



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

PLAN HEAD- FDR YEAR 2021-22

DISTRICT :- WEST CHAMPARAN
BLOCK :- NARKATIAGANJ

Estimate for Repair of Road breaches
(Damaged by Flood) for Moteribility in
MATYARIA PMGSY To CHATURBHUJWA ✓

LENGTH OF ROAD (in Km)- 2.83 KM

ESTIMATED COST - 3.350 Lacs

SUBMITTED BY:
EXECUTIVE ENGINEER,
RWD WORKS DIVISION,
NARKATIAGANJ

TECHNICAL REPORT

Name of Road :- *Matiyaria PMGSY to Chaturbhujwa*

Name of Block:- Narkatiyaganj

Name of Division:- Narkatiyaganj

Name of District:- West Champaran

Estimated Cost:- *3.350 Lacs*

This Estimate is prepared for Restoration of *Matiyaria PMGSY to Chaturbhujwa*

.....road under FDR as per the instruction of Secretary, Rural Works Department, Patna vide.

ज्ञापक:- मु0अ0 -4 (मु 0) विविध (कार्य) 23 -60 /2020-1937 पटना, दिनांक 07.07.2021. Road remains effected from flood about 01 to 02 weeks and heavy amount of water passed through it.

Honorable Chief Minister/Secretary, Rural Works Department, Bihar, Patna/D.M., West Champaran, Bettiah/Concerned MP/MLA has instructed to maintain the traffic and movement of public etc. at the earliest so that public of this area may get connected and for the same Departmental instruction has also been issued to fill the gap made by flooded immediately.

The area surrounding is submerged in water and hence provision of *Brick Bats*.....has been made to maintain the road damage due to flood/heavy rainfall as per availability of material from available place by tractor. Presently there is no Contractor is employed for Construction and Maintenance of this road hence the work has been carried out Departmentally and due to this, provision of Contractor profit is not mentioned in the estimate.

In view of above, it is requested to approve the estimate amounting to Rs. *3.350 Lacs* please.

Submitted for ^{Administrative} ~~Technical~~ Approval please.

[Signature]
Junior Engineer,
Narkatiyaganj

[Signature]
14/11/21
Assistant Engineer,
Narkatiyaganj

[Signature]
25/11/21
Executive Engineer
R.W.D.(W) Division, Narkatiyaganj

ग्रामीण कार्य विभाग
बिहार, सरकार

पत्रांक - मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

पटना, दिनांक 07/07/2021

प्रेषक,

पंकज कुमार पाल (भा0प्र0सै0)

सचिव

सेवा में,

सभी कार्यपालक अभियंता
ग्रामीण कार्य विभाग,

विषय- बाढ़ अतिवृष्टि से क्षतिग्रस्त पथों/पुलियों को यातायात लायक (Motorable) करने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में निदेश दिया जाता है कि प्रमंडल अन्तर्गत सभी अभियंता बाढ़/अतिवृष्टि से क्षतिग्रस्त पथों का शत प्रतिशत निरीक्षण करेंगे। पथों/पुलियों के क्षतिग्रस्त भाग से पानी उतरते ही उसे यातायात लायक बनाने की कारवाई एवं Motorable किये जाने से पहले तथा Motorable कार्य के बाद का Real time, Geo tagged photographs को MIS पर तत्क्षण अपलोड किया जाना सुनिश्चित करेंगे। इन कार्यों को कराने हेतु कार्यपालक अभियंता पूर्ण रूप से जिम्मेवार होंगे। कार्य न कराने की स्थिति में उनके विरुद्ध अनुशासनिक कार्रवाई की बाध्यता होगी।

विश्वासभाजन

(पंकज कुमार पाल)

सचिव

ज्ञापक- मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

पटना, दिनांक 07/7/2021

प्रतिलिपि-सभी अधीक्षण अभियंता को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। साथ ही उन्हें निदेश दिया जाता है कि वे लगातार अनुश्रवण एवं निरीक्षण करते हुए क्षतिग्रस्त भाग को अतिशीघ्र यातायात लायक बनवाने की कार्रवाई सुनिश्चित करेंगे।

सचिव

ज्ञापक-मु0अ0-4 (मु0) विविध कार्य-23-60/2020 - 1937

पटना, दिनांक 07/7/2021

प्रतिलिपि-सभी मुख्य अभियंता, ग्रामीण कार्य विभाग को सूचनार्थ एवं लगातार अनुश्रवण करने हेतु प्रेषित।

सचिव

कार्यपालक अभियन्ता का कार्यालय

ग्रामीण कार्य विभाग, कार्य प्रमंडल, बेतिया

प्रेषक:-

पत्रांक-...../ बेतिया, दिनांक...../

सेवा में,

कार्यपालक अभियन्ता
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, बेतिया।

विषय :-

अधीक्षण अभियन्ता,
ग्रामीण कार्य विभाग,
कार्य अंचल, बेतिया।

प्रसंग:-

कार्य प्रमंडल, नरकटियागंज में वर्ष 2021 के बाढ़ में क्षतिग्रस्त पथों को मोटरेबुल कराने हेतु किये गये कार्यों की जाँच के संबंध में।

भवदीय पत्रांक-1325/बेतिया, दिनांक-14.11.2021 एवम् अभियन्ता प्रमुख, ग्रामीण कार्य विभाग, बिहार, पटना का पत्रांक-मु0अ0-4(मु0) विविध (कार्य)-23-291 / 2019-4589, दिनांक-13.11.2021।

महाशय,

उपर्युक्त विषयक एवम् प्रासंगिक पत्र के अनुपालन में कार्य प्रमंडल, नरकटियागंज द्वारा उपलब्ध कराये गये मोटरेबुल पथों की सूची में अंकित पथों का अधोहस्ताक्षरी द्वारा सहायक अभियन्ता के साथ निरीक्षण किया गया। निरीक्षण के दौरान कार्य प्रमंडल, नरकटियागंज द्वारा प्रतिवेदित सभी पथों पर कार्य कराया गया है एवम् यातायात चालु है।

सादर सूचनार्थ एवम् अग्रत्तर कार्रवाई हेतु समर्पित।

अनु0- निरीक्षण किये गये पथों की सूची।

विश्वासभाजन,

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कार्यपालक अभियन्ता
ग्रा0का0वि0, का0प्र0, बेतिया।

ज्ञापांक- 3244 (अनु0) / बेतिया, दिनांक- 25/11/2021 /

प्रतिलिपि:- कार्यपालक अभियन्ता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, नरकटियागंज को सूचनार्थ सम्प्रेषित।

Alush
25.11.21

कार्यपालक अभियन्ता
ग्रा0का0वि0, का0प्र0, बेतिया।

FDR list 2021 (Temporary Restoration)

Sl.No.	Block Name	Name of Road	Length of road (KM)	Amount (in Lac)
1	Narkatiaganj	T01 To Khairwa	3.45	10.439
2	Narkatiaganj	T01 Mathura to Belwaria	1.556	16.901
3	Narkatiaganj	PWD Road To Bazar Tola	3.645	4.386
4	Narkatiaganj	Binwariya To Barwa	2.055	1.066
5	Narkatiaganj	REO Road To Pachamwa	13.077	12.093
6	Narkatiaganj	REO Road To Bargajwa	2.53	3.769
7	Narkatiaganj	Katgharwa To Rajpur	6.927	8.735
8	Narkatiaganj	Rajpur To Katgharwa	2.7	3.341
9	Narkatiaganj	PWD Road NKE Bettiah Main Road Koingama Chowk To Vikrampur Hote Hue Rajpur PMGSY Tak Sadak Nirman	2.52	7.169
10	Narkatiaganj	Serahwa To Pipra	2.6	4.016
11	Narkatiaganj	Serahwa To Takiya	3.06	4.572
12	Narkatiaganj	Marhiya To Banwariya Mandir	1.8	4.371
13	Narkatiaganj	L022 To Rakhai	3.85	6.261
14	Narkatiaganj	Samhuta To Belwa Murli	6.6	11.466
15	Narkatiaganj	T01 To Amwa Tola	2.04	8.691
16	Narkatiaganj	Pokhariya To Trilokwa	11.32	8.916
17	Narkatiaganj	Rampur L024 To Berwa Barauli	2.622	4.178
18	Narkatiaganj	Dhobha L022 To Inderwa	6.182	5.512
19	Narkatiaganj	Gopalpur to Phulwariya	1.6	7.521
20	Narkatiaganj	NKE Manjharwa Manwarparsi To Ekdarwa	14.5	31.46
21	Narkatiaganj	Ajua PWD Road To Ledhiharwa	6.7	1.406
22	Narkatiaganj	Satwariya To Manjharwa	1.92	20.647
23	Narkatiaganj	Shikarpur To Malda	1.43	7.289
24	Narkatiaganj	Chintamanpur To Malda	1.98	12.395
25	Narkatiaganj	Narkatiaganj To mainatand	3.25	7.286
26	Narkatiaganj	Phulwariya PMGSY To Purwi Tola	3.34	8.425
27	Narkatiaganj	Marhiya Brahman Sthan To Chaturbhujwa	1.935	9.704
28	Narkatiaganj	Hichhopal To Bhasurari	8.9	12.682
29	Narkatiaganj	PWD Road To Sugauli	1.335	5.084
30	Narkatiaganj	Matiyaria PMGSY To Sherahwa	1.485	7.672
31	Narkatiaganj	L021 To Nautanwa	1.2	5.405
32	Narkatiaganj	Matiyaria PMGSY To Chaturbhujwa	2.83	3.35
33	Narkatiaganj	T03 To Bijwaniya	1.75	3.452
34	Narkatiaganj	NKE Thori Main Road To Mai Sthan Via Daharwa Tola	2.75	7.846
35	Narkatiaganj	Betiya Jila Amtargat NKE Prakhand Ke Betiya Sathi NKE Road Hamirpur Dhala To Khap Tola Mahadalit Basti	2.4	5.579
36	Narkatiaganj	Main Road Padariya To Kukara Part I	2.365	8.194
37	Narkatiaganj	Primary School Amwa To Bhagwanpur Tola Kesharia	1.5	3.082
38	Narkatiaganj	Bettiah P.W.D. Path Me Koerganwa Nabkatola Chowk To Puraniya Harijan Patti Tak Kalikaran	2.5	3.804

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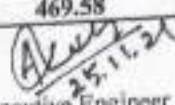
39	Narkatiaganj	Bettiah P.W.D. Path Me Koerganwa Chowk To Harsari Harijan Toli Hote Hue Puraniya Mukhya Path	2.52	4.683
40	Narkatiaganj	Bhagauna Middle School Se Tower Ke Pass To Murli Gaon Me Sakil Ansari Ke Ghar Tk	0.7	1.56
41	Narkatiaganj	Harsari Kausal Kishore Dubey Ke Ghar Ke Pass To Puraniya Harijan Patti Tak	2.45	6.744
42	Narkatiaganj	Paroraha To Mahadali Basti Tak Path Nirman	7.55	6.238
43	Narkatiaganj	Nankar to durwalla	1.25	4.031
44	Chanpatiya	Kaithwalia Lauriya PWD Road to Mahnakuli	2.5	4.927
45	Chanpatiya	Turhapatti to Gurwalia Vishwash	3.6	9.843
46	Chanpatiya	Naya toal Hariharpur (RCC Culvert) to Mandir Chip tola	1.7	2.51
47	Chanpatiya	Bettiah Narkatiaganj Main Road to Mushar toli	1.565	0.491
48	Chanpatiya	Gopalpur thana to Chandra Shekhar Giri	1.925	1.51
49	Chanpatiya	Rameshwar Prasad to Harihar thakur	1.96	0.892
50	Chanpatiya	Transformar to Canal	2.395	1.408
51	Chanpatiya	Shiv Mandir to Rambaksh Yadav	1.98	11.959
52	Chanpatiya	Ganesh Halwai ke ghar to Near School	1.66	15.081
53	Chanpatiya	Shiv Mandir to Rata mishra ghogha	2.345	2.816
54	Chanpatiya	Chandrika Paswan to Buehi yadav	1.885	0.907
55	Chanpatiya	Chiran Chowk to Chandrika ram	2.795	10.409
56	Chanpatiya	Lala tola to Saman bhagat Manjhi	1.195	4.34
57	Chanpatiya	Mahaveer Mandir to School	2.535	1.857
58	Chanpatiya	Mahaveer Chowk to Main Canal	1.97	6.053
59	Chanpatiya	Parsa PMGSY to Mushlim tola	0.92	30.773
60	Chanpatiya	Bettiah Yogapatti Road to Parsa	3.8	26.686
61	Chanpatiya	Ramadhur Mahto to Bangali Colony More	1.95	0.929
62	Chanpatiya	Ramnarayan Sah to Nandlal Sah	1.23	0.743
63	Chanpatiya	Motipur to RamSundar Ram	1.8	1.476
64	Chanpatiya	Tower chowk to Bazar chowk	1.765	1.032
65	Chanpatiya	Shatrudhan Pandey to Shiv Mandir	2.66	0.86
66	Chanpatiya	Private School turhapatti to Gorakh Mahto	0.59	1.304
67	Chanpatiya	Chhote Lal Sha to Bhikhar Sah	1.9	23.687
68	Chanpatiya	Anganbari Center Banpatiya to Bandhu Bhagat	1.8	1.491
69	Chanpatiya	Gas godown to Bachha Singh ke ghar	0.8	2.053
70	Chanpatiya	Bettiah Lauriya Azad Chowk to Chuhari	4.75	1.314
71	Chanpatiya	Hera Pakar B.T. Road to Pakrihar	3.5	4.427
72	Chanpatiya	T06 to Harka Gawn	2.224	18.877
73	Chanpatiya	RCC (Pipra) to Bhoia Sah Near River	1.8	19.204
74	Chanpatiya	RCC Culvert Canal to PCC Road	1.3	0.708
75	Chanpatiya	Ghogha Chowk to Mochi Nayan	2.5	7.602
76	Chanpatiya	T06 to Lalgadh	2.328	0.555
77	Chanpatiya	Banti Lal Sahni to Primary School	1.605	4.883
78	Chanpatiya	Nahar Bhurat Pandey to PCC Road	0.905	1.05
79	Chanpatiya	Aurala to Khushwar	3.68	7.649
80	Chanpatiya	Bakulhar to Fatehpur Jaitiya	3.6	0.72
81	Chanpatiya	Bettiah Mainatand Road (Chhardwali cbowk) to Chhardwali	1.2	24.426

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82	Chanpatiya	Chanpatiya Laigadh karnemya to tirhatiya chowk via laigadh	3.6	0.88
83	Chanpatiya	Chaubey tola math to Primary school	1.6	0.985
84	Chanpatiya	Chiran Chowk to Anil Prasad	1.6	0.978
85	Chanpatiya	Hira Mukhiya to ratan thakur road	0.93	3.457
86	Chanpatiya	Kuriya kothi to Mahna via chuhari	9.5	15.556
87	Chanpatiya	Mahaveer Chowk to Maluniya via Pipra Naurangiya	2.3	0.978
88	Chanpatiya	Narkatiaganj Transformar to Yamuna ram	0.87	1.158
89	Chanpatiya	Bettiah Mainatand Road to Ranipur	1.1	1.893
90	Mainatand	Marjadwa to Balirampur	9.4	2.811
91	Mainatand	Gambhariya to Manpur	2.7	7.545
92	Mainatand	Shinghashani to Sherahwa	11.6	12.856
93	Mainatand	Jabdi to Shahpur Parsa	1.75	9.873
94	Mainatand	Hardiya to Pachgachhiya	2.495	1.915
95	Mainatand	Done Canal to Padariya	8.875	20.794
96	Mainatand	T02 to Rampur	1.492	9.296
97	Gaunaha	PWD Road to Banbairiya	5.172	1.868
98	Gaunaha	PWD Road to Parsauni	3.243	17.752
99	Gaunaha	Narkatiaganj to Mahuwa Parsa	22.4	4.891
100	Gaunaha	REO Road to Mahuwa Bhusha	2.55	4.16
101	Gaunaha	Bairiya to Parsa road	4.404	2.729
102	Gaunaha	Sahodra to Domath	5	1.898
103	Gaunaha	Domath to Ratni	1.293	0.825
104	Gaunaha	PWD Road to Badauli	1.94	3.67
105	Gaunaha	Amolwa PMGSY Road to Bhairwa	1.85	0.768
106	Gaunaha	L037 to Nahariya tola	2.35	1.57
107	Gaunaha	Semra Sri rampur to Bairathwa	1.65	1.384
108	Gaunaha	Triveni Canal T04 to Kharkatwa	2.99	3.696
109	Gaunaha	Laxmipur Chhathiya Ghat to Khadwa tola	1.185	3.998
110	Gaunaha	Mainatand to Ramnagar	18.43	2.158
111	Sikta	Sikta to Khap tola	8.363	5.477
112	Sikta	Sikta to Bishnupur	8.3	6.65
113	Sikta	Baishakhwa to Sikta	9.915	14.776
114	Sikta	Parsa to Jagiraha	1.406	7.212
115	Sikta	L040 Dhankutwa Mandir Chowk to Jagiriya tola	2.168	6.842
116	Sikta	Ekdari to Biraith	8.47	25.955
117	Sikta	L040 to Lakhaure	2.638	11.542
118	Sikta	Sikta to Surajpur	1.21	14.179
119	Sikta	Sikta to Chhapaniya	3.87	16.762
120	Sikta	L038 to Dakshin tola	1.5	3.963
121	Sikta	Bettiah Mainatand PWD Road to Sirisiya Bazar	4.8	4.139
122	Sikta	Balthar to Bhawari	4.982	12.05
123	Sikta	Guleriya to Mushar toli	0.89	6.785
124	Sikta	Bishakhwa to Sargatiya	3	7.281
125	Sikta	PWD Bettiah Mainatand road to Marjadwa via gauripur	6.5	10.44
126	Sikta	Jhumka to Dhukhi Chhapar	4	11.32
127	Sikta	Sikta to Bheriharwa	9.36	10.083
128	Sikta	Dumra to Narkatiya	4.469	10.053

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129	Sikta	Sikta to Sundargawan	3.079	4.453
130	Sikta	L038 to Jhakhara	1.5	4.175
131	Sikta	Gram Guleriya to tatwa guleriya hote hue bishambhara dhukhi chhagar high School	4.305	6.044
132	Sikta	L057 to Khap tola	1.275	1.538
Total			469.58	922.934


 Executive Engineer
 Rural Works Department
 Work Division, Bettiah

GENERAL ABSTRACT OF COST

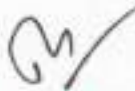
ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGED BY FLOOD) FOR
MOTERIBILITY IN MATIYARIA PMGSY TO CHATURBHUJWA

DISTRICT - WEST CHAMPARAN
BLOCK - NARKATIAGANJ

DIVISION - NARKATIAGANJ
LENGTH OF ROAD (in Km)- 2.83 KM

SL. No.	Item of Work	Amount
1	EARTH WORK :	0.000 Lacs
2	BRICK BATS :	2.786 Lacs
3	SAND BAGS :	0.000 Lacs
4	BAMBOOS PILING AND RUNNER :	0.000 Lacs
5	HUME PIPE :	0.000 Lacs
	COST OF RESTORATION :	2.786 Lacs
	ADD SEIGNIORAGE FEE @ 10% OF MATERIAL COST :	0.202 Lacs
	ADD LABOUR CESS @ 1% :	0.028 Lacs
	ADD GST @ 12% :	0.334 Lacs
	TOTAL COST OF RESTORATION OF ROAD :	3.350 Lacs


Junior Engineer




Asstt. Engineer


Executive Engineer

Technically ^{sanctioned} ~~approved~~ for total ₹ 3.350 lacs (Rupees
three lacs thirty five thousand including G.S.T.
labour cess & seignrage fee


Superintendent Engineer
Rural Works Department
Works Circle, Bettiah
Govt. of Bihar

Name of Work:- Estimate for Repair of Road breaches (Damaged by Flood) for Motorability in MATIYARIA PMGSY To CHATURBHUJWA

Head - FDR

Sl No.	Item No.	Name of Item	unit	No	Length	Width	Height	Qty.	Rate	Amount
1		EARTH WORK - Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	cum		As Per Appendix I			0	134.33	0
2		Providing and and Labour for consolidation in Jhama metal by Road Roller in proper grade camber and super elevation dry and wet rolling including cost of running charge of roller driver and khalasi making and maintaining diversion light barrier - do - do- danger signal etc. all complete .	cum		As Per Appendix II			0.000	0.00	0.00
3		Providing and Labour for laying dry graded Brick Bats including light running etc. all complete as per approved design, specification and direction of E/I.	cum		As per Mesurment Sheet			130.050	2142.53	278636.03
4		Providing, Filling Sand Bag, Stitching and Placing etc. all complete as per specification and direction of E/I.	Nos.		As per Mesurment Sheet			0.000	19.67	0.00
5		Providing and Labour for cutting 62 mm to 75 dia Bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I.	RM		As per Mesurment Sheet			0.000	47.61	0.00
6		Providing and Labour for fitting & fixing 62 mm to 75 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 etc. complete job as per specification and direction of E/I.	RM		As per Mesurment Sheet			0.000	26.85	0.00
7		Providing and laying 1000 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonry.	RM		0 Nos*2.5m			0.000	6287.65	0.00
8		Providing and laying 600 mm dia reinforced cement concrete pipe NP3 for culvert on first class bedding of granular material in single row excluding excavation, protection works, backfilling, concrete and masonry.	RM		0 Nos*2.5m			0.000	2625.98	0.00
TOTAL (in Re.)										278636.03


Junior Engineer,
Rural Works Department,
Works Section, NARKATIAGANJ


Assistant Engineer,
Rural Works Department,
rks Sub Division, NARKATIAGA


Executive Engineer,
Rural Works Department,
Works Division, NARKATIAGANJ

SEIGNIORAGE FEE CALCULATION SHEET

Item description	unit	Quantity of Consuming Item	Materials Required/ Unit	Unit	Quantity/ Unit	Total Quantity Required	Rate	Amount	Seigniorage Fee (RS)	Final Amount (RS)
Earth Work	Cum	0.00	Earth	Cum	1.0	0.00	34.82	0.00	0.00	0.00
Brick bats	Cum	130.05	Brick bats	Cum	1.0	130.05	1549.51	201513.78	20151.38	20151.38
Sand Bags	per bag	0.00	sand	Cum	0.034	0.00	286.55	0.00	0.00	0.00
Total Amount of seigniorage fee in construction (Rs)										
20151.38										

28/08/2021

सहायक अभियंता

ग्रामीण कार्य विभाग

कार्य अवर प्रमंडल, नरकटियागंज

28/08/2021

कार्यपालक अभियंता

ग्रामीण कार्य विभाग

कार्य प्रमंडल, नरकटियागंज

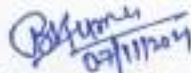
Name of Work:-

Estimate for Repair of Road breaches (Damaged by Flood) for
Moteribility in MATIYARIA PMGSY To CHATURBHUJWA

Appendix - II

Measurement for surfacing the Breach with Brick Bats

Sl. No.	Chainage	Nos	Length (M)	Av. Width (M)	Thickness (M)	Quantity (cum)
1		1	8.00	4.50 Av.	0.90 Av.	32.40
2		1	10.00	4.50 Av.	0.75 Av.	33.75
3		1	60.00	1.00 Av.	0.60 Av.	36.00
4		1	20.00	0.60 Av.	0.30 Av.	3.60
5		3	10.00	1.00 Av.	0.60 Av.	18.00
6		2	7.00	1.80 Av.	0.25 Av.	6.30
Total						130.05
Deduction for 0Nos old 1000 mm HP at 0 m (3.142*0.36*0)						0.00
Deduction for 0Nos old 600 mm HP at 0 m (3.142*0.22*0)						0.00
Net Quantity of Brick Bats						130.05


Junior Engineer


Asistant Engineer


Executive Engineer



07/11/2021
A.E.

07/11/2021
A.E.