FDR 2021-22

पथ का नाम :- T01 kurthu to mushahari

पथ की लम्बाई :-

प्राक्कलित राशि :- Rs 35680 =00

प्रतिवेदन

माह मई के अंतिम सप्ताह से लेकर माह अक्टूबर के तीसरे सप्ताह तक लगातार भारी वर्षा , परिणामस्वरूप आयी बाढ़ के चलते अधिकांश पथ अंशतः अथवा पूर्णतः जलमग्न हो गये, पथ में कटाव हो गया एवं यातायात बाधित हो गया।

जनहित, कार्यहित एवं आसन्न पंचायत आम चुनाव एवं विभागीय सचिव महोदय के आदेश (पत्रांक– मु0अ0–4(मू0) विविध कार्य–23–60/2020–1937 पटना, दिनांक–07.07.2021) के आलोक में क्षतिग्रस्त पथों को ईंट टुकड़ों से भरकर यातायात बहाल किया गया।

जलस्तर कम होने एवं पानी का बहाव बन्द होने के पश्चात् आदेशानुसार किये गये कार्य के अनुसार प्राक्कलन तैयार कर घटनोत्तर स्वीकृति हेतु समर्पित की जा रही है। कार्यहित में प्राक्कलन की स्वीकृति अपेक्षित है।

प्राक्कलन को कार्य अंचल, दरभंगा द्वारा स्वीकृत अद्यतन दर के आधार पर तैयार कर अग्रेतर कार्रवाई हेतु समर्पित की जाती है।

3-11-21
कनीय अभियंता
ग्रा0का0वि0, कार्य प्रशाखा,
~~अलीनगर~~
बेनीपुर

3/11/21
सहायक अभियंता
ग्रा0का0वि0 कार्य अवर प्रमंडल,
~~अलीनगर~~
बेनीपुर

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, बेनीपुर

Name of work: Detailed Estimate for FDR to the Road from TO1 kurthu to mushahari for the year 2021-22.

(A). Prov. & filling the brick-bats including the cost of bricks-bats and labour all complete job as per specification and direction of E/2.C.

Ch. 3.00 km $1 \times 25.0m \times 0.300m \times 0.600m = 4.50 m^3$

$1 \times 23.0m \times 0.300m \times 1.00m = 6.90 m^3$

$11.40 m^3$

@ Rs 2004/96 per m^3 ——— Rs 22856=54

(B) Labour for cutting 62mm to 75mm dia bamboo piles to size and making shoes and driving etc all complete job as per direction and specification of E/2.C

28 NOS $\times$ 1.2m = 33.60m

@ 31=20/m ——— Rs 1048=32

(C) Labour for fitting and fixing 62mm to 75mm bamboo runners E/2.C

6 NOS $\times$ 23.0m = 138.0m

$\Rightarrow$ 23.0 Nos.

@ 141=50/m ——— Rs 3254=50

Rs 27159=36

P.T.O

B.F.

Rs 27159=36

(1) Labour for filling empty cement bags with local sand stiching the bags and placing including supply of sutli and Ec bagge etc ..... E/L-c

90 Nos

@ 36=90/bags ——————— Rs 3321=00

Rs 30480=36

Add 12% GST ——————— (+) Rs 3658=00

Add 1% LC ——————— (+) Rs 366=00

Add 10% SF

$11.40 m^3 \times 1032 \times 0.1$ ——————— (+) Rs 1176=00

Rs 35680=00

Checked & Verified

10-12-2021
AE

3-11-21

3/11/21
AE

8/11/21
EE

Technically Sanctioned for the Rs. 35680=00
(Rupees thirty five thousand six hundred eighty
only)

Superintending Engineer
PWD, Works Circle, Darbhanga

8/12/21

			DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			BRICK BATS PITCHING MANUAL MEANS				
			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				
		a)	**Labour**				
			Mazdoor (Unskilled)	Nos.	3.00	304.00	912.00
		b)	**Over Heads** @ 12% on (a)				**109.44**
			Cost for 2.832 cum				1,021.44
			Rate per cum (Rs)				**360.68**
			Total Cost	**cum**			**360.68**
	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) **Surface Road**				
			Speed with Load:15 km/hour				
			Speed while Returning empty:25km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.667	612.00	408.20
			Time taken for empty return trip.	hour	0.400	612.00	244.80
		b)	**Over Heads** @ 12% on (a)				**78.36**
			Cost for 36 t Km=a+b				731.36
			Rate per t.km=(a+b)/36				**20.32**
			Total Cost	**t.Km**			**20.32**
			(ii) **Unsurfaced Graveled Road**				
			Speed with Load:12 km/hour				
			Speed while Returning empty:20km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.833	612.00	509.80
			Time taken for empty return trip.	hour	0.500	612.00	306.00
		b)	**Over Heads** @ 12% on (a)				**97.90**
			Cost for 36 t Km=a+b				913.69
			Rate per t.km=(a+b)/36				**25.38**
			Total Cost	**t.Km**			**25.38**
			(iii) Katcha Track and Track in River Bed/Nallah Bed and Choe Bed				
			Speed with Load:10 km/hour				
			Speed while Returning empty:15km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	1.000	612.00	612.00
			Time taken for empty return trip.	hour	0.667	612.00	408.20
		b)	**Over Heads** @ 12% on (a)				**122.42**
			Cost for 36 t Km=a+b				1,142.63
			Rate per t.km=(a+b)/36				**31.74**
			Total Cost	**t.Km**			**31.74**

			DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			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,unforseen contigencies etc	0 Min			
			Total	6 Min			
		a)	**Labour**				
			Mate	day	0.03	321.00	9.63
			Mazdoor for loading and unloading	day	0.72	304.00	218.88
		b)	**Machinery**				
			Tractor 3.6 tonne capacity	hour	0.1	612.00	61.20
			Front end-loader 1 cum bucket capacity @25 cum/hour	hour	0.083	1594.00	132.30
		c)	**Over Heads** @ 12% on (a+b)				**50.64**
			Cost for 2.25 cum=(a+b+c)				472.65
			Rate per cum (Rs)				**210.07**
	Note:-		Unloading will be done manually				
		1	**Supplying for Brick Bats (with OH)**				
		A.	Basic Rate of Brick Bats	Per Cum		1032.00	1032.00
			Add overhead charges		12%		123.84
			Total				1155.84
			Surface Lead	KM	7		
			Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
			Factor(3.6/2.25)	Cum	1.6		
		B.	Carriage(with OH)				
			((1.6*7*20.32)+(1.6*1*31.74)+(210.07))				488.438
		C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1(with OH)				360.68
			Total (A+B+C)				2004.96
			For (7km.p+1kmk)= without (GST+LC+SF)				2004.96
			For (6km.p+1kmk)= without (GST+LC+SF)				1972.45
			For (5km.p+1kmk)= without (GST+LC+SF)				1939.93
			For (4km.p+1kmk)= without (GST+LC+SF)				1907.42
			For (3km.p+1kmk)= without (GST+LC+SF)				1874.91

Sl. No.			DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	7.7 WRD SOR		Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E / I.				
			Unit :- Per M				
			Taking Out put:- 30.50 Mtr				
			(Assuming 20 nos. pile sunk 1.525 mtr deep)				
			Total depth sunk 30.50 meter				
			Labour				
			Carpenter Gr II	Nos	0.25	364	91.00
			Unskilled mazdoor for pilling	Nos	2.5	304	760.00
			Add Overhead charge 12 %				102.12
							953.12
			Rate	M			31.25
			Say Rs	M			31.20
2	5.7.8 WRD SOR		Labour for fitting and fixing split bamboo woven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire or nails complete job as per specification and direction of E / I.				
			Unit :- Per M2				
			Taking Out put:- 9.30 Sqm				
			(Assuming strip of 3.05x3.05 = 9.30 sqm)				
			Materials				
			75 mm to 100 mm long nails (BCD)	Kg	0.25	58	14.50
			Labour				
			Carpenter Gr II	Nos	1	364	364.00
			Unskilled mazdoor	Nos	1	304	304.00
			Add Overhead charge 12 %				81.90
							764.40
			Rate	M			82.19
			Say Rs	M			82.20
3	5.7.9 WRD SOR		Labour for fitting and fixing 62mm to 75 mm dia bamboo runners in position at every vertical pile with 150 mm long nails or 38 swg G.I. wire including cost of G.I. wire or nails complete job as per specification and direction of E / I.				
			Unit :- Per M				
			Taking Out put:- 30.50 Mtr				
			Materials				
			75 mm to 100 mm long nails (BCD)	Kg	0.5	58	29.00

			Labour				
			Carpenter Gr II	Nos	0.125	364	45.50
			Unskilled mazdoor	Nos	0.25	304	76.00
			Add Overhead charge 12 %				18.06
							168.56
			Rate	M			5.53
			Say Rs	M			5.50
4			**Supply Of Bamboo**				
		A	**Bamboo 6m to 8 m**	**Nos**	**1**	**141.5**	**141.5**
			Gross Truck Capacity(Unit Per%)(280Per Trip)				
			Gross Tractor Capacity(Unit Per%)(183Per Trip)				
			Carriage Including Loading and Unloading				
	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) **Surface Road**				
			Speed with Load:15 km/hour				
			Speed while Returning empty:25km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.667	612.00	408.20
			Time taken for empty return trip.	hour	0.400	612.00	244.80
			Cost for 36 t Km=a				653.00
			Rate per t.km=(a+b)/36				**18.14**
			Total Cost	**t.Km**			**18.14**
			(ii) **Unsurfaced Graveled Road**				
			Speed with Load:12 km/hour				
			Speed while Returning empty:20km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.833	612.00	509.80
			Time taken for empty return trip.	hour	0.500	612.00	306.00
			Cost for 36 t Km=a				815.80
			Rate per t.km=(a+b)/36				**22.66**
			Total Cost	**t.Km**			**22.66**
			(iii) **Katcha Track and Track in River Bed/Nallah Bed and Choe Bed**				
			Speed with Load:10 km/hour				
			Speed while Returning empty:15km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	1.000	612.00	612.00
			Time taken for empty return trip.	hour	0.667	612.00	408.20
			Cost for 36 t Km=a				1,020.20
			Rate per t.km=(a+b)/36				**28.34**
			Total Cost	**t.Km**			**28.34**
	4.3 WRD SOR		Loading and Unloading of Bamboo				

			Unit= Tonne				
			Taking Output = 3.6 tonnes				
		a	Labour				
			Mate	Nos	0.03	321	9.63
			Mazdoor for Loading and Unloading	Nos	0.72	304	218.88
		b	Machinery				
			Tractor 3.6 Tonne capacity	Hour	0.72	612.00	440.64
							669.15
			Rate	M			185.88
			Surface Lead	KM	2		
			Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
			Factor(8/280)	Nos	0.02857		
			Carriage(without OH)				7.16
		B	((0.02857*2*18.14)+(0.02857*1*28.34)+(185.88*0.02857))				148.66
			A+B				17.84
			Add Overhead charge 12 %				166.50
			Rate	No			166.50
			Say Rs	No			
	Sr.No.27 5 WRD SOR		Supply Of EC bags including Carriage				
			Materials				
			Old Empty Cement Bags (Synthetic)(Annexture I)	Per 100 Nos			292
			Add Overhead charge 12 %				35.04
			Rate	No			327.04
			Say Rs	No			327.00
	5.7.40.1 WRD SOR		Labour for filling empty cement bags with local sand,stiching the bags and placing including suppiy of sutli and EC Bags etc. at site in dry portion all complete as per approved design, specifications and direction of E/I Including Cost and Carriage of Sand				
			Unit=Per 100Nos				
			Taking Out put:- 100 nos				
		a	For filling & stiching & stacking				
			Unskilled mazdoor for filling sand into bags and sewing	Nos	2	304	608
			Sutali	Kg	0.5	19.75	9.875
							617.875
		F					
		b	Labour rates for carrying filled E.C Bags				
		G	Unskilled mazdoor for carring filled bags and placing to work site	Nos	3	304	912

		c	Cost of Sand & Carriage by Tractor				
		T	Cost of Sand	Cum	1	141.85	141.85
			Carriage Including Loading and Unloading				
	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) Surface Road				
			Speed with Load:15 km/hour				
			Speed while Returning empty:25km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.667	612.00	408.20
			Time taken for empty return trip.	hour	0.400	612.00	244.80
			Cost for 36 t Km=a				653.00
			Rate per t.km=(a+b)/36				**18.14**
			Total Cost	**t.Km**			**18.14**
			(ii) Unsurfaced Graveled Road				
			Speed with Load:12 km/hour				
			Speed while Returning empty:20km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	0.833	612.00	509.80
			Time taken for empty return trip.	hour	0.500	612.00	306.00
			Cost for 36 t Km=a				815.80
			Rate per t.km=(a+b)/36				**22.66**
			Total Cost	**t.Km**			**22.66**
			(iii) Katcha Track and Track in River Bed/Nallah Bed and Choe Bed				
			Speed with Load:10 km/hour				
			Speed while Returning empty:15km/hour.				
		a)	**Machinery**				
			Tractor 3.6 tonne capacity				
			Time taken for onward haulage with load	hour	1.000	612.00	612.00
			Time taken for empty return trip.	hour	0.667	612.00	408.20
			Cost for 36 t Km=a				1,020.20
			Rate per t.km=(a+b)/36				**28.34**
			Total Cost	**t.Km**			**28.34**
	1.1RCD		**Loading and Unloading of Stone Boulder/Stoneaggregates/Sand/Kanker/Moorum**				
			Placing Tractor at Loading point,loading with frontloader,dumping turning for return				
			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 fo	0 Min			
			iv) Waiting time,unforseen contigencies etc	0 Min			
			Total	6 Min			
		a)	**Labour**				

			Mate	day	0.03	321.00	9.63
			Mazdoor for loading and unloading	day	0.72	304.00	218.88
		b)	**Machinery**				
			Tractor 3.6 tonne capacity	hour	0.1	612.00	61.20
			Front end-loader 1 cum bucket capacity @25 cum/	hour	0.083	1594.00	132.30
			Cost for 2.25 cum=(a+b)				422.01
			Rate per cum (Rs)				**187.56**
	Note:-		Unloading will be done manually				
			Surface Lead	KM	2		
			Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
			Factor(3.6/2.25)	Cum	1.6		
		U	Carriage(without OH)				
			((1.6*2*18.14)+(1.6*1*28.34)+(187.56))				290.952
		V	T+U				432.802
	H	d	Cost of Sand &Carriage By Tractor per for 100nos bag				1,471.53
			For 100 Bags 3.4 Cum Sand Required				
	I	e	Cost of EC Bag per 100nos				292
			Total(F+G+H+I)				3293.40
			Add Overhead charge 12 %				395.21
							3688.61
			Rate	No			36.8861
			Say Rs	No			36.90
			Supply of Sand Bag(withot OH)				
		A	Basic Rate of Sand Bag	Nos	1	8.48	8.48
			1 No. Cement Bag Filled with 40 Kg/1.2 Cft Sand				
			Conversion Factor 1m3 =35.3146667ft3				
			1 Cubic Meter= Cubic Foot/35.3146667				
			2 Cubic Meter= 1.2/35.3146667				
			3 Cubic Meter= 0.034				
			Hence 1 Bo. Sand Bag Filled with 0.034 Cum sand				
			Tractor				
			Surface Lead	KM	2		
			Katcha Track and Track in River Bed/Nallah Bed and Choe Bed	KM	1		
			Factor(3.6/2.25)	Cum	1.6		
		B	Carriage(without OH)				
			((1.6*2*18.14)+(1.6*1*28.34)+(187.56))				290.952
			Cost of Carriage of Sand in Filling of Sand Bag	No	1		9.89
	12.9 RCD	C	Labour for filling empty cement bags with local sand,stiching the bags and placing including supply of sutli and EC Bags etc,as per specifications and direction of E/I				
			Unit=Per Bag				

			Taking Out put:- 750 Bags			
			Unskilled mazdoor for filling sand into bags and sewing	Nos	15	304	4560.00
			Sutali	Kg	3.75	19.75	74.06
							4634.06
			Rate Per Bag				6.18
		D	Labour rates for carrying filled E.C Bags				
			Unskilled mazdoor for carring filled bags and placing to work site	Nos	22.5	304	6840
			Rate Per Bag				9.12
			Total(A+B+C+D)				33.67
			Add Overhead charge 12 %				4.04
			Rate	No			37.71
			Say Rs	No			37.70

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Inspection Report of Flood Damage work

Name of PIUs:- RWD Works Division, Benipur

Name of Block/Road:- Ghanshyampur/To, Kanhya to Mushari.

A. For Road

1. Damage Location Chainage:- 3.0 km
2. Damage Length :- 48.0m
3. Nature of Damage :- Road crust & Flanks.
4. Details of Restoration Works
   i. Material being used in Restoration works:- Brick-bats, Bamboo
   ii. Equipment's /Tools being used in Restoration works:- Tractor & JCB
   iii. Procedure taken up in Restoration works:- filling & Levelling.
   iv. Restored Length:- 48.0m.

B. For Bridge

1. Damage Location Chainage:-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration Works
   i. Material being used in Restoration works:-
   ii. Equipment's /Tools being used in Restoration works:-
   iii. Procedure taken up in Restoration works:-
   iv. Restored Length:-

N/A

work found satisfactory.

Signature of JE/AE/EE

Signature 14/12/21
(Name of Inspection) BL