

RURAL WORKS DEPARTMENT GOVT OF BIHAR



Name of the Road :- RAMNI MIDDLE SCHOOL TO
HARPUR MIDDLE SCHOOL
BLOCK : PARSAUNI

FDR

Rs. 1093616.00

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:- Ramni middle School to Harpur middle School पथ

संतान प्रावकलन 2020 के जुलाई माह में Parpauni प्रखंड
में आई ग्रीष्म बाढ़ से क्षतिग्रस्त Ramni middle School to Harpur middle
School पथ में बाढ़ से क्षतिग्रस्त मरम्मत बंद से यातायात चालू करने हेतु तैयार किया
गया है।

जिसकी प्रावकलित राशि Rs. 10,93,616.00 (Ten lac ninety three
thousand six hundred sixteen only) है।

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

प्रावकलन में गिान अनुसूचित दर पर बनाया गया है।

Sagub

28.01.2021

ग्रामीण अभियंता
ग्रामीण कार्यविभाग, बेलसंड

Saemal
28/01/21

सहायक अभियंता
ग्रामीण कार्यविभाग, बेलसंड

28/01/21

कार्यपालक अभियंता
ग्रामीण कार्यविभाग, बेलसंड

DETAILED ESTIMATE FOR F.D.R.

General Abstract of Cost

Name of Road : RAMNI MIDDLE SCHOOL TO HARPUR MIDDLE SCHOOL
 Length of Road : 2.79KM
 Block : Parsauni
 DISTRICT : SITAMARHI

S.No.	Particulars	Total Cost (in Thousands)
1	Total Cost for Motorable Roads	967802.00
2	Labour cess @1%	9678.02
3	GST @12%	116136.24
	Total Cost of Road Repair	1093616.26
	Say	1093616.00

Sagub
 28.01.2021
 JE

Skeema
 28/01/21
 AE

EE
 28/1/21
 EE

Technically approved for Rs 10.936 lac (Rs ten lac ninety three thousand six hundred) only.

Skeema
 10/5/21

S E

RWD Sitamarhi

214 and 2142 are not valid
 under 214 and 2142 17.02.2021
 2142 and 2142 09.05.2021
 (2142)

Schedule of Quantity

Name of the Road :- RAMNI MIDDLE SCHOOL TO HARPUR
MIDDLE SCHOOL

Block Parsauni

S.No	DESCRIPTION	QTY	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 bat Qty.	558.94	Cum	1546.00	864118.77
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 Brick Bats Qty	139.73	Cum	742.00	103683.07

Total 967801.84
Say 967802.00

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28.04.2021
JE

Sarmar
28/04/21
AE

EE
28/04/21

Details of Measurement of ditches filled by brick bats and rabbish

Sr. No.	DESCRIPTION	UNIT	NOS.	NOS.	LENGTH	BREATH	HEIGHT	QTY.	REMARKS
	Ramni Middle School to Harpur Middle School								
	3rd Km	m ³	1	1	12.00	3.1	0.6	22.320	
		m ³	1	1	14.00	2.5	0.42	14.700	
		m ³	1	3	30.00	3.62	0.87	283.446	$D = (.85 + .95 + .8) / 3$
		m ³	1	1	25.00	3.6	0.8	72.000	$D = (0.85 + 0.75) / 2$
	2nd Km	m ³	1	1	22.00	3.7	0.45	36.630	
		m ³	1	1	28.00	2.9	0.38	30.856	
		m ³	1	1	12.00	2.1	0.4	10.080	
		m ³	1	2	30.00	3.65	0.4	87.600	$D = (0.45 + 0.35 + 0.40) / 3$
		m ³	1	1	11.00	3.4	0.6	22.440	
		m ³	1	1	28.00	3.2	0.45	40.320	
		m ³	1	1	13.00	2.9	0.35	13.195	
		m ³	1	1	30.00	2.7	0.38	30.780	$D = (0.45 + 0.3 + 0.40) / 3$
		m ³	1	1	18.00	3.05	0.44	24.156	
		m ³	1	1	10.00	2.9	0.35	10.150	
		m ³						698.673	

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28/01/21
ALR

- 1 1300 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

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) 22,247.33

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

1.2/2.832*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

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

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a)	Material				
	Cost of sand and empty cement bag	nos	1.00	7.46	7.46
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

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

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/I.

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28.01.2021
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Assuming Rate per cum

a)	Material				
b)	Rabbish	cum	1.20	322.96	387.55
	Labour for placing and spreading				
	Mazdoor (Unskilled)	nos.	0.30	287.00	86.10
c)	mate	nos.	0.01	305.00	3.05
d)	Overhead charges 6% on (a+b)				28.2
	Contractor's profit @ 10% on (a+b+c)				0.00
e)	Carriage				
				Total	505.30
	Rabbish	cum	1.20	197.24	236.69
	Total				742.00

Sagunb

28.01.2021

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कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग
कार्य प्रमंडल, शिवहर

सं. 214 अमरपुर
शिवहर

दिनांक- 12/02/2021

उपस्थित-

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल शिवहर।

सूचना में,

अधीक्षक अभियंता
ग्रामीण कार्य विभाग
कार्य अंचल सीतामढ़ी।

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

संदर्भ:- भवदीय पत्रांक-900 दिनांक-12.09.2020

सूचना में,

उपरोक्त विषय पर 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
तैयार किए गए कार्य का स्थल निरीक्षण किया गया। इस पत्र के साथ सलग्न सूची के 52 पथों पर
आवृत्ति जांचोपरान्त प्राक्कलन तकनीकी अनुमोदन हेतु समर्पित किया जा रहा है।

अनु-पथों की सूची (कुल 52 पथ) सलग्न।

विभागाध्यक्ष


कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल शिवहर

ग्रामीण कार्य प्रमंडल बेलसंड के अन्तर्गत वर्ष-2020 के बाद से क्षतिग्रस्त पथों के प्राक्कलन की सूची।

Sl No	Division	Block	Name of Road	Total cost in Lakh
1	Belsand	Parsouni	Ramani Middle School To Harpur Middle School Road	12.453
2	Belsand	Parsouni	Kanhaul Gajpatti To Bhulli REO Road	3.284
3	Belsand	Parsouni	Andhara PWD Road To Andhara Road Road	1.908
4	Belsand	Parsouni	Benipur To Dhurwar Road	12.267
5	Belsand	Parsouni	Belsand To Pamara Road	10.093
6	Belsand	Parsouni	Sundergrama Village To Vidhata Village At Manusara River	1.927
7	Belsand	Parsouni	Madanpur School West To Madanpur School East Road	5.313
8	Belsand	Parsouni	Muroul To Mushahari Tola Road	6.101
9	Belsand	Parsouni	Riga Road To Parsurampur Utter Tola	3.319
10	Belsand	Parsouni	Sarkhauli PWD To Kanhaul Gajpatti Road	8.679
11	Belsand	Parsouni	Pasurampur To Dhanhara Road	3.005
			TOTAL	68.349

[Signature]
17-2-20