Inspection Report for Flood Damage Work

Date: 09

1. Name of PIUs RWD, works Division, Gopalganj-2
2. Name of Block/Road - Sidhwalia NH101 to Lohartola via Lalatola

A. For Road

1. Damage Location/Chainage : 530M.
2. Damage Length : 22.0M
3. Nature of Damage : Road washout
4. Details of Restoration Works :
   - i. Material being used in Restoration works : Brick bats, Sand, Jillinge bag, Hume pipe
   - ii. Equipments/Tools being used in Restoration works: JCB, Tractor with Trolly
   - iii. Procedure taken up in Restoration works :
   - iv. Restored Length : 22.0M

B. For Bridge

1. Damage Location/Chainage :
2. Damage Length :
3. Nature of Damage :
4. Details of Restoration Works :

NA

   - 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

NA

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Signature
Executive Engineer
(Name of Inspector) RWD, WD
Hathua

ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FLOOD DAMAGED REPAIR (F.D.R)

STATE :- BIHAR
DISTRICT :- GOPALGANJ
BLOCK :- SIDHWALIA

NH 101 to Lohar tola via Lala Tola

ESTIMATED COST RS 507740.00

SUBMITTED BY:
EXECUTIVE ENGINEER
RWD (W) DIVISON -
GOPALGANJ - 2

Report.

Name of work :- NH 101 to Lohar tola via Lala Tola

Estimated Cost :- Rs 507740.00

Total length of road :- 1.80 KM

Description :- The present estimate has been framed under the supervision of Assistant engineer in accordance with the order of Executive Engineer , RWD , WD 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 damage the transportation has been obstructed . The immediate motorable work is necessary in public interest . Villagers 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 brickbats . In the context of post flood scenario there is still the flow of water which prevails through the damaged part of road . There has been a provision of putting 600 MMD Hume pipe in a single raw . There has also been a provision of filled sands in the empty cement packets , and after putting those sand bags along the borders of road . This provision has a purpose to put a check on the erosin of embankment of road .

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

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Detailed Estimate For Motorable Work in road from NH 101 to Lohar tola via Lala Tola damaged due to Heavy rain / Flood for Year . 2020-2021

Sr.	Items	no.	L (M.)	W M.)	D (M.)	Qty.	unit	rate	Amount
1	Providing brick bats billed in ditches including all cost of Labour & Material with all complete job .								
	CH- 530 M	1	6.00	5 + 8/2	1.50	58.50	M^3		
		4	4.00	1.60	1.00	25.60	M^3		
						84.10	M^3		
	Less Of H.P.	0.79	0.83	0.83	5.00	2.72	M^3	2412.11	196298.20
						81.38	M^3	~~2427.65~~	~~197559.35~~
2	Providing Empty Cement Bag billed with local Sand Stiching placing on proper place with all cost of lab & Material & all Complete Job								
		1	6.00	5.00	1.00	30.00	M^3		
		4	3.00	1.40	1.00	16.80	M^3		
		2	100.00	1.40	1.00	280.00	M^3		
						326.80	M^3	29.74	285980.20
	No. of Bags 326.80.24x35.3/1.20					9616.00	Bags	~~31.04~~	~~298480.64~~
3	Providing & Laying 600 MM Dia Np3 Hume Pipe in Single row -do do- complete job	2	2.50			5.00	per	2058.38 ~~1335.69~~	102922.00 ~~6678.45~~
								49257	~~502718.44~~
	Add 1% contigency							4926	~~5027.18~~
								Total	~~507745.62~~
								Say	~~507740.00~~

Rs : 4974962

Say Rs. 4.975 Lac

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Technically Approved for Rs 4.975 Lac (Rupees Four Lac Ninety Seven Thousand & Five Hundred) only

24/11/20
अधीक्षण अभियंता

24/11/20

1	**Providing brick bats billing in ditcel including all cost of labour & materal**				
A.	Basic Rate of Brick Bats (RCD SOR)	Per Cum		1017.00	1017.00
	Add Royality (450 Bricks/Cum)		450	0.000	0.00
	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 7x 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				20.58
	Add 12% GST				247.00
	Add 10% cost of Material for Seigniorage Fee		1	101.70	101.70
	Total Cost per Cum			**Rs.-**	**2427.65**
2	**Providing Empty Cement Bag billed with local Sand Stiching placing on proper place with all cost of lab & Material & all Complete Job**				
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, Stitching 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				0.27
	Add 12% GST				3.25
	Add 10% cost of Material for Seigniorage Fee		0.034	14.19	0.48
	Total Cost per Bag			**Rs.-**	**31.04**

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
	c) Contractor's profit @ 0.1 on (a+b)				0.00
	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 0.8	hour	0.833	549.10	457.40
	Time taken for empty return trip hour 0.500 521.0	hour	0.500	549.10	274.55
	b) Overhead charges @ 0.06 on (a)				43.92
	c) Contractor's profit @ 0.1 on (a+b)				0.00
	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/Bricks Bats**				
	Placing Tractor at loading point, loading with frontloader, dumping, turning for 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.				

600	**Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row**				
	600 MM DIA				
	Unit =m				
	Taking output =7.5 m				
	(3 pipes of 2.5 m length each)				
	a) Material				
	iii) RCC pipe NP 3 pipe including collar at site	m	7.50	864.60	6484.50
	b) Labour				
	Mate	day	0.04	293.00	11.72
	Mason (1st class)	day	0.12	372.00	44.64
	Mazdoor (Unskilled)	day	0.96	287.00	275.52
	Material				
	600 MM Dia NP_3 Hume Pipe 7.50 Meter				
	Carriage Cost 8/25x17.25x52 Km				287.04
					7103.42
	Add over Head Charge @6.0%				426.21
					7529.63
	Add 10% C.P.				752.96
					8282.59
	Hence Cost For 1.00 Meter Rs 8282.58/7.50				1104.34
	Add 1% Labour Cess				11.04
					1115.38
	Add 12% for GST				133.85
					1249.23
	Add 10% cost of Material for Seigniorage free				86.46
					1335.69
	Total Cost per meter				**1335.69**

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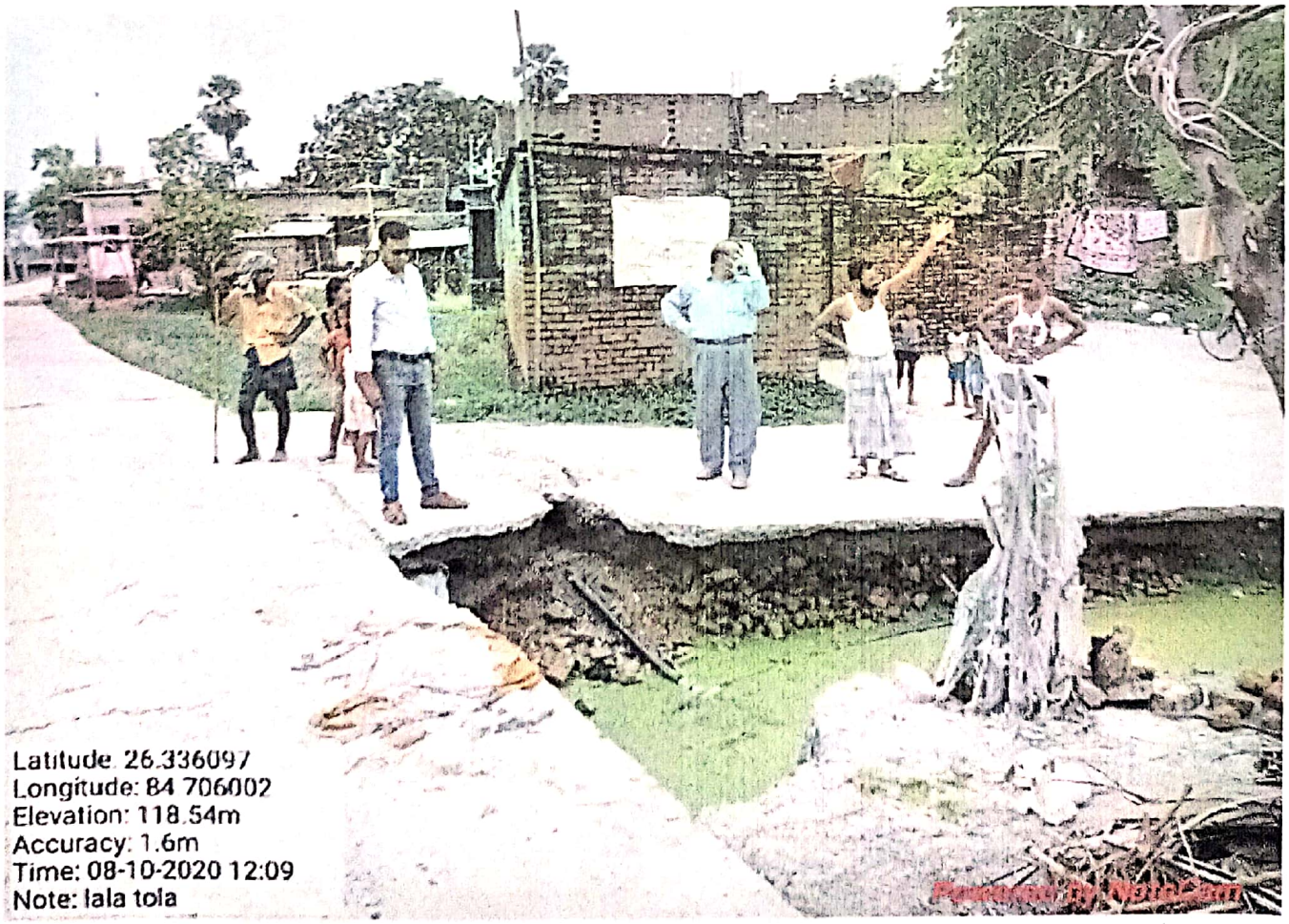
NH 101 to Lohar tola via Lala Tola



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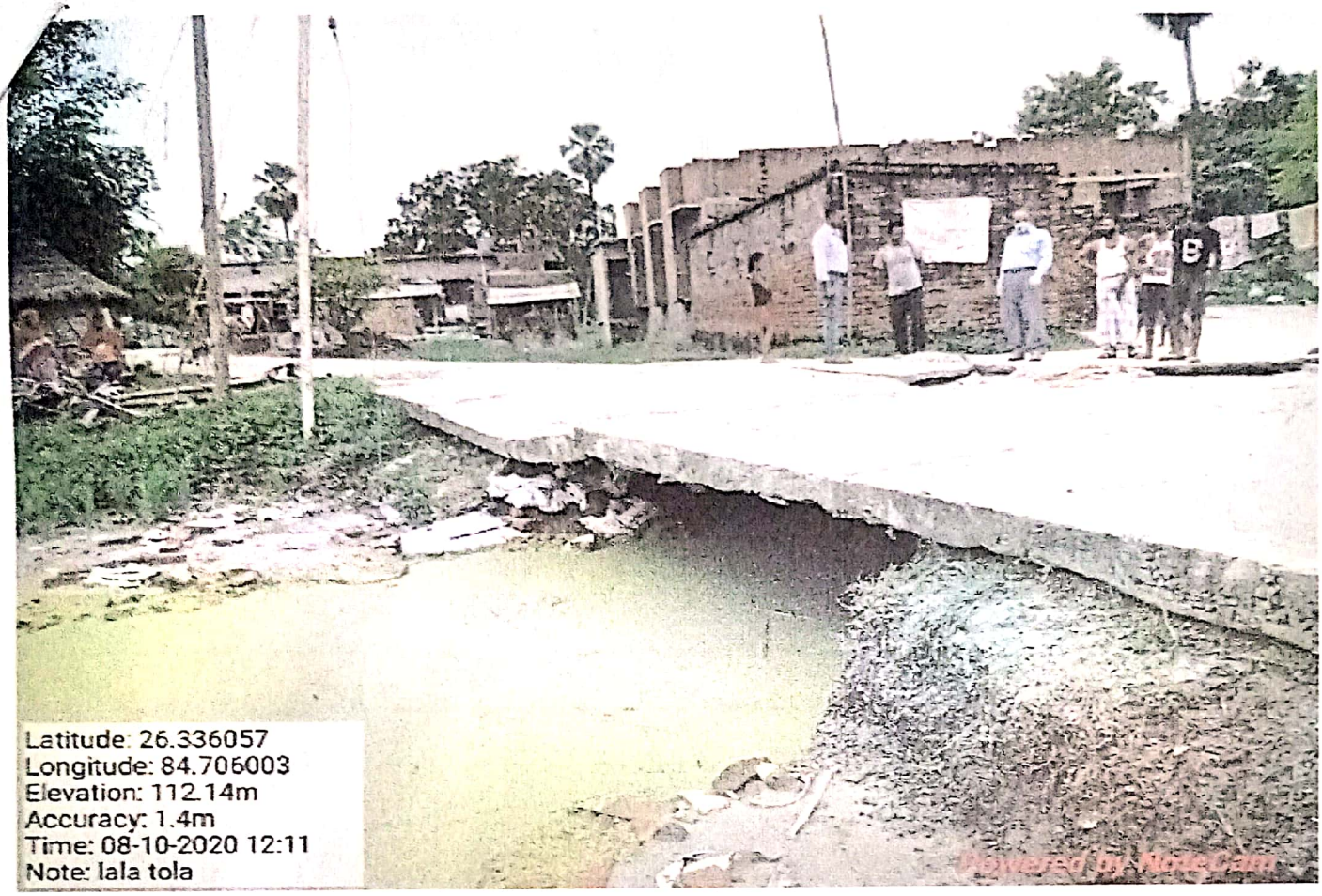

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