



Govt. of Bihar

R.W.D. WORKS CIRCLE, GAYA

*Detailed Estimate for
Flood Damage Repair at
Sonpura To Chandawara.
(Temporary Restoration)*

Under- "3054-Repair"

Block - Meskor

District - Nawada

Estimated Cost - Rs. 99,950/-

Submitted By :-

Executive Engineer

R.W.D. Works Division,

RAJAU LI

बाढ क्षतिग्रस्त पथों का अन्तर प्रमंडलीय जाँच प्रतिवेदन

1. निरीक्षी पदाधिकाारी का नाम एवं पदनाम:- श्री घनश्याम पाठक पंकज, कार्यापालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल-गया :- 18.11.2021
2. निरीक्षण की तिथि :- 18.11.2021
3. पथ का नाम (शीर्ष के साथ) :- Sonpura to Chandawara (PMGSY)
4. पथ की लम्बाई :- 6.33 कि०मी०
5. कार्य प्रमंडल का नाम :- रजौली
6. प्रखंड का नाम :- मेसकोर
7. पथ की स्थिति :- अनुरक्षण अवधि से बाहर है।
8. पथ अनुरक्षण अवधि में है :- अनुरक्षण अवधि से बाहर है।
9. क्षतिग्रस्त भाग की लम्बाई :- 6.7 मी०
10. क्षतिग्रस्त भाग में कराये गये कार्य का विवरणी :- (i) E/W -6.7 mx (4.5m +7.0m) /2 x 1.8m
(लम्बाई चौड़ाई गहराई) (ii) Brick bat -6.7mx4.2m x 1.5m
(iii) Hume Pipe 600mm dia-01no.
11. Temporary Restoration में किस-किस समाग्रियों का उपयोग किया गया है, उसका विवरणी :- Earth, Brick Bat, Hume Pipe 600mm dia
12. अभियुक्ति :-

Hanishankar
18/11/21
(Hanishankar)
J. E.
R. W. D. (W) Div. Gaya.

Raj
18/11/2021
निरीक्षी पदाधिकारी का हस्ताक्षर
पदनाम सहित

योजना प्रतिवेदन

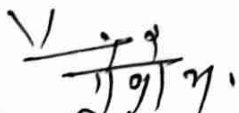
जिला	:- नवादा
प्रमंडल का नाम	:- ग्रामीण कार्य विभाग, कार्य प्रमंडल, रजौली
प्रखण्ड का नाम	:- मेसकौर
योजना का नाम	:- Flood Damage Repair of Sonpura To Chandabara Road. (Temporary Restoration)
मद	:- FDR
प्राक्कलित राशि	:- 99950.00

Flood Damage Repair of Sonpura To Chandabara Road. (Temporary Restoration) हेतु प्रस्तुत प्राक्कलन कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, रजौली के निदेशानुसार तैयार किया गया है।

यह पथ शीर्ष PMGSY योजनान्तर्गत बनाया गया था, जिसका कार्य वर्ष 2013 में पूर्ण हो चुका है। वर्तमान में यह पथ अनुरक्षण के अन्तर्गत नहीं है।

यह पथ कब्रिस्तान के समीप, कब्रिस्तान के पानी के बहाव के कारण क्षतिग्रस्त हो गया है जिसको Brick Bat एक अदद RCC, HP. का उपयोग कर Temporary Restoration का कार्य करा दिया गया है। वर्तमान में पथ में आवागमन चालू है।

कराये गये कार्य के अनुसार प्राक्कलन तैयार किया गया है। कार्यहित एवं जनहित में प्राक्कलन की प्रावैधिक एवं प्रशासनिक स्वीकृति अपेक्षित है।


कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

ABSTRACT OF COST

Name of Road : Repair of Flood Damage in Sonpura To Chandawara

Circle - Gaya

District - Nawada

Division - Rajauli

Block - Meskor

S.N.	DESCRIPTION	AMOUNT
1	EARTH WORK	Rs 14043.00
2	BRICK BAT'S	Rs 63687.00
3	SAND BAG'S	Rs 6060.00
	SUB TOTAL	Rs 83790.00
	ADD FOR -	
	G.S.T. @ 12 %	Rs 10055.00
	LABOUR CESS @ 1 %	Rs 838.00
	SEIGNIORAGE FEE	Rs 5241.00
	GRAND TOTAL	Rs. 99924.00
	Say -	Rs. 99950.00

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A.E
R.W.D

11/9/21
Executive Engineer
R.W.D., Works Division
Rajauli

Provisionally Technically Sanctioned for Rs. 99950.00
(Rs. Ninty nine thousand & nine hundred fifty) only.

11/9/21
Superintending Engineer
Rural Works Department
Works Circle, Gaya

COST ESTIMATE FOR EMERGENT REPAIR OF ROAD DAMAGED DUE TO FLOOD

Name of Work **Sonpura To Chandawara**

Block

Meskor

District -

Nawada

Sl.No	Item's of Work												Qty		Rate		Unit		Amount	
1	2												3		4		5		6	
1	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2. with lead upto 1000 M.												69.35	Cum	Rs.	202.50	/Cum	Rs.	14043.00	
		1	x	6.70	Mx(	4.50	M+	7.00	M)/2x	1.80	M=	69.35								Cum
												69.35								Cum
2	Providing laying, spreading and filling Brick Bat's in Flood damage area for making the road motarable as per specification and direction of E/I.												42.21	Cum	Rs.	1,508.82	/Cum	Rs.	63687.00	
		1	x	6.70	Mx	4.20	Mx	1.50	M=	42.21	Cum									
												42.21								Cum
3	Providing and laying reinforced cement concrete pipe NP3 culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, back filling, concrete and massonary works in head walls and parapets clause 1106.												2.50	M	Rs.	2,424.01	/M	Rs.	6060.00	
	600 mm dia						1	x	2.50	M=	2.50	M								
												2.50								M
Total -																			83790.00	

V. J. 7/9/21
J.E.
R.W.D.

Shubh 7/9/21
A.E.
R.W.D.

[Signature]
Executive Engineer
R.W.D., Works Division
Rajauli

CALCULATION OF SEIGNOIRAGE FEE

Block - Meskor

Name of Road Repair of Flood Damage in Sonpura To Chandawara Length of Road -

Sl. No.	SDB Sl. No.	MoRD Ref. No	Description	Unit	Quantity	Rate	Amount (Rs.)	Total Material Required	Material Amount	Seigniorage Fee @ 10 %
1			Providing laying, spreading and filling Brick Bat's in Flood damage area for making the road motarable as per specification and direction of E/I.							
			Unit - Cum							
			Material				1184.40			
			Brick Bat	Cum	1.20	987.00	1184.40			
			Rate Per Cum = (a) =				1184.40			
			Total Cost =	Cum			1184.40	42.21	49993.52	4999.35
2	9.3	1100	Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2. with lead upto 1000 M.							
			Unit - Cum (Taking Output = 100 Cum)							
		(a)	Material				3482.00			
			Compensation of earth taken from private land	Cum	100.00	34.82	3482.00			
			Cost for 100 Cum = (a)				34.82			
			Rate per Cum = (a) / 1000 =				34.82			
			Total Cost =	Cum			34.82	69.35	2414.77	241.48
3	9.3	1100	Providing and laying RCC pipe NP3 for culverts on first class bedding of PCC M-10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works back filling, concrete and masonry works in head wall and parapets Clause 1106.							
			600 mm dia							
			Unit - M (Taking Output = 7.50 M)							
		(a)	Material				0.00			
			Sand	Cum	0.02	0.00	0.00			
			Cost for 7.50 M = (a)				0.00			
			Rate per M = (a) / 7.50 =				0			
			Total Cost =	Cum			0.00	2.50	0.00	0.00
			Seigniorage Fee @ 10 % on Construction Material Cost :-							
										5240.83

V *[Signature]*
J.E. *[Signature]*
R.W.D.

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A.E.
R.W.D.

[Signature]
Executive Engineer
R.W.D., Works Division
Rajauli

3.16	305	Construction of Embankment with Material obtained from Borrowpits					
		Construction of embankment with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2. with lead upto 1000 M (Analysis SOR, RCD)					
		Unit- Cum					
		a) Labour					
		Mate	day	0.04	310.00	12.40	
		Mazdoor (Unskilled)	day	1.00	292.00	292.00	
		b) Machinery				304.40	
		Hydraulic Excavator 0.9 cum bucket capacity @ 60 cum per hour	hour	1.67	2702.00	4512.34	
		Tipper 5.50 with 10 t capacity	hour	4.50	1183.00	5323.50	
		Add 10 per cent of cost of carriage to cover cost of loading and unloading	cum	0.10	5323.50	532.35	
		Dozer 50 HP for spreading @ 100 cum per hour	hour	0.50	3319.00	1659.50	
		Tractor mounted grader for grading @ 100cum / hour	hour	1.00	612.00	612.00	
		Water Tanker 6 kl capacity	hour	2.00	907.00	1814.00	
		Three wheeled 80-100 kn static roller @ 80 cum per hour	hour	1.25	901.00	1126.25	
						15579.94	
		c) Material					
		Water	kl	12.00	73.60	883.20	
		Compensation of earth taken from private land	cum	100.00	34.82	3482.00	
						4365.20	
		Add for Overhead Charge				0.00	
		Add for Contractor's Profit				0.00	
		Cost for 100 cum (a+b+c)				20249.54	
		Rate per cum = (a+b+c) / 100				202.50	

	Providing laying, spreading and compacting of Brick Bat by kn 80-100 static roller as per Specification & direction of E/I.. (Rate Approved vide S.E., RWD, Works Circle No- Dt.					
	Unit- Cum (Taking output - 3 00 cum.)					
	a) Labour					
	Semi-Skilled (As Mate)	day	0.48	304.00	145.92	Sl. - 14
	Mazdoor (Skilled)	day	2.00	370.00	740.00	Sl. - 15
	Mazdoor (Unskilled)	day	10.00	292.00	2920.00	Sl. - 13
					3805.92	
	b) Machinery					
	Three Wheel 80-100 kn Static Roller	day	3.75	901.00	3378.75	Sl.-24
	Water Tanker 6 kl capacity	day	0.00		0.00	
					3378.75	
	c) Material					
	Aggregate					
	Brick Bat with carriage (300 x 1.20 = 360.00)	cum	360.00	1237.39	445460.40	Sl. - 03
	Water	kl	0.00	73.60	0.00	
					445460.40	
	Cost for 300 cum = (a+b+c)				452645.07	
	Rate per cum = (a+b+c) / 300				1508.82	

	Empty Cement Bag with Local Sand. (Rate Approved vide S.E., RWD, Works Circle, Gaya No- 1120 Dt. 25.06.2021)					
	Unit - Bag					
	Labour for filling of Sand in Empty Cement Bag and placing in position	No	0.02	292.00	5.84	Sl. - 13
	b) Material					
	Cost of empty cement Bag (As per Approved Rate)	No	1.00	3.50	3.50	Sl. - 01
	Rate of Sand with Carriage (Assuming 1.20 cft or 0.034 cum Sand in 1 bag)	cum	0.034	342.44	11.64	Sl. - 04
	Add for Miscellaneous item's		L.S.		0.07	
	Rate per Bag = (a+b)				21.05	

	Supplying and labour for cutting 62 mm to 75 mm dia bamboo poles to size and making shoes as per specification and direction etc. complete job as per specification and direction of E/I. (Rate Approved vide S.E., RWD, Works Circle, Gaya No- 1120 Dt. 25.06.2021)					
	Unit - Per M (Taking Output - 140 m)					
	Assuming (20 nos pile work 1.525 m deep) Total depth sunk- 20 x 1.525 = 30.50 m					
	a) Labour					
	Carpenter Gr-II	day	0.25	351.00	87.75	Sl. - 19
	Mazdoor Unskilled (For Piling)	day	2.500	292.00	730.00	Sl. - 13
		/M	140.000	17.75	2485.00	Sl. - 02 (i)
	b) Material				3302.75	
	Cost for 140 M				23.59	
	Rate Per M (a+b)/140					

Analysis of Rate

9.3	1100 B	Analysis of Rate for Providing and Laying Hume Pipe					
		Providing and laying reinforced cement concrete pipe NP4 culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, back filling, concrete and masonry works in head walls and parapets clause 1106. (Rate Approved vide S.E., RWD, Works Circle No- 1120 Dt. 25.06.2021)					
		Unit - M					
		Taking output = 7.50 m. (3 pipes of 2.5 0m length)					
		B - 600 mm dia					
		a) Labour					
		Semi-Skilled (As Mate)					
		Mazdoor (Unskilled)	Day	0.04	304.00	12.16	Sl. - 14
			Day	0.96	292.00	280.32	Sl. - 13
						292.48	
		b) Material					
		RCC pipe NP4/NP3 concrete pipe including carriage	m	7.50	2385.01	17887.58	Sl. - 06
						17887.58	
		Cost for 7.50 m (a+b+c+d)				18180.06	
		Rate per m (a+b+c+d) / 7.50				2424.01	

		B - 1000 mm dia					
		a) Labour					
		Semi Skilled (As Mate)	Day	0.09	304.00	27.36	Sl. - 14
		Mazdoor (Unskilled)	Day	2.00	292.00	584.00	Sl. - 13
						611.36	
		b) Material					
		RCC pipe NP4/NP3 concrete pipe with carriage	m	7.50	5747.82	43108.65	Sl. - 07
						43108.65	
		Cost for 7.50 m (a+b+c+d)				43720.01	
		Rate per m (a+b+c+d) / 7.50				5829.33	

		Sand Filling					
		Unit - Cum					
		a) Material					
		Sand Assuming 20 % for Voids	Cum	1.20	342.44	410.93	Sl. - 04
		b) Labour					
		Unskilled Labour	Day	0.30	292.00	87.60	Sl. - 13
		Rate per Cum (a+b)				498.53	

Financial Bid Evaluation Sheet

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, रजौली के पत्रांक-1022 अनु0 विनांक-18.06.2021 द्वारा संबंधित संवेदकों से प्राप्त दर वार्ता के आलोक में दिनांक-25.06.2021 को संपन्न निविदा समिति की बैठक की कार्यवाही :-

Name of Division :- Rajauli

NIT No.- RWD/FDR/GAYA /01/2021-22

Date of Tender :-08-06-2021

Name of Circle. -Gaya

पत्रांक- 1120 दिनांक- 25.06.2021

S/N	Material/Labour/ Machine	Unit	M/s Kumar Const. At.-New Area, Nawada Rate quoted by Bidder -1	Sanjay Kumar, At.-Barauli Narhat, Nawada Rate quoted by Bidder -2	Remarks
1	Empty Cement Bags	Each	3.50	3.50	
2	Bamboos (i) 6 M (ii) 8 M	M	(i) 17.75 (ii) 18.95	(i) 17.75 (ii) 18.95	
3	Brickbats	Cum	1237.39	1237.39	
4	Local Sand	Cum	342.44	342.44	
5	Kiln Rubbish	Cum	1053.41	1053.41	
6	Hume Pipe (NP3) 600mm Dia	M	2385.01	2385.01	
7	Hume Pipe (NP3) 1000mm Dia	M	5747.82	5747.82	
8	Boulders	Cum	(i) 1370.63 (ii) 1370.63	(i) 1370.63 (ii) 1370.63	
9	Granular Sub base Material Grading-II	Cum	1404.12	1404.12	
10	Stone Metal Aggregates Gr-II	Cum	1490.61	1490.61	
11	Stone Metal Aggregates Gr-III	Cum	1440.03	1440.03	
12	Screening Material Type-B	Cum	1328.71	1328.71	
13	Unskilled Labour	Per day	292.00	292.00	
14	Semi Skilled Labour	Per day	304.00	304.00	
15	Skilled labour	Per day	370.00	370.00	
16	Mason	Per day	351.00	351.00	
17	Head mason	Per day	394.00	394.00	
18	Bhisti	Per day	292.00	292.00	
19	Carpenter	Per day	351.00	351.00	
20	Head Carpenter	Per day	394.00	394.00	

S/N	Material/Labour/ Machine	Unit	M/s Kumar Const. At.-New Area, Nawada Rate quoted by Bidder -1	Sanjay Kumar, At.-Barauli Narhat, Nawada Rate quoted by Bidder -2	Remarks
22	Electrician	Per day	373.00	373.00	
23	Front End Loader 1.0 cum bucket capacity (JCB)	Per Hour	1403.00	1403.00	
24	8-10 Ton Smooth Wheeled Roller	Per Hour	901.00	901.00	
25	Tractor with Trolley	Ton/ Trip	612.00	612.00	
26	Tipper	Ton/ Trip	1183.00	1183.00	
27	Tractor with Tipper	Ton/ Trip	1795.00	1795.00	
28	Generator Set with fuel	Per Hour	304.00	304.00	

इस निविदा में दो निविदाकार (1) M/s Kumar Const. At.-New Area, Nawada, (2) Sanjay Kumar, At.-Barauli Narhat, Nawada ने भाग

लिया था एवं दोनों निविदाकार तकनीकी रूप से योग्य पाये गये थे।

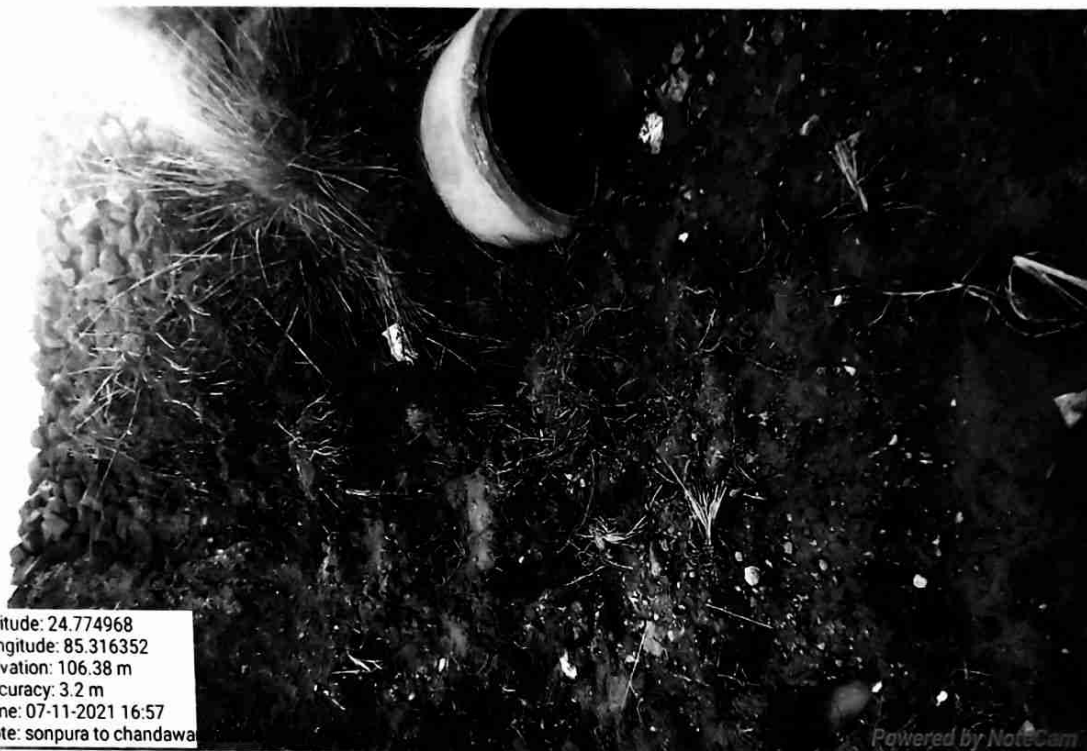
कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, रजौली के पत्रांक-1022 अनु0 दिनांक-18.06.2021 द्वारा संबंधित संवेदकों से प्राप्त दर वार्ता के आलोक में Financial Bid Evaluation Sheet के आधार पर (1) M/s Kumar Const. At.-New Area, Nawada, (2) Sanjay Kumar, At.-Barauli Narhat, Nawada निविदाकारों द्वारा Item Wise Quoted Rate सामान है।

अतः विभिन्न सामग्रियों / Labour / Machinery के Supply हेतु (क्रमांक-5 Kiln Rubbish को छोड़कर) सुचीबद्ध किया जाता है।

Sanjay Kumar
25/6/2021
EE
Rajauli

Sanjay Kumar
25/6/2021
EE
Rajauli

NAME OF ROAD- SONPURA TO CHANDAWARA (FDR)



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