

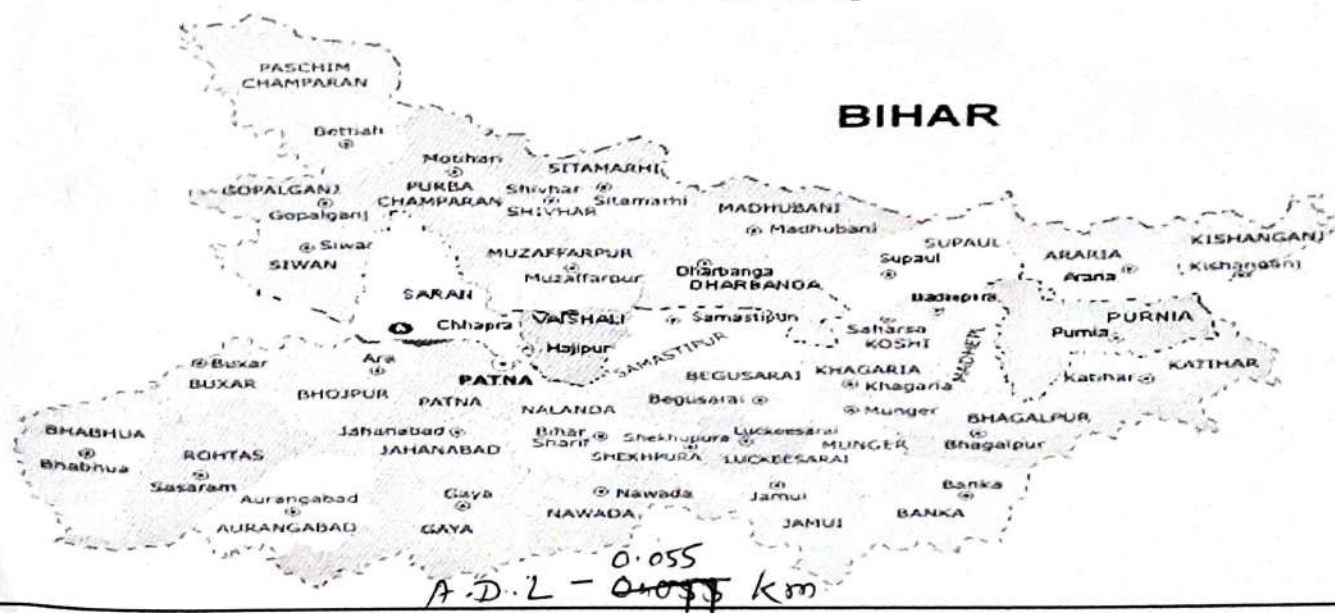


ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

PLAN HEAD FDR(2245) (2021-2022)



ESTIMATE FOR REPAIR OF ROAD BREACHES (DAMAGE BY FLOOD) FOR MOTARABLE WORK IN DHARHARA KHURD TO DUSHADH TOLA TAK

DISTRICT	:-	Saran	
DIVISION	:-	Marhaura	
BLOCK	:-	Amnaur	
TOTAL LENGTH OF ROAD	:-	0.800	KM
TOTAL COST OF CONSTRUCTION	:-	13.198 13.205	Lac
TOTAL COST OF PROJECT	:-	13.198 13.205	Lac

Inspection Report For Flood Damage Work

Date:

1. Name of PIU - E.P.R.W.D (W) Morhaura.
2. Name of Block/Road - Ammer - Motorable work in Dharsham Khurd To Dushadkh To la To la.

A. For Road

1. Damage Location/ Chainage :- 0.700 km.
2. Damage Length :- 0.055
3. Nature of Damage :- Cutting due To Flood ditches.
4. Details of Restoration :-
 - I. Materials being used in restoration : Bricks, Gots, local sand, Bamboo, Cant bags
 - II. Equipment/Tools being used in restoration works : Rolled, J.C.B., Trolley, Tractor at ..
 - III. Procedure taken up in Restoration works : Laying & spreading, Paving labor.
 - IV. Restored Length : 0.055.

B. For Bridge

1. Damage Location/ Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration :-
 - I. Materials being used in restoration :
 - II. Equipment/Tools being used in restoration works :
 - III. Procedure taken up in Restoration works :
 - IV. Restored Length :

  
Signature of AE/JE/EE Executive Engineer
Rural Works Department
Works Division, Marhaura


Signature

(B. Akhilesh Kumar)
(Name of Inspector)
EE
RWD (W) - SONEPUR

FDR(2021-2022)

प्रतिवेदन

पथ का नाम:- Dharhara Khurd To Dushadh Tola Tak

पथ की लम्बाई:- 0.800 KM.

पथ के क्षतिग्रस्त भाग की लम्बाई:-

प्रखंड:-अमनौर जिला :-सारण

प्रमंडल:-ग्रामीण कार्य विभाग कार्य प्रमंडल,मदौरा

अंचल:-ग्रामीण कार्य विभाग कार्य अंचल,छपरा

प्राक्कलित राशि:- 1320544 रु

प्रस्तुत प्राक्कलन गत माह जिला क्षेत्र अंतर्गत बाढ़ एवं अतिवृष्टिसे क्षतिग्रस्त पथो के मोटरबल कार्य हेतु कुल रुपये 1320544.463 लाख मात्र के लिए तैयार किया गया है।
13.11.21 विदित है की गत जून

महीने से सितम्बर अक्टूबर महीने तक लगातार अन्तराल पर जिला क्षेत्र अंतर्गत असामयिक रूप से पथ क्रस्ट काफी क्षतिग्रस्त हो गया जिससे पथो पर आवागमन बुरी प्रभावित हो गया।ऐसी परिस्थिति में पथो पर आम जनता को सुलभ आवागमन प्रदान करने हेतु विभागीय उच्चाधिकारियोंसे प्राप्त आदेश एवं इस संबंधमें विभाग से निर्गत दिशा निर्देश के अलोक में तत्काल प्रभाव से प्रभावित पथो में कटाव/क्षतिग्रस्त भाग में अवश्यकतानुसार Brick Bats भरकर चलने लायक बनाया गया है।

इस प्रकार कटाव/क्षतिग्रस्त भाग में अवश्यकतानुसार Brick Bats इत्यादि मदों का प्रावधान करते हुए प्राक्कलन कुल रुपये 1320544.463 लाख का तैयार किया गया हैजो कार्य हित में आवश्यक एवं जनपयोगी है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है, जिस पर स्वीकृति अपेक्षित है।
प्रमाणित है।
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कनीय अभियंता


सहायक अभियंता


कार्यपालक अभियंता

FDR

GENERAL ABSTRACT OF COST

Block:- Amnaur

District:- Saran

Length of Road:-

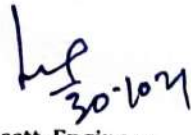
0.800 KM

Name of Road:-

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Dharhara Khurd To Dushadh Tola Tak

SL. No.	Item of Work	Amount
A	TOTAL COST	13.198
		13.205 Lacs
	TOTAL	13.198
		13.205 Lacs


30/10/21
Junior Engineer


30-10-21
Asstt. Engineer


Executive Engineer

T/s. for Rs. 13.198/- Lacs.
(Repairs thirteen Lacs. Nineteen thousand Eight
hundred) only.
RWD


15/01/22
Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

Name Of Road :-		Estimate for Repair of Road Breaches (Damage By Flood) For Motorable Work in Dharhara Khurd To Dushadh Tola Tak										Block :-		Annaur		DISTRICT:-		Sarab		LENGTH		9,800 KM	
Sl. No.	SDB SL.NO	MORD Ref.No	Description		Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)											
1	8.1.3.2 (iii)		Providing brick bats including spreading laying, Labour for dry graded jhama khoa folter 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, including carriage cost of bricks.																				
			Quantity As Per Annexure-1 (For Brick Bats)		Cum																		
			Local Sand For Voids Filling																				
2			Filling and Spreading local sand over brick bats as per drawing and technical specification clause 305.3.9																				
			Quantity As Per Annexure-2 (For Local Sand)		Cum																		
			Sand Bages																				
3			(A) Labour of fillin new E.C bags with local sand (Volume of filled bag 1.2 cft and weight 50 kg) stching on two lines by approved nylon thread with stitching machine & generators stacking the bags and placing in nylon crate of size (1m x1m 1m) with a lead of 150 m including supply of nylon thread etc placing the filled crates in water protion within a lead of 30m all complete as per approved design specifiaction and direction of E/I (5.7.39.3 & 5.7.49) New EC bags carriages of local sand by boat 1/2 km lead																				
			Quantity As Per Annexure-3 (For Sand Bag)		cum	1	53	1.25	1.5	99.375													
			Total Quantity=		cum																		
			Total Quantity=																				
			Quantity As Per Annexure-3 (For Sand Bag)																				
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SL No.	SDB SL NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
4			Supply For Bamboo								
		A	Vertical Bamboo								
			Runers		53	x	3.50	=	185.50		
					53	x	3.00	=	159.00		
					344.50	/	6.00	=	344.50		
			Chachari				No.	=	57.42		
					53	x	2.00	=	57.00		
					53.00	/	1.413	=	106.00		
							No.	=	37.51		
							Total	=	38.00		
							5% Add Westage	=	95.00		
5	5.7.7		Bamboo Piles				Total	=	100.00	141.00	14,100.00
			Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per								
			Vertical Bamboo			53	x	3.5	185.50		
								M	185.50	15.44	2,863.00
6	5.7.8		Bamboo Waven Chachari								
			Labour for fitting and fixing split bamboo woven chachari Inn position with 20 swg G.I. wire or 75 mm to 100 mm long	M		53	x	2.00	106.00		
									106.00	34.82	3,691.00
10	5.7.9		Bamboo Runers								
			Labour for fitting and fixing 62 mm to 75 mm dia bamboo runers in position at every vertiacal pile with 150 mm long	3	x	53	x	0.075	11.93		
			Fitting & Fixing						11.93	34.82	415.20
			For Vertical Bamboo	M		53	x	3.00	159.00	96.37	14,497.00
			Bamboo for Runner						11.93		
			Bamboo for sty Chachari						0.00		
			Bamboo For Chachari	1	x	53	x	25	1325.00		
			Total Bamboo						1495.93	5.75	8,607.00
									TOTAL COST IN RS.=		13,20,544.46

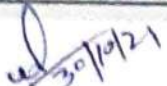
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RWD

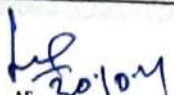
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ANNEXTURE-1							
Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Dharhara Khurd To Dushadh Tola Tak							Block:- Amnaur
Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m) Av.	HEIGHT (m) Av.	UNIT	QUANTITY
1	"	1	53.00	3.75	2.50	CUM	524.70 m3
TOTAL QUANTITY FOR BRICK BATS=							524.70 m3


 JE
RWD


 AE
RWD


 EE
RWD

ANNEXTURE-2**Name Of Road :- Estimate for Repair of Road Breaches (Damage By Flood) For
Motarable Work in Dharhara Khurd To Dushadh Tola Tak****Block:- Amnaur**

Sl. No.	Description	Nos.	LENGTH (m)	WIDTH (m)Av.	HEIGHT (m)	UNIT	QUANTITY
1		1	53.00	5.50	0.10	CUM	29.15 m3
TOTAL QUANTITY FOR LOCAL SAND =							29.15 m3


30/9/21JE
RWD
30/9/21AE
RWDEE
RWD

Brick Bats Pitching Manual Means

Sl. No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
	Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete as per approved design specification and direction of E/L.				
	Unit:-Per Cum				
	Taking Output =2.832 Cum				
	Unskilled Mazdoor	Nos.	3	304.00	912.00
	Add 6% Overhead Charge				54.72
	Rate for 2.832 Cum				966.72
	Rate Per Cum(Rs.)=				341.36
RCD	Cost of haulage Excluding Loading and Unloading				
	Haulage of Materials By Tractor Excluding Cost Of loading, unloading and stacking				
	Unit-t.km				
	Taking output 3.60 tonnes load and lead 10 km =36.0 t.km				
	(i) Surface Road				
	Speed With load :15 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.667	652.00	434.88
	Time Taken For empty return trip	hour	0.400	652.00	260.80
	b) Overhead Charges @0.06 on (a)				41.74
	Cost for 36 t km=(a+b+c)/36				737.43
	Say RS.-				20.48
	ii) Unsurface Gravel Road				
	Speed With load :12 km / hour.				
	Speed for empty return trip :20 km / hour.				
	a)Machinery.				
	Tractor 3.6 tonnes Capacity				
	Time Taken For onward haulage with load	hour	0.833	652.00	543.12
	Time Taken For empty return trip 0.50	hour	0.500	652.00	326.00
	b) Overhead Charges @0.06 on (a)				52.15
	Cost for 36 t km=(a+b+c)/840.34				921.26
	Rate per t.km = (a+b+c)/3623.34				25.59
	Say RS.-				25.59

1.1 RCD Loading and Unloading of Stone Boulder / Stone aggregate / sand / kanker / Moorum					
Placing Tractor at loading point, loading with frontloader, dumping, turnig for return trip, excluding for haulage and return trip.					
Unit = cum					
Taking output = 2.25 cum					
Time required for					
i) Positioning of Tracter at loading Point		1 Min			
ii) Loading by front end loader 1cum bucket @ capacity 25 cum per hour		5 Min			
iii) Maneuvering, reverse, dumping and turnig for return		0 Min			
iv) Wating time, unforeseen Contingencies etc.		0 Min			
Total		6 Min			
a) Labour					
Mate					
Mazdoor for loading and unloading	Day	0.03	316.00		9.48
b) Machinery					
Tractor 3.60 tonnes capacity	hour	0.10	652.00		65.20
Front end loader 1 cum bucket capacity @ 25 cum/hour	hour	0.08	#####		265.68
c) Overhead charges @ 0.06 on (a+b)					33.55
Cost for 2.25 cum = a+b+c+d					592.80
Cost for 2.25 cum = (a+b+c+d)/2.25					263.47
Note- Unloading will be done manually.					
1	Suplying for Brick Bats (With OH)				
A	Basic Rate of Brick Bats	Per Cum	#####		1006.00
	Add overhead Charges 6%		0.06		60.36
	Total-				1066.36
	Surface Lead	km	7.00		
	Unsurface Lead	km	1.00		
	Factor(3.6/2.25)	cum	1.60		
B	Carriage (with OH)				
	(1.6 x 7 x 20.48) + (1.6 x 1 x 25.59) + 263.47				533.83
C	Cost of Labour for Pitching and Light Ramming as per WRD SOR 6.6.1 (with OH)				
	Total (A+B+C)-				1941.55
	Add 1% Labour Cess (A+B+C)				19.42
	Add 12% GST(A+B+C)				232.99
	Add 10% cost of Material for seigniorage Fee		1.00	106.64	106.64
	Total Cost per Cum		Rs:-		2300.58

Analysis for Carriage by Road & Rail

Estimate for Repair of Road Breaches (Damage By Flood) For Motarable Work in Dharhara Khurd To Dushadh Tola Tak.

Block :- Amnaur

Saran

Name of Road:-

District:-

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total
3	Local Sand	Cum	Local	8.00 4.99	x 10.10	x 2.00 Km	8.00 4.99	x 24.30	x 1.00 Km = Rs 38.96
									113.67

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Analysis of Rates (FORMAT F8)

11.2	600	Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9				
	1	Fine Sand Filling				
		Unit = cum				
	a)	Labour				
		Male				
		Mazdoor Unskilled	day	0.01	310.00	3.10
	b)	Material	day	0.30	304.00	91.20
		Sand assuming 20% voids				
	c)	Overheads @ 6 % on (a+b)	day	1.20	141.75	170.10
	d)	Contractor's profit @ 10% on (a+b+c)				15.86
		Rate per cum = a+b+c+d				28.03
		Carriage cost:-				308.29
		Fine Sand				
		Cost per cum including Carriage	nos.	1.20	185.01	222.01
		Labour cess 1%				530.30
		GST 12%				5.30
		Seignorage 10%				63.64
						53.03
		TOTAL COST	cum			652.27

Analysis of Rates (FORMAT F8)

		Filling and Spreading Local Sand Over Brick Bats As Per Drawing and Technical Specification Clause 305.3.9				
11.2	600	1 Fine Sand Filling				
		Unit = cum				
	a)	Labour	day	0.01	310.00	3.10
		Mate	day	0.30	304.00	91.20
	b)	Material				
		Sand assuming 20% voids	day	1.20	141.75	170.10
	c)	Overheads @ 6 % on (a+b)				15.86
	d)	Contractor's profit @ 10% on (a+b+c)				28.03
		Rate per cum = a+b+c+d				308.29
		Carriage cost:-				
		Fine Sand	nos.	1.20	185.01	222.01
		Cost per cum including Carriage				530.30
		Labour cess 1%				5.30
		GST 12%				63.64
		Seignorage 10%				53.03
		TOTAL COST	cum			652.27

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	WORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
2			(A) Labour of filling new E.C bags with local sand (Volume of filled bag 1.2 cft and weight 50 kg) stitching on two lines by approved nylon thread with stitching machine & generators stacking the bags and placing in nylon crate of size (1m x1m 30m all complete as per approved design specification and direction of E/I (5.7.39.3 & 5.7.49) New EC bags carriages of local sand by boat 1/2 km lead Unit = Each Bag Taking OutPut Of 100 Nos. Filled New Bags In 4 Nos. N.C				
		a)	Labour				
			Unskilled Labour For Filling Stitching & Stacking	Nos	1.67	304.00	507.68
			Unskilled Labor For Carrying & Placing	Nos	3.00	304.00	912.00
			Skilled Labour For Stiching	Nos	0.33	385.00	127.05
			Material For Stiching				
			Stiching Roll (Nylon)				
			Hire Charges Of Machine	nos	2.00	30.00	60.00
			Hire Charge Of Stiching Machine				
			Hire Charge Of Generator 3KVA	Day	0.33	50.00	16.50
			Over Heads @ 12 % on (a+b+c)	Hrs	2.67	74.00	197.58
		d)	C. Profit @ 10 % on (a+b+c+d)				218.50
			Cost for 100 Nos. = a+b+c+d				203.93
			<u>CARRIAGE</u>				2243.24
			Rate Per cum= (a+b+c+d) (A x 120/100x4)	cum			560.81
			Carriage for Local Sand				
			Rate per cum with carriage		0.450	185.01	83.25
			Total Cost	CUM			644.06
							644.06
3	5.7.6		Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/I.				
			Unit = Per M Taking Out put = 10 Joint (Assuming 10 Joints)				
		a)	Materials				
			Nut And Bolts 16 mm Dia 225mm Long With Washer etc.	nos	20.00	32.88	657.60
		b)	Laber				
			Carpenter Gril	nos	0.50	408.00	204.00
			Unskilled Mazdoor	nos	0.25	304.00	76.00
		c)	Overheads @ 12%				112.51
		d)	Contractor's profit @ 10% on (a+b+c+d)				105.01
		e)					115.51
			Rate Per cum= (a+b+c+d)/10	Per M			
			Total Cost	Per M			115.51
4	5.7.7		Labour for cutting 62 mm to 75 mm dia bamboo piles to size and making shoes and driving etc complete job as per specification and direction of E/I.				
			Unit = Per M Taking Out put = 30.50 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)				
		b)	Laber				
			Carpenter Gril	nos	0.25	408.00	102.00
			Unskilled Mazdoor	nos	2.50	304.00	760.00
		c)	Overheads @ 12%				103.44
		d)	Contractor's profit @ 10% on (a+b+c+d)				96.54
		e)					34.82
			Rate Per cum= (a+b+c+d)/30.5	Per M			
			Total Cost	Per M			34.82
5	5.7.8		Labour for fitting and fixing split bamboo woven chachari inn 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.				
			Unit = Per M Taking Out put = 9.30 M (Assuming 20 nos, Pile Sunk 1.525 Mtr Deep)				
		a)	Materials				
			75 mm To 100 mm Lon Nails	Kg	0.25	61.74	15.44
		b)	Laber				
			Carpenter Gril	nos	1.00	408.00	408.00
			Unskilled Mazdoor	nos	1.00	304.00	304.00
		c)	Overheads @ 12%				87.29
		d)	Contractor's profit @ 10% on (a+b+c+d)				81.47

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			Rate Per cum = (a+b+c+d)/9.30	Per M			96.37
		c)	Total Cost	Per M			96.37
6	5.7.9		Labour for fitting and fixing 62 mm 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.				
			Unit = Per M Taking Out put = 30.50 M				
		a)	Materials				
			75mm To 100 mm Lon Nails	Kg	0.25	61.74	15.44
		b)	Laber				
			Carpenter Grll	nos	0.125	408.00	51.00
			Unskilled Mazdoor	nos	0.250	304.00	76.00
		c)	Overheads @ 12%				17.09
		d)	Contractor's profit @ 10% on (a+b+c+d)				15.95
		e)	Rate Per cum = (a+b+c+d)/30.5	Per M			5.75
			Total Cost	Per M			5.75

3.7.9 Supply of verticle runners 62 mm 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.

Unit = Per m

Taking output = 30.50 m

a) Labour

Carpenter

day

0.125

408.00

51.00

Unskilled mazdoor

day

0.25

304.00

76.00

b) Materials

150 mm long nails

Kg

0.56

61.74

30.87

Bamboo of 62 mm to 75 mm dia

M

30.50

24.94

760.52

c) Overheads on (a+b)

=@

6%

55.10

d) Contractor's profit on (a+b+c)

=@

10%

97.35

Cost for 30.50 m = a+b+c+d

Rate per m = (a+b+c+d)/30.50

1070.84

e) Carriage

35.11

150 mm long nails

Kg

0.016

0.42

0.01

Bamboo of 62 mm to 75 mm dia

M

1.00

3.47

105.88

FINISHED RATE

M

141.00

[Signature]
30/10/21
J.E.

[Signature]
30/10/21

[Signature]