GOVERNMENT OF BIHAR
FDR (2020-21)

बिहार सरकार

Name of Road- Dhaka Phulwariya Road to Khairwa	Length-0.500 Km
Estimated Cost- Rs.:-5,25,600.00	Block- Dhaka

Submited By
Executive   . Engineer
R.W.D. (W) Division Dhaka

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :- ढ़ाका-फुलवड़िया रोड से रनैरवा.
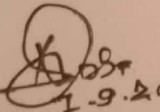
प्रखंड का नाम :- ढ़ाका

पथ की लम्बाई:- 0.500 कि0मी0

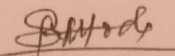शीर्ष :- 3054

प्राक्कलित राशि:- रू. 5,25,600.00

अनुरक्षण अवधि :- निर्माणाधीन

प्रस्तुत प्राक्कलन ढ़ाका-फुलवड़िया रोड से रनैरवा - में अतिवृष्टि / वाढ़ से क्षतिग्रस्त पथांशों में यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो0 5,25,600.00 रू0 है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विभाग बिहार पटना के पत्रांकः-2254, दिनांकः-30.06.2020 के निर्देशानुसार तैयार किया गया है। पथ में अतिवृष्टि / वाढ़ के कारण क्षतिग्रस्त पथांशों में Brick Bats से भरने का प्रावधान किया गया है, तथा आवश्यकता अनुसार पथ में हयूम पाईप का प्रावधान किया गया है।
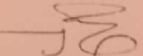
प्राक्कलन में दिये गये दर वर्त्तमान अनूसूचित दर के अनुरूप है।

01.9.2020
कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रशाखा, ढ़ाका।

07/09/2020
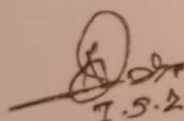सहाय अभियंता
ग्रामीण कार्य विभाग
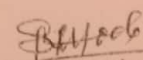कार्य अवर प्रमंडल, ढ़ाका

07/09/2020
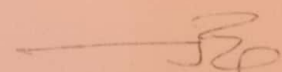कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमण्डल, ढ़ाका

Estimate for Restoration work of Road from Dhaka Phulwariya Road to Khairwa for the year 2020-21 in Dhaka Block.

Length:-0.500Km

SL N.	Name of Item	Unit	Quantity M³	Rate Rs.	Amount Rs.
1	Labour for laying dry graded jhama khoa or stone filter under Bricks pitching in slope or apron including light ramming etc............ all complete as per approved design specification and direction of E/I. (Brick Bat) **CH:- 320M to 400M** 80.00x4.10+5.50/2x0.300+1.50+0.300/3 = 240.80M³ Less for H.P. 1x22/7÷4 (1.23)²x5.00 = (-)5.94M³ **Total = 234.86M³**	M³	234.86	2147.40	5,04,338.00
2	Supplying Fitting and and fixing Hume pipe 1000mm dia Hume pipe all complete as per approved design specification and direction of E/I. 2Row x 2 Nos. x2.50M =5M	M	5	4258.65	21293.00
			Total=	Rs.	5,25,631.00
				Say Rs.	5,25,600.00

7.5.2020
JE.
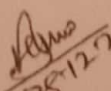
07/09/2020
AE.

07/09/2020
EE.

Post Facto-

T.A./T/S is accorded for Rs....5,25,600 = 00

(............crore....Five....lacs....Twenty Five....thousand....Six....hundred ....) only.

26.12.2

S.E. (R.W.D.)
works Circle
Motihari

29-12-20

6.6.1 WRD Bihar	Labour for laying dry graded Jhama Khoa or stone filter under Brick Pitching or Boulder Pitching in slope or apron including light ramming etc. all complete as per approved design, specification and direction of E/I.					
	Unit :- Per Cum					
	Taking Output = 2.832 Cum					
	Unskilled Mazdoor	Nos.	3	287.00	861.00	
	Add 6% Overhead Charges				51.66	
	Rate for 2.832 Cum				912.66	
	Rate per Cum (Rs.) -				~~383.15~~ 32227	
1.4 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) Surfaced Road					
	Speed with load : 15 km / hour.					
	Speed while Returning empty :25 km / hour.					
	a) Machinery.					
	Tractor 3.6 tonne capacity					
	Time taken for onward haulage with load	hour	0.667	549.10	366.25	
	Time taken for empty return trip.	hour	0.400	549.10	219.64	
	b) Overhead charges @ 0.06 on (a)				35.15	
	cost for 36 t km = a+b+c				621.04	
	Rate per t.km = (a+b+c)/36				17.25	
	Say Rs. -				17.25	
	(ii) Unsurfaced Graveled 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	549.10	457.40	
	Time taken for empty return trip hour 0.5	hour	0.500	549.10	274.55	
	b) Overhead charges @ 0.06 on (a)				43.92	
	Cost for 36 t .km = a+b+c 840.34				775.87	
	Rate per t.Km = (a+b+c)/36 23.34				21.55	
	Say Rs. -				21.55	

1.1 RCD	Loading and Unloading of Stone Boulder/ Stoneaggregates/Sand /Kanker/Moorum					
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excludingfor haulage and return trip					
	Unit = cum					
	Taking output = 2.25 cum					
	Time required for					
	i) Positioning of Tractor at loading point		1 Min			
	ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		5 Min			
	iii) Maneuvering, reversing, dumping and turning for return		0 Min			
	iv) Waiting time, unforeseen contingencies etc		0 Min			
	Total		6 Min			
	a) Labour					
	Mate	day	0.03	305.00	9.15	
	Mazdoor for loading and unloading	day	0.72	287.00	206.64	
	b) Machinery					
	Tractor 3.60 tonnes capacity	hour	0.1	549.10	54.91	
	Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1403.00	116.45	
	c) Overhead charges @ 0.06 on (a+b)				23.23	
	Cost for 2.25 cum = a+b+c+d				410.38	
	Rate per cum = (a+b+c+d)/ 2.25				182.39	
Note:-	Unloading will be done manually.					
1.	Suplying for Brick Bats (with OH)					
A.	Basic Rate of Brick Bats	Per Cum		1017.00	1017.00	
	Add overhed Charges		6%		61.02	
	Total -				1078.02	
	Surface Lead	KM	7			
	Unsurface Lead	KM	1			
	Factor (3.6/2.25)	Cum	1.60			
B.	Carriage (with OH)				410.07	
	(1.6 x 7 x 17.25) + (1.6 x 1 x 21.55) + 182.39					
C.	Ramming as per WRD SOR 6.6.1 (with OH)				383.15	322.27
	Total (A+B+C) -				1871.24	1810:36
	Add 1% Labour Cess (A+B+C)				18.71	18.10
	Add 12% GST (A+B+C)				224.55	217.24
	Add 10% cost of Material for Seigniorage Fee		1	101.70	101.70	
	Total Cost per Cum			Rs.-	2216.20	2147=40

1.9.2020
J.E.

07/09/2020
A.E

07/09/2020
E.E

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
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

Unit = m

Taking output = 7.5 m

(3 pipes of 2.5 m length each)

(B) 1000 mm dia

			Unit	Quantity	Rate (Rs.)	Amount (Rs.)
a)	Labour					
	Mate					
	Mason (1st Class)		day	0.09	305.00	27.45
	Mazdoor (Unskilled)		day	0.25	388.00	97.00
b)	Material		day	2.00	287.00	574.00
	Sand at site					
	Cement at site		cum	0.04	175.80	7.03
	RCC pipe NP3 concrete pipe including collar at site		t	0.03	5,171.60	155.15
c)	Overheads @ 5.0% on (a+b)		m	7.50	2,758.22	20,686.65
d)	Contractor's Profit @ 0.0% on (a+b+c)					1,292.84
	Cost for 7.5 m = a+b+c+d					0.00
	Rate per m = (a+b+c+d)/7.5					22,840.12
						3,045.35

Carriage of Materials

RCC pipe NP3 concrete pipe including collar

(3.6/3 x 78 x 17.25 + 41.62 + 28.00) / 2.5

84

			Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Final Rate in DPR (with carriage)			m	1.00	657.13	723>37 / 657.13
add 1% for Labour Cess						3768>72 / 3,702.18
add 12% for GST						37>68 / 37.02
Final Rate in DPR with Seigniorage Fee, Cess & GST						452>25 / 444.36
						1,183.30
						4258>65

Osa 1-5-2020
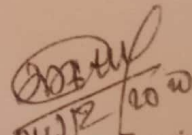J.E.

Bthod 07/09/2020
A.E

07/09/2020
E.E.

Inspection Report for Flood Damage Works:-

Date:-

1. Name of PIUs:- Executive Engineer. R.W.D. (W) Div." Dhaka

2. Name of Block:- Dhaka

3. Name of Road :- Dhaka Phulwariya Road to khairwa

(A)For Road

1. Damage Location Chainage:-

2. Damage Length:- 80 m

3. Name of Damage:- Road damaged due to Flood

4. Details of Restoration Work:-

   (i) Material being used in Restoration works:- Brick bats

   (ii) Equipments Tools being used in restoration works:-

   (iii) Procedure take up in restoration works:- Departmental

   (iv) Restored Length:- 80 m

Executive Engineer
R.W.D. (W) Div."
Raxaul