



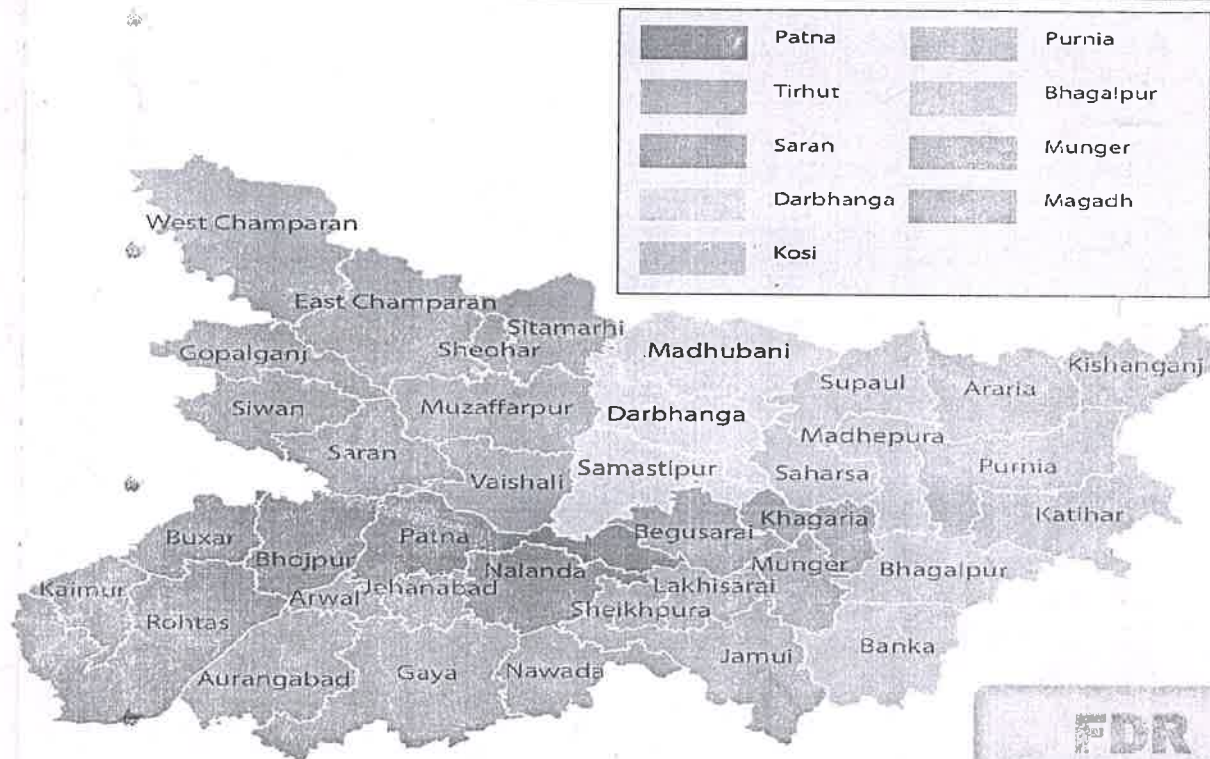
ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

DETAILED PROJECT REPORT FOR (Temporary RESTORATION OF DAMAGED ROAD)



DR

DISTRICT :	Nalanda	BLOCK :	asthawan
NAME OF ROAD :	temporary restoration of road nh 82 jirain onda path ke molna bigha morh to dhay pipal high level bridge		
PART-A TOTAL COST OF INTIAL RECTIFICATION IN SURFACE RENEUAL	:	5.74 5.368	Lakhs
TOTAL PROJECT COST	:	5.74 5.368	Lakhs

Submitted By:

Executive Engineer
RWD- Biharsharif
Nalanda

मुख्य अभियंता (अनुरक्षण एवं उन्नयन) का कार्यालय
ग्रामीण कार्य विभाग

पत्रांक :- मु0अ0-8(अनु0 एवं उन्नयन) FDR-03-01/2024 106 दिनांक:- 05.11.24 24

प्रेषक,

भगवत राम,
अभियंता प्रमुख-सह-अपर
आयुक्त-सह-विशेष सचिव,
ग्रामीण कार्य विभाग।

सेवा में,

अधीक्षण अभियंता, सभी कार्य अंचल,
ग्रामीण कार्य विभाग।

विषय :- वर्ष 2024-25 में FDR अंतर्गत क्षतिग्रस्त पथों में कराये गये मोटरेबुल कार्य की जाँच असबद्ध कार्य पालक अभियंता से कराने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि विभागीय पत्रांक-89 दिनांक-18.10.2024 के द्वारा पुनर्निर्धारित Timeline के अनुसार दिनांक-15.11.2024 तक बाढ़ प्रभावित पथों में मोटरेबुल कार्य पूर्ण कराया जाना है। मोटरेबुल कराये गये पथों का सत्यापन असबद्ध कार्यपालक अभियंता द्वारा किया जाना है।

अतएव निदेश दिया जाता है कि असबद्ध कार्यपालक अभियंता को जाँच हेतु कार्य प्रमंडल आवंटित कर अद्योहस्ताक्षरी को 03 दिनों के अंदर सूचित किया जाय।

विश्वासभाजन



(भगवत राम)

अभियंता प्रमुख-सह-अपर
आयुक्त-सह-विशेष सचिव

वर्ष 2024-25 FDR हेतु असंबद्ध कार्यपालक अभियंता को आवंटित कार्य प्रमंडल की सूची

क्र० सं०	कार्य अंचल का नाम	आवंटित कार्य प्रमंडल का नाम	असंबद्ध कार्यपालक अभियंता, कार्य प्रमंडल
1	Ara	Ara	Jagdishpur
2		Dumraon	Buxar
3		Jagdishpur	Piro
4	Aurangabad	Arwal	Aurangabad
5		Aurangabad	Daudnagar
6		Jehanabad	Arwal
7	Begusarai	Balia	Teghra
8		Begusarai	Balia
9		Teghra	Begusarai
10	Betia	Bagha-1	Betia
11		Bagha-2	Bagha-1
12		Betia	Bagha-2
13		Narkatiyaganj	Chakia
14	Bhagalpur	Banka-1	Banka-2
15		Banka-2	Bhagalpur
16		Bhagalpur	Kahalgaoon
17		Kahalgaoon	Navagachiya
18		Navagachiya	Banka-1
19	Chapra	Chapra-1	Chapra-2
20		Chapra-2	Marhaura
21		Marhaura	Sonepur
22		Sonepur	Chapra-1
23	Darbhanga	Benipur	Darbhanga-2
24		Biraul	Benipur
25		Darbhanga-2	Biraul
26	Gaya	Gaya	Nawada
27		Nawada	Rajauli
28		Rajauli	Sherghati
29		Sherghati	Gaya
30	Kishanganj	Araria	Forbesganj
31		Forbesganj	Kishanganj-2
32		Kishanganj-1	Araria
33		Kishanganj-2	Kishanganj-1
34	Madhepura	Supaul	Udakishunganj
35		Triveniganj	Supaul
36		Udakishunganj	Virpur
37		Virpur	Triveniganj
38		Jaynagar	Jhanjharpur
39	Madhubani	Jhanjharpur	Phulparas
40		Phulparas	Jaynagar
41	Motihari	Areraj	Shikharna-Dhaka
42		Chakia	Areraj
43		Motihari	Chakia
44		Pakridayal	Motihari
45		Raxaul	Pakridayal
46		Shikharna-Dhaka	Raxaul

क्र० सं०	कार्य अंचल का नाम	आवंटित कार्य प्रमंडल का नाम	असबद्ध कार्यपालक अभियंता, कार्य प्रमंडल
47	Munger	Jamui	Sheikhpura
48		Jhajha	Jamui
49		Kharagpur-Tarapur	Jhajha
50		Lakhisarai	Kharagpur-Tarapur
51		Munger	Lakhisarai
52		Sheikhpura	Munger
53	Muzaffarpur	Hajipur	Muzaffarpur West
54		Mahnar	Hajipur
55		Muzaffarpur East-1	Mahnar
56		Muzaffarpur East-2	Muzaffarpur East-1
57		Muzaffarpur West	Muzaffarpur East-2
58	Nalanda	Biharsharif	Rajgir
59		Harnaut	Biharsharif
60		Hilsa	Harnaut
61		Rajgir	Hilsa
62	Patna	Barh	Patna
63		Danapur	Barh
64		Masaurhi	Danapur
65		Patna	Masaurhi
66	Purnea	Baisi	Purnea
67		Barsoi	Baisi
68		Dhamdaha	Barsoi
69		Katihar	Dhamdaha
70		Manihari	Katihar
71		Purnea	Manihari
72	Saharsa	Gogri	Simri Bakhtiyarpur
73		Khagaria	Gogri
74		Saharsa	Khagaria
75		Simri Bakhtiyarpur	Saharsa
76	Samastipur	Dalsinghsarai	Samastipur
77		Patori	Dalsinghsarai
78		Rosera	Patori
79		Samastipur	Rosera
80	Sasaram	Bhabhua	Sasaram-2
81		Dehri	Bhabhua
82		Sasaram-2	Dehri
83	Sitamarhi	Belsand	Sitamarhi
84		Pupri	Belsand
85		Sheohar	Pupri
86		Sitamarhi	Sheohar
87	Siwan	Gopalganj-1	Siwan-1
88		Gopalganj-2	Siwan-2

INSPECTION REPORT FOR MOTORABLE WORK

Name of PIUs :- Anish kr. Singh (Executive Engineer)	
Name of Block/Road :- Asthawan	
A. For Road	
1. Damage Location/Chainage :- 2.8 km	
2. Damage Length :- 15 m 13 m	
3. Nature of Damage (Length Wise)	(i) Breach :- 12 m
	(ii) Crust Damage :- 14 m
	(iii) Only Flank Damage :- 19 m
whether traffic fully/Partially obstructed :- fully	
4. Details of Restoration :-	
(i) Material Being Used in Restoration :- Bricks bats, Sand bags	
(ii) Equipment/Tools Being Used in Restoration Works :- Tractor, tipper, roller	
(iii) Restored Length	In open Area :- 15 m
	In habitation Area :- NA
(iv) If Restoration work done in habitation Area give Reason :- NA	
B. For Bridge (Size of Bridge/Culvert)	
(1) Damage Location/Chainage :-	
(2) No. of Span Damage :-	
(3) Length of Span :-	
(4) Nature of Damage (Pier/Abuttment/ Wing Wall/Approach Road Damage) :-	
(5) Details of Restoration :-	
(i) Material Being Used in Restoration :-	
(ii) Equipment/Tools Being Used in Restoration Works :-	
(iii) Restored Length :-	
Overall Grade of Restoration work (Satisfactory/Unsatisfactory) :-	

Signature of Inspector
(Official Seal)

A. Kumar



Molna Bigha
14/11/2024
P.C.

Molna Bigha
14/11/24

FULLY RESTORATION OF DAMAGED ROAD

GENERAL ABSTRACT OF COST

Block:--	asthawan	District:--	Nalanda
Construction Length of Road:--	3.130 KM		
Name of Road:--	temporary restoration of work NH-82,jirain onda path ke molna		
SL. No.	Item of Work	Amount	
A	TOTAL COST OF CONSTRUCTION	5.74 4.504	Lacs
	LABOUR CESS @1%	0.0 0.045	Lacs
	GST @18%	0.0 0.819	Lacs
	SUB TOTAL	5.74 5.368	Lacs
	TOTAL (A)	5.74 5.368	Lacs
	TOTAL PROJECT COST (A+B)	5.74 5.368	Lacs

Mangeshkar
30/10/24
Junior Engineer

Binay
30/10/24
Asstt. Engineer

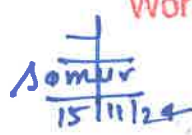
Binay
30/10/24
Executive Engineer

SE
RWD

Technically Sanctioned for Rs.....5.74 Lac
(Rupees.....five Lac Seventy four
.....Thousand.....only.....)

Condition and direction laid down in attached
technical notes with DPR is to be followed strictly.


S. E.
RWD
Work Circle Nalanda


15/11/24

GENERAL ABSTRACT OF COST FOR MAINTENANCE OF ROAD

NAME OF ROAD	temporary restoration of road nh 82 jirain onda path ke molna bigha morh to dhay pipal high level bridge at ch 2.8 km
DISTRICT	Nalanda
BLOCK	asthawan
DIVISION	biharsharif

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
PART-A	INITIAL RECTIFICATION INCLUDING SURFACE RENEWAL	
1	SAND BAG	0.193 0.140
2	Supplying, Filling, Spreading & Compacting of Brick Bats at work Site	5.555 4.364
	Total	5.74 4.504
	SUB TOTAL =	5.74 4.504
	1% LABOUR CESS @	0.0 0.045
	18 % GST (B)	0.0 0.819
	TOTAL COST OF PROJECT (including GST & Labour Cess) IN LACS =	5.74 5.368


 JE
 RWD


 AE
 RWD


 JE
 RWD



by 30/10/24



Monjeet Lal
 30/10/24
 T.C

Adinar
 30/10/24
 A.E

7/8/24
K. S. / 10/24
M. S. / 10/24

51
20/10/24
M. S. / 10/24



hfg
30/10/24

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Wang
10/11/2012
JE
RWD

AE
RWD
30/11/19

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RWD
check and verified by me
und
14/11/24

Analysis for Carriage by Road

Name of Road:- Temporary Restoration Of Road At Ch-1.3 Km. To Mahatpura NH82, Jirain onda Puth
ke molna Bisha morh to day pital high level bridge At ch-2.8 Km

District:- Nalanda

SI No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km										Loading & Unloading Cost	Total *
				Pucka / Surface By Tipper & Truck					Katcha						
1	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00 4.99	x 9.80	x 25.00 Km	Rs 392.79	8.00 4.99	x 15.60	x 0.00 Km	=	Rs 0.00	148.56	Rs 541.35	
4	Course Sand	Cum	Nardiganj	8.00 4.99	x 6.45	x 48.00 Km	Rs 496.35	8.00 4.99	x 15.60	x 0.00 Km	=	Rs 0.00	77.72	Rs 574.07	
6	Local Sand	Cum	Local	8.00 4.99	x 6.45	x 2.00 Km	Rs 20.68	8.00 4.99	x 15.60	x 1.00 Km	=	Rs 25.01	77.72	Rs 123.41	
7	Brick	1000 Nos	Local	8.00 2.00	x 6.45	x 5.00 Km	Rs 129.00	8.00 2.00	x 15.60	x 1.00 Km	=	Rs 62.40	308.32	Rs 499.72	
8	Cement	MT	Local	8.00 8.00	x 6.45	x 15.00 Km	Rs 96.75	8.00 8.00	x 15.60	x 0.00 Km	=	Rs 0.00	217.88	Rs 314.63	
9	Steel	MT	Local	8.00 8.00	x 6.45	x 15.00 Km	Rs 96.75	8.00 8.00	x 15.60	x 0.00 Km	=	Rs 0.00	217.88	Rs 314.63	
12	Hume Pipe (1000 mm)	m	Mora Talab	8.00 10.00	x 6.45	x 15.00 Km	Rs 77.40	8.00 10.00	x 15.60	x 0.00 Km	=	Rs 0.00	48.48	Rs 125.88	

Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	Per Ton. Km by Tipper	Per Ton. Km by Truck
For Surface Road	9.80	6.45
Unsurface Gravel Road	11.80	7.75
Kachha Road	23.80	15.60

Asst. Engg
RWD- Biharsharif

Executive Engg
RWD- Biharsharif

20/10/24
20/10/24

20/10/24
20/10/24

(A) Labour

1

**BASIC RATES
(B) Material**

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR	Final Rate
M-029		Bamboo (2nd Class) 75mm dia, 1.8 m - 2.5 m long	No.	22.03	22.03
M-030		Bamboo (2nd Class) 75mm dia, 2.1 m - 3.0 m long	No.	22.03	22.03
M-033	M-072	Binding wire	kg	46.00	46.00
M-045	M-079	Brick 1st Class	No.	5.372	5.37
M-046		Cement (OPC - 43 Grade) (Excluding the cost of empty bag @ Rs. 5.87 / Per Bag) (OPC 43 grade)	t	6,213.80	6,213.80
M-114	M-149	RCC Pipe NP4 (1000 mm dia)	m	5,570.00	5,570.00
M-120	M-005	Sand (Coarse)	cum	502.80	502.80
M-121	M-006	Sand (Fine)	cum	144.75	144.75
M-141	M-189	Water	kl	60.30	60.30
M-150	M-013	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	cum	931.75	931.75
M-154	M-017	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	cum	429.97	429.97

BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY

Sr. No.	SOR Code	Description of		Output of Machine		Usage Rates in Rs.	
		Machine	Activity	Unit	Output	Unit	Rate
PM-018	P&M-032	Motor Grader	Scarifier & levelling	cum/h	200.00	per hour	2,982.00
	P&M-054	Tractor Mounted Grader			50.00		693.00
PM-026	P&M-044	Three wheel 80-100 kN Static Roller	Compaction/ Rolling			per hour	1,593.00
PM-032	P&M-055	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.30
PM-034	P&M-060	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	752.00

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
Haulage BY TIPPER							
13		(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m. Unit = cum Taking output = 5.5 cum				
		a)	Labour				
			Mate	day	0.01	434.00	2.17
			Mazdoor (Unskilled)	day	0.13	488.64	61.08
		b)	Machinery				
			Truck	hour	0.17	934.30	155.09
			Cost for 5.5 cum = a+b+c+d				218.34
			Rate per cum = (a+b+c+d) / 5.5				39.70
			Total Cost	Cum			39.70
			Total Loding & Unloading of Sand / Moorum	Cum	= 76.34 + 39.7 =		116.04
14	1.3	(i)	Loading, Unloading and Stacking of Bricks by Manual Means				
			Loading of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour				
			Mate	day	0.01	434.00	4.34
			Mazdoor (Unskilled)	day	0.25	488.64	122.16
		b)	Machinery				
			Truck	hour	0.33	934.30	308.32
			Cost for 2000 Nos. = a+b+c+d				434.82
			Rate for 1000 bricks = (a+b+c+d)/2				217.41
			Total Cost	no.			217.41
15		(ii)	Unloading and Stacking of Bricks by manual means including a lead upto 30 m Unit = 1000 Nos. Taking output = 2000 Nos.				
		a)	Labour				
			Mate	day	0.01	434.00	4.34
			Mazdoor (Unskilled)	day	0.25	488.64	122.16
		b)	Machinery				
			Truck	hour	0.33	934.30	308.32
			Cost for 2000 Nos. = a+b+c+d				434.82
			Rate for 1000 bricks = (a+b+c+d)/2				217.41
			Total Cost	no.			217.41
			Total Loding & Unloading of Brick Per 1000		= 217.41 + 217.41 =		434.82
PAVEMENT CRUST LAYERS							
4	4.10	401	Granular Sub-base with Well Graded Material (Table 400.1) (By mix in place method) For Grading II Material Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		(ii)	For Grading II Material				
			Unit = cum Taking output = 300 cum				
		a)	Labour				
			Mate	day	0.48	0.00	0.00
			Mazdoor (Skilled)	day	2.00	618.54	1237.08

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		b)	Mazdoor (Unskilled)	day	10.00	488.64	4886.40
			Machinery				
			Tractor mounted grader arrangement for grading @ 100 cum per hour	hour	12.00	0.00	0.00
			Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	1921.18	57635.40
			Tractor with Rotavator 25 cum per hour	hour	12.00	0.00	0.00
			Water tanker 6 kl capacity	hour	5.00	0.00	0.00
		c)	Material				
			Well graded granular sub-base material as per Table 400.1				
			26.5 mm to 9.5 mm @ 35 per cent	cum	126.00	1797.27	226456.02
			9.5 mm to 2.36 mm @ 25 per cent	cum	90.00	1169.84	105285.60
			2.36 mm below @ 40 per cent - Local Sand	cum	144.00	363.20	52300.80
			Water	kl	30.00	60.30	1809.00
		d)	Overheads @ 6% on (a+b+c)				0.00
		e)	Contractor's profit @ 10% on (a+b+c+d)				0.00
			Cost of GSB for 300 cum				449610.30
			A) Cost of GSB without carriage per cum	cum			1498.70
		f)	<u>CARRIAGE</u>				
			Carriage for GSB material	Cum	0.720	0.00	0.00
			Carriage for material below 2.36 mm (Local Sand)	Cum	0.480	0.00	0.00
			Rate per cum with carriage				1498.70
				CUM			1498.70

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
21 (II)	9.30	1100	Providing and Laying Reinforced Cement Concrete Pipe NP3 as per design in Single Row				
			Providing and laying reinforced cement concrete pipe NP3 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets Clause 1106.				
			B. 1000 MM DIA				
			Unit =m				
			Taking output =7.5 m (3 pipes of 2.5 m length each)				
			a) Material				
			i) Sand at site	cum	0.04	0.00	0.00
			ii) Cement at site	ton	0.03	0.00	0.00
			iii) RCC pipe NP 3pipe 1000mm dia	m	7.50	7380.29	55352.18
			b) Labour				
			Mate	day	0.09	0.00	0.00
			Mason (1st class)	day	0.25	0.00	0.00
			Mazdoor (Unskilled)	day	2.00	488.64	977.28
			Cost for 7.5m = (a+b+c+d)				56329.46
			Rate per m =(a+b+c+d)/7.5				7510.59
			Carrige cost:-				
			Sand at site	cum	0.01	0.00	0.00
Cement at site	ton	0.00	0.00	0.00			
RCC pipe NP3 concrete pipe including collar at site	m	1.00	0.00	0.00			
Rate per cum including Carrige				7510.59			
6		NEW	Brick Bat	m			7510.59
			Supplying , Filling , Spreading & Compacting of Brick Bats at work Site				
			Unit = CUM				
			Taking output = 360 cum for 300 cum				
			Machinery				
			Three wheel 8-10 t Smooth whelled roller	hr	3.75	1921.18	7204.43
		a)	Labour				
			Mate	day	0.480	0.00	0.00
			Mazdoor Skilled	day	2.000	618.54	1237.08
			Mazdoor Unskilled	day	10.000	488.64	4886.40
		b)	Material				
			Brick Bats	Cum	360.00	1939.67	698281.20
			Local Sand	Cum	80.28	363.20	29157.70
			Basic Rate per Cum				2469.22
			Carraige Cost				
			Local Sand		0.2676	0.00	0.00
			Brick Bats (735.18 x 850)/(1000 x 2.83)				0.00
			Rate per cum	cum			2469.22

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
1	14.12	1300	Single Bamboo spur and palasiding / walling of whole 2nd class bamboo(jati or Bethua) 65 mm to 75 mm dia and closely packed and driven fitting fixing with half bamboo kamis horizontally in three rows with cane or tying with wire complete and struts 1.5 m apart longitudinally and providing brush wood as per drawing and technical specification clause 1302.5 Driven at least 900 mm below ground and 1800 mm above ground on average Unit = RM Taking output = 3.00 m				
		a)	Material				
			2nd class bamboo (65 mm to 75 mm dia 3 m long	nos.	3.00	22.03	66.09
			Binding wire	Kg	0.15	46.00	6.90
			Brush Wood (LS RS. 10.00)	LS			10.00
		b)	Labour				
			Mate	day	0.04	0.00	0.00
			Mazdoor (Unskilled)	day	1.00	488.64	488.64
			Sundries	LS			5.00
		E)	Cost for 3 m = (a+b+c+d)				576.63
			Rate per meter = (a+b+c+d+e)/3				192.21
			Final Rate				192.21
1	14.12	1300	Labour for fitting and fixing split bamboo nwoven chachari in position with 20 swg. G.I wire or 75 mm to 100 mm long nails alternative including cost of G.I wire or nails complete job as per specification and direction of E/I (Assuming strip of 3.05 x 3.05 = 9.30 sqm) Unit = per sqm Taking output = 9.30 sqm				
		a)	Material				
			75 mm to 100 mm long nails	Kg	0.25	60.00	15.00
			Supplying fitting and fixing bamboo		9.30	19.65	182.75
		b)	Labour				
			Carpenter GR-I	nos.	1.00	550.00	550.00
			Mazdoor (Unskilled)	nos.	1.00	488.64	488.64
		E)	Cost for 9.30 sqm = (a+b+c+d)				1236.39
			Rate per sqm = (a+b+c+d+e)/9.30				265.89
			Final Rate				265.89

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
		NEW	Sand Bags				
			Supplying, filling and laying sand bags at work site				
			Unit = Nos				
			Taking output = 100 Nos				
		a)	Labour				
			Mazdoor (Unskilled)	day	2.00	488.64	977.28
		b)	Material				
			Local Sand	Cum	3.50	363.20	1271.20
			Empty Cement Bags	No	100.00	4.11	411.00
			Basic Rate per bag (a+b+c+d)/100				26.59
			Carriage of Local Sand		0.035	0.00	0.00
			Rate Per Bag	No			26.59

Chapter 1

LOADING, UNLOADING, CARRIAGE CRUSHING OF MATERIALS AND SETTING OUT

Notes:

- 1 Rates are for net quantities after deduction of voids.
- 2 Part of km beyond 1 km will be payable for the full km.

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1.2		Loading and Unloading Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means				
		(i) Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by mechanical means including a lead upto 30 m				
		Placing tipper at loading point, loading with front end loader excluding time for haulage and return trip.				
		Unit = cum				
		Taking output = 5.5 cum				
		Time required for				
		i) Positioning of tipper at loading point	Min	1		
		ii) Loading by front end loader 1 cum bucket capacity @ 45 cum per hour	Min	7.33		
		iii) Waiting time, unforeseen contingencies, etc.	Min	2		
		Total	Min	10.33		
		a) Machinery				
		(i) Tipper 10 t capacity	hour	0.172	1,426.00	245.27
		(ii) Front end-loader 1 cum bucket capacity @ 45 cum per hour	hour	0.122	1,419.00	173.12
		Cost for 5.5 cum = a+b				418.39
		Rate per cum = (a+b) / 5.5				76.07
		(ii) Loading of Earth, Sand, Moorum, Manure, Flyash by mechanical means including a lead upto 30 m.				
		Placing tipper at loading point, loading with front end loader excluding time for haulage and return trip.				
		Unit = cum				
		Taking output = 5.5 cum				
		Time required for				
		i) Positioning of tipper at loading point	Min	1.00		
		ii) Loading by front end loader 1 cum bucket capacity @ 100 cum per hour	Min	3.30		
		iii) Waiting time, unforeseen contingencies, etc.	Min	2.00		
		Total	Min	6.30		
		a) Machinery				
		(i) Tipper 10 t capacity	hour	0.105	1,426.00	149.73
		(ii) Front end-loader 1 cum bucket capacity @ 100 cum per hour	hour	0.055	1,419.00	78.05
		Cost for 5.5 cum = a+b+c				227.78
		Rate per cum = (a+b+c) / 5.5				41.41

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
		(iii) Unloading of Earth, Sand, Lime, Moorum, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Manure, Crushed Slag, Flyash, Stone for Masonry Work by mechanical means. Unit = cum Taking output = 5.5 cum Placing tipper at unloading point excluding time for haulage and return trip Time required for i) Positioning of tipper at unloading point ii) Manoeuvring, reversing, dumping and turning for return iii) Waiting time, unforeseen contingencies, etc. Total a) Machinery Tipper 10 t capacity Cost for 5.5 cum = a+b+c	Min Min Min Min hour	1.00 2.00 2.00 5.00 0.08	 1,426.00	 114.08 114.08
Rate per cum = (a+b+c)/5.5						20.74
CALCULATION BY TIPPER						
1.10		Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 tkm Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour a) Machinery Tipper 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	 hour hour	 0.40 0.29	 1,426.00 1,426.00	 570.40 413.54 983.94
Rate per t.km = (a+b+c)/100						9.80
		Note: In case of carriage of Hume pipes, output of truck be taken as 8 t and the rate for t is to be divided by number of pipes of different Case-II: Unsurfaced Gravel Road Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour a) Machinery Tipper 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	 hour hour	 0.50 0.33	 1,426.00 1,426.00	 713.00 470.58 1,183.58
Rate per t.km = (a+b+c)/100						11.80

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Note:	In case of carriage of Hume pipes, output of truck be taken as 8 t and the rate per t is to be divided by number of pipes of different Case-III: Katcha Track and Track in River Bed/Nallah Bed and Choe Bed Speed with load: 10 km per hour Speed while returning empty: 15 km per hour a) Machinery f) Tipper 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	hour hour	1.00 0.67	1,426.00 1,426.00	1,426.00 955.42 2,381.42
Rate per t.km = (a+b+c)/100						23.80
	Note:	In case of carriage of Hume pipes, output of truck be taken as 8 t and the cost for 8 t is to be divided by number of pipes of different				
CALCULATION BY TRUCK						
1.10		Haulage excluding Loading & Unloading Haulage of materials by tipper excluding cost of loading, unloading and stacking. Unit = t.km Taking output 10 t load and lead 10 km = 100 t.km Case-I : Surfaced Road Speed with load: 25 km per hour Speed while returning empty: 35 km per hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	hour hour	0.40 0.29	934.30 934.30	373.72 270.95 644.67
Rate per t.km = (a+b+c)/100						6.45
	Note:	In case of carriage of Hume pipes, output of truck be taken as 8 t and the rate for t is to be divided by number of pipes of different Case-II: Unsurfaced Gravel Road Speed with load: 20 km/hour Speed for empty return trip: 30 km/hour a) Machinery Truck 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	hour hour	0.50 0.33	934.30 934.30	467.15 308.32 775.47
Rate per t.km = (a+b+c)/100						7.75

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
	Note:	In case of carriage of Hume pipes, output of truck be taken as 8 t and the rate per t is to be divided by number of pipes of different Case-III: Katcha Track and Track in River Bed/Nallah Bed and Choe Bed Speed with load: 10 km per hour Speed while returning empty: 15 km per hour a) Machinery i) Truck 10 t capacity Haulage with load Empty return trip Cost for 100 t.km = a+b+c	hour hour	1.00 0.67	934.30 934.30	934.30 625.98 1,560.28
Rate per t.km = (a+b+c)/100						15.60
TEC	Note:	In case of carriage of Hume pipes, output of truck be taken as 8 t and the cost for 8 t is to be divided by number of pipes of different Brick Flat Soling Laying brick soling layer on prepared sub-grade with brick on lines, graded and cross-section shown on the drawing filling joints with sand and earth as per Technical Specification Clause 412 Unit - sqm Taking output = 9.30 sqm a) Labour Mazdoor (Unskilled) Mason 2nd class b) Sundries c) Material Brick 1st Class New Fine Sand Cost for 9.30sqm = a+b+c+d+e	day day No. cum	1.00 0.50 300.00 0.142	0.00 0.00 6,213.80 42.95	0.00 0.00 18,64,140.00 6.10 18,64,147.70
Rate per sqm = (a+b+c+d+e)/9.3						2,00,445.99
CALCULATION BY TRACTOR						
1.4	(I)	Cost of Haulage Excluding Loading And Unloading Haulage of materials by Tractor excluding cost of loading, unloading and stacking. Unit - tonne.km Taking output = 3.6 tonnes load and lead 10 km = 36.0 t.km Surfaced Road i) speed with load 15 km/hr ii) speed while returning empty = 25 km/hr a) Machinery Tractor 3.60 tonne capacity time taken for onward haulage with load time taken for empty return trip Total cost for 36.00 tonne.km = (a+b+c)	hour hour	0.667 0.400	676.00 676.00	450.89 270.40 721.29
Rate per sqm = (a+b+c)/36						20.04
	(II)	Unsurfaced Road i) speed with load 12 km/hr ii) speed while returning empty = 20 km/hr a) Machinery Tractor 3.60 tonne capacity time taken for onward haulage with load time taken for empty return trip Total cost for 36.00 tonne.km = (a+b+c)	hour hour	0.833 0.500	676.00 676.00	563.11 338.00 901.11
Rate per sqm = (a+b+c)/36						25.03
	(III)	Kaccha Track and Track in River Bed/Nala Bed & Choe Bed i) speed with load 10 km/hr				

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
		ii) speed while returning empty = 15 km/hr				
		a) Machinery				
		Tractor 3.60 tonne capacity				
		time taken for onward haulage with load	hour	1.000	676.00	676.00
		time taken for empty return trip	hour	0.667	676.00	450.89
		Total cost for 36.00 tonne.km = (a+b+c)				1,126.89
		Rate per sqm = (a+b+c)/36				31.30

LINK ROUTE No. :-

Sl. No.	GENERAL DATA	DETAILS	DATA
3	ORIGINATING FROM	Temporary restoration of road NH-82 Jirain onda path Ke Molna Bigha More to Dhay Pipal High level Bridge at ch-2.8	
7	DIVISION	Biharsharif	
10	NAME OF ROAD	NH-82 Jirain onda path Ke Molna Bigha More to Dhay Pipal High level Bridge	
11	BLOCK	Asthawan	
12	DISTRICT	Nalanda	
13	FROM	Temporary Restoration Of Road At Ch-2.8 Km	
14	TO	Molna Bigha	
15	LENGTH OF ROAD (M) L	Sasa	
16	LENGTH OF ROAD	50	
17	LENGTH OF FLEXIBLE PAVEMENT(Lf)	3250 m	
18	LENGTH OF RIGID PAVEMENT(Lp)	0	
19	WIDTH OF CARRIAGE WAY(Br)	3.750	
20	WIDTH OF SHOULDER(Bs)	1.125	
21	TRAFFIC INTENSITY(β)	1.25	
	NO. OF HUME PIPE CULVERT	0	
	NO. OF SLAB CULVERT	0	
	LENGTH OF DRAIN	0	
	NO. OF GUARD STONE	0	
	DAMGED PORTION OF PCC	0.00	
	CHAINAGE (FROM)	CHAINAGE (TO)	LEFT / RIGHT
A			
B			
C			
D			
E			
F			
14	PROTECTION WORK		
	CHAINAGE (FROM)	CHAINAGE (TO)	LENGTH ALONG SLOPE
A	0	0	0
B			
C			
D			
E			
			0
15	ROAD SIDE FURNITURES/ OTHER DETAILS		
	PARTICULARS	UNITS	QUANTITY REQUIRED
A	5TH KM STONE	NOS	#VALUE!
B	NO OF KM STONE	NOS	#VALUE!
C	NO. OF 200M STONE	NOS	#VALUE!
D	NO OF TRAFFIC SIGN		

i)	900 mm equilateral & triangle , OR	NOS	#VALUE!
ii)	600 mm equilateral & triangle, OR	NOS	#VALUE!
iii)	600 mm circular , OR	NOS	#VALUE!
iv)	800 mm x 600 mm rectangular, OR	NOS	#VALUE!
v)	600 mm x 450 mm rectangular, OR	NOS	#VALUE!
vi)	600 mm x 600 mm, OR	NOS	#VALUE!
vii)	900 mm side octagon, OR	NOS	#VALUE!
E	NO. OF DIRECTION SIGN	NOS	#VALUE!
F	MAINTENANCE LOGO	NOS	2
G	MAINTENANCE LOGO	NOS	1

eProcurement System for Pradhan Mantri Gram Sadak Yojana (PMGSY)

Created By: Anand Prakash

Created Date/Time: 23-Jul-2024 05:27 PM

Tender Title: EO-Cum-Request for Quote for Empanelment/Biharsharif

Tender ID: 2024_ECBH_135013_1

Tender Inviting Authority: Engg-In Chief RWD Patna

Name of Work: EO-Cum-Request for Quote For Empanelment Of Supply Agencies

Contract No:

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No. of Qty	Units	Estimated Rate	ASHANAND SINGH (GSTN- 10BAPPS5697P120) BID ID -587273	GHANSHYAM KUMAR(GSTN-NA)- 587429
					Rate	Amount
1 00	Material					
2 00	Empty Cement Bags (Supply of Empty Cement Bag Capacity 1 2 CFT in Good condition And As per Specification)	1.00	Each		4.11	4.11
3 00	Bamboos(75 mm Dia 6 m to 8m Long)	1.00	no		28.03	28.03
4 00	100 mm Dia 6m to 8m Long	1.00	no		26.26	26.26
5 00	Brick Bats(Brick Bats of Well Burnt Bricks)	1.00	Cum		1939.67	1939.67
6 00	Total Sum(As per Specification)	1.00	Cum		363.20	363.20

23.07.2024

18.00	Scissor (about 8 hrs/ Day)	1.00	Per day
19.00	Scissor (about 8 hrs/ Day)	1.00	Per day
20.00	Mason (8 hrs/ Day)	1.00	Per day
21.00	Head Mason (8 hrs/ Day)	1.00	Per day
22.00	Bhisti (8 hrs/ Day)	1.00	Per day
23.00	Carpenter (8 hrs/ Day)	1.00	Per day
24.00	Night Guard (8 hrs/ Day)	1.00	Per day
25.00	Electrician (8 hrs/ Day)	1.00	Per day
26.00	all Tools, Plant & Machineries With Driver & Fuel		
28.00	Front End Loader 1.0 cum (Self Loading/ Aggregate Loading) Cum/Hour 60/25	1.00	Cum/Hour
29.00	8-10 Ton smooth Wheelers (Compaction / Consolidation) Cum/hour 70/25	1.00	Cum/Hour
30.00	Tractor With Trolley (Transportation of Material) Cum 3 to 5 ton	1.00	Cum

507.71	507.71	507.71	507.71
618.54	618.54	618.54	618.54
585.17	585.17	585.17	585.17
655.49	655.49	655.49	655.49
488.64	488.64	488.64	488.64
585.17	585.17	585.17	585.17
512.47	512.47	512.47	512.47
619.74	619.74	619.74	619.74
1706.34	1706.34	2100.00	2100.00
1921.18	1921.18	2500.00	2500.00
819.96	819.96	900.00	900.00

24/4/24

28.63	28.63	28.63	28.63	28.63
837.84	837.84	837.84	837.84	837.84
352.77	352.77	352.77	352.77	352.77

32 CC Generator With Generator of Material Cum 5	1.00 Cum	
33 CC Generator Set With Fuel (Generation of Electrical Energy) KVA 5	1.00 KVA	

37499.45

35827.22

Total in Figures

Lowest Amount Quoted BY: ASHANAND SINGH(35827.22)

E.E.
According to Auto
Generated E/S
1st lowest tendered
Ashanand Singh may
be forwarded for
approval.

(Signature)
24/7/24
D.A.O.1

अधीक्षण अभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, नालन्दा

Email ID-serwdnalanda@gmail.com.

Mob-8986915938

पत्रांक.....126/2150

नालन्दा/दिनांक ...15/11/24..

प्रेषक,

ई0 चन्द्रदेव मंडल,
अधीक्षण अभियंता,
ग्रामीण कार्य विभाग,
कार्य अंचल, नालन्दा

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, बिहारशरीफ।

विषय :- एन0एच0-82 जीराईन-ओन्दा पथ के मोलना बिगहा दक्षिण से धाय पीपल उच्चस्तरीय पुल तक अस्थाई मरम्मत कार्य FDR अन्तर्गत कार्य का प्राक्कलन तकनीकी स्वीकृति करने के संबंध में।

प्रसंग :- आपका पत्रांक-1433 (अनु0) दिनांक-14.11.2024,

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के आलोक में प्राप्त बाढ़ से क्षतिग्रस्त हुये 01(एक) पथ का FDR योजनान्तर्गत मोटेरेबल कार्य का प्राक्कलन तकनीकी स्वीकृति कर वापस की जाती है।

क्र0	योजना का नाम	लम्बाई (कि0मी0)	तकनीकी स्वीकृति की राशि (लाख में)
1	Temporary Restoration of road NH-82 Jirain-Onda Path ke Molna Bigha Mor To Dhay Pipal High Level Bridge.	3.130	5.74

विश्वासभाजन


(ई0 चन्द्रदेव मंडल)

अधीक्षण अभियंता,

ग्रामीण कार्य विभाग, कार्य अंचल, नालन्दा।