
6	Providing Quarry Material Rabbish for filling the voids in bricks bats -----do----- all complete job as per specification and direction of E/I.				
	Taking 20% of rubbish only	14.74	Cum	742.00	10937.08
				Total	102092.33
				Say	102092.00

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AE

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EE

Name of work-Runni to Rakshiya path

Length	Width	Height	Quantity
2.900	3.100	0.600	5.394
2.600	1.300	0.150	0.507
2.300	0.900	0.150	0.310
18.00	1.500	0.150	4.050
5.00	2.800	0.250	3.500
37.00	3.250	0.365	45.093
15.00	0.75	0.600	6.750
5.00	5.00	0.300	7.500
5.00	2.900	0.300	1.800
			0.600
			74.904
			73.704m

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11/01/21
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BASIC RATES AS PER LATEST SOR AS ON 28/07/2016
(A) Labour

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	242
L-02	Bitumen Sprayer(semi skilled)	day	261
L-03	Blacksmith,special	day	295
L-04	Blaster, 2nd class	day	408
L-05	Carpenter 1st Class	day	330
L-06	Chips spreader, semi-skilled	day	295
L-07	Chiseller	day	309
L-08	Dresser (Skilled)	day	309
L-09	Driller, 2nd class	day	295
L-10	Electrician,skilled	day	312
L-11	Fitter, skilled	day	336
L-12	Mason (1st class)	day	342
L-13	Mason (2nd Class)	day	295
L-14	Mate, Semi skilled	day	284
L-15	Mazdoor (Unskilled)	day	268
L-16	Mazdoor (Semi skilled)	day	268
L-17	Mazdoor (Skilled)	day	340
L-18	Painter (1st class)	day	312
L-19	Plumber, Special	day	312
L-20	Surveyor	day	298
L-21	White Washer	day	312

N. K. Singh
11/01/21

BASIC RATES AS PER LATEST SOR AS ON 28/07/2016
(B) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-001	Air Compressor 210 cfm	Supplying compressed air	cfm	210.00	per hour	437.00
PM002	Batch mix HMP 40-60 TPH	BM, DBM, SDBC, PM	t/h	50.00	per hour	21,633.00
PM003	Batch type HMP 30/40 TPH	BM, DBM, SDBC, PM	t/h	35.00	per hour	2,775.00
PM004	Bitumen boiler oil fired 200 ltr	Heating of bitumen	litre / h	400.00	per hour	270.00
	1000 ltr		litre / h	2000.00	per hour	270.00
PM005	Bitumen emulsion pressure distributor	Applying bitumen tack coat	sqm/h	1750.00	per hour	1,463.00
PM006	Concrete mixer 0.28/0.4 cum	Mixing of ingredients	cum/h	2.50	per hour	80.00
PM007	Crane upto 3.5T	Lifting of materials			per hour	1,163.00
PM-008	Dozer D 50	Dozing cutting	cum/h	200.00	per hour	3,099.00
		CLEANING	cum/h	100.00		3,099.00
PM009	Electric generator set, 125 KVA	Electricity generation	KVA	100.00	per hour	2,502.00
PM010	Emulsion sprayer with tractor	Spraying of Emulsion	sqm/h		per hour	1,091.00
PM011	Front end-loader 1 cum bucket capacity @ 45 cum/hour	Loading soil/Aggregates	cum/h	45	per hour	1,291.00
		Loading Soil	cum/h	100.00		1,291.00
PM012	Hydraulic broom with tractor	Surface cleaning	sqm/h	1250.00	per hour	522.00
PM013	Hydraulic Excavator 0.9cum	Excavation	cum/h	100.00	per hour	1,775.00
PM014	Hydraulic self propelled chip spreader	Surface Dressing	sqm/h	1500.00	per hour	3,594.00
	Jack Hammer with tractor	Pavement breaking & rock drilling	cum/h	05. to 1	per hour	1,163.00
PM015	Joint Cutting Machine with 2-3 blades	Cutting of Joints	m		per hour	317.00
PM017	Mixall 6-10 t capacity	Mixing of bituminous materials	t/h	8.00	per hour	1,547.50
PM018	Motor Grader 3.35m blade					
PM019	Tractor Mounted Grader	Scarifier & levelling	cum/h	200.00	per hour	2,674.00
				50.00		481.00
PM019	Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	76.35
PM020	Paver finisher Hydrostatic with sensor control 100TPH	Laying/DBM/BM/SDBC/	t/h	75.00	per hour	1,318.00
PM021	Plate compactor	Compaction	cum/h		per hour	423.00
PM022	Plate vibrator	Compaction	cum/h		per hour	423.00
PM023	Screed vibrator	Compaction	cum/h		per hour	102.64
PM024	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	736.00
PM025	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	11,829.00
PM026	Three wheel 80-100 kN Static Roller	Compaction/ Rolling				736.00
		Earth:- Embankment or sub-grade	cum/h	80/70		736.00
		Sub-base G-I	cum/h	10.00		736.00
		Sub-base G-II/G-III	cum/h	8.00		736.00
		WMM	cum/h	16.00	per hour	736.00
		BSG	cum/h	10.00		736.00
		BM 50/75 mm	cum/h	12.00		736.00
		Premix 20 mm	sqm/h	250.00		736.00
		Seal Coat	sqm/h	500.00		736.00
		Surface Dressing 1st Coat	sqm/h	400.00		736.00
		Surface Dressing 2nd Coat	sqm/h	500.00		736.00
PM027	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	957.00
PM028	Tractor with Disc Harrows (Rotavator)	Pulverisation of soil	cum/h	80.00	per hour	495.00
PM029	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	533.00
PM030	Tractor with trolley	Transportation of materials	t/trip	3 to 5	per hour	495.00
PM031	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	517.00
PM032	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	929.00
PM033	Vibratory roller 80-100 kN	Compaction of soil	cum/h	100.00	per hour	1,915.00
		WMM	cum/h	60.00		1,915.00
PM034	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	168.00
PM035	Wet mix plant (75TPH)	Wet Mix	cum/h	25.00	per hour	1,643.00
PM043	Road Marking Machine	Wet Mix	cum/h	100.00	per hour	128.00

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11/01/21

BASIC RATES

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR	Deduct Tax/Royalty	Basic Rate Exclusive Royalty	after GST 5%	Rate Including GST	Final Rate Including GST+Royalty
M-001		Bamboo (2nd Class) 75mm dia, 1.8 m - 2.5 m long	No.	17.58	15.63	15.63	28%	20.00	20.00
M-002	M-063	Cost of sand and empty bag	No.	7.19	1.75	5.44	5%	5.71	7.460
M-003	M-007	Brick bat	cum	958.65	11.60	947.05	5%	994.40	1,006.00
M-004	M-072	Binding wire	kg	59.37	52.77	52.77	18%	62.27	62.27
M-005	M-006	Sand (Fine)	cum	113.67	50.00	63.67	5%	66.85	116.85
		Rabbish	cum						
		Hume Pipe 1000mm dia	m						
									303.85
									2744.5

Vibha
10/01/21

RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

BLOCK		Runnisaalpur		DISTRICT:-			SITAMARHI
S.NO.	Material	Railway Freight (Rs)	Lead Distance(Km)	Carriage Cost Per Km		Total Cost with Carriage	SOURCE
			Surface Road	Unsurfaced Road	Surface Road	Kaccha Road	
1	Fine Sand(Local Sand)	0	2	0	21.77	26.37	142.81 Local
2	Brick bat	0	7	0	190.12	65.80	654.91 Local
3	Rabbish	0	7	0	76.20	26.37	197.24 Local
4	Hume Pipe	0	18	0	97.78	0.00	164.52 Local

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11/01/21

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Single bamboo palasiding / walling of whole 2nd class bamboo (Jati or Bethua) 75mm dia and closely packed & driven including fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and technical specifications Clause 1302.5

A) Driven at least 600 mm below ground and 1200 mm above ground

Unit = Running metre

Taking Output = 3.00 metre

a) Materials

Materials

1st Class Bamboo 65 mm to 75 mm dia. (1.2 m to 3.0 m) nos 9.00 15.00 135.00

2nd Class Bamboo 65 mm to 75 mm dia. (1.2 m to 3.0 m) nos 1.50 20.00 30.00

Binding Wire kg 0.15 62.27 9.34

Brush Wood (LS Rs. 10/-) LS 10.00

b)

Labour

Mate day 0.04 305.00 12.20

Mazdoor (Unskilled) day 1.00 287.00 287.00

c)

Sundries (LS Rs. 5.00) LS 5.00

d)

Overhead charges 6% on (a+b+c) 29.31

e)

Contractor's profit @ 10% on (a+b+c+d) 0.00

Cost for 3 metre = a+b+c+d+e

517.85

Rate per metre = (a+b+c+d+e) / 3.00

172.62

Add Cess 1%

0.00

Finished Rate / m

172.62

2

Providing laying and spreading brick bat in ditches — do — do — all complete job as per specification and direction of E/I

Assuming = 300 sqm

a)

Material

Brick bat cum 360.00 1021.23 367642.80

b)

Labour for placing and spreading

Mazdoor (skilled) nos 2.00 364.00 728.00

Mazdoor (Unskilled) nos 8.00 287.00 2296.00

mate nos 0.40 305.00 122.00

c)

Overhead charges 6% on (a+b) 22247.33

d)

Contractor's profit @ 10% on (a+b+c) 0.00

Total

393,036.13

Rate per cum =

1,310.12

e) Conversion of Bricks Bat into Brick

Carriage

$1 \frac{1}{2} \times 832 \times 850 / 1000 = 0.360$

Brick bat cum 0.3602 654.91 235.88

Total

1546.00

Add Cess 1%

15.46

Add GST 12%

185.52

Finished Rate Per cum

1,746.98

Vijayan
11/01/21

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3

Providing laying and placing empty cement bag filled with local sand including stitching with sutali etc. — do — do — all complete job as per specification and direction of E/I. (Including Royalty and all Taxes)

	a)	Material				
DM-159		Cost of sand and empty cement bag	nos	1.00	7.46	7.46
5.7.40.1	b)	Labour for carriage & placing to work site				
		Mazdoor (Unskilled)	nos.	0.05	287.00	14.35
	c)	Overhead charges 6% on (a+b)				1.31
	d)	Contractor's profit @ 10% on (a+b+c)				0.00
	Total					23.12
	Add Cess 1%					0.00
	Finished Rate					23.12

4 1100 Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row with old available pipe

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. (With old available pipe)

Unit = m

Taking output = 7.5 m

(3 pipes of 2.5 m length each)

(B) 1000 mm dia

a)	Labour				
	Mate	day	0.09	305.00	27.45
	Mason (1st Class)	day	0.00	388.00	0.00
	Mazdoor (Unskilled)	day	2.00	287.00	574.00
b)	Material				
	Sand at site	cum	0.04	0.00	0.00
	Cement at site	t	0.03	0.00	0.00
	RCC pipe	m	7.50	2,744.50	20,583.75
c)	Overheads @ 6% (a+b)				1,271.11
d)	Contractor's profit @ 10% (a+b+c)				0.00
	Cost for 7.5 m = a+b+c+d				22,456.31
	Rate per m = (a+b+c+d)/7.5				2,994.17
e)	Carriage	m	1.00	164.52	164.52
	Total				3,158.69
	Add Cess 1%				0.00
	FINISHED RATE /M				3,158.69

Vibha
22/01/23

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Sand Filling in Foundation Trenches as per Drawing & Technical Specification.

159
40.1

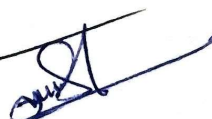
a)	Material				
	fine sand (assuming 20% void)	Cum.	1.20	106.23	127.48
b)	Labour				
	Mate	day	0.01	305.00	3.05
	Mazdoor (Unskilled)	day	0.30	287.00	86.10
c)	Overhead charges 6% on (a+b)				13.00
d)	Contractor's profit @ 10% on (a+b+c)				0.00
	carriage		1.20	142.81	171.38
Total					401.00
Add Cess 1%					0.00
Finished Rate/cum					401.00

Providing Quarry Material Rabbish for filling the voids in bricks bats —do— all complete job as per specification and direction of E/L.

Assuming Rate per cum

a)	Material				
	Rabbish	cum	1.20	322.96	387.55
b)	Labour for placing and spreading				
	Mazdoor (Unskilled)	nos.	0.30	287.00	86.10
	mate	nos.	0.01	305.00	3.05
c)	Overhead charges 6% on (a+b)				28.60
d)	Contractor's profit @ 10% on (a+b+c)				0.00
	Total				505.30
e)	Carriage				
	Rabbish	cum	1.20	197.24	236.69
	Total				742.00

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11/11/21



कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग
कार्य प्रमंडल, शिवहर

क्रमांक- 214 अगस्त / शिवहर

दिनांक- 17/02/2021

उपयुक्त-

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल शिवहर।

सदर में,

अधीक्षक अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल सीतामढ़ी।

विषय:- कार्य प्रमंडल बेलसंड के अधीन वर्ष 2020 के भयंकर बाढ़ से क्षतिग्रस्त पथों में
यातायात के पुनर्स्थापन हेतु तैयार किए गए प्रावकलन की जांच के संबंध में।

संदर्भ:- मसौदा पत्रांक-900 दिनांक-12.09.2020

प्रति शिवा,

उपयुक्त विषयक प्रासंगिक पत्र में दिए गए निर्देश के अनुपालन में कार्य प्रमंडल
बेलसंड के अधीन वर्ष 2020 की भयंकर बाढ़ से क्षतिग्रस्त पथों में यातायात पुनर्स्थापन हेतु
जारी किए गए कार्यों का स्थल निरीक्षण किया गया। इस पत्र के साथ सलग्न सूची के पथों का
स्थल जांचोपरान्त प्रावकलन तकनीकी अनुमोदन हेतु समर्पित किया जा रहा है।

अनु-पथों की सूची (कुल 52 पथ) सलग्न।

विश्वरसभाजन



कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, शिवहर

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग
कार्य प्रमंडल बेलसंड

बाढ़ से क्षतिग्रस्त पथों का प्राक्कलन की सूची।

Sl No	Division	Block	Name of Road	Total Cost (In Lakh)
1	Belsand	Runnisaidpur	Thumma To Belahi	12.26
2	Belsand	Runnisaidpur	Athari To Runni Via Kharka	14.91
3	Belsand	Runnisaidpur	Prem Nagar To Hanuman Nagar	4.72
4	Belsand	Runnisaidpur	NH-Gadha To Ptel Nagar	10.13
5	Belsand	Runnisaidpur	Bagari To Thumma	20.41
6	Belsand	Runnisaidpur	NH-77 Gadha To Dhanushi	6.34
7	Belsand	Runnisaidpur	Thumma To Khopi	6.21
8	Belsand	Runnisaidpur	Mahisar To Dilawarpur	2.88
9	Belsand	Runnisaidpur	Thumma To Athari	36.22
10	Belsand	Runnisaidpur	Balua To Bhulwariya	3.24
11	Belsand	Runnisaidpur	Maharani Sthan To Bagmati Bandh	11.59
12	Belsand	Runnisaidpur	Husainpur To Balan Tola	0.84
13	Belsand	Runnisaidpur	Khanua Ghat To Morang	3.52
14	Belsand	Runnisaidpur	Gidha To Phulwariya	3.01
15	Belsand	Runnisaidpur	Vinod Paswan House To Dhobahiya Tola	1.23
16	Belsand	Runnisaidpur	Ratan Jha To Bairam Nagar	13.23
17	Belsand	Runnisaidpur	Runni To Raksiya Path	1.12
18	Belsand	Runnisaidpur	Janar To Ramnagar	6.99
			Total	158.85

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