



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

DETAILED PROJECT REPORT FOR FDR



Name of the Road :- NH-28 Motipur Chowk . Ajantakot via Bathna Road
(Restoration work of Bharkurwa Ghat HLB Approach Road North Side)

DISTRICT Muzaffarpur

DIVISION Muzaffarpur West

BLOCK Motipur

TOTAL LENGTH OF ROAD	:	3.500	KM
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CONSTRUCTION COST	:	49.879	Lac
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Submitted By :-
Executive Engineer
RWD Work Division, Muzaffarpur West

प्रतिवेदन

शीर्ष :- FDR

योजना का नाम :- NH-28 Motipur Chowk – Anjana Kot Via Bathan Road.

पथ की कुल लम्बाई :- 3.50 कि०मी०

पुनर्स्थापन कार्य की राशि :- रु० 49.879 लाख।

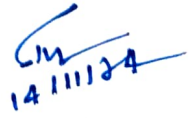
प्रस्तुत प्राक्कलन वर्ष 2024-25 में आयी अतिवृष्टि/बाढ़ के कारण क्षतिग्रस्त एप्रोच की मरम्मत हेतु तैयार किया गया है। उक्त H.L. Bridge (Anjana Kot To Bharkurwa Ghat) पूर्व में शीर्ष राज्य योजना (NABARD) अन्तर्गत बिहार राज्य पुल निर्माण निगम लिमिटेड द्वारा कराया गया था। उक्त पुल के उत्तरी पहुँच पथ में हुए कटाव के फलस्वरूप गंभीर रूप से क्षतिग्रस्त हो जाने के कारण यातायात पूर्ण रूप से अवरुद्ध हो गया था एवं उस पहुँच पथ से होकर किसी भी तरह की आवा-जाही होने के बाद किसी भी अप्रिय घटना होने से इंकार नहीं किया जा सकता था। चूँकि पुल बुढ़ी गंडक नदी पर निर्मित है एवं वर्णित पहुँच पथ के पास नदी के बहाव का मार्ग परिवर्तित होने से पहुँच पथ प्रतिकूल रूप से प्रभावित हो रहा था। उक्त पुल दो जिलों यथा- मुजफ्फरपुर एवं पूर्वी चम्पारण को जोड़ने वाली अति महत्वपूर्ण पुल है। इस संबंध में जिलाधिकारी महोदय, मुजफ्फरपुर द्वारा प्रमंडल को अविलंब क्षतिग्रस्त पहुँच पथ की मरम्मत कराने हेतु आदेशित किया गया, साथ ही साथ बाढ़ नियंत्रण प्रमंडल के पदाधिकारियों को नदी में हो रहे भीषण कटाव को रोकने की दिशा में त्वरित एवं समुचित कार्रवाई करने हेतु भी आदेशित किया गया। तत्पश्चात उक्त आदेश में आलोक में कार्य प्रमंडल, मुजफ्फरपुर पश्चिम एवं बाढ़ नियंत्रण प्रमंडल के पदाधिकारियों के साथ भौतिक रूप से स्थल निरीक्षण करते हुए युद्ध स्तर पर दोनों प्रमंडल द्वारा पुनर्स्थापन एवं कटाव निरोधी कार्य प्रारंभ किया गया एवं क्षतिग्रस्त पहुँच पथ का पुनर्स्थापन कार्य पूर्ण कराया गया। कार्य प्रगति के दौरान जिला आपदा प्रबंधन विभाग के अपर समाहर्ता एवं अन्य प्रशासनिक पदाधिकारियों द्वारा स्थल निरीक्षण भी किया गया एवं जल्द से जल्द कार्य पूर्ण करने हेतु निदेशित किया गया। स्थिति की गंभीरता को देखते हुए प्रमंडल द्वारा इस आशय की सूचना विभाग के सभी वरीय पदाधिकारियों को दिया गया एवं स्थल की स्थिति, हो रहे कार्य एवं किये गये सभी कार्यों का फोटोग्राफ What's App के माध्यम से उपलब्ध कराते हुए वर्तमान स्थिति, किये गये कार्य एवं पूर्ण किये गये।

कार्यों की प्रविष्टि उपर्युक्त परिप्रेक्ष्य में वर्णित स्थितियों एवं तथ्यों के आलोक में किये गये कार्यों की प्रविष्टि NH-28 Motipur Chowk – Anjana Kot Via Bathan Road के नाम से विभागीय MIS में की जा चुकी है एवं कार्य की स्वीकृति हेतु प्राक्कलन तैयार किया गया, जिसमें क्षतिग्रस्त पहुँच पथ एवं नदी के किनारे कटाव को बचाने के लिए Baboo Pilling, Brick Bat, Rabbish एवं Sand Bag का प्रावधान किया गया है। प्रस्तुत प्राक्कलन विभाग द्वारा वर्तमान चालू अनुसूचित दर पर तैयार किया गया है। कार्यों की ड्रोन विडियोग्राफी भी कराई गयी है, जिसे MIS पर अपलोड किया गया है, जिसकी प्राक्कलित राशि रु० 49.879 लाख रुपये मात्र है।

अतः जनहित में प्राक्कलन की स्वीकृति अपेक्षित है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता,
ग्रामीण कार्य विभाग, कार्य प्रमंडल,
मुजफ्फरपुर पश्चिम

Inspection Report for Flood Damage Work

Date :-...../...../2024

1. Name of PIUs :- Executive Engineers RWD Muzaffarpur West
2. Name of Block :- Motipur
3. Name of Road :- NH-28 Motipur Chowk - Anjana'kot via
Bathan Road.

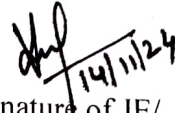
A. For Road

1. Damage Location/Chainage :- North side Approach of Bridge
2. Damage Length :- 30 metre
3. Nature of Damage :- Approach collapse
4. Details of Restoration Works :-

- (i) Material being used in Restoration works :- Brick bats, sand bag, Rabbish, Bambu, piling etc
- (ii) Equipments/Tools being used in Restoration Works :- Tractor, Roller & JCB
- (iii) Procedure taken up un Restoration works :- Departmental
- (iv) Restored Length :- 30 metre

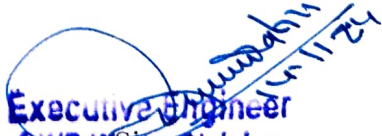
B. For Bridge

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 un Restoration works :-
- (iv) Restored Length :-


Signature of JE/


AE/


EE


Executive Engineer
RWD Works Division
Muzaffarpur East 3
(Name of Inspecting Officer)

GENERAL ABSTRACT

Name of Road NH-28 Motipur Chowk . Ajantakot via Bathna Road (Restoration work of Bharkurwa Ghat HLB Approach Road North Side)
District Muzaffarpur
Block Motipur
Division Muzaffarpur West
Length of Road (in Km) 3.500 Km

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1st wave of Flood		
1	Brick Bats	10.764
2	Sand Filling	3.189
3	Sand bag	0.821
4	Bamboo Piles	0.979
5	bamboo runners	0.010
	Total Cost of 1st Wave of Flood	15.763
2nd wave of Flood		
1	Brick Bats	3.863
2	Sand Filling	0.486
3	Sand bag	29.767
	Total Cost of 2nd Wave of Flood	34.116
1	Brick Bats	14.628
2	Sand Filling	3.675
3	Sand bag	30.588
4	Bamboo Piles	0.979
5	bamboo runners	0.010
	GRAND SUB TOTAL	49.879

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JE

RWD

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14/11/24
AE

RWD

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14/11/24
EE

RWD

Say Rs. 49.88 Lacs

Post facto technical Sanctioned for Rs. 49.88 Lacs
(Rs. forty nine Lacs eighty eight thousand) only

[Signature]
14/11/24
Superintending Engineer
Rural Works Department
Work Circle, Muzaffarpur
[Signature]
15/11/24

Sl. No.	SDB SL NO	MORD Ref. No	Description	Unit	QUANTITY	RATE	AMOUNT (in Rs.)
1			Providing and Laying of Brick Bats Providing laying spreading & compacting Brick Bats including spreading in uniform thickness hand packing (Manual Means)				
			Appendix - I 1st wave of Flod	Cum	860.3	1,251.23	1076433.17
			Appendix - 2nd wave of Flod	Cum	308.76	1,251.23	386329.77
			Total				1462762.94
2			Kiln Rubbish Filling in Kiln Rubbish as per drawing and technical specification Clause 305.3.9				
		11.20	Appendix - II 1st wave of Flod	Cum	676.410	471.41	318866.44
			Appendix - II 2nd wave of Flod	Cum	103.130	471.41	48616.51
			Total				367482.95
3			Sand bag Providing including labour for filling empty cement bag with local sand, stitching the bag and placing including supply of sutali etc. all complete as per approved design, specification and direction of E/				
		WRD 5.7.40	Appendix - III 1st wave of Flod	Nos	2745	29.92	82130.40
			Appendix - III 2nd wave of Flod	Nos	99487	29.92	2976651.04
			Total				3058781.44

Sl. No.	SDB SL NO	MORD Ref. No	Description	Unit	QUANTITY	RATE	AMOUNT (in Rs.)
5		WRD 5.7.7	Labour for cutting and fixing of 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				
			1st wave of Flod				
			225 Nos x 3 mtr	M	1800		
				Total	1,800.00	54.39	97902.00
7		WRD 5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I				
			1st wave of Flod				
			8 Nos x 5 M	M	40		
				Total	40.00	24.02	960.80
				Total Cost 1st wave of Flod :-		1576292.81	
				Total Cost 2nd wave of Flod :-		3411597.32	
				Total Cost of Project:-		4987890.13	

Uday
14/11/2024
AE

14/11/24
JE

14/11/24
EE

Name of Road :-

NH-28 Motipur Chowk . Ajantakot via Bathna Road (Restoration work of Bharkurwa Ghat HLB Approach Road North Side)

Block :-

Motipur

Appendix - I

Measurement for Surfacing the breach Brick Bats								
S. No	Chainage (KM)	Nos	Length (M)	Width (M)	Av. Width (M)	Thickness (M)	Av. Thickness (M)	Quantity (Cum)
1st wave of Flod								
1	RHS (Approach)	1	5.5	$(6.4+7.5+8.1)/3$	7.33	$(7.4+7.8+9.5)/3$	8.23	331.79
2	LHS (Approach)	1	6.54	$(8.8+6.4)/2$	7.6	$(5.8+6.9)/2$	6.35	315.62
3	RHS (Flank)	1	22.5	$(5+7.8+6.5)/3$	6.43		1.100	159.23
4	LHS (Flank)	1	22.5	$(5.8+7.7+6.4)/3$	6.633		1.000	149.25
Total (Cum) :-								955.89
Deduction for Voids 10 % (Cum)								95.59
Total Quantity (Cum)								860.3
2nd wave of Flod								
1	RHS (Approach)	1	6.5	$(6.5+6)/2$	6.25	$(3.5+2.85)/2$	3.175	128.98
2	LHS (Approach)	1	4.58	$(8+5.5)/2$	6.75	$(3.85+3.45)/2$	3.65	112.84
3	RHS (Flank)	1	22.5	$(5+5.5+6.5)/3$	5.67		0.500	63.79
4	LHS (Flank)	1	22.5	$(5.1+6)/2$	5.55		0.300	37.46
Total (Cum) :-								343.07
Deduction for Voids 10 % (Cum)								34.31
Total Quantity (Cum)								308.76

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14/11/24

Junior Engineer,
Rural Works Department,
Work Section,
Motipur

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14/11/2024

Assistant Engineer,
Rural Works Department,
Work Sub Division,
Motipur

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Executive Engineer,
Rural Works Department,
Work Division,
Muzaffarpur West

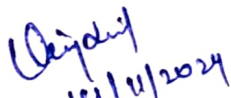
Name of Road :- NH-28 Motipur Chowk . Ajantakot via Bathna Road (Restoration work of Bharkurwa Ghat HLB Approach Road North Side)

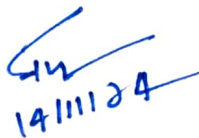
Block :- Motipur

Appendix - III

Measurement for Surfacing the breach Rubbish Filling							
S. No	Chainage	Nos	Length (M)	Width (M)	Av. Width (M)	Av. Thickness (M)	Quantity (Cum)
1st wave of Flod							
1	RHS (Approach)	1	5.5	$(6.4+7.5+8.1)/3$	7.33	6.5	209.64
2	LHS (Approach)	1	6.54	$(8.8+6.4)/2$	7.6	6.5	165.49
3	RHS (Flank)	1	22.5	$(5+7.8+6.5)/3$	6.433	1.5	198.79
4	LHS (Flank)	1	22.5	$(5.8+7.7+6.4)/3$	6.630	0.75	102.49
Total							676.41
2nd wave of Flod							
1	L/S Flank Area	1	15	$(2+3.5)/2$	2.75	2.5	103.13
Total							103.13


 Junior Engineer,
 Rural Works Department,
 Work Section,
 Motipur


 Assistant Engineer,
 Rural Works Department,
 Work Sub Division,
 Motipur


 Executive Engineer,
 Rural Works Department,
 Work Division,
 Muzaffarpur West

Name of Road :- NH-28 Motipur Chowk . Ajantakot via Bathna Road (Restoration work of Bharkurwa Ghat HLB Approach Road North Side)

Block :- Motipur

Appendix - IV

Measurement for sand filling in sand bag								
S. No	Chainage	Nos	Length (M)	Width (M)	Av. Width (M)	Thickness (M)	Av. Thickness (M)	Quantity (Bag)
1st wave of Flod								
1	RHS (Approach)	1						780
2	LHS (Approach)	1						455
3	RHS (Slope)	1						850
4	LHS (Slope)	1						660
Total								2745
Nos of sand bag								2745
2nd wave of Flod								
1		1	22.5	$(10+13.5)/2$	11.75	$(8.7+5.8+4.5)/3$	6.33	1673.49
2		1	22.5	$(11+12)/2$	11.5	$(1.9+2.)/2$	1.95	504.56
3		1	22.5	$(9+11)/2$	10	$(1.2+0.8)/2$	1	225
4		1	20	$(8+10)/2$	9	$(1.8+2.2)/2$	2	360
	Sand Bag in River Bed	1	28	$(8+7)/2$	7.5	$(3.4+2.5)/2$	2.95	619.5
Total CUM								3382.55
Nos of sand bag =0.034/cum								99487

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14/11/24
Junior Engineer,
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Work Section,
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Assistant Engineer,
Rural Works Department,
Work Sub Division,
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Executive Engineer,
Rural Works Department,
Work Division,
Muzaffarpur West

RATE ANALYSIS

BRICK BATS PITCHING MANUAL MEANS

WRD SOR 6.6.1	Labour for laying Brick Bat 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) Unskilled Mazdoor	Nos.	3	395.00	1185.00
	Rate for 2.832 Cum				1185.00
	Rate per Cum (Rs.) -				418.43
1.1 RCD	Loading and Unloading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means				
	Rate per cum = (a+b+c)/5.5				0.00
Note:-	Unloading will be done manually.				
1.	Providing and Laying of Brick Bats Providing laying spreading & compacting Brick Bats including spreading in uniform thickness hand packing (Manual Means)				
A.	Basic Rate of Brick Bats	Per Cum	1	832.80	832.80
	Total (a+b+c)				832.80
C.	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1				418.43
	Total (A+B+C) -				1251.23
	Cost per Cum			Rs.-	1251.23
	Total Cost per Cum				1251.23

BRICK BATS PITCHING MANUAL MEANS

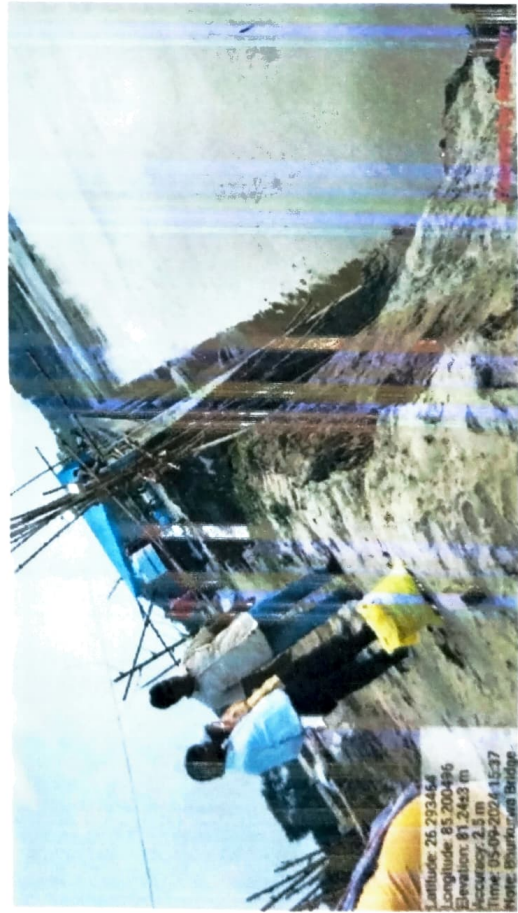
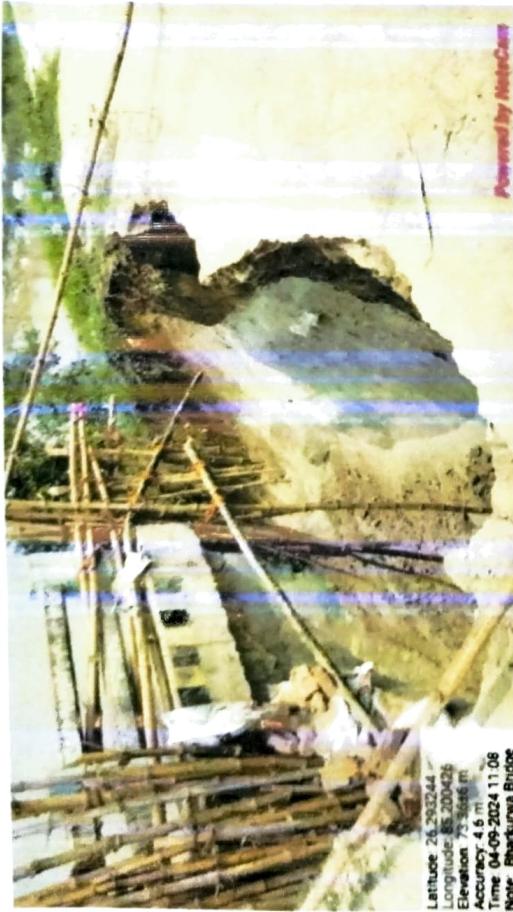
WRD 5.7.7	Labour for cutting and fixing of 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I				
	Unit = Per M				
	Taking out put = 30.50 m				
	Assuming 20 no Pile sunk 1.525 m deeps				
	Total depth sunk 30.50 m				
	a) Labour				
	Carpenter Gr-II	No.	0.25	531.00	132.75
	Unskilled Labour for Piling	No.	2.5	395.00	987.50
	b) Material				
	Bamboo (2nd class) 75 mm dia, 1.8-2.5 m Long	M	30.5	17.66	538.63
	Total cost for 30.5 m (a+b)				1658.88
	Total Cost (a+b+c+d)				1658.88
	Rate Per Metre = (a+b+c+d)/30.5	Rm			54.39
	Total Cost Per Metre	Rm			54.39
WRD 5.7.8	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				
	Unit = Per Sqm				
	Taking out put = 9.30 Sqm				
	Assuming strip of 3.05 x 3.05 = 9.30 Sqm				
	a) Labour				
	Carpenter Gr-II	No.	1	531.00	531.00
	Unskilled Labour for Piling	No.	1	395.00	395.00
	b) Material				
	Bamboo (2nd class) 75 mm dia, 1.8-2.5 m Long	m	11	17.66	194.26
	75 mm to 100 mm long nails	Kg	0.25	58	14.50
	Total cost for 9.30 m (a+b)				1134.76
	Total Cost (a+b+c)				1134.76
	Rate Per Metre = (a+b+c)/9.30	Sqm			122.02
	Total Cost Per Metre	Rm			122.02

BRICK BATS PITCHING MANUAL MEANS

WRD 5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I				
	Unit = Per M				
	Taking out put = 30.50 m				
	a) Material				
	Bamboo (2nd class) 75 mm dia, 1.8-2.5 m Long	m	30.5	17.66	538.63
	Cost of 150 mm long nails	Kg	0.5	58	29.00
	b) Labour				
	Carpenter Gr-II	No.	0.125	531.00	66.38
	Unskilled Labour for Piling	No.	0.25	395.00	98.75
	Total cost for 30.5 m (a+b)				732.76
	Total Cost (a+b+c)				732.76
	Rate Per Metre = (a+b+c)/30.5	Rm			24.02
	Total Cost Per Metre	Rm			24.02
WRD 5.7.40	Providing including labour for filling empty cement bag with local sand, stiching the bag and placing including supply of sutali etc. all complete as per approved design, specification and direction of E/				
	Unit = Per Nos				
	Taking out put = 100 Nos				
	a) For Filling, Stiching & Stacking				
	Unskilled Mazdoor for filling bags and sewing	No.	2	395	790.00
	Sutali	Kg	0.5	19.75	9.88
	b) Labour rate for carring & Placing filled E.C. Bags				
	Unskilled Mazdoor for carrying bags and placing to work site	No.	3	395	1185.00
	Total cost for 100 Nos (a+b)				1984.88
	Total Labour Per Bag				19.85
	c) Materials				
	Supply Empty Cement Bag				
	Unit = No.				
	Taking output = 1 Nos				
	Labour				
	Cost of Empty cement bag	Nos.	1	6.02	6.02
	Cost of Local Sand	Cum	0.0347	116.70	4.05
	Total Cost per Cum				29.92

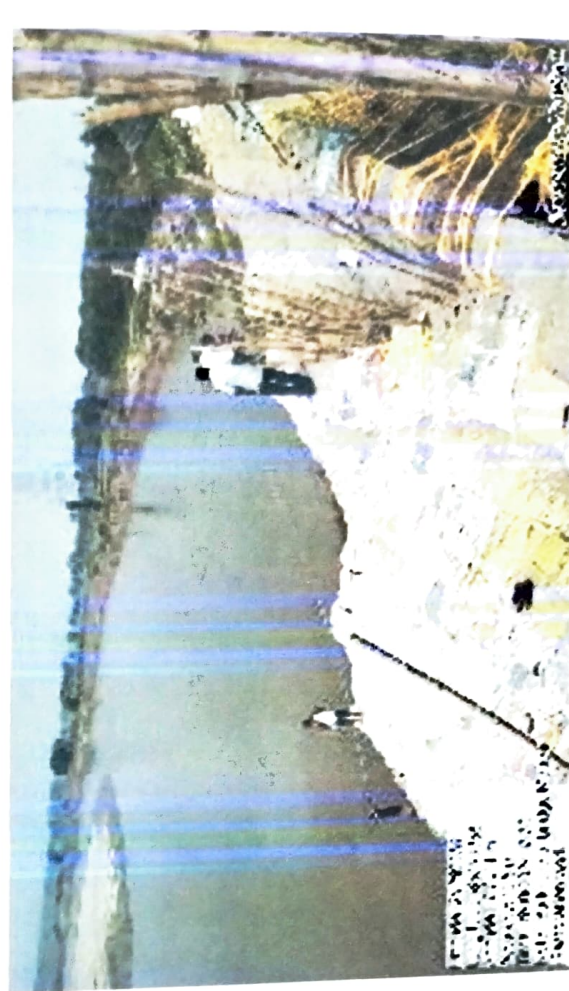
Chapter 11
FOUNDATION

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
11.2	300 & 1200	Fillling in Kiln Rubbish as per drawing and technical specification Clause 305.3.9				
		I. Kiln Rubbish				
		Unit = cum				
		a) Labour				
		Mate	day	0.01	397.00	3.97
		Mazdoor (Unskilled)	day	0.30	395.00	118.50
		b) Material				
		Rubbish	cum	1.20	290.78	348.94
		Rate per cum = a+b+c (If fine Sand Used)				471.41
		Rate Adopted in DPR				471.41



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