

कार्यपालक अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, छपरा-2

बाढ़ से क्षतिग्रस्त पथों का प्राक्कलन की सूची।

Sl No.	Division	Block	Name of Road	Total Cost (In Lakh)
1	Chapra-2	Lahladpur	PWD Sadak Sikatiya Paigambarpur Airtel Tower Ke Pass Se Saran Khas Tak.	3,58,365.00

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DETAILED ESTIMATE FOR F.D.R.

General Abstract of Cost

Name of Road : Pwd sadak siktiya paigambarpur airtel tower ke pas se saran khas tak
Length of Road : ~~1.256 Km~~ 5.50 Km
Block : Lahladpur
DISTRICT : SARAN

S.No.	Particulars	Total Cost (in Thousands)
1	Total Cost for Motorable Roads	301147.00
2	Labour cess @1%	3011.47
3	GST @18%	54206.46
	Total Cost of Road Repair	358364.93
	Say	358365.00

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INPUT DATA

DISTRICT

HABITATION CODE

BLOCK

ROAD DETAILS

From (Chainage)

To (Chainage)

Flush Drain(Cum)

Road Connecting To

Brick Soling for Dismantling

CC Road for Dismantling

BT road for Dismantling

Prepared By

SARAN

Lahladpur

Pwd sadak siktiya paigambarpur airtel tower ke pas se saran khas tak

0.000 KM

0.05 KM

0.05 KM

Works Division, Chapra-2

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Schedule of Quantity

Name Of Work : Pwd sadak siktiya paigambarpur airtel
tower ke pas se saran khas tak

Block Lahladpur

S.No	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
1	Sand Filling in Foundation Trenches as per Drawing & Technical Specification.	132.81	Cum	321.74	42729.64
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.	103.15	Cum	1942.30	200352.58
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	204.00	m	154.63	31545.16
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)	700.00	no.	21.00	14698.95
5	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row.....do.....E/I	7.50	m	1576.10	11820.74
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	25.79	Cum	896.23	23111.99
Total					301147.06
Say					301147.00

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Details of Measurement of ditches filled by brick bats and rabbish ETC

Name Of Work : Pwd sadak siktiya paigambarpur airtel tower ke pas se saran khas tak

Sr. No.	DESCRIPTION	UNIT	NOS.	LENGTH	BREATH	HEIGHT	QTY.
	Pwd sadak siktiya paigambarpur airtel tower ke pas se saran khas tak						
1	Bags filled with fine sand	Nos.	700				700.00
2	Providing ,laying and spreading brick bat in ditches -----do	m ³	1	17.00	4.15	1.7	119.94
		m ³	1	7.50	1.00	0.6	4.50
		m ³	1	7.50	1.00	0.6	4.50
	Total	m ³					128.94
	Brick Bats Quantity (80% of total Qty.)						103.15
3	Providing Rabbishs including spreading laying hand packing and compacting with C.I hammer in layers not exceeding 75 mm thick including cost of light barrier,danger signals,chowkidar tax royalty etc all complite job as per specification and direction of E/I	m ³	20% x		128.94		25.79
4	Sand Filling in Foundation Trenches -----do	m ³	1	17.00	6.25	1.25	132.81
	Total	m ³					132.81
5	Single bamboo palasiding / walling of whole 2nd class bamboo-----do	m	40	3.00			120.00
		m	6	14.00			84.00
	Total	m					204.00
6	Providing and laying reinforced cement concrete pipe NP3-----do(600mm Dia)	m	3	2.50			7.50
	Total	m					7.50

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Carraige Analysis of Bricks

(A) Loading and unloading of bricks

(a) Labour

Mate	0.02 x	519.00 =	10.38
Mazdoor	0.50 x	410.00 =	205.00
(b) Machinery Truck	0.66 x	934.34 =	616.66
(c) Overheads 12%		=	99.85
Cost of 2000 nos bricks		=	931.89

Rate for 1000 nos bricks = 931.89 / 2 = 465.9449 x 1 = 465.94

(B) Carriage of bricks 1Km kachha and 7 km pucca

For 1km	8 /	2 x	16.54 x	1 =	66.16
For 7 km	8 /	2 x	6.83 x	7 =	191.24
loading and unloading			2 x	465.94 =	931.89

Rate per thousand bricks = 1189.29

Carraige Analysis of Rabbish

(A) Loading and Unloading of Rabish

(a) Labour

Mate	0.015 x	519.00 =	7.79
Mazdoor	0.375 x	410.00 =	153.75
(b) Machinery Truck	0.416 x	934.34 =	388.69
(c) Overhead @ 12%		=	66.03
(d) Add 1% Labour cess		=	0.00
Total			616.25

Rate for 1 m3 Rabbish = 616.25 / 5.5 = 112.05 x 1 = 112.05

(B) Carriage of Rabish 1Km kachha and 7 km pucca

(a) For 1km	8 /	4.99 x	16.54 x	1 =	22.38
(b) For 7 km	8 /	4.99 x	6.83 x	7 =	64.74
(c) loading and unloading			2 x	112.05 =	206.70

Rate perm3 Rabish (a+b+c) = 293.82

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RWD Lahladpur

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RWD Lahladpur

E. E
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RWD Chapra-2

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	14.69	22.04
Binding Wire	kg	0.15	54.44	8.17
Brush Wood (LS Rs.10)	LS			10.00

b)

Labour

Mate	day	0.04	261.00	10.44
Mazdoor (Unskilled)	day	1.00	247.00	247.00

c)

Sundries (LS Rs.5.00) LS 5.00

d)

Overhead charges 6% on (a+b+c) 26.26

e)

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

Cost for 3 metre = a+b+c+d+e 463.90

Rate per metre = (a+b+c+d+e) / 3.00 154.63

Add Cess 1% 0.00

Finished Rate / m 154.63

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

a)

Material

Brick bat cum 360.00 1041.00 374760.00

b)

Labour for placing and spreading

Mazdoor (skilled)	nos.	2.00	313.00	626.00
Mazdoor (Unskilled)	nos.	8.00	247.00	1976.00
mate	nos.	0.40	261.00	104.40

c)

Overhead charges 12% on (a+b) 45,295.97

d)

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

Total

422,762.37

Rate per cum =

1,409.21

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e) Conversion of Bricks Bat into Brick

$$1.2/2.832 \times 850/1000 = 0.360$$

Carriage

Brick bat

cum 0.3602 619.10

222.98

Total

1632.19

Add Cess 1%

16.32

Add GST 18%

293.79

Finished Rate Per cum

1,942.30

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)

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

247.00

12.35

c)

Overhead charges 6% on (a+b)

1.19

d)

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

0.00

Total

21.00

Add Cess 1%

0.00

Finished Rate

21.00

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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.

(C) 600 mm dia
 a)

Labour				
Mate	day	0.04	261.00	10.44
Mason (1st Class)	day	0.12	330.00	39.60
Mazdoor (Unskilled)	day	0.96	247.00	237.12
Carriage				302.68

b)

Material				
Sand at site	cum	0.024	827.34	19.86
Cement at site	t	0.018	6,278.09	113.01
RCC pipe NP3	m	7.50	1,178.80	8,841.00

c)

Overheads @ 20% (a+b)				1,912.74
Cost for 7.5 m = a+b+c+d				11,476.44
Rate per m = (a+b+c+d)/7.5				1,530.19
Add 1% I.cess				15.30
Add 2% seigniorage Fee				30.60
Finished Rate	m			1,576.10

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

a)	Material				
	fine sand (assuming 20% void)	Cum.	1.20	67.84	81.41
b)	Labour				
	Mate	day	0.01	261.00	2.61
	Mazdoor (Unskilled)	day	0.30	247.00	74.10
c)	Overhead charges 6% on (a+b)				9.49
d)	Contractor's profit @ 10% on (a+b+c)				0.00
	carriage			154.13	154.13
	Total				321.74
	Add Cess 1%				0.00
	Finished Rate/cum				321.74

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

a)	Material				
	Rabbish	cum	1.20	363.47	436.16
b)	Labour for placing and spreading				
	Mazdoor (Unskilled)	nos.	0.30	247.00	74.10
	mate	nos.	0.01	261.00	2.61
c)	Overhead charges 6% on (a+b)				30.77
d)	Contractor's profit @ 10% on (a+b+c)				0.00
	Total				543.65
e)	Carriage				
	Rabbish	cum	1.20	293.82	352.58
	Total				896.23

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