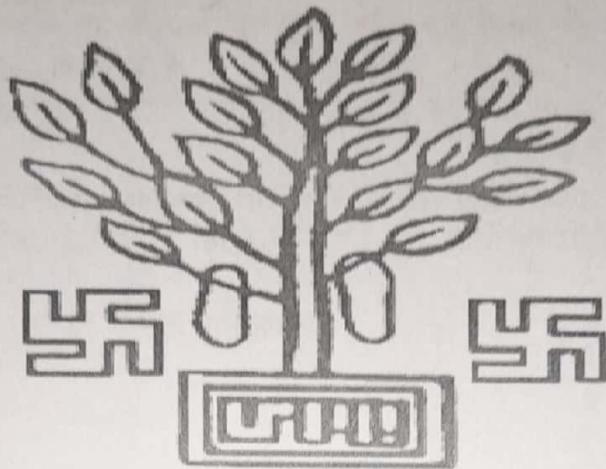


RURAL WORKS DEPARTMENT



GOVERNMENT OF BIHAR

NAME OF ROAD:- PWD PATH TO VISHNUDEV GOIT KE GHAR VIA
MALLAH TOLA RAM PRASAD

DIVISION:- R.W.D, WORKS DIVISION, VIRPUR

CIRCLE:- R.W.D, WORK CIRCLE, MADHEPURA

BLOCK:- SRAIGARDH BHAPTIYAH

ESTIMATED COST

6006543.00

प्रतिवेदन

पथ का नाम :

PWD Path to Vishnudeo Ghat ke Ghar via Malleh tale Ram Pund

कार्य का नाम :

मे बाढ़ से क्षतिग्रस्त भाग में यातायात चालू करने का कार्य।

संलग्न प्राक्कलन 10.06.2020 को प्रखण्ड में आयी भीषण बाढ़ से क्षतिग्रस्त PWD Path to Vishnudeo Ghat ke Ghar via Malleh tale Ram Pund में बाढ़ क्षतिग्रस्त मरम्माति मद से यातायात चालू करने हेतु तैयार किया गया है

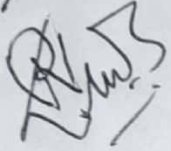
जिसकी प्राक्कलित लागत 60,06,543 है।

उक्त पथ का निर्माण ममस्य यानान्तगत हुआ है एवं योजना अनुरक्षण पथ के कटे (क्षतिग्रस्त) भवधि में है।

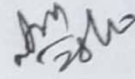
भाग में आवश्यकता अनुसार Hume Pipe, Bamboo, लोकल बालू एवं Brick Bats देने के बाद यातायात चालू कराया गया है। पथ के विभिन्न हिस्से में कराये गये कार्य का विवरणी स्पष्ट रूप से प्राक्कलन में दर्शाया गया है।

प्राक्कलन मदों का दर वर्तमान अनुसूचित दर के अनुरूप है।

28/10/20



Xr
28/10/20



नीय अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रशाखा,

सहायक अभियंता,
ग्रामीण कार्य विभाग,
कार्य अवर प्रमण्डल,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल

Inspection Report for Flood Damage Work

Date:-.....

- 1.Name of PIUs:- *Li Arjun Beraud*
2.Name of Block:- *Saigun Bhaphikar*
3.Name of Road:- *PWD Path to Vishwadev Grot Ke ghar via Mallah*
Sola Ram Beraud.

A. For Road

- 1.Damage Location/Chainage :- *2900 m to 3965 m*
2.Damage Length :- *1065 m*
3.Nature of Damage :- *one side cutting (left)*
4.Details of Restoration Works:-
(i.)Material being used in Restoration Works:- *Brick bat, local sand, &c by.*
(ii.)Equipments/Tools being used in Restoration works:-
(iii.)Procedure taken up in Restoration works:-
(iv.)Restored Length :-

B. For Bridge

1. Damage Location/Chainage:- *3800 m*
2.Damage Length :- *100 m (Approach)*
3.Nature of Damage :- *25 m cutting in Bridge.*
4.Details of Restoration Works:-
(i.)Material being used in Restoration Works:- *Brick bat, local sand, &c by.*
(ii.)Equipments/Tools being used in Restoration works:-
(iii.)Procedure taken up in Restoration works:-
(iv.)Restored Length :

20/10/20
[Signature]
Signature of JE/AE/EE

20/10/20
A.G

[Signature]

20/10/20
[Signature]
Signature

(Name of Inspector)

Abstract of Cost

Name of Work : Estimate for Repairing/Restoration/Making Motorable Roads Damaged during flood in 2020 in SUPAUL District

Name of Road:

PWD PATH TO VISHNUDEV GOIT KE GHAR VIA MALLAH TOLA RAM PRASAD

Block: SRAIGARDH BHAPTIYAH

District: SUPAUL

Divison : RWD, Works Division, VIRPUR

Circle: RWD, Work Circle, Madhepura

Sl No.	Description	Unit	Quantity (m3)	Rate (Rs)	Amount (Rs)
1	Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge.				
		Cum	2215.40	522.13	1156726.80
2	Supplying of EC bag, filling of local sand, stitching and placing in position as per the direction of Engineer-in-charge.				
		Per 100 Bags	782.37	3113.40 31=13	2435826.12
3	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.				
		Cum	983.92	1751.13	1722971.83
	TOTAL AMOUNT =				5315524.75
	ADD 12.00 %GST=				637862.97
	ADD 1% L.CESS =				53155.25
	SAY TOTAL AMOUNT =				6006542.97

6006543.00

10/10/2020
JE

RWD SUB DIVISION-SRAIGARDH BHAPTIYAH

AE
28/10/20
RWD SUB DIV.
SRAIGARDH
BHAPTIYAH

EE

RWD WORKS DIV. VIRPUR

SE
MADHEPURA

Technically approved 69.06, 543200 (Rupees fifty four thousand five hundred forty three only).

08/10/21
Superintending Engineer
Rural Works Department
Works Circle Madhepura

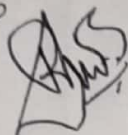
Detailed Estimate

Name of Road:

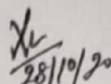
PWD PATH TO VISHNUDEV GOIT KE GHAR VIA MALLAH TOLA RAM PRASAD

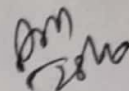
Sl No.	Items of Works	Nos.	L (m)	B (m)	D (m) IN (Av.)	Quantity (m3)
1	Filling of local sand obtained from river bed, watering & ramming, all complete job as per specification & direction of Engineer-in-charge.					
	SIDE CUT 2865-3005	2	140.00	(1.00++1.25+1.10)/3	1.50	469.00
	SIDE CUT 3005-3015	2	10.00	(1.00++1.25+1.50)/3	3.00	75.00
	SIDE CUT 3030-3042	2	12.00	(1.00++1.4+1.50)/3	2.00	62.40
	" 3240-3245	2	5.00	(1.00++1.20+1.50)/3	1.00	12.33
	" 3280-3290	2	10.00	(1.00++1.30+1.50)/3	3.75	95.00
	" 3320-3324	2	4.00	(1.00++1.25+1.50)/3	1.00	10.00
	" 3324-3380	2	56.00	(1.00++1.40+1.50)/3	3.50	509.60
	" 3870-3892	2	22.00	(1.00++1.15+1.30)/3	3.00	151.80
	" 3902-3986	1	84.00	(10+7.50)/2	(1.0+2.0+1.0)/3	980.00
					TOTAL=	2215.40
					Total Qty =	2215.40
2	Supplying of EC bag, filling of local sand, stitching and placing in position as per the direction of Engineer-in-charge.					
	2865-3005	2	140.00	(1.00++1.25+1.10)/3	1.50	469.00
	3005-3015	2	10.00	(1.00++1.25+1.50)/3	3.00	75.00
	3030-3042	2	12.00	(1.00++1.4+1.50)/3	2.00	62.40
	3240-3245	2	5.00	(1.00++1.20+1.50)/3	1.00	12.33
	3280-3290	2	10.00	(1.00++1.30+1.50)/3	3.75	95.00
	3320-3324	2	4.00	(1.00++1.25+1.50)/3	1.00	10.00
	3324-3380	2	56.00	(1.00++1.40+1.50)/3	3.50	509.60
	3902-3986	2	22.00	(1.00++1.15+1.30)/3	3.00	151.80
	MAIN CUTTING	1	84.00	(10+7.50)/2	(1.0+2.0+1.0)/3	980.00
					TOTAL=	2215.40
					Total No. of EC Bags =(2215.40X35.315)	78236.85
					NO OF BAGE/100=	782
3	Supply and Carriage of brick bats upto 8 km breach and placing in breaches and lying of bats, all complete job.					
	2865-3005	2	140.00	(1.00++1.25+1.10)/3	0.30	93.80
	3005-3015	2	10.00	(1.00++1.25+1.50)/3	0.30	7.50

3030-3042	2	12.00	$(1.00++1.4+1.50)/3$	0.30	9.36
3240-3245	2	5.00	$(1.00++1.20+1.50)/3$	0.30	3.70
3280-3290	2	10.00	$(1.00++1.30+1.50)/3$	0.30	7.60
3320-3324	2	4.00	$(1.00++1.25+1.50)/3$	0.30	3.00
3324-3380	2	56.00	$(1.00++1.40+1.50)/3$	0.30	43.68
3902-3986	2	22.00	$(1.00++1.15+1.30)/3$	0.30	15.18
BOTTAM LAYER MAIN CUTTING	1	84.00	$(10+7.50)/2$	0.90	661.50
TOP LAYER MAIN CUTTING	1	84.00	5.5	0.30	138.60
Total Qty. =					983.92

28/10/20


JE

28/10/20

 AE

28/10/20

 EE

RWD SUB DIV- SRAIGARDH BHAPTIYAH

RWD SUB DIV. SRAIGARDH BHAPTIYAH

RWD WORKS DIV. VIRPUR

Analysis for Carriage by Road & Rail

Block :- SRAIGARDH BHAPTIYAHI

District:- SUPAUL

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km			Loading & Unloading	Carriage Cost by Rail Head	Total
				Pucka / Surface	Katcha				
7	Local Sand	Cum	Local	8.00 x 7.10 x 2.00 Km = 4.99	8.00 x 17.82 x 1.00 Km = 4.99		99.08		Rs. 150.42
8	Brick	000 N(Local	Local	8.00 x 7.10 x 7.00 Km = 2.00	8.00 x 17.17 x 1.00 Km = 2.00		417.46		Rs. 684.94
13	Hume Pipe (1000 mm)	m	Karjain	8.00 x 7.10 x 70.00 Km = 10.00	8.00 x 17.17 x 0.00 Km = 10.00		73.32		Rs. 470.92

Cost of Haulage Excluding Loading & Unloading as per SOR

* Subjected to Verification of Lead

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	8.20	7.10
Unsurface Gravel Roa	9.90	8.54
Kachha Road	19.80	17.17

Summary of Carriage Cost		
Sl. No.	Particulars	Amount
10	c) Local sand	150.42
11	d) Local Sand at Site	267.27
12	Boulder	2546.70
19	a) Hume Pipe NP 3 (1000MM I	470.92
20	b) Hume Pipe NP 3 (1000MM DIA) at site	3215.42
21	Steel	566.50
22	Brick	684.94
23	Brick Bats/Jhama metal	342.47

Analysis of Rates for sand Filling

1 Sand Filling in Foundation Trenches as per Drawing & Technical Specification.

Unit= Cum

Taking Output= 1 Cum.

a) Labour

Mate

Unit Qty. Rate Cost

day 0.010 305.00 3.05

Mazdoor

day 0.300 287.00 86.10

b) Material

Sand (assuming 20 per cent voids)

Cum. 1.20 141.85 170.22

c) Overhead charges @ 6% of (a+b)

0.00

d) Carriage Including Overhead Charges

263.30

Total = (a+b+c+d)=

522.67

Add:-Contractor Profit on (a+b+c+d)=

10% 0.00

Total Cost Per Cum=

522.67

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D.C.

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28/10/20
Ard

Analysis of Rates for Brick Bats Filling

Sl No.	SOR No.	Description	Unit	Qty	Rate(Rs.)	Amount (Rs.)
1	6.6.1.	Labour for laying dry graded jhama khoa or stone filter under Brick Pitching or Boulder pitching in slope or apron including light ramming etc. all complete job as per approved design, specification and direction of E/I				
	WRD	Unit = Per Cum				
		Taking output= 2.832 Cum				
	a)	Labour				
		Mazdoor (Unskilled)	Nos	3.00	287.00	861.00
	b)	Overheads @ 0.0% on (a)				0.00
		Rate for 2.832 Cum				861.00
		Rate Per Cum				304.03

2		Supplying of Brick Bats (With OH)				
	a)	Labour				
		Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)	day			304.03
	b)	Materials				
		Bricks Bats -Basic Rate				
		Taken From RCD				
		S.O.R. Schedule- M:11-5(ii) dt.-26.02.2019	Cum	1	1063.00	1063.00
	c)	Overheads @ 00% on (b)				0.00
	d)	Carriage				
		Add:Carriage Charge for Brick bats Including Overhead Charges				384.10
		Total = (a+b+c+d)=				1,751.13
		Add:-Contractor Profit on (a+b+c+d)=	0%			-
		Total Cost Per Cum=				1,751.13

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Analysis

No.	SOR No.	Description	Quantity	Unit	Rate	Amount	Final Rate
1	5.7.7	Labour for cutting 62mm to 75 mm dia bamboo piles to size and making shoes and driving etc. complete job as per specification and direction of E/I					
	WRD SOR	Unit :- Per M					
	Page No.	Taking Out Put = 30.50 m					
	146	(Assuming 20nos. Pile sunk 1.525 mtr deep)					
		Total depth sunk					
		20Nos.X1.525Metredepth = 30.50 meter					
		Labour					
		Carpenter Gr-II	0.25	nos	345.00	86.25	
		Unskilled mazdoor for piling	2.5	nos	287.00	717.50	
		Add Overhead charge @0%				803.75	
						0.00	
		Add Contractor Profit	0%			803.75	
						0.00	
		Rate per meter				803.75	
		Say Rs.				26.35	
						26.40	26.40
2	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 direction of E/I					
	WRD SOR	Unit :- Per sqm					
	Page No.	Taking Out Put = 9.30sqm					
	146,147	(Assuming strip of 3.05x3.05=9.30sqm)					
		Materials					
		75mm to 100mm long nails	0.25	kg	55.84	13.96	
		Labour					
		Carpenter Gr-II	1	nos.	345.00	345.00	
		Unskilled mazdoor	1	nos	287.00	287.00	
						645.96	
		Add Overhead charge @00%				0.00	
						645.96	
		Add Contractor Profit	0%			0.00	
						645.96	
		Rate per sqm				69.46	
		Say Rs.				69.50	69.50
3	5.7.9	Labour for fitting and fixing 62mm to 75 mm 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 complete job as per specification and direction of E/I					
	WRD SOR	Unit :- Per M					
	Page No.	Taking Out Put = 30.50 M					
	147	Materials					
		75mm to 100mm long nails	0.5	kg	55.84	27.92	
		Labour					
		Carpenter Gr-II	0.125	nos	345.00	43.125	
		Unskilled mazdoor	0.25	nos	287.00	71.75	
						142.795	
		Add Overhead charge @0%				0.00	
						142.80	
		Add Contractor Profit	0%			0.00	
						142.80	
		Rate per m				4.68	
		Say Rs.				4.70	4.70

4

Supply of Bamboo

WRD SOR
No. 4.3
Page No.
67 &
Sr. No 6
page 70

Bamboo 6m to 8m	1 nos.	141.50	141.50	A
Gross Truck Capacity (Unit Per%) (280 per Trip)				
Loading and Unloading of bamboo				
Unit = tonne				
Taking output = 10 tonnes				
(a) Labour				
Mate	0.08 nos	305.00	24.4	
Mazddor for Loading and Unloading	2 nos	287.00	574.00	
(b) Machinery				
Truck 10Tonne Capacity	2 Hour	934.30	1868.60	
			2467.00	
Rate per Tonne			246.70	B

Carriage Cost

WRD SOR
No. 4.4a
Page No.
68

Lead 5km U/S				
Unit = t.km				
Taking output (for 10 tonnes or 5.5 cum load and lead 10				
Speed with load : 25 km / hour				
Speed for return trip : 35 km / hour				
(a) Machinery				
Truck 10 tonnes capacity				
Time taken for onward haulage with load	0.4 Hour	934.30	373.72	
Time taken for empty return trip	0.29 Hour	934.30	270.95	
Cost for 100 t.km or 55 cum.km			644.67	
Rate per t.km			6.45	C
Cost of Loading and Unloading			7.05	D=(8*B/280)
Cost/cum	8x241.67			
	280			
Cost of Haulage			0.921	E=(8*Lead*C/280)
Cost/cum	8(6.41x5+0.00x0+0.00x0)			
	280			
			149.47	A+D+E
Add Overhead charge @0%			0.00	
			149.47	
Add Contractor Profit	0%		0.00	
Rate per nos.			149.47	149.47

5

WRD SOR
Sr. No.275
Page 26

Supply of EC bag including carriage

Material				
Old Empty Cement Bags	Per %		292	
(Synthetic) (Annexure-1)			0	
Add Overhead charge @00%			292	
			0	
Add Contractor Profit	0%		292.00	292.00
Rate per %				

6	5.7.40.1 WRD SOR Page 159	Labour for filling empty cement bags with local sand, stitching the bags and placing including supply of sutli and EC bag etc. all complete as per approved desing, specification and direction of E/I Including Cost and carriage of Sand					
		Unit :- Per % nos					
		Taking Out Put = 100 nos					
		(a) For filling & stitching & stacking					
		Unskilled mazdoor for filling sand into bags and sewing	2 nos	287	574.00		
		Sutali (WRD Sr. 232 Page 25)	0.5 kg	19.75	9.88		
					583.88	F	
		(b) Labour rate for carrying filled E.C Bags					
		Unskilled mazdoor for carrying filled bags and placing to work site	3 nos	287	861.00	G	
		(C) Cost of Sand & carriage by tractor per cum					
		Cost of Sand for 1 cum	1 cum	141.85	141.85	T	
		Carriage including Loading and Unloading without Overhead Charges			263.30	U	
		Cost Per Cum			405.15	V=T+U	
		(D) Cost of Sand & carriage by tractor per for 100 nos. bag			1376.50	H	
		For 100 Bags 3.4 Cum Sand Required					
		(E) Cost of EC bag per % nos.			292.00	I	
		TOTAL	Per % nos		3113.38	F+G+H+I	
		Add Overhead charge @0%			0		
					3113.38		
		Add Contractor Profit	0%		0		
					3113.38		
		Say Rs.			3113.40		3113.40
7	5.7.40.2 WRD SOR Page 159	Labour for filling empty cement bags with loocal sand, stitching the bags and placing in Nylon crate of size (1 m x 1 m x 1 m) with lead of 150 M including supply of sutli etc. at site in dry portion all complete as per approved design, specification and direction of E/I					
		Unit :- Each N.C					
		Taking Out Put = 25 nos. filled E.C. Bags in each N/C					
		Cost of 25 nos of filled E.C.Bags (Vide item no. 5.7.40.1	25 nos.	31.13	778.35		
		Rate each			778.40		778.40
8		Supply of Nylon Crate of size 1mx1mx1m			39.85		
		Material					
		a) Nylon Crate	Each		39.85		
		b) Add Overhead charge @0%			0.00		
		c) Total (a+b)			39.85		
		d) Add Contractor Profit on (c=a+b)	0%		0.00		
		Rate per nos. (c+d)			39.85		
				Say	39.90		39.90

