



बिहार सरकार

ग्रामीण कार्य विभाग

Ministry of P. Works, Transport & Road, Govt. of Bihar

136

HEAD-FDR

STATE :- BIHAR

DETAILED PROJECT REPORT

DISTRICT :- Madhubani

CIRCLE :- Darbhanga

BLOCK :- Jhanjharpur

Estimate for Mortable of the Road from KAKO ROAD -
MOTIPUR ROAD under FDR at Block- ~~Madhopur~~ in
Madhubani District. *Jhanjharpur*

TOTAL COST FOR MOTORABLE Rs. ~~21.54549~~
15.53503 lac. 15.51472⁰⁰

Submitted by:
Executive Engineer
RWD(W) Division, Jhanjharpur

तकनीकी प्रतिवेदन

पथ का नाम :- KakO Road Motipur Road

प्राक्कलित राशि :- 15.53503 Lac 15.51472 Lac

प्रमण्डल का नाम:- झंझारपुर

अंचल का नाम :- दरभंगा

योजना का नाम :- F.D.R-2245

प्रस्तुत प्राक्कलन विभागीय स्तर से कराये गये कार्य के आलोक KakO Road
Motipur Road पथ के लिए तैयार किया गया है, जो कि बाढ़ एवं अतिवृष्टि के कारण हुए कटाव/ जलजमाव/ Wave Cut के कारण क्षतिग्रस्त हो गया था जिसके कारण आवागमन बाधित हो गया था । फलतः ग्रामीणों को काफी कठिनाईयों का सामना करना पड़ रहा था ।

यह प्राक्कलन सचिव महोदय, ग्रामीण कार्य विभाग, पटना बिहार के पत्रांक- मु0अ0- 4 (मु0) विविध (कार्य)- 23 - 60/2020- 1937 पटना, दिनांक- 07.07.2021 के आदेश के आलोक में तैयार किया गया है ।

इस प्राक्कलन में क्षतिग्रस्त हुए पथांश को ईट के टुकड़े/मिट्टी/स्थानीय बालु से भरकर उसका संपीडन किये जाने का प्रावधान करते हुए कार्य संपादित किया जा चुका है ।

प्रस्तुत प्राक्कलन संपादित कार्य के समय लागू अनसूचित दर (संवेदक लाभांश छोड़कर) पर तैयार किया गया है । यह कार्य लोकहित एवं जनहित में अत्यावश्यक है । अतः इस प्राक्कलन की स्वीकृति अपेक्षित है ।

कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, झंझारपुर

Inspection Report of Flood Damage Work

Name of PIUs :- RWD Works Division, Jhanjharpur

Name of Block :- Jhanjharpur

Name of Road :- Koko road - Motipur road

A. For Road

1. Damage Location Chainage :- 10, 60, 40, 110, 130m - -
2. Damage Length :- 1172.7m
3. Nature of Damage :-
4. Details of Restoration Works
 - i. Materials being used in restoration works:- brick bays
 - ii. Equipment's/Tools being used in Restoration works:- tractor - trolley
 - iii. Procedure taken up in Restoration works:- 654.96 m
 - iv. Restored Length:- 1172.7m

B. For Bridge

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

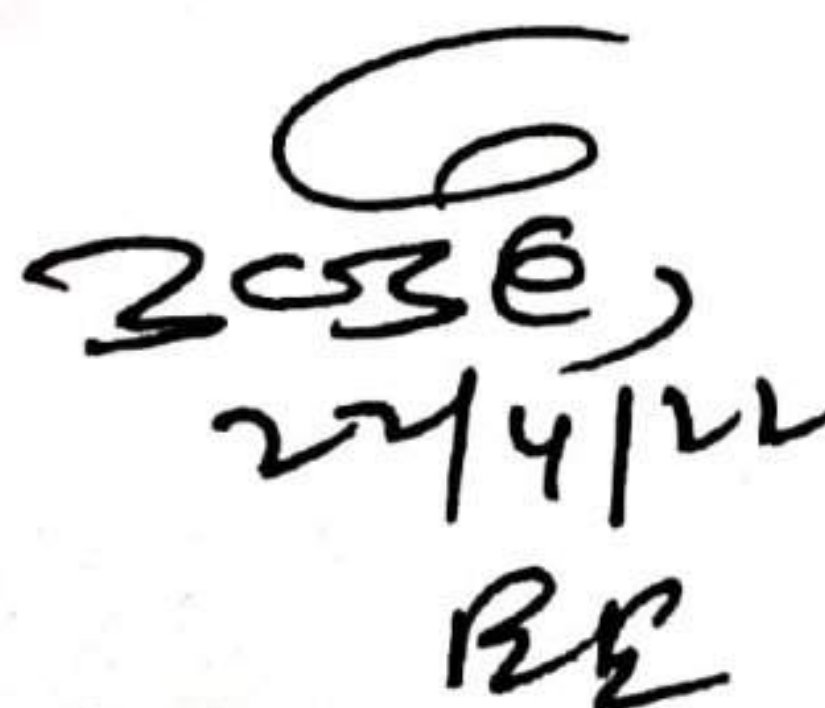
C. Requirement Of New CD/ Bridges

- i. Name of Road:-
- ii. Location/ Chainage:-
- iii. Type of CD Work/ Length required:-

— S —


28/04/22

Signature of JE/AE/EE


28/04/22
BE


28/04/22

Signature
(Name of Inspection)

Estimate for Motorability of road damaged by flood from KAKO ROAD - MOTIPUR ROAD For
Year 2021

ad :- FDR 2245

Length :- 3.651 km

Sl. No.	Item No.	Name of Item	Unit	Quantity As per Appendix - 1	Rate	Amount
1		Providing and filling brick bats in ditches/ damaged embankment including cost of brick bats and labour all complete job as per specification and direction of E/I.	Cum	654.96 ✓	2004.96	1313168.63

₹ 13,13,168.63 ✓

Add 12 % GST ₹ 1,57,580.24 ✓

Add 1 % L.C ₹ 13,131.69 ✓

Add S. Fee $(\frac{654.96}{100} \times 1063.00) \times 10\%$ ₹ 6,75,918.72
6,75,918.72
6,75,918.72

Total ₹ 15,53,502.80
15,51,472.39

Say ₹ 15,53,503.00

21,59,799.28
15,51,472.00

Junior Engineer
R.W.D, Works Section,
Jhanjharpur

Assistant Engineer
R.W.D, Work sub Div.
Jhanjharpur

Executive Engineer
R.W.D (W) Division,
Jhanjharpur

कार्यपालक अभियंता, राब कार वि० जयनगर के द्वारा आदेशन
प्रक्रांक 671 (अनु०) दिनांक 29/04/22 के आधार पर

Technically Sanctioned for ₹ 15,51,472.00
(Rupees Fifteen Lakh Fifty one thousand four hundred seventy
(Rupees Ninety two) only.

Superintending Engineer
RWD Work Circle, Bhangra

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat
(Measurement in mtr.)

Chainage	Nos.		Length (In Mtr.)		Bldth (In Mtr.)		Thickness (In Mtr.)				Quantity	
ch. 10	1	x	2.10	x	$(0.80+0.70+0.90)/3$	x	0.80	$(0.20+0.30+0.10)/3$	0.20	av.	=	0.34 cum
	1	x	7.80	x	$(0.90+1.50+1.0)/3$	x	1.13	$(0.15+0.20+0.10)/3$	0.15	av.	=	1.33 cum
ch. 60	1	x	4.70	x	$(1.30+1.40+1.30)/3$	x	1.33	$(0.10+0.15)/2$	0.13	av.	=	0.78 cum
	1	x	6.90	x	$(1.40+1.50+1.32)/3$	x	1.41	$(0.10+0.10+0.075)/3$	0.09	av.	=	0.89 cum
	1	x	2.95	x	$(0.90+1.10+0.90)/3$	x	0.97	$(0.15+0.10+0.20)/3$	0.15	av.	=	0.43 cum
ch. 90	1	x	2.90	x	$(0.90+1.10+0.95)/3$	x	0.98	$(0.10+0.075)/2$	0.09	av.	=	0.25 cum
ch. 110	1	x	4.00	x	$(0.90+1.10+0.85)/3$	x	0.95	$(0.10+0.075)/2$	0.09	av.	=	0.33 cum
ch. 130	1	x	4.20	x	$(0.90+1.15+0.85)/3$	x	0.97	$(0.10+0.15+0.075)/3$	0.11	av.	=	0.44 cum
	1	x	2.90	x	$(0.95+1.20+1.0)/3$	x	1.05	$(0.10+0.250+0.075)/3$	0.14	av.	=	0.43 cum
ch. 150	1	x	2.60	x	$(1.10+1.20+1.0)/3$	x	1.10	$(0.10+0.15+0.10)/3$	0.12	av.	=	0.33 cum
	1	x	7.50	x	$(1.20+1.30+0.90)/3$	x	1.13	$(0.10+0.15+0.10)/3$	0.12	av.	=	0.99 cum
ch. 160	1	x	5.50	x	$(1.0+1.10+0.90)/3$	x	1.00	0.40	0.40	av.	=	2.20 cum
	1	x	1.50	x	$(0.60+0.50)/2$	x	0.55	0.30	0.30	av.	=	0.25 cum
ch. 200	1	x	1.65	x	0.30	x	0.30	0.30	0.30	av.	=	0.15 cum
	1	x	1.75	x	1.20	x	1.20	0.40	0.40	av.	=	0.84 cum
ch. 220	1	x	4.10	x	$(1.0+1.50+1.30)/3$	x	1.27	0.50	0.50	av.	=	2.60 cum
	1	x	0.90	x	0.80	x	0.80	0.40	0.40	av.	=	0.29 cum
ch. 230	1	x	2.95	x	$(1.20+1.50+1.30)/3$	x	1.33	$(0.10+0.20+0.10)/3$	0.13	av.	=	0.52 cum
ch. 235	1	x	1.20	x	0.30	x	0.30	0.50	0.50	av.	=	0.18 cum
ch. 240	1	x	3.80	x	$(1.20+0.90+1.10)/3$	x	1.07	0.00	0.00	av.	=	0.00 cum
ch. 250	1	x	1.45	x	$(0.80+0.85)/2$	x	0.83	0.40	0.40	av.	=	0.48 cum
	1	x	1.30	x	0.75	x	0.75	0.60	0.60	av.	=	0.59 cum
ch. 260	1	x	1.90	x	$(1.20+1.25)/2$	x	1.23	0.50	0.50	av.	=	1.16 cum
ch. 265	1	x	1.50	x	1.20	x	1.20	0.60	0.60	av.	=	1.08 cum
ch. 270	1	x	2.40	x	$(1.20+1.30+1.20)/3$	x	1.23	0.80	0.80	av.	=	2.37 cum
	1	x	1.60	x	$(1.90+2.30+1.80)/3$	x	2.00	0.20	0.20	av.	=	0.64 cum
ch. 280	1	x	2.20	x	$(1.20+1.0+1.20)/3$	x	1.13	0.60	0.60	av.	=	1.50 cum
ch. 290	1	x	3.30	x	$(0.90+1.40+1.10)/3$	x	1.13	0.30	0.30	av.	=	1.12 cum
	1	x	3.90	x	$(1.50+1.60+1.20)/3$	x	1.43	0.30	0.30	av.	=	1.68 cum
ch. 320	1	x	4.30	x	$(1.20+1.25+1.0)/3$	x	1.15	0.30	0.30	av.	=	1.48 cum
	1	x	7.70	x	$(1.10+1.40+1.20)/3$	x	1.23	$(0.10+0.20+0.15)/3$	0.15	av.	=	1.42 cum
ch. 340	1	x	1.50	x	1.00	x	1.00	0.15	0.15	av.	=	0.23 cum
ch. 360	1	x	3.15	x	$(1.0+1.10+0.90)/3$	x	1.00	$(0.15+0.20+0.15)/3$	0.17	av.	=	0.53 cum
ch. 370	1	x	4.40	x	$(1.10+1.30+1.0)/3$	x	1.13	0.40	0.40	av.	=	1.99 cum
ch. 370	1	x	3.70	x	$(0.80+0.90)/2$	x	0.85	0.30	0.30	av.	=	0.94 cum
ch. 370	1	x	8.50	x	$(1.10+1.20+1.10)/3$	x	1.13	0.40	0.40	av.	=	3.85 cum
ch. 400	1	x	2.90	x	$(1.0+1.10+0.90)/3$	x	1.00	0.40	0.40	av.	=	1.16 cum
ch. 400	1	x	2.40	x	1.40	x	1.40	0.40	0.40	av.	=	1.34 cum
ch. 410	1	x	4.10	x	$(1.10+1.20+1.30)/3$	x	1.20	0.50	0.50	av.	=	2.46 cum
ch. 410	1	x	1.30	x	0.80	x	0.80	0.45	0.45	av.	=	0.47 cum
ch. 410	1	x	5.70	x	$(1.30+1.40)/2$	x	1.35	0.45	0.45	av.	=	3.46 cum
ch. 410	1	x	5.30	x	$(0.70+0.80)/2$	x	0.75	0.50	0.50	av.	=	1.99 cum

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat (Measurement in mtr.)

ch. 440	1	x	18.90	x	$(3.40+3.50+3.40)/3$	x	3.43	$(0.20+0.15+0.20+0.30)/3$	0.21	av.	=	13.79	cum
ch. 470	1	x	3.20	x	3.10	x	3.10	0.60	0.60	av.	=	5.95	cum
ch. 470	1	x	1.10	x	0.80	x	0.80	0.40	0.40	av.	=	0.35	cum
ch. 470	1	x	3.10	x	2.00	x	2.00	0.45	0.45	av.	=	2.79	cum
ch. 485	1	x	10.10	x	2.90	x	2.90	0.60	0.60	av.	=	17.57	cum
ch. 485	1	x	23.70	x	$(1.70+1.8+1.70)/3$	x	1.73	$(0.15+0.20+0.15)/3$	0.17	av.	=	6.85	cum
ch. 530	1	x	3.30	x	2.80	x	2.80	$(0.20+0.25+0.15)/3$	0.20	av.	=	1.85	cum
ch. 600	1	x	7.70	x	$(1.30+1.60+1.30)/3$	x	1.40	$(0.15+0.20+0.15)/3$	0.17	av.	=	1.80	cum
ch. 610	1	x	4.70	x	$(1.20+1.30+1.20)/3$	x	1.23	0.45	0.45	av.	=	2.61	cum
ch. 610	1	x	6.20	x	$(1.10+1.70+1.30)/3$	x	1.37	0.45	0.45	av.	=	3.81	cum
ch. 630	1	x	4.10	x	$(1.30+1.50+1.30)/3$	x	1.37	0.60	0.60	av.	=	3.36	cum
ch. 630	1	x	4.10	x	$(1.20+1.25+1.30)/3$	x	1.25	0.50	0.50	av.	=	2.56	cum
ch. 640	1	x	2.30	x	$(1.20+1.60+1.30)/3$	x	1.37	0.45	0.45	av.	=	1.41	cum
ch. 640	1	x	2.90	x	$(1.40+1.60+1.20)/3$	x	1.40	0.35	0.35	av.	=	1.42	cum
ch. 640	1	x	2.40	x	1.50	x	1.50	0.45	0.45	av.	=	1.62	cum
ch. 640	1	x	0.90	x	0.90	x	0.90	0.20	0.20	av.	=	0.16	cum
ch. 690	1	x	8.10	x	$(1.30+1.40+1.30)/3$	x	1.33	$(0.10+0.15+0.10)/3$	0.12	av.	=	1.26	cum
ch. 750	1	x	1.70	x	1.20	x	1.20	0.45	0.45	av.	=	0.92	cum
ch. 750	1	x	3.10	x	1.60	x	1.60	0.40	0.40	av.	=	1.98	cum
ch. 750	1	x	2.00	x	17.60	x	17.60	0.30	0.30	av.	=	10.56	cum
ch. 750	1	x	5.10	x	$(1.50+1.60)/2$	x	1.55	0.40	0.40	av.	=	3.16	cum
ch. 750	1	x	30.00	x	$(3.40+3.70)/2$	x	3.55	$(0.10+0.15+0.10)/3$	0.12	av.	=	12.43	cum
ch. 750	1	x	17.20	x	$(3.70+3.10)/2$	x	3.40	$(0.10+0.15+0.10)/3$	0.12	av.	=	6.82	cum
ch. 750	1	x	6.20	x	$(1.20+1.30+1.10)/3$	x	1.20	0.30	0.30	av.	=	2.23	cum
ch. 750	1	x	2.30	x	1.40	x	1.40	0.30	0.30	av.	=	0.97	cum
ch. 855	1	x	5.40	x	1.10	x	1.10	$(0.10+0.15+0.10)/3$	0.12	av.	=	0.69	cum
ch. 880	1	x	3.90	x	1.10	x	1.10	0.40	0.40	av.	=	1.72	cum
ch. 880	1	x	5.10	x	$(0.90+1.40+0.80)/3$	x	1.03	0.30	0.30	av.	=	1.58	cum
ch. 920	1	x	2.90	x	0.90	x	0.90	0.45	0.45	av.	=	1.17	cum
ch. 950	1	x	30.00	x	$(2.80+2.90)/2$	x	2.93	$(0.15+0.30+0.15)/3$	0.20	av.	=	17.55	cum
ch. 950	1	x	18.70	x	$(2.90+2.95)/2$	x	2.93	$(0.10+0.30+0.15)/3$	0.18	av.	=	10.03	cum
ch. 1010	1	x	1.80	x	1.50	x	1.50	0.60	0.60	av.	=	1.62	cum
	1	x	4.40	x	3.10	x	3.10	$(0.15+0.10)/2$	0.13	av.	=	1.71	cum
	1	x	3.10	x	0.70	x	0.70	0.45	0.45	av.	=	0.98	cum
	1	x	5.20	x	3.75	x	3.75	0.40	0.40	av.	=	7.80	cum
	1	x	9.70	x	2.90	x	2.90	0.50	0.50	av.	=	14.07	cum
	1	x	9.90	x	3.20	x	3.20	0.35	0.35	av.	=	11.09	cum
	1	x	4.40	x	1.30	x	1.30	0.40	0.40	av.	=	2.29	cum
ch. 1065	1	x	1.90	x	0.90	x	0.90	0.45	0.45	av.	=	0.77	cum
	1	x	24.50	x	$(3.10+3.20)/2$	x	3.15	$(0.15+0.25+1.50)/3$	0.63	av.	=	48.88	cum
	1	x	30.00	x	$(1.90+2.10+1.90)/3$	x	1.97	$(0.18+0.40+0.15)/3$	0.24	av.	=	14.36	cum
	1	x	5.10	x	$(1.90+2.0)/2$	x	1.95	$(0.15+0.25+0.15)/3$	0.18	av.	=	1.82	cum
ch. 1130	1	x	20.30	x	$(1.20+1.40+1.30)/3$	x	1.30	0.40	0.40	av.	=	10.56	cum

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat (Measurement in mtr.)

ch. 1170	1	x	3.00	x	1.00	x	1.00	0.50	0.50	av.	=	1.50	cum
ch. 1170	1	x	3.30	x	1.00	x	1.00	0.60	0.60	av.	=	1.98	cum
	1	x	6.50	x	1.20	x	1.20	0.40	0.40	av.	=	3.12	cum
	1	x	2.50	x	1.10	x	1.10	0.50	0.50	av.	=	1.38	cum
	1	x	1.20	x	0.70	x	0.70	0.30	0.30	av.	=	0.25	cum
	1	x	2.20	x	1.80	x	1.80	0.30	0.30	av.	=	1.19	cum
ch. 1200	1	x	1.30	x	2.90	x	2.90	0.30	0.30	av.	=	1.13	cum
	1	x	18.10	x	(1.70+1.90+1.50)/3	x	1.70	0.40	0.40	av.	=	12.31	cum
	1	x	3.10	x	(1.40+1.60+1.30)/3	x	1.43	0.30	0.30	av.	=	1.33	cum
	1	x	5.80	x	1.70	x	1.70	0.30	0.30	av.	=	2.96	cum
	1	x	4.20	x	3.10	x	3.10	0.30	0.30	av.	=	3.91	cum
ch. 1250	1	x	6.10	x	(2.10+2.50+2.30)/3	x	2.30	(0.10+0.15+0.10)/3	0.12	av.	=	1.64	cum
ch. 1265	1	x	1.80	x	1.60	x	1.60	0.40	0.40	av.	=	1.15	cum
ch. 1265	1	x	9.60	x	(1.80+2.0+1.70)/3	x	1.83	(0.10+0.15+0.12)/3	0.12	av.	=	2.17	cum
ch. 1290	1	x	3.10	x	1.80	x	1.80	(0.10+0.12+0.10)/3	0.11	av.	=	0.60	cum
ch. 1305	1	x	2.80	x	2.70	x	2.70	0.30	0.30	av.	=	2.27	cum
ch. 1305	1	x	9.10	x	(3.75+3.60+3.75)/3	x	3.70	(0.10+0.15+0.12)/2	0.19	av.	=	6.23	cum
ch. 1305	1	x	4.10	x	(0.70+1.30+0.80)/3	x	0.93	0.40	0.40	av.	=	1.53	cum
ch. 1330	1	x	4.10	x	(0.60+1.70+0.70)/3	x	1.00	(0.10+0.15+0.10)/3	0.12	av.	=	0.48	cum
ch. 1340	1	x	5.60	x	(1.30+1.90+1.50)/3	x	1.57	0.50	0.50	av.	=	4.39	cum
ch. 1340	1	x	6.10	x	(1.20+1.50+1.10)/3	x	1.27	0.40	0.40	av.	=	3.09	cum
ch. 1340	1	x	1.60	x	1.00	x	1.00	0.60	0.60	av.	=	0.96	cum
ch. 1340	1	x	3.40	x	(1.20+1.90+1.20)/3	x	1.43	0.40	0.40	av.	=	1.95	cum
ch. 1380	1	x	1.30	x	1.90	x	1.90	0.50	0.50	av.	=	1.24	cum
ch. 1380	1	x	3.50	x	(1.20+1.60+1.40)/3	x	1.40	(0.10+0.15+0.10)/3	0.12	av.	=	0.57	cum
ch. 1390	1	x	6.40	x	(1.10+1.50+1.20)/3	x	1.27	0.30	0.30	av.	=	2.43	cum
ch. 1390	1	x	10.70	x	(1.20+1.70+1.30)/3	x	1.40	0.40	0.40	av.	=	5.99	cum
ch. 1390	1	x	1.40	x	0.90	x	0.90	0.40	0.40	av.	=	0.50	cum
ch. 1410	1	x	5.50	x	(1.30+1.50+1.20)/3	x	1.33	(0.10+0.15+0.10)/3	0.12	av.	=	0.86	cum
ch. 1410	1	x	4.80	x	2.70	x	2.70	(0.10+0.075+0.10)/3	0.09	av.	=	1.19	cum
ch. 1410	1	x	0.90	x	0.80	x	0.80	0.30	0.30	av.	=	0.22	cum
ch. 1450	1	x	6.50	x	(3.20+3.40+3.30)/3	x	3.30	(0.10+0.15+0.10)/3	0.12	av.	=	2.50	cum
ch. 1450	1	x	2.10	x	1.20	x	1.20	0.20	0.20	av.	=	0.50	cum
ch. 1500	1	x	3.60	x	1.30	x	1.30	0.30	0.30	av.	=	1.40	cum
ch. 1520	1	x	8.10	x	(3.50+3.60)/2	x	3.55	(0.10+0.75+0.10)/3	0.32	av.	=	9.11	cum
ch. 1520	1	x	6.60	x	(1.90+2.50+1.80)/3	x	2.07	0.40	0.40	av.	=	5.46	cum
ch. 1540	1	x	5.50	x	(3.50+3.30)/2	x	3.40	(0.10+0.20+0.15)/3	0.15	av.	=	2.81	cum
	1	x	3.10	x	3.20	x	3.20	0.30	0.30	av.	=	2.98	cum
	1	x	7.30	x	(1.30+1.90+1.50)/3	x	1.57	0.30	0.30	av.	=	3.43	cum
	1	x	3.10	x	0.90	x	0.90	0.60	0.60	av.	=	1.67	cum
	1	x	3.30	x	1.50	x	1.50	0.30	0.30	av.	=	1.49	cum
	1	x	4.90	x	3.10	x	3.10	0.40	0.40	av.	=	6.08	cum
	1	x	2.90	x	1.80	x	1.80	0.40	0.40	av.	=	2.09	cum

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat (Measurement in mtr.)

	1	x	6.20	x	2.50	x	2.50	0.30	0.30	av.	=	4.65	cum
	1	x	2.50	x	2.10	x	2.10	0.30	0.30	av.	=	1.58	cum
	1	x	3.60	x	1.80	x	1.80	0.30	0.30	av.	=	1.94	cum
	1	x	5.30	x	2.10	x	2.10	0.40	0.40	av.	=	4.45	cum
	1	x	1.00	x	0.80	x	0.80	0.20	0.20	av.	=	0.16	cum
ch. 1610	1	x	1.00	x	0.90	x	0.90	0.20	0.20	av.	=	0.18	cum
ch. 1610	1	x	7.30	x	1.90	x	1.90	0.30	0.30	av.	=	4.16	cum
ch. 1630	1	x	3.50	x	2.10	x	2.10	$(0.10+0.15+0.10)/3$	0.12	av.	=	0.86	cum
ch. 1630	1	x	5.30	x	$(1.20+0.90)/2$	x	1.05	0.30	0.30	av.	=	1.67	cum
ch. 1630	1	x	0.50	x	0.40	x	0.40	0.40	0.40	av.	=	0.08	cum
ch. 1660	1	x	2.70	x	0.90	x	0.90	0.50	0.50	av.	=	1.22	cum
ch. 1680	1	x	2.30	x	1.20	x	1.20	0.30	0.30	av.	=	0.83	cum
ch. 1680	1	x	3.10	x	0.70	x	0.70	0.30	0.30	av.	=	0.65	cum
ch. 1695	1	x	7.10	x	$(1.20+1.30)/2$	x	1.25	0.30	0.30	av.	=	2.66	cum
ch. 1710	1	x	1.60	x	1.00	x	1.00	0.40	0.40	av.	=	0.64	cum
ch. 1718	1	x	3.10	x	$(0.70+1.50+0.60)/3$	x	0.93	0.40	0.40	av.	=	1.16	cum
ch. 1725	1	x	2.10	x	$(1.50+1.50+1.30)/3$	x	1.43	0.30	0.30	av.	=	0.90	cum
ch. 1730	1	x	1.10	x	1.30	x	1.30	0.30	0.30	av.	=	0.43	cum
ch. 1750	1	x	4.10	x	$(1.0+0.60+0.70)/3$	x	0.77	0.30	0.30	av.	=	0.94	cum
ch. 1750	1	x	4.10	x	$(1.0+0.60+0.70)/3$	x	0.77	0.10	0.10	av.	=	0.31	cum
ch. 1780	1	x	4.70	x	$(3.75+3.50+3.75)/3$	x	3.67	0.30	0.30	av.	=	5.17	cum
ch. 1790	1	x	4.40	x	$(1.10+1.30+1.20)/3$	x	1.20	0.20	0.20	av.	=	1.06	cum
ch. 1790	1	x	5.80	x	$(1.70+1.60+1.65)/3$	x	1.65	0.20	0.20	av.	=	1.91	cum
ch. 1790	1	x	3.60	x	1.25	x	1.25	0.20	0.20	av.	=	0.90	cum
ch. 1790	1	x	2.60	x	$(1.50+1.50+1.60)/3$	x	1.53	0.20	0.20	av.	=	0.80	cum
ch. 1790	1	x	6.70	x	1.20	x	1.20	0.10	0.10	av.	=	0.80	cum
ch. 1790	1	x	2.10	x	2.10	x	2.10	0.08	0.08	av.	=	0.33	cum
ch. 1790	1	x	3.20	x	3.10	x	3.10	$(0.075+0.10+0.075)/3$	0.08	av.	=	0.83	cum
ch. 1840	1	x	3.80	x	3.10	x	3.10	$(0.075+0.15+0.075)/3$	0.10	av.	=	1.18	cum
ch. 1860	1	x	2.20	x	1.10	x	1.10	0.40	0.40	av.	=	0.97	cum
ch. 1860	1	x	2.40	x	$(1.20+1.50+1.30)/3$	x	1.33	0.30	0.30	av.	=	0.96	cum
ch. 1860	1	x	2.60	x	0.70	x	0.70	0.50	0.50	av.	=	0.91	cum
ch. 1860	1	x	3.60	x	2.90	x	2.90	0.30	0.30	av.	=	3.13	cum
ch. 1870	1	x	7.50	x	$(1.90+1.50+1.40)/3$	x	1.60	0.30	0.30	av.	=	3.60	cum
ch. 1870	1	x	1.50	x	0.80	x	0.80	0.30	0.30	av.	=	0.36	cum
ch. 1870	1	x	4.40	x	$(1.20+1.70+1.30)/3$	x	1.40	0.30	0.30	av.	=	1.85	cum
ch. 1870	1	x	1.00	x	0.70	x	0.70	0.40	0.40	av.	=	0.28	cum
ch. 1890	1	x	3.90	x	$(1.30+1.50+1.0)/3$	x	1.27	0.40	0.40	av.	=	1.98	cum
ch. 1890	1	x	5.40	x	$(3.20+1.70+1.30)/3$	x	2.07	0.30	0.30	av.	=	3.35	cum
ch. 1890	1	x	1.80	x	1.10	x	1.10	0.40	0.40	av.	=	0.79	cum
ch. 1910	1	x	4.90	x	$(3.10+3.0+3.05)/3$	x	3.05	0.30	0.30	av.	=	4.48	cum
ch. 1925	1	x	3.80	x	$(1.20+1.0)/2$	x	1.10	0.20	0.20	av.	=	0.84	cum
ch. 1940	1	x	3.60	x	$(1.20+1.40+1.30)/3$	x	1.30	$(0.10+0.15+0.075)/3$	0.11	av.	=	0.51	cum

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat (Measurement in mtr.)

ch. 1950	1	x	3.50	x	$(1.30+1.35+1.20)/3$	x	1.28	0.20	0.20	av.	=	0.90	cum
ch. 1990	1	x	7.20	x	$(0.95+2.70+2.80)/3$	x	2.15	$(0.075+0.20+0.10)/3$	0.13	av.	=	1.94	cum
ch. 2000	1	x	3.40	x	1.00	x	1.00	0.40	0.40	av.	=	1.36	cum
ch. 2000	1	x	1.20	x	1.10	x	1.10	0.40	0.40	av.	=	0.53	cum
ch. 2000	1	x	9.70	x	3.20	x	3.20	$(0.075+0.15+0.10)/3$	0.11	av.	=	3.36	cum
ch. 2030	1	x	3.60	x	$(3.10+3.15)/2$	x	3.13	$(0.075+0.20+0.10)/3$	0.13	av.	=	1.41	cum
ch. 2040	1	x	3.40	x	$(1.20+1.60+1.30)/3$	x	1.37	0.30	0.30	av.	=	1.39	cum
ch. 2040	1	x	3.30	x	1.30	x	1.30	0.30	0.30	av.	=	1.29	cum
ch. 2050	1	x	7.40	x	$(1.60+1.70+1.50)/3$	x	1.60	$(0.075+0.15+0.10)/3$	0.11	av.	=	1.28	cum
ch. 2090	1	x	2.80	x	$(1.80+1.50+1.20)/3$	x	1.50	0.30	0.30	av.	=	1.26	cum
ch. 2090	1	x	1.70	x	1.10	x	1.10	0.30	0.30	av.	=	0.56	cum
ch. 2110	1	x	3.70	x	$(1.90+2.10+1.80)/3$	x	1.93	0.30	0.30	av.	=	2.15	cum
ch. 2120	1	x	4.80	x	1.20	x	1.20	0.30	0.30	av.	=	1.73	cum
ch. 2120	1	x	2.70	x	$(1.70+1.20+1.50)/3$	x	1.47	0.30	0.30	av.	=	1.19	cum
ch. 2120	1	x	2.20	x	$(1.80+1.70)/2$	x	1.75	$(0.100+0.20+0.10)/3$	0.13	av.	=	0.51	cum
ch. 2140	1	x	2.10	x	1.40	x	1.40	0.60	0.60	av.	=	1.76	cum
ch. 2140	1	x	4.10	x	3.50	x	3.50	0.40	0.40	av.	=	5.74	cum
ch. 2140	1	x	2.10	x	1.50	x	1.50	0.40	0.40	av.	=	1.26	cum
ch. 2140	1	x	2.90	x	$(1.40+2.40)/2$	x	1.90	0.60	0.60	av.	=	3.31	cum
ch. 2140	1	x	4.40	x	4.10	x	4.10	0.40	0.40	av.	=	7.22	cum
ch. 2170	1	x	5.20	x	$(1.40+2.10+1.50)/3$	x	1.67	0.60	0.60	av.	=	5.20	cum
ch. 2170	1	x	9.80	x	$(3.75+4.40+3.75)/3$	x	3.97	0.60	0.60	av.	=	23.32	cum
ch. 2190	1	x	1.40	x	1.70	x	1.70	0.80	0.80	av.	=	1.90	cum
ch. 2190	1	x	3.60	x	$(2.30+2.10)/2$	x	2.20	0.60	0.60	av.	=	4.75	cum
ch. 2190	1	x	8.70	x	2.10	x	2.10	0.40	0.40	av.	=	7.31	cum
ch. 2190	1	x	1.90	x	1.50	x	1.50	0.50	0.50	av.	=	1.43	cum
ch. 2220	1	x	7.10	x	$(3.7+3+3.2)/3$	x	3.30	$(0.10+0.15+0.10)/3$	0.12	av.	=	2.73	cum
ch. 2240	1	x	2.10	x	1.70	x	1.70	0.40	0.40	av.	=	1.43	cum
ch. 2240	1	x	1.20	x	1.10	x	1.10	0.60	0.60	av.	=	0.79	cum
ch. 2240	1	x	5.60	x	3.75	x	3.75	0.50	0.50	av.	=	10.50	cum
ch. 2240	1	x	2.80	x	1.40	x	1.40	0.50	0.50	av.	=	1.96	cum
ch. 2260	1	x	3.10	x	1.50	x	1.50	0.40	0.40	av.	=	1.86	cum
ch. 2280	1	x	2.90	x	1.70	x	1.70	0.50	0.50	av.	=	2.47	cum
ch. 2300	1	x	2.10	x	1.90	x	1.90	0.30	0.30	av.	=	1.20	cum
ch. 2310	1	x	5.10	x	2.10	x	2.10	0.60	0.60	av.	=	6.43	cum
ch. 2310	1	x	3.40	x	2.90	x	2.90	0.40	0.40	av.	=	3.94	cum
ch. 2320	1	x	3.60	x	$(2.10+3.20+3.0)/3$	x	2.77	0.40	0.40	av.	=	3.98	cum
ch. 2320	1	x	3.60	x	2.60	x	2.60	0.40	0.40	av.	=	3.74	cum
ch. 2330	1	x	5.60	x	3.70	x	3.70	$(0.10+0.15+0.075)/3$	0.11	av.	=	2.24	cum
ch. 2340	1	x	1.90	x	0.80	x	0.80	0.20	0.20	av.	=	0.30	cum
ch. 2340	1	x	0.70	x	0.70	x	0.70	0.20	0.20	av.	=	0.10	cum
ch. 2350	1	x	2.10	x	1.50	x	1.50	0.30	0.30	av.	=	0.95	cum
ch. 2350	1	x	2.70	x	1.50	x	1.50	0.40	0.40	av.	=	1.62	cum

Name of Road :- KAKO ROAD - MOTIPUR ROAD

PMGSY

Length :- 3.651 km

Block :- Jhanjharpur

Appendix - I

Measurement for restoration of Embankment and shoulder with Brick Bat (Measurement in mtr.)

ch. 2360	1	x	3.20	x	2.30	x	2.30	0.30	0.30	av.	=	2.21 ✓	cum
ch. 2360	1	x	1.90	x	4.00	x	4.00	0.30	0.30	av.	=	2.28 ✓	cum
ch. 2360	1	x	4.20	x	(3.75+3.60)/2	x	3.68	0.20	0.20	av.	=	3.09 ✓	cum
ch. 2360	1	x	1.80	x	2.70	x	2.70	0.60	0.60	av.	=	6.16 ✓	cum
ch. 2360	1	x	1.10	x	0.90	x	0.90	0.40	0.40	av.	=	0.40 ✓	cum
ch. 2360	1	x	2.10	x	1.15	x	1.15	0.40	0.40	av.	=	0.97 ✓	cum
ch. 2400	1	x	1.10	x	0.90	x	0.90	0.40	0.40	av.	=	0.40 ✓	cum
ch. 2400	1	x	3.10	x	(0.90+2.10+0.95)/3	x	1.32	0.30	0.30	av.	=	1.22 ✓	cum
ch. 2410	1	x	4.00	x	(3.10+3.30+3.20)/3	x	3.20	0.30	0.30	av.	=	3.84 ✓	cum
ch. 2440	1	x	1.10	x	0.90	x	0.90	0.30	0.30	av.	=	0.30 ✓	cum
ch. 2450	1	x	3.30	x	(1.10+1.60+0.90)/3	x	1.20	0.30	0.30	av.	=	1.19 ✓	cum
ch. 2450	1	x	1.10	x	1.20	x	1.20	0.30	0.30	av.	=	0.40 ✓	cum
ch. 2470	1	x	3.80	x	(2.70+2.40+2.40)/3	x	2.50	0.50	0.50	av.	=	4.75 ✓	cum
ch. 2480	1	x	4.10	x	(3.60+3.70+3.60)/3	x	3.63	0.60	0.60	av.	=	8.94 ✓	cum
ch. 2480	1	x	3.60	x	1.90	x	1.90	0.40	0.40	av.	=	2.74 ✓	cum
ch. 2530	1	x	3.60	x	(3.50+2.10+1.90)/3	x	2.50	0.40	0.40	av.	=	3.60 ✓	cum
ch. 2550	1	x	2.50	x	1.90	x	1.90	0.40	0.40	av.	=	1.90 ✓	cum
ch. 2550	1	x	2.10	x	0.90	x	0.90	0.40	0.40	av.	=	0.76 ✓	cum
ch. 2570	1	x	1.90	x	1.80	x	1.80	0.20	0.20	av.	=	0.68 ✓	cum
Total qty.											=	654.96 ✓	cum

Junior Engineer
R.W.D, Works Section,
Jhanjharpur

Assistant Engineer
R.W.D, Work sub Div,
Jhanjharpur

Executive Engineer
R.W.D (W) Division,
Jhanjharpur