

GOVERNMENT OF BIHAR

UNDER FLOOD DAMAGE REPAIR

Estimate for Restoration of Traffic

DISTRICT :

WEST CHAMPARAN

BLOCK :

BAIRIYA

YEAR(2020-2021)

NAME OF ROAD :

Bettiah Hat Saraiya to Khushi tola

Total Length

:

0.401

KMS

Cost of Pavement (Rs.)

:

627484

Total Cost Of Road (Rs.)

:

627484

SUBMITTED BY

Executive Engineer RWD

Works Division, Bettiah

TECHNICAL REPORT

Name of Road :-

Bettiah Hat Saraiya to Khushi Pore

Name of Block:-

Bairiya

Name of Division:-

R.W.D. Bettiah.

Name of District:-

West Champaran

Estimated Cost:-

Rs 6,24,484/-

Restoration Length:-

0.401 km

This Estimate is prepared for Restoration of Bettiah Hat Saraiya to Khushi Pore

.....road under FDR as per the instruction of Secretary, Rural Works Department, Patna vide,
ज्ञापक:- मु0अ0 -4 (मु 0) विविध (कार्य) 23 -40 /16-2254 पटना, दिनांक 30.06.2020. Road remains effected
from flooded 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 Laying 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. 6,24,484/- please.

Submitted for Technical Approval please.


Junior Engineer,
Bairiya


Assistant Engineer,
Bairiya


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

RURAL WORKS DEPARTMENT, GOVT. OF BIHAR
COST ESTIMATE FOR traffic Restoration

Name of Road: Bettiah Hat Saraiya to Khushi tola
 District: WEST CHAMPARAN

Block: BAIRIYA
 Cutting length

Length: 401.000 m
 401.00 M

S. No.	SOR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (in Rs.)	Amount
3	RCD	Laying brick bats on prepared soil surface as per Specification & direction of Engineer Incharge								
		As per measurement					309.57	cum	1703.77	527434.64
		Total Road work								527434.64
		Say Rs.								527434.64
		Add GST @12%								63292.16
		Add Labour Cess @1%								5274.35
		Add Seignrage Fee@10% of basic material rate								31483.12
		Total Cost of work								627484.26
		Say Total Rs.								627484

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Detailed Measurement Brick Bat				
No	L(m)	W(m)	D(m)	Qty(cum)
1	9.2	2.6	0.25	5.98
1	14.5	2.5	0.30	10.88
1	37.6	2.6	0.20	19.55
1	8.3	1.8	0.30	4.48
1	28.1	2.3	0.25	16.16
1	9.6	3.5	0.25	8.40
1	16.9	2.9	0.25	12.25
1	29	2.7	0.20	15.66
1	17.6	2.4	0.30	12.67
1	42.4	2.6	0.35	38.58
1	24.3	2.9	0.40	28.19
1	37.6	2.8	0.25	26.32
1	46.4	2.9	0.30	40.37
1	28.6	2.4	0.35	24.02
1	16.5	2.7	0.25	11.14
1	34.4	2.9	0.35	34.92
TOTAL	401			309.57

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RATE ANALYSIS FOR CARRIAGE OF BASE MATERIAL

Carnage Cost (Surfaced Road):
Carnage Cost (Un Surfaced Road):
Carnage Cost (Kacha Road):

With truck
Rs 6.79 Per Tonne Per Km
Rs 8.17 Per Tonne Per Km
Rs 16.45 Per Tonne Per Km

With tractor
Rs 17.25 Per Tonne Per Km
Rs 21.55 Per Tonne Per Km
Rs 26.95 Per Tonne Per Km

NAME OF ROAD : Bettiah Hat Saraiya to Khushi tola
BLOCK : BAIRIYA

DISTRICT WEST CHAMPARAN

S.NO.	Material	Railway Freight (Rs)	Lead Distance(Km)			Loading	Unloading	Unit	Carnage Cost Per Km			Total Carnage Cost	SOURCE
			Surface Road	Unsurfaced Road	Kaccha Road				Surface Road	Unsurfaced Road	Kaccha Road		
1	Aggregate for WBM Gr1 & Gr II	1,987.88	20	0	0	109.85	66.46	Cum	236.69	0.00	0.00	2400.88	SHEKHPUR A
2	Crushed Stone for Concrete work	1,833.26	20	0	0	109.85	66.46	Cum	217.72	0.00	0.00	2227.29	SHEKHPUR A
3	Stone Chips (For PMC & Seal Coat)	1,833.26	20	0	0	109.85	66.46	Cum	217.72	0.00	0.00	2227.29	MIRJA CHOWKI
4	Moorum	1,439.39	20	0	0	66.46	41.61	Cum	181.07	0.00	0.00	1728.53	SHEKHPUR A
5	Cement		20	0	0	163.11	163.11	MT	135.80	0.00	0.00	462.02	Local
6	Coarse Sand		147	0	0	66.46	41.61	Cum	1600.21	0.00	0.00	1708.28	KOILWAR
7	Fine Sand(Local Sand)		2	0	1	66.46	41.61	Cum	21.77	0.00	26.37	156.21	Local
8	Steel Reinforcement		20	0	0	173.19	173.19	Tonne	135.80	0.00	0.00	482.18	Local
9	RCC Pipe NP3 (1000 mm dia)		45	0	0	29.56	24.30	RM	244.44	0.00	0.00	298.30	Local
10	RCC Pipe NP3 (600 mm dia)-		45	0	0	20.04	13.41	RM	97.78	0.00	0.00	131.23	Local
13	Jhama metal		7		1	210.41	210.41	1000 No	483.00	0.00	107.80	1011.62	Local
13	Brick Bat		7		1	210.41	210.41	1000 No	483.00	0.00	107.80	1011.62	Local
15	Stone Boulders	2,017.58	20			109.85	66.46	Cum	271.60	0.00	0.00	2465.49	SHEKHPUR A
16	Earth by tractor		8		1	182.39		Cum	220.80		43.12	446.31	450.77 Rampurwa
16	Earth by truck		10		1	66.46	41.61	Cum	72.43		21.93	202.43	Rampurwa

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