RURAL WORKS DEPARTMENT

GOVT OF BIHAR

ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

NAME OF WORKS :- Construction of Road Supaul Prakhandantergat Chakma Sima to Dighiya Sima Tak

BLOCK :- Supaul

FDR

23,53,888

YEAR(2024-25)

R.W.D., WORKS CIRCLE, MADHEPURA

R.W.D., WORKS DIVISION, SUPAUL

प्रतिवेदन

पथ का नाम :– सुपौल प्रखण्ड अन्तर्गत चकमा सीमा से दिंधिया सीमा तक

कार्य का नाम :–

में बाढ से क्षतिग्रस्त भाग में यातायात चालू करने का कार्य।

संलग्न प्राक्कलन 2024 को प्रखण्ड में आयी भीषण बाढ से क्षतिग्रस्त सुपौल प्रखण्ड अन्तर्गत चकमा सीमा से दिंधिया सीमा तक में बाढ क्षतिग्रस्त मरम्मति मद से यातायात चालू करने हेतु तैयार किया गया है जिसकी प्राक्कलित लागत ₹ 2353888=00 है। उक्त पथ का निर्माण NABARD योनान्तर्गत हुआ है [illegible]।

पथ के कटे (क्षतिग्रस्त) भाग में आवश्यकता अनुसार Hume Pipe, Bamboo, लोकल बालू एवं Brick Bats देने के बाद यातायात चालू कराया गया है। पथ के विभिन्न हिस्से में कराये गये कार्य का विवरणी स्पष्ट रूप से प्राक्कलन में दर्शाया गया है।

प्राक्कलन मदो का दर वर्त्तमान अनुसुचित दर के अनुरूप है।

10-11-2024

कनीय अभियंता,
ामीण कार्य विभाग,
कार्य प्रशाखा, ...।

10.11.2024

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल, सुपौल।

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, सुपौल)

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- R.W.D. Supaul.

Name of Block Road :- Supaul./Supaul Prakhandantergat Chakma Sima to Dighiya Sima Tak

A. For Road

. Damage Location/Chainage :- 2480.0K.M, 2500.0K.M, 2.550K.M, 2.600K.M, 2.650, 2.680K.M

. Damage Length :- ~~2480M~~, 71.50M

. Nature of Damage (Length Wise)
- (i) Breach :- fully Breach
- (ii) Crust Damage :- yes
- (iii) Only Flank Damage :-

hether traffic fully/Partialiy obstructed :-

. Details of Restoration :-

) Material Being Used in Restoration :- Brick bats

i) Equipment/Tools Being Used in Restoration Works :- Tractors & etc,

ii) Restored Length - 71.50M
- In open Area :- 71.50M
- In habitation Area :-

v) If Restoration work done in habitation Area give Reason :-

. For Bridge (Size of Bridge/Culvert)

) Damage Location/Chainage :-

2) No. of Span Damage :- N/A

3) Length of Span :- N/A

4) Nature of Damage (Pier/Abuttment/ Ving Wall/Approach Road Damage) :- N/A

5) Details of Restoration :- N/A

) Material Being Used in Restoration :- N/A

i) Equipment/Tools Being Used in Restoration Works :- N/A

ii) Restored Length :- 71.50M

verall Grade of Restoration work (Satisfactory/Unsatisfactory) :- Satisfactory

14-11-2024

14.11.2024
AE

12.11.24

Signature of Inspector
(Official Seal)

Executive Engineer
Rural Works Department
Works Division Udakishunganj

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :-	Construction of Road Supaul Prakhandantergat Chakma Sima to Dighiya Sima Tak
DISTRICT :-	Supaul
BLOCK :-	Supaul
Length of Road:-	2.780KM
Length of Cutting in mtr :-	71.50

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	Supply and Carriage of brick bats	~~1650565.84~~ 18,67,406:00
2	Supply,laying and carriage of 1000 mm HPC	18345.60
3	Drone videography Three times	15000.00
	SUB TOTAL COST = 19,00751=00	
	ADD GST @18% = 339,435=00	
	Add Labour cess @ 1%= 18857=00	
	Seigniorage Fees @10% = 94,845=00	
	TOTAL (RS.) = Rs= 23,53,888=00	

10/11/2024
J.E

10.11.2024
A.E

10.11.24

E.E

~~Technically Sanctioned for Rs- 3:,04,396=00 (:: ;; two lakh four thousand three~~ Approved hundred Ninety Six only)

S.E

Technically Approved for Rs. 23,53,888=00 (Twenty three lacs fifty three thousand eight hundred eighty eight rupees only)

14.11.24

Superintending Engineer
Rural Works Department
Works Circle Madhepura

ESTIMATE FOR REPAIRING / RESTORATION/ MAKING MOTORABLE ROADS DAMAGED DURING FLOOD

NAME OF ROAD :-	**Construction of Road Supaul Prakhandantergat Chakma Sima to Dighiya Sima Tak**								
DISTRICT :-	**Supaul**								
BLOCK :-	**Supaul**								
Length of Cutting:-	**71.50 mtr**								
Sl. No.	**DESCRIPTION OF ITEMS**	**Unit**	**Nos.**	**L(m)**	**B(m)**	**D(m)**	**QUANTITY**	**RATE (Rs.)**	**AMOUNT (Rs.)**
1	**Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.**								
	At ch:-2.480km	cum	1	10.00	(5.5+4.5+4.5)/3	(2.45+3.6+1.85)/3	127.28		
	At ch:-2.500km	cum	0	6.00	2.25	0.55	0.00		
	At ch:-2.550km	cum	1	13.00	(3+3.5)/2	(0.75+0.86+0.55)/3	30.42		
	At ch:-2.600km	cum	1	15.50	(5+6.5)/2	(3.5+4)/2	334.22		
	At ch:-2.650km	cum	1	9.00	(5.5+4.5+4.5)/3	(2.75+3.35)/2	132.68		
	At ch:-2.680km	cum	1	18.00	(5.5+4.5+5)/3	(3+3.5)/2	292.50		
	Deductionfor H.P 1000MM dia (1.23 x 1.23)=1.52	cum	1	0.79	1.52	5.00	6.00		
		cum	total qty :-				911.09	2,049.64	1867406.00

2	Supplaying and carriage of hume pipe 1000 mm dia , all complete job.								
	At ch-1500m	RM	1	2	2.5		5		
		RM	total qty :-				5.00	3,669.12	18345.60
							A) SUB TOTAL =		1885751.60
							TOTAL COST =		1885751.60

10.11.2024
Junior Engineer

10.11.2024
Asstt. Engineer

10.11.24
Executive Engineer

S.E
Madhepura

Calculation of Seigniorage Fees

NAME OF ROAD :-	Construction of Road Supaul Prakhandantergat Chakma Sima to Dighiya Sima Tak
DISTRICT :-	Supaul
BLOCK :-	Supaul

Sl. No.	DESCRIPTION OF ITEMS	QUANTITY	Unit	RATE (Rs.)	AMOUNT (Rs.)
1	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.	911.09	cum	1041.00	948445.00
			A) SUB TOTAL =		948445.00
	Seigniorage Fees @10% of Basic Amount =				94845

10-11-2024
J.E

10.11.2024
A.E

10.11.24
E.E

Analysis for Carriage by Road & Rail

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km																Loading & Unloading Cost	Carriage Cost by Rail Head	Total
				Pucka / Surface								Katcha										
1	Local Sand	Cum	Local	8.00 4.99	x	7.47	x	2.00 Km	=	Rs 23.95		8.00 4.99	x	17.82		1.00 Km	=	Rs 28.57		104.88		Rs. 157.40
2	Brick	1000 Nos	Local	8.00 2.00	x	7.94	x	7.00 Km	=	Rs 222.32		8.00 2.00	x	19.22		1.00 Km	=	Rs 76.88		417.46		Rs. 716.66
3	Hume Pipe (1000 mm)	m	Karjain	8.00 10.00	x	7.94	x	106.00 Km	=	Rs 673.31		8.00 10.00	x	19.22		0.00 Km	=	Rs 0.00		73.32		Rs. 746.63
4	Hume Pipe (600 mm)	m	Karjain	8.00 25.00	x	7.94	x	106.00 Km	=	Rs 269.32		8.00 25.00	x	19.22		0.00 Km	=	Rs 0.00		31.42		Rs. 300.74
5	Hume Pipe (300 mm)	m	Karjain	8.00 60.00	x	7.94	x	106.00 Km	=	Rs 112.22		8.00 60.00	x	19.22		0.00 Km	=	Rs 0.00		31.42		Rs. 143.64
6	Brick Bats	Nos.	Local	3.60 2.25	x	18.64	x	7.00 Km	=	Rs 208.80		3.60 2.25	x	66.03		2.00 Km	=	Rs 211.30		227.60		Rs. 647.70

10-11-2024

J.E

10.11.2024

A.E

10.11.24

E.E

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	11.70	7.94
Unsurface Gravel Road	14.00	9.55
Kachha Road	28.20	19.22

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by	Per Ton. Km by Tractor
For Surface Road		18.64
Unsurface Gravel Road		23.29
Kachha Road		66.03

Summary of Carriage Cost

Sl. No.	Particulars	Unit	Amount
1	c) Local sand	Cum	157.40
2	d)Local Sand at Site	Cum	300.72
3	Geo Bags	Nos.	238.20
4	a) Hume Pipe NP 3 (600 MM DIA)	m	300.74
5	b) Hume pie (600 dia) at site	m	2875.55
6	a)Hume Pipe NP 3 (1000MM DIA)	m	746.63
7	b)Hume Pipe NP 3 (1000MM DIA) at site	m	3504.85
8	Brick	per 1000	716.66
9	Brick Bats/Jhama metal	Cum	647.70

10-11-2024
Junior Engineer

10.11.2024
Assistant Engineer

10.11.24
Executive Engineer

BASIC RATES

(A) Labour

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	373.00
L-02	Bitumen Sprayer	day	393.00
L-03	Blacksmith	day	503.00
L-04	Blaster	day	619.00
L-05	Carpenter 1st Class	day	503.00
L-06	Carpenter 2nd Class	day	503.00
L-07	Chips spreader	day	449.00
L-08	Chiseller	day	577.00
L-09	Dresser (Skilled)	day	472.00
L-10	Driller	day	449.00
L-11	Electrician	day	503.00
L-12	Fitter	day	511.00
L-13	Mason (1st class)	day	503.00
L-14	Mason (2nd Class)	day	449.00
L-15	Mate	day	397.00
L-16	Mazdoor (Unskilled)	day	373.00
L-17	Mazdoor (Semi skilled)	day	388.00
L-18	Mazdoor (Skilled)	day	472.00
L-19	Painter (1st class)	day	476.00
L-20	Plumber	day	476.00
L-21	Surveyor	day	454.00
L-22	White Washer	day	476.00

Basic Rate of Material

Sl. No.	Ref. Code No.	Description of Labour	Rate (Rs.)	Unit
1		Filling E.C. Bags	629.20	%nos.
2		Placing E.C Bags	911.00	%nos.
3		Filling E.C Bags and Placing	1553.80	%nos.
4		Filling Geo. Bags	26.40	each
5		Placing Geo Bags	34.30	each
6		Filling Geo Bags and Placing	81.00	each
7		Filling E.C Bags and Placing in N.C	388.50	each
8		Filling E.C Bags and Placing in B.A.Wire Crates	1243.00	each
9		Filling Geo Bags and Placing in N.C	364.20	each
10		Filling Geo Bags and Placing in B.A.Wire Crates(Beggy)	1638.90	each
11		Filling Geo Bags and Placing in B.A.Wire Crates(Box))	2003.10	each
12		Filling Geo Bags and Placing in Gabbin 1.8x1.8x0.5	1092.60	each
13		Filling Geo Bags and Placing in Gabbin 1.8x1.8x0.6	728.40	each
14		Already Filled E.C Bags Placing in N.C	231.15	each
15		Already Filled E.C Bags Placing in B.A.Wire crates	739.68	each
16		Already Filled Geo Bags Placing in N.C	205.80	each
17		Already Filled Geo Bags Placing in B.A.Wire Crates(Beggy)	926.10	each
18		Already Filled Geo Bags Placing in B.A.Wire Crates(Box))	1131.90	each
19		Already Filled Geo Bags Placing in Gabbin 1.8x1.8x0.5	617.40	each
20		Already Filled Geo Bags Placing in Gabbin 1.8x1.8x0.6	411.60	each
21		Supply of bamboo 75mm dia	162.70	each
22		Carriage of bamboo 75mm dia lead 5km us	8.70	each
23		Supply of bamboo 100 mm dia	173.70	each
24		Carriage of bamboo 100 mm dia lead 5km us	9.30	each
25		Supply of binding wire	75.04	Kg
26		Laying of porcupine Without boat	834.80	each
27		Laying of porcupine with boat	877.90	each
28		Bamboo pilling with jet pump	38.20	each
29		Tree spur	358.00	each
30	M-189	Water	56.20	KL
31	e(ii)	Brick Bats	1041.00	per cum
32	M-006	Local/Fine Sand	143.32	per cum
33		Nails	55.84	per kg
34	222(i)	Bamboo 75mm dia 6m to 8m long	117.65	each
35	232	Sutali	19.75	per kg
36	M-120	Coarse Sand	494.00	per cum
	M-121	Sand (Fine)	143.32	per cum
37	M-081	Cement	5850.40	per mt
38		HP 1000mm dia NP3	2758.22	per mt
39		HP 600mm dia NP3	2574.81	per mt
40	M-159	Sand Bags (Cost of sand and empty cement bag)	8.46	per nos..
41	275	Old empty cement bag(synthetic)(Annexure-I)	292.00	per %nos.
42	276	Nylon Crate of size 1mx1mx1m	39.85	Each
43	M-017	Aggregate 40 mm	494.15	Cum
44	M-016	Aggregate 20 mm	604.91	Cum
45	M-015	Aggregate 10 mm	668.8	Cum
46	M-047	Cement Primer	115.16	litre
47	M-103	Paint (Synthetic Enamel)	516.42	litre
48	M-150	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	516.42	Cum
49	M-151	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	411.33	Cum
50	M-152	Well Graded Material for Sub-Base - Grading III 2.36 mm below	185.94	Cum
51	M-105	Polythene sheet (125 micron)	14.35	Sqm
52		G.I. wire3.15 mm dia	69.3	per kg
53		Compensation for earth taken from private land	34.81	Cum
54		Stitching Role	30	Nos.

BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY

Sr. No.	Description of		Output of Machine		Usage Rates in Rs.	
	Machine	Activity	Unit	Output	Unit	Rate
PM-008	Dozer - D 175 HP	Dozing cutting	cum/h	200.00	per hour	4,249.00
			cum/h	100.00		4,249.00
PM-013	Hydraulic Excavator 0.9 cum	Excavation	cum/h	100.00	per hour	2,272.00
	Hire Charge of stitching machine		Day	50.00	per Day	50.00
	Hire Charge of Manual Trolly		Day	50.00	per Day	50.00
	Hire Charge of 3KVA generator		Hour	74.00	per Hour	74.00
PM-017	Front end-loader 1 cum bucket capacity	Loading Aggregates	cum/h	25.00	per hour	2,033.00
		Loading Soil	cum/h	60.00		2,033.00
PM-032	Motor Grader	Scarifier & levelling	cum/h	200.00	per hour	4,403.00
	Tractor Mounted Grader			50.00		1,100.75
	Time taken for onward haulage with load		Hour	612.00	per Hour	612.00
	Time taken for empty return trip.		Hour	612.00	per Hour	612.00
PM-033	Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	386.00
PM-035	Paver finisher	Laying/spreading	Cum/h	40.00	per hour	2,141.00
PM-086	Plate compactor	Compaction	cum/h		per hour	469.70
PM-087	Plate vibrator	Compaction	cum/h		per hour	469.70
PM-088	Screed vibrator	Compaction	cum/h		per hour	102.64
PM-044	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	1,978.00
PM-045	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	27,581.30
PM-046	Three wheel 80-100 kN Static Roller	Compaction/ Rolling				1,518.00
		Earth:- Embankment or sub-grade	cum/h	80/70		1,518.00
		Sub-base G-I	cum/h	10.00	per hour	1,518.00
		Sub-base G-II/G-III	cum/h	8.00		1,518.00
		WMM	cum/h	16.00		1,518.00
PM-047	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,426.00
PM-048	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	549.10
PM-049	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	629.00
PM-050	Tractor with trolley/with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	629.00
PM-051	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-052	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.50
PM-053	Vibratory roller 80-100 kN	Compaction of soil WMM	cum/h	100.00	per hour	2,338.00
		Compaction of BM	cum/h	60.00		2,338.00
PM-054	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	752.00
PM-055	Wet mix plant (Pug Mill)	Wet Mix	cum/h	25.00	per hour	1,822.30

Analysis of Rate

Sl No.	SOR No.		Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
			Carriage of materials (By Tractor)				
1	1.4		Cost of Haulage excluding Loading & Unloading				
	RCD		Haulage of materials by Tractor excluding cost of loading, unloading and stacking.				
			Unit =				
			Taking output 3.60 Tonne load and lead 10 km = 36.0 t.km				
			Case-I : Surfaced				
			Speed with load: 15 km per hour				
			Speed while returning empty: 25 km per hour				
			a) Machiner				
			Tractor 3.6 t capacity				
			Time taken for onwards haulage with load	hou	0.667	629.00	419.54
			Time taken for empty return trip	hou	0.400	629.00	251.60
			Total				671.14
			Add OH@12%				-
							671.14
			Rate per Ton.km				18.64
			Case-II: Unsurfaced				
			Speed with load: 12 km/hour				
			Speed for empty return trip: 20 km/hour				
			a) Machiner				
			Tractor 3.6 t capacity				
			Time taken for onwards haulage with load	hou	0.833	629.00	523.96
			Time taken for empty return trip	hou	0.500	629.00	314.50
			Total				838.46
			Add OH@12%				-
							838.46
			Rate per Ton.km				23.29
			(c) Case-III: Katcha Track and Track in River Bed / Nallah Bed and Choe Bed				
			Speed with load : 10 km / hour				
			Speed with returning empty : 15 km / hour				
			(a) Machinery				
			Tipper 10 tonnes or 5.5 cum capacity	hour	1.000	1,426.00	1,426.00
			Time taken for empty return trip	hour	0.667	1,426.00	951.14
			Total				2,377.14
			Add OH@12%				-
			Cost for 36.0 t.km =a+b				2,377.14
			Rate per Ton.km				66.03
2	6.6.1.		Labour for laying Brick bats /dry graded jhama khoa or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete job as per approved design, specification and direction of E/I				
	WRD		Unit = Per Cum				
			Taking output= 2.832 Cum				
			a) Labour				
			Mazdoor (Unskilled)	Nos	3.00	373.00	1,119.00
			b) Overheads @ 12% on (a)				0.00
			Rate for 2.832 Cum				1,119.00
			Rate Per Cum				395.13

3	1.1		Loading and Unloading of Stone Boulder, Stone aggregate ,Sand, Kankar,Moorum , Brick Bats and Sand etc.						
	RCD		Unit = Per Cum						
			Taking output= 2.25 Cum						
			Time required for						
			i)	Positioning of tipper at unloading point		day	1 Min		
			ii)	Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		day	5Min		
			iii)	Maneuvering, reversing, dumping and turning for return			0Min		
			iv)	Waiting time, unforeseen contingencies etc		hou r	0Min		
			Total				6Min		
				a)	Labour				
					Mate	day	0.03	397.00	11.91
					Mazadoor for Loading and unloading	day	0.72	373.00	268.56
				b)	Machinery				
					Tractor 3.6 t capacity	Hou	0.10	629.00	62.90
					Front end loader 1 cum bucket capacity @ 25 cum per	Hou r	0.08	2,033.00	168.74
									512.11
					Add OH@12%				-
									512.11
					Rate per Cum=(a+b+c)/2.25				227.60
			Note:-		Unloading will be done Manually.				
4	9.3	1100	Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row .						
					1000 mm dia Hume Pipe				
					Unit=m				
					Taking Output=7.5 m				
				a	Material				
					Sand at site	cum	0.04	3,293.47	131.74
					Cement at site	ton	0.03	6,427.68	192.83
					RCC pipe NP3 pipe includsing coller at site	m	7.50	3,504.85	26286.38
				b	Labour				
					Mate	day	0.09	397.00	35.73
					Mason (1 class)	day	0.25	503.00	125.75
					Mazdoor(Unskilled)	day	2.00	373.00	746.00
									27,518.42
					Add OH@12%				-
									27,518.42
					Cost for 7.50 m =				27,518.42
					Rate per M=				3,669.12
5			(Providing and laying of brick bats obtained from chimney with machnical means wih all spreading gradding to required slope and compacted at OMC to achieve required density with all completed as per direction of E/I)						
					Taking out put=100 cum				
				a)	Labour				
					Cost of Labour for Pitching and Light	day	1.00	360.94	360.94
				b)	Materials				
					Bricks Bats -Basic Rate Taken From RCD	Cum	1	1041.00	1041.00
					Add:Carriage Charge for Brick bats				647.70
					Total Cost				2,049.64
					NET TOTAL COST PER CUM				2,049.64
					SAY Rs				2,049.64

6	5.7.7		Labour for cutting 62 mm to 75 mm dia sal bamboo piles to size and making shoes and driving etc.complete job as per specification and direction of E / I.						
	WRD		Unit :- Per M						
			Taking Out put:- 30.50 Mtr						
			(Assuming 20 nos. pile sunk 1.525 mtr deep)						
			(a)	Labour					
					Carpenter Gr II	Nos	1.00	503.00	503.00
					Unskilled mazdoor for pilling	Nos	3.00	373.00	1,119.00
									1,622.00
					Overheads @ 12%				-
									1,622.00
									1,622.00
					Rate Per M				53.18
7	5.7.8		Providing 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. wire3.15 mm dia 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)						
				a	Material				
				1	75 mm to 100mm long nail	kg	0.25	55.84	13.96
				2	Bamboo -75mm dia to 62 mm dia				
					Bamboo @75mm = 3050/75 = 40.67				
					Say=41Nosx3.05=125.05M				
					Add for Lower Binder of chachari				
					10x3.75=30.50M				
					Runner @150mmc/c=7x3.05=21.35M				
					Total length of Bamboo=176.9M				
					Total No of Bamboo=176.9/6=30No	No	30	117.65	3529.5
				b	Labour				
					Carpenter Gr II	Nos	1.00	503.00	503.00
					Unskilled mazdoor for pilling	Nos	1.00	373.00	373.00
				Overheads @ 12% on labour charge					-
									4,419.46
					Rate Per M2				475.21
8	5.7.8		Labour for fitting and fixing split bamboo nwoven chachari in position with 20 swg G.I. wire or 75 mm to 100 mm long nails alternatively including cost of G.I. wire3.15 mm dia or nails complete job as per specification and direction of E / I.						
	WRD		Unit :- Per M2						
			Taking Out put:- 9.30 Sqm						
			(Assuming strip of 3.05x3.05 = 9.30 sqm)						
				(a)	Material				
					G.I. wire3.15 mm dia	Kg	0.250	69.30	17.33
				(b)	Labour				
					Carpenter Gr II	Nos	1.00	503.00	503.00
					Unskilled mazdoor for pilling	Nos	1.00	373.00	373.00
									893.33
					Overheads @ 12%				-
									893.33
									893.33
					Rate Per M2				96.06
9	5.7.9		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.						
	WRD		Unit :- Per M						
			Taking Out put:- 30.50 Mtr						

				(a)	Materials				
					Cost of 150 mm long nails	Kg	0.50	55.84	27.92
				(b)	Labour				
					Carpenter Gr II	Nos	0.13	503.00	65.39
					Unskilled mazdoor for pilling	Nos	0.25	373.00	93.25
									186.56
					Overheads @ 12%				-
									186.56
									186.56
					Rate Per M				6.12
10			Supplying bamboo 75 mm dia 6 m to 8 m long at complete job as per specification and direction of E / I.						
					Taking Out put:- 115 nos				
				(a)	Material				
					Supplying bamboo 75 mm dia 6 m to	Nos	115	162.70	18,710.50
					Add:Carriage Charge for				292.22
					Add Labour for laying				395.13
									19,397.85
					Overheads @ 12%				-
									19,397.85
									19,397.85
					Rate Per each Bamboo				168.68
11	5.7.40.1		Labour for filling empty cement bags with local sand, stiching the bags and placing including suppiy of sutli etc. all complete as per approved design, specifications anddirection of E/I						
	WRD		Unit :- Per % nos						
			Taking Out put:- 100 nos						
		(a)	Supplying of Sand bags			Nos	100	8.46	846.00
			Carraige cost for Local sand (100 no. of			cum	3.4	300.72	1022.45
								Total	1868.45
		(b)	For filling & stiching & stacking						
			(a) Unskilled mazdoor for filling sand into bags and sewing			Nos	2	373	746.00
			(b) Sutali			Kg	0.5	19.75	9.88
								Total	755.88
		(c)	Labour rate for Carring & Placing to work site of E.C.Bags						
			(a) Unskilled mazdoor for carring filled bags and placing to work site			Nos	3	373	1119.00
			Total (A+B+C)=						3743.32
			Add overhead chrage @12%						0.00
									3743.32
			Total Net Rs.						3743.32
			Rate per %						37.43
			Sand Each Bag					Say	Rs 37.43
12	5.7.40.2 WRD SOR Page 159		Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I						
			Unit :- Each N.C						
			Taking Out Put = 25 nos. filled E.C. Bags in each N/C						
			Cost of 25 nos of filled E.C.Bags (Vide item no. 5.7.40.1			Nos	25	37.43	935.83
			Rate each						935.83
13			Supply of Nylon Crate of size 1mx1mx1m					39.85	39.85
			Material						
		(a)	Nylon Crate						39.85
		(b)	Add Overhead charge @12%						0.00
			Total (a+b)						39.85
			Rate per nos.						39.85

14	11.2		Sand filling in Foundation Trenches as per Drawing & Technical Specification				
			Unit = Per Cum				
		a	Material				
			Sand(assuming 20 persent voids)	cum	1.20	143.32	171.98
		b	Labour				
			Mate	day	0.01	397.00	3.97
			Mazdoor(Unskilled)	day	0.3	373.00	111.90
							287.85
			Add overhead chrage @12%				0
							287.854
			total=				287.85
			Carraige cost for Local sand				292.22
			Rate per cum				580.07

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10.11.24
Executive Engineer
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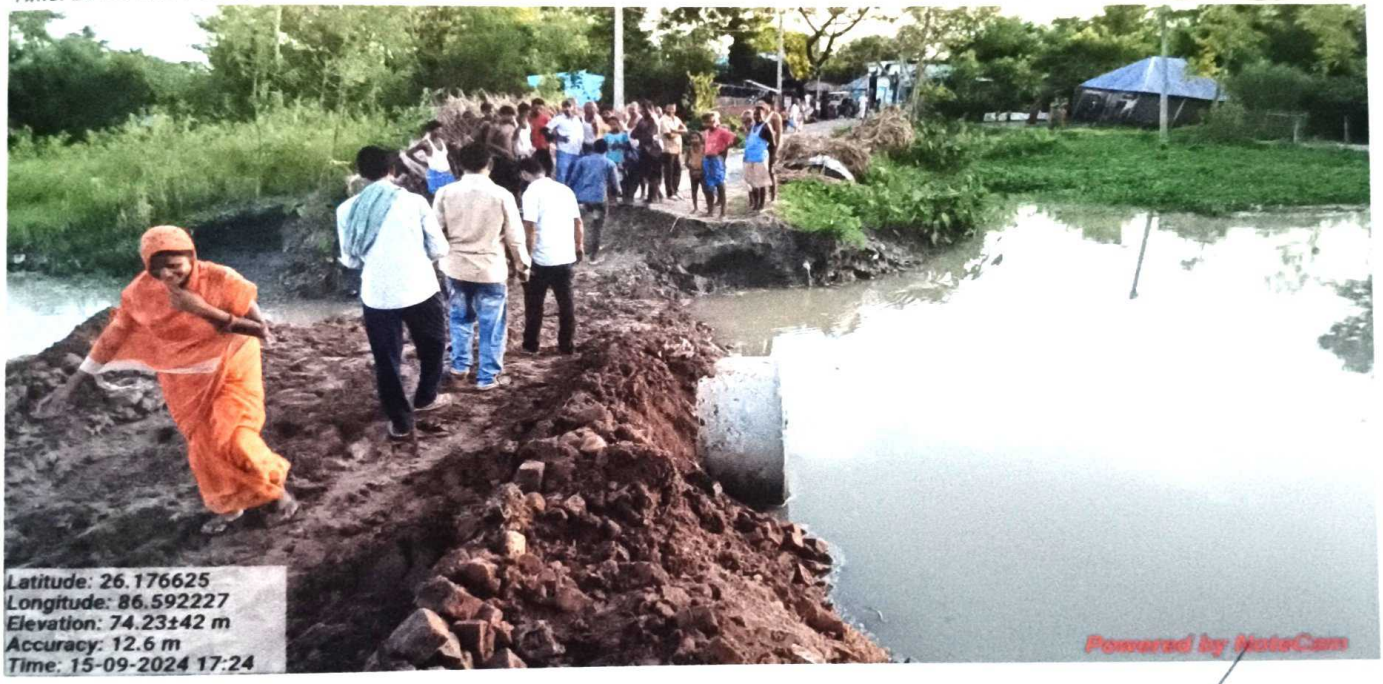

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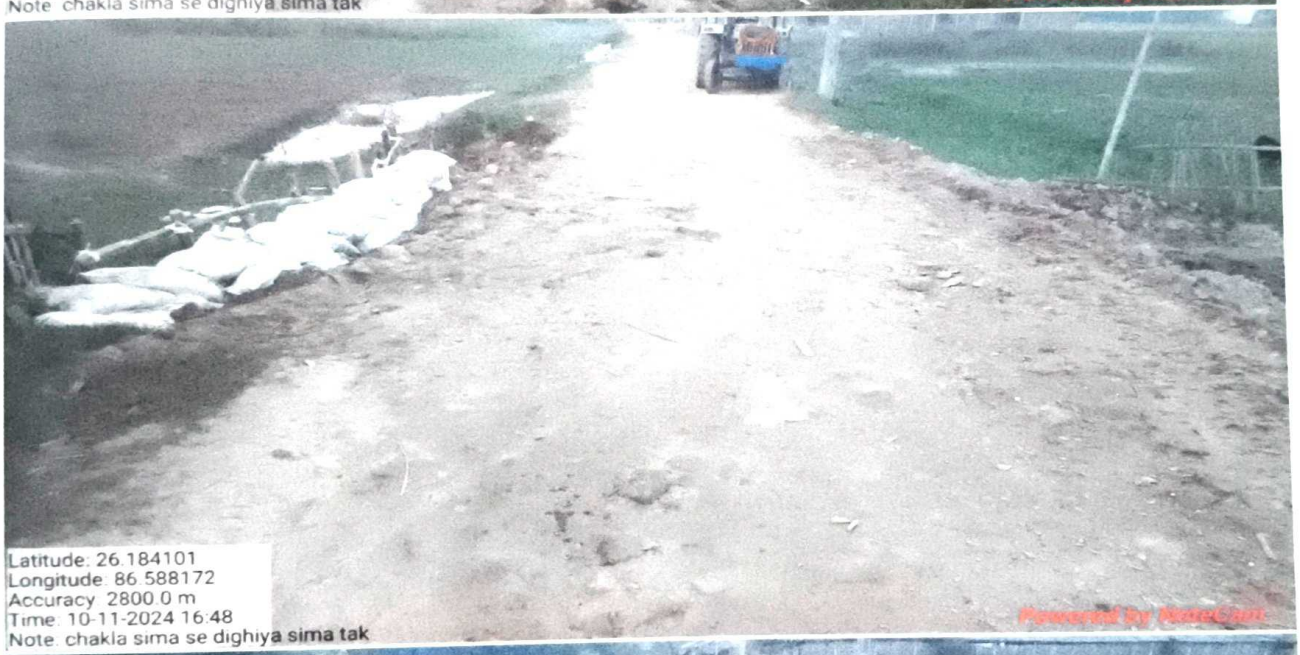

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