GOVERNMENT OF BIHAR
FDR (2020-21)

बिहार सरकार

Name of Road- Dhaka Ghorasahan Turkaulia	Length-2.333 Km
Estimated Cost- Rs.:- 9,67,600.00	Block- Dhaka

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

F.D.R (2020-21)

तकनीकी प्रतिवेदन

पथ का नाम :– दाका - घोड़ासहन - तुरकौलिया

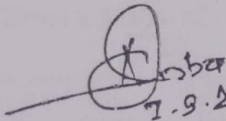प्रखंड का नाम :– दाका

पथ की लम्बाई:– 2.333 कि०मी०
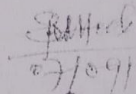
शीर्ष :– 3054.

प्राक्कलित राशि:– रु. 9,67,600-00

अनुरक्षण अवधि :– निर्माणाधीन

प्रस्तुत प्राक्कलन ......दाका - घोड़ासहन - तुरकौलिया...... में अतिवृष्टि / वाढ़ से क्षतिग्रस्त पथांशों में यातायात पुनर्स्थापन हेतु तैयार किया गया है जिसकी प्राक्कलित राशि मो0.....9,67,600-00...... 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।
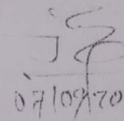
प्राक्कलन में दिये गये दर वर्त्तमान अनूसूचित दर के अनुरूप है।

7.9.2020

कनीय अभियंता
ग्रामीण कार्य विभाग
कार्य प्रशाखा, ढ़ाका।

27/09/2020

सहाय अभियंता
ग्रामीण कार्य विभाग
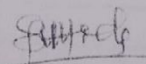कार्य अवर प्रगंडल, ढ़ाका

07/09/2020

कार्यपालक अभियंता
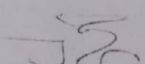ग्रामीण कार्य विभाग
कार्य प्रमण्डल, ढ़ाका

Estimate for Restoration work of Road from Dhaka Ghorasahan Turkaulia for the year 2020-21 in Dhaka Block.

Lenth:- 2.333 Km

SL NO.	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:- 563M to 600M. 37.00x4.10+5.30/2 x 0.700+0.900+0.700/3 =133.32M³ CH:-1800M to 1820 M. 20+18/2 x 4.10+6.10/2 x 3.0+ 4.0+ 3.0/3 = 323.00M³ 456.32M³ Less for H.P 1x 22/7 : 4x(1.23)2 x 5.00 (-) 5.94 M³ Total= 450.38M³	M³	450.38	2053.84	925008.00
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 =10M	M	10	4258.65	42587.00
				Rs.	967595.00
				Say Rs.	967600.00

7.9.2020

JE.

०७/०९/२०२०

AE.

०७/०९/२०२०

EE.

Post Fact...........is accorded for Rs........9,67,6..........

.............crore......Nine .... Sixty Seven ....

.......Six ....hundred ....

२५.१२.२०

२५-१२-२०

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~~ 322·27
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

7.9.2020
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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

		Description	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
			day	2.00	287.00	574.00
b)		Material				
		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
			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

(3.6/3 x 78 x 17.25 + 41.62 + 28.00) / 2.5 [84]

| | | | m | 1.00 | 657.13 | 657.13 |

Final Rate in DPR (with carriage)

add 1% for Labour Cess
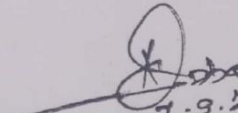
add 12% for GST
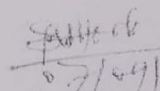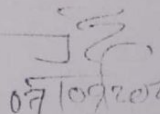
Final Rate in DPR with Seigniorage Fee, Cess & GST

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723>37
657.13
3768>7
3,702.48
37.02 37>1
444.30 452>
1,133.30
4258>8

Final Rate in DPR (with carriage) 3,702.48
add 1% for Labour Cess 37.02
add 12% for GST 444.30

(Signatures)

4.9.2020 — J.E.

07/09/2020 — A.E

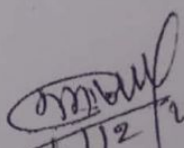07/09/2020 — E.E.

Inspection Report for Flood Damage Works:-

Date:-

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

    2. Name of Block:-   Dhaka

    3. Name of Road :-   Dhaka.- Ghorasahan Turkaulia.

(A)For Road

1. Damage Location Chainage:-

2. Damage Length:-   57 M

3. Name of Damage:-   Road cutting 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:- 57 M

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26/12/2020

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

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