GOVERNMENT OF BIHAR
FDR (2020-21)

बिहार सरकार

Name of Road- Dhaka Phulwariya Road to Parsa	Length-3.275 Km
Estimated Cost- Rs.:-5,13,400.00	Block- Dhaka

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

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :– दाका-फुलकिश्मा रोड से परसा.

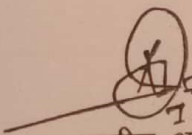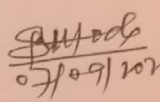प्रखंड का नाम :– दाका

पथ की लम्बाई:– 3.275 कि०मी०

शीर्ष :– 3054.

प्राक्कलित राशि:– रु. 5.13.400०००
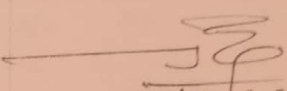
अनुरक्षण अवधि :–

प्रस्तुत प्राक्कलन ......दाका-फुलकिश्मा रोड से परसा........ में अतिवृष्टि / वाढ़ से क्षतिग्रस्त पथाशों में यातायात पुर्नस्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो0..5.13.400०००. रू0 है। प्रस्तुत प्राक्कलन सचिव ग्रामीण कार्य विभाग बिहार पटना के पत्रांक:–2254, दिनांक:–30.06.2020 के निर्देशानुसार तैयार किया गया है। पथ में अतिवृष्टि / वाढ़ के कारण क्षतिग्रस्त पथाशों में Brick Bats से भरने का प्रावधान किया गया है, तथा आवश्यकता अनुसार पथ में ह्यूम पाईप का प्रावधान किया गया है।

प्राक्कलन में दिये गये दर वर्त्तमान अनूसूचित दर के अनुरूप है।

7.5.2020

कनीय अभियंता
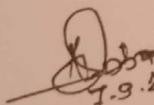ग्रामीण कार्य विभाग
कार्य प्रशाखा, ढाका।

07/09/2020

सहाय अभियंता
ग्रामीण कार्य विभाग
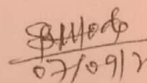कार्य अवर प्रमंडल, ढाका

07/09/2020

कार्यपालक अभियंता
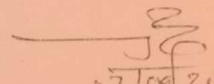ग्रामीण कार्य विभाग
कार्य प्रमण्डल, ढाका

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

Length:-3.275Km

SL N.	Name of Item	Unit	Quantity M^3	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:- 1570M to 1600M** 15.00x4.50+5.50/2x0.300+0.450+0.300/3 = 26.25M³ 15.00x4.50+6.00/2x0.600+1.80+0.800/3 = 84.00M³ **CH:- 2050M to 2150M** 50.00x4.10x0.450 = 92.25M³ **CH:- 2120M to 2150** 30.00x4.10x0.300x0.450x0.300/3 = 43.05M³ Less for H.P. 1x22/7÷4 (1.23)²x5.00 = (-) 5.94M³ = 239.61M³	M³	239.61	2053.84	4,92,121.00
2	Supplying Fitting and and fixing Hume pipe 1000mm dia Hume pipe all complete as per approved design specification and direction of E/I. 1Row x 2 Nos. x2.50M =5M	M	5	4258.65	21293.00
			Total=	Rs.	5,13,414.00
				Say Rs.	5,13,400.00
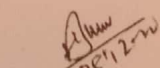
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Post Facto   T.A./TS is accorded for Rs. 5,13,400 = cω

(................crore.... Five ....lacs. Thirteen ....

.... Four ....hundred ...... — .... only

SE (RWD.)
works Circle
Motihari
29-12-20

BRICK BATS PITCHING MANUAL MEANS

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	Nos.	3	287.00	861.00	
	Unskilled Mazdoor				51.66	
	Add 6% Overhead Charges				912.66	
	Rate for 2.832 Cum				~~383.15~~ 322>27	
	Rate per Cum (Rs.) -					
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)					
	(1.6 x 7/4 x 17.25) + (1.6 x 1 x 21.55) + 182.39					~~410.07~~ 327>27
C.	Ramming as per WRD SOR 6.6.1 (with OH)					~~383.15~~ 322>27
	Total (A+B+C) -					~~1871.24~~ 1727-56
	Add 1% Labour Cess (A+B+C)					~~18.71~~ 17>2)
	Add 12% GST (A+B+C)					224.55 207-31
	Add 10% cost of Material for Seigniorage Fee		1		101.70	101.70
	Total Cost per cum			Rs.-		~~2216.20~~ 2053-84
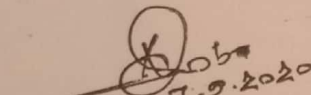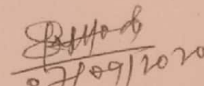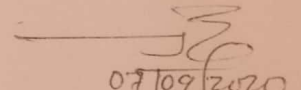
PIPE CULVERTS

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				
		a) Labour				
		Mate	day	0.09	305.00	27.45
		Mason (1st Class)	day	0.25	388.00	97.00
		Mazdoor (Unskilled)	day	2.00	287.00	574.00
		b) Material				
		Sand at site	cum	0.04	175.80	7.03
		Cement at site	t	0.03	5,171.60	155.15
		RCC pipe NP3 concrete pipe including collar at site	m	7.50	2,758.22	20,686.65
		c) Overheads @ 6.0% on (a+b)				1,292.84
		d) Contractor's Profit @ 0.0% on (a+b+c)				0.00
		Cost for 7.5 m = a+b+c+d				22,840.12
		Rate per m = (a+b+c+d)/7.5				3,045.35
		Carriage of Materials				
		RCC pipe NP3 concrete pipe including collar				_723-37_
		(3.6/3 x 78 x 17.25 + 41.62 + 28.00) / 2.5	m	1.00	657.13	657.13
		84				3768-72
		Final Rate in DPR (with carriage)				3,702.48
		add 1% for Labour Cess				37.02 37-68
		add 12% for GST				444.30 452-25
		Final Rate in DPR with Seigniorage Fee, Cess & GST				4,183.80
						4258-65

J.E. — 1.9.2020

A.E — 07/09/2020

E.E. — 07/09/2020

Inspection Report for Flood Damage Works:-

Date:-

1. Name of PIUs:-   Executive Engineer. R.W.D. (W) Div.^{n} Dhaka

2. Name of Block:-   Dhaka

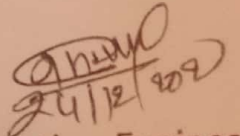3. Name of Road :-   Dhaka Phulwariya Road to Parsa.

(A)For Road

1. Damage Location Chainage:-

2. Damage Length:-   110 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:-   110 M

Executive Engineer
R.W.D. (W) Div.^{n}
Raxaul