

DETAILED ESTIMATE FOR MOTORABLE WORK

Name of Work :- Motorable work of Aalapur to Baikuthpur Road

Length:- 3.450 Km

Sl No.	Description of Item	Chainage		No.	Length (M)	Avg. width (M)	Avg. Depth (M)	Qty	Unit	Unit rate (in Rs.)	Amount
		From	To								
1	Providing brick bats filled in ditches including all cost of material and labour in all respect complete the job as per direction of Engineer in Charge.	30	50	1	6.10	2.30	0.22	3.04	Cum		
		200	250	1	5.00	4.50	0.25	5.63	Cum		
		400	450	1	27.60	2.60	0.30	21.53	Cum		
		750	800	1	3.50	2.80	0.30	2.94	Cum		
				1	12.10	3.50	0.40	16.94	Cum		
		810	840	1	13.80	5.40	0.35	26.08	Cum		
		1000	1050	4	4.50	3.80	0.50	34.20	Cum		
		1500	1550	1	3.50	4.00	0.45	6.30	Cum		
		2510	2550	1	6.80	3.75	0.60	15.30	Cum		
		2910	2940	1	5.50	3.30	2.40	43.56	Cum		
		3300	3350	1	4.80	4.20	2.50	50.40	Cum		
				1	6.70	3.50	1.60	37.52	Cum		
				1	7.00	6.50	1.10	50.05	Cum	2411.11	756148.00
							Total Qty	313.48	Cum	2427.65	761031.46
2	Earthwork in excavation for foundation of structure upto 3.0 m depth as per specification and direction of Engineer in charge.	2900	3000	1	9.10	2.10	1.30	24.84	Cum	260.59	6473.84
3	Providing and laying 1000 mm dia NP-3 hume pipe culvert in single row but excluding excavation	2900	3000	3	2.50			7.50	RM	2733.00	20501.00
										3707.00	27802.50
										Total cost of Rs.	78313.95
										Add labour cess 1%	7831.70
										Say Rs.	86145.65

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E.E.

Technically Approved for Rs 7.910 Lac (Rupees Seven Lac Ninety one Thousand) only

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13/10/20
Superintending Engineer
R W D Work, Circle-Siwan

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11/10/2021

7909552
Say Rs 7.910 Lac

MOTORABLE WORK OF AALAPUR TO BAIKUNTHPUR ROAD

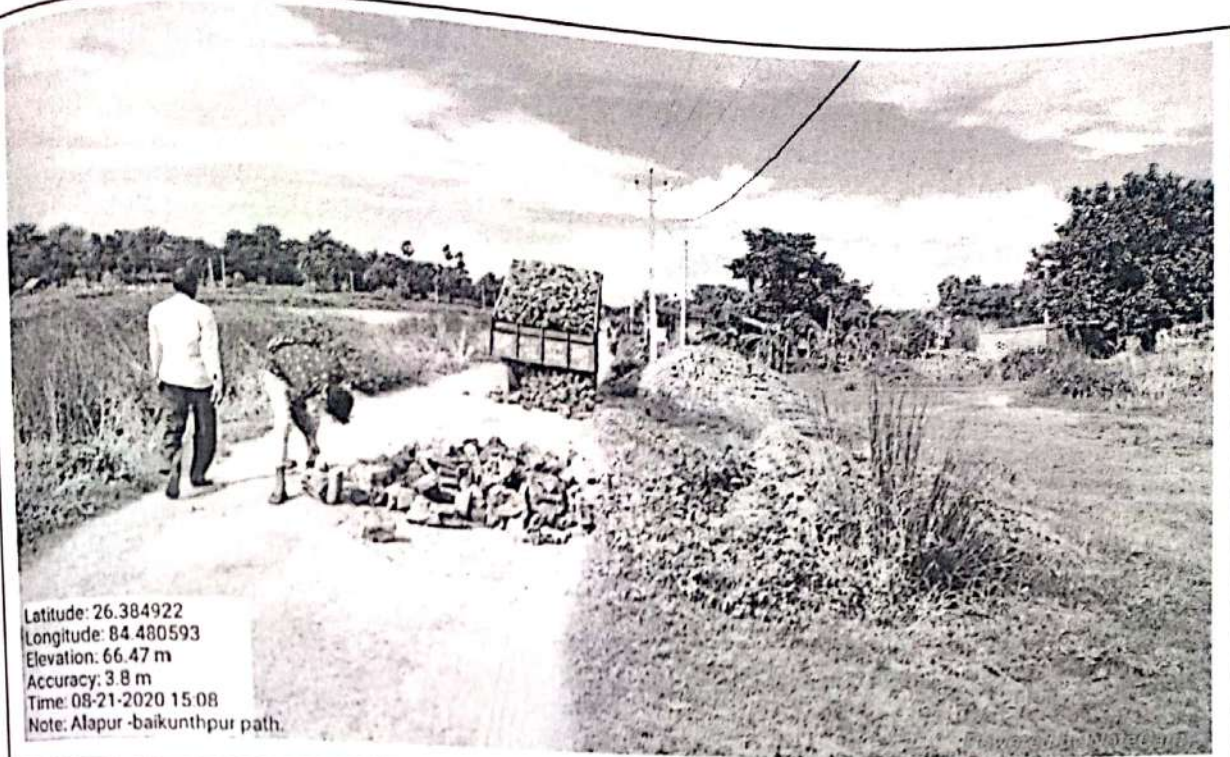


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MOTORABLE WORK OF AALAPUR TO BAIKUNTHPUR ROAD



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MOTORABLE WORK OF AALAPUR TO BAIKUNTHPUR ROAD



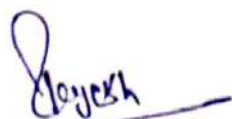
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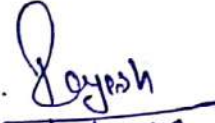
PROVIDING AND PLACING SAND BAGS

Ref. RCD SoR (12.9)	Labour for Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/L.				
	Unit :- Per Bag				
	Taking Output = 750 Bag				
	Unskilled Mazdoor	Nos.	15	287.00	4305.00
	Add 6% Overhead Charges				258.30
	Rate for 750 Bag				4563.30
	Mazdoor Rate per Bag (Rs.) -				6.08
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
	(iii) Katcha Track				
	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	1.000	549.10	549.10
	Time taken for empty return trip	hour	0.667	549.10	366.25
	b) Overhead charges @ 0.06 on (a)				54.92
	Cost for 36 t.km =				970.27
	Rate per t.Km =				26.95
	Say Rs. -				26.95
1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum				
	Placing Tractor at loading point, loading with frontloader, dumping, turning for return trip, excluding for 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		


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1.1 RCD	Loading and Unloading of Stone Boulder/ Stone aggregates/Sand /Kanker/Moorum			
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	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
	Mazdoor for loading and unloading	day	0.72	287.00
	b) Machinery			
	Tractor 3.60 tonnes capacity	hour	0.1	549.10
	Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.083	1403.00
	c) Overhead charges @ 0.06 on (a+b)			23.23
	Cost for 2.25 cum = a+b+c			410.38
	Rate per cum = (a+b+c)/ 2.25			182.39
Note:-	Unloading will be done manually.			
1.	Providing Brick filling in ditches including all cost of labour and materials			
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 x 17.25) + (1.6 x 1 x 21.55) + 182.39			410.07
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)			383.15
D.	Contractor profit @ 10 % on (A+B+C)			187.12
	Total (A+B+C+D) -			2058.36
	Add 1% Labour Cess (A+B+C)			20.58
	Add 12% GST (A+B+C)			247.00
	Add 10% cost of Material for Seigniorage Fee	1	101.70	101.70
	Total Cost per Cum		Rs.-	2427.65


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	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	Providing empty cement Bag filled with local sand stiching, placing on proper place with all respect.				
A.	Basic Rate of Sand Bag	Per Bag		8.46	8.46
	Add overhed Charges		6%		0.51
	Total -				8.97
	1 No. Cement Bag filled with 40 Kg. / 1.2 CuFt Sand				
	Conversion factor: 1 m3 = 35.3146667 ft3				
	1) Cubic Meter = Cubic Foot / 35.3146667				
	2) Cubic Meter = 1.2 / 35.3146667				
	3) Cubic Meter = 0.034				
	Hence 1 No. Sand Bag Filled with 0.034 Cum Sand				
	Surface Lead	KM	2		
	Katcha Lead	KM	1		
	Factor (3.6/2.25)	Cum	1.60		
B.	Carriage (with OH)				
	(1.6 x 2 x 17.25) + (1.6 x 1 x 26.95) + 182.39				280.71
	Cost of Carriage of Sand in Filling of one Sand Bag				
			280.71	0.034	9.54
C.	Cost of Labour for Filling Sand Bag, Stiching and Placing (with OH)				6.08
D.	Contractor Profit @10% on (A+B+C)				2.46
	Total (A+B+C+D) -				27.05
	Add 1% Labour Cess (A+B+C+D)				0.27
	Add 12% GST (A+B+C)				3.25
	Add 10% cost of Material for Seigniorage Fee		0.034	14.19	0.48
				Rs.-	31.04
	Total Cost per Bag				


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PROVIDING AND PLACING SAND BAGS

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	Say Rs. -			17.25
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	iv) Waiting time, unforeseen contingencies etc		0 Min	
			6 Min	
	Total			


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03

Inspection Report For Flood Damage Work

Date :

1 Name of PIUs : E.E, R.W.D, Works Division, Gopalganj-2

2 Name of Block/Road : Manjha / Aalapur to Baikunthpur Road

A For Road

1 Damage Location / Chainage : HP Culvert and Road Crust.

2 Damage Length : 106.90 M

3 Nature of Damage: Culvert Damage and Road Crust

4 Details of Restoration Works:

i. Material being used in Restoration Works: Brick Bats, Earth work, Hume pipe

ii Equipments / Tools being used in Restoration Works : JCB, Tractor, Manpower

iii Procedure taken up in Restoration Works: As per SOP

iv Restored Length: 106.90 M

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 Equipments / Tools being used in Restoration Works :

iii Procedure taken up in Restoration Works:

iv Restored Length :

Sanjit Singh
23/09/2020
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13/12/2020
Signature
(Name of Inspector)

STATEMENT OF CASE

Name of Work :- Motorable work of Aalapur to Baikuthpur Road


Estimated Cost :- Rs. 803261.00

Length:- 3.450 Km


Description:- The estimate has been framed under the supervision of Assistant Engineer in accordance with the order of Executive Engineer, RWD Work Division Gopalganj – 2, letter No. -1574 dated 18.08.2020. The part of above mentioned road has been damaged due to heavy rain /flood and due to this reason damage the transportation facility has been obstructed. The immediate Motorable work is necessary to public interest. Villagers and transport facility will be benefitted by the completion of this Motorable work.

In the Estimate there has been a provision of repairing the damaged part of the road & making it Motorable by filling of Brickbats etc. In the context of post flood scenario there is still the flow of water which prevails through the damaged part of road.


In this estimate the rate of raw material and labour wages has been prepared after the analysis of new rate. This estimate is as per the specifications. The estimate is submitted for technical and administrative acceptance.


23/09/2020

J.E.


23-9-2020

A.E.


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