



Bihar Rural Road
Development Agency



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

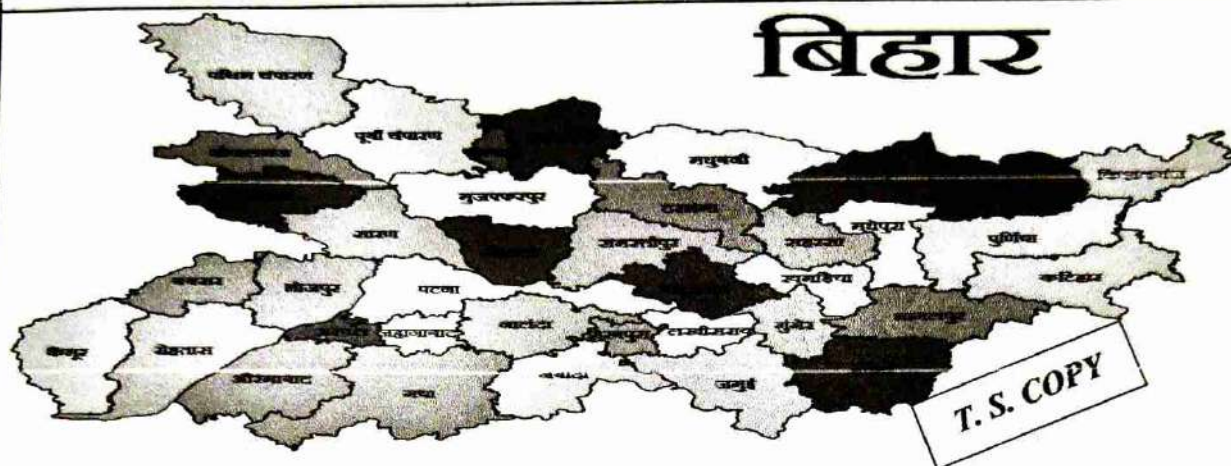


पुष्कामनी ग्राम सड़क योजना

BIHAR RURAL ROAD DEVELOPMENT AGENCY (BRRDA)

F.D.R. PART - A (2021 - 22)

DETAILED ESTIMATE FOR F.D.R. RESTORATION WORK



DISTRICT :

BHAGALPUR

BLOCK :

NARAYANPUR

NAME OF ROAD :

PMGSY ROAD SHAHABAD TO ATHGAMA

TOTAL LENGTH OF ROAD		:	10.000	KM
TOTAL COST OF FDR PART-A		:	75.516	LAKH
GST @ 12 %		:	9.062	LAKH
LABOUR CESS @ 1 %		:	0.755	LAKH
SEIGNIORAGE FEE @ 10 %		:	4.127	LAKH
TOTALCOST OF RESTORATION WORK		:	89.460	LAKH

Submitted By :-

EXECUTIVE ENGINEER

Rural Work Department
Works Division, Naugachhia

प्रतिवेदन

पथ का नाम :- बाढ़ से प्रभावित पथ PMGSY Road शाहाबाद से अठगामा में Restoration कार्य।

प्रखण्ड का नाम :- नारायणपुर।

प्रमंडल :- ग्रामीण कार्य विभाग, कार्य प्रमंडल, नवगछिया।

अंचल :- ग्रामीण कार्य विभाग, कार्य अंचल, भागलपुर।

पथ की लंबाई :- 10.00 कि०मी०।

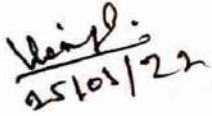
क्षतिगस्त पथ की लंबाई :-

प्राक्कलित राशि :- 89.460 लाख।

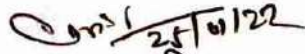
उपरोक्त वर्णित पथ गंगा के उस पार नारायणपुर प्रखण्ड में शहजादपुर पंचायत में पड़ता है। वर्णित पथ के सामानान्तरण गंगा नदी का मुख्य धार है। ज्ञातव्य है कि इस धार में सुलतानगंज के निकट कोलगामा ग्राम के पास गंगा नदी के पानी से तेज गति से कटाव हो कर गंगा के मुख्य धार से इस वर्तमान धार में पानी का बहाव अचानक बहुत ज्यादा तेज हो गया। पानी की इस तेज गति की बहाव से शाहाबाद अठगामा पथ पर पानी का अत्यधिक बहाव हो गया। जिसके कारण पथ में कई जगहों पर कटाव हो गया। पथ में जमीन तल से 1-10 मीटर गहड़ाई तक कटाव उत्पन्न हो गया। जिसका अनुमानित मापी संलग्न Annexure-'A' में वर्णित है। ज्ञातव्य है कि पथ को कटाव से बचाने हेतु Bamboo Piling एवं Bamboo Runner का प्रयोग किया गया है। साथ ही बालू भरी बोरी का भी उपयोग किया गया है।

कुछ हद तक पथ के अंश भाग को अत्यधिक कटाव होने से बचाया जा सका। पुनः पथ को चालू करने के लिए ईंट का टुकड़ा भर कर रेस्टोरेशन कार्य किया गया है।

प्राक्कलन वर्तमान अनुसूचित दर पर तैयार किया गया है।


25/01/22

कनीय अभियन्ता
ग्रामीण कार्य विभाग
कार्य प्रशाखा, नारायणपुर


25/01/22

सहायक अभियन्ता
ग्रामीण कार्य विभाग
कार्य अवर प्रमंडल, नारायणपुर


25/01/22

कार्यपालक अभियन्ता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, नवगछिया।

Inspection Report for Flood Damage Work

Date :-

Est. Cost - Rs 89.46 Lakh

1. Name of PIU :- R.W.D., Works Division, Navgachhiya

2. Name of Block/Road :- Narayanpur / PNHSY Road Sahabadi to Arugama

(A) For Road :-

1. Damage Location/Chainage :- CH-3000-3800m, 3800-4000, 5000-6000, 6000-7000, 7000-8000, 8000-9000 m Link - 0 to 700 m.
2. Damage Length :- 190m, 142.50m, 454.50m, 150.50m, 125.50m, 294.0m, 148.40m. Total length - 1505.40 m
3. Nature of Damage :- Erosion by Flood water
4. Details of Restoration works :-
 - (i) Material being used in Restoration works :- Local sand, E.C bag, N.C, Bamboo piling & Brick Batt.
 - (ii) Equipment's/Tools being used in Restoration works :-
 - (iii) Procedure taken up in Restoration works :-
 - (iv) Restored Length :- 1505.40 Metre

(B) For Bridge :-

1. Damage Location/Chainage :-
2. Damage Length :-
3. Nature of Damage :-
4. Details of Restoration works :-
 - (i) Material being used in Restoration works :-
 - (ii) Equipment's/Tools being used in Restoration works :-
 - (iii) Procedure taken up in Restoration works :-
 - (iv) Restored Length :-

(C) Requirement of New CD/Bridge :-

- (i) Name of Road :-
- (ii) Location/Chainage :-
- (iii) Type of CD work /length required :-

NOTES :-

- Upload one photograph of damage portion if available.
- Attach minimum two photographs (during restoration & after restoration) photographs should be Geotags and at least one photo be captured in selfie mode.
- Restoration work has been done during flood season, but at present exact measurement can't be possible as per actual work done.

(Motorable work found Satisfactory)

29/04/22

29/4/22
Signature of JE/AE/EE

Executive Engineer
R. W. D. W. D. Naugachia

Signature

(Name of Inspection)

29/04/22
JB

29/4/22
AE

29/04/22
AE

GENERAL ABSTRACT OF COST

Name of Road : PMGSY ROAD SHAHABAD TO ATHGAMA

District : BHAGALPUR

Length (Km) : 10.00

Block : NARAYANPUR

Sl. No	Particulars		Details (Km)	Total Cost (in Rs.)
1	Cost of Road Restoration work	:	10.00	75,51,593.00
2	Add G.S.T @ 12 %	:		9,06,191.00
3	Add L.C. @ 1 %	:		75,516.00
4	S. F. @ 10 %	:		4,12,737.00
	Total Cost of Restoration work	:		89,46,037.00
			Say,	89,46,037.00

Vijl
25/01/22
J. E.

Don't
25/01/22
A. E.

Rt
25/01/22
E. E.

Post-facto Technically Sanction for Rs- 89.46 Lacs (Rupee eighty nine Lacs forty six thousand) only.

[Signature]
Superintending Engineer
Rural Works Department
Works Circle, Bhagalpur
[Signature] 12/07/22
[Signature] 12/07/22

ESTIMATE FOR ROAD RESTORATION WORK

Name of Road: **PMGSY ROAD SHAHABAD TO ATHGAMA** Block: **NARAYANPUR** District: **BHAGALPUR** Length : **10.000 Km**

Sl. No.	SSR Item No.	Description	No	Length (M)	Width (M)	H/D (M)	Qty.	Unit	Rates (In Rs.)	Amount (In Rs.)
1	4.5	Providing brick bats including spreading laying hand packing and compacting with C.I. Hammer in layers not exceeding 75 mm thick including cost of light, barriers, danger signals, chowkidar, taxes, royalty etc. all complete job as per specification and direction of E/I excluding carriage cost of bricks.								
		As per attached " Annexure - A "					3743.16			
							3743.16	Cum	1677.54	62,79,301.00
2	5.7.7	Rate for cutting 62 mm to 75 mm dia bamboo pile to size and making shoes and driving etc. all complete job as per specification and direction of E/I								
			78	5.00			390.00			
			28	5.00			140.00			
							530.00	m	50.39	26,707.00
3	5.7.9	Rate for fitting & fixing 62mm to 75 mm dia bamboo runners in position at every vertical piles with 150 m long nails or 38 swg G.I. wire including cost of G.I. or nails all complete job as per specification and direction of E/I								
			5	78			390.00			
			5	28			140.00			
							530.00	m	28.43	15,068.00
4	5.7.53	Providing sand bag with sand and labour including carriage laying, filling etc all complete job as per specification and direction of E/I								
		As per attached " Annexure - B "					40082	/ bags	30.70	12,30,517.00
							Total Cost of Flood Protective work =			75,51,593.00

U. E.
25/01/22
J. E.

Q. E.
25/01/22
A. E.

R. E.
25/01/22
E. E.

ANNEXURE - " A "

Brick Bat Measurement

Name of Road : **PMGSY ROAD SHAHABAD TO ATHGAMA**

Length (Km) : **10.000**

Sr. No.	Chainage (m)			Nos.	Length (m)	Width (m)			Average Width (m)	Depth (m)			Average Depth (m)	Quantity (Cum)
1	3000	-	3800	1	15.00	2.00			2.00	0.30			0.30	9.00
2				1	170.00	4.00			4.00	0.60			0.60	408.00
3				1	5.00	2.00			2.00	1.00			1.00	10.00
26	3800	-	4000	1	127.00	3.90			3.90	0.40	0.60		0.50	247.65
27				1	15.50	1.50			1.50	0.60			0.60	13.95
28	5000	-	6000	1	24.50	1.00			1.00	0.50			0.50	12.25
29				1	7.00	2.10			2.10	0.40			0.40	5.88
30				1	9.50	1.00			1.00	0.45			0.45	4.28
31				5	5.00	1.00			1.00	0.50			0.50	12.50
32				1	31.50	1.50			1.50	0.40			0.40	18.90
33				1	2.00	0.50			0.50	0.30			0.30	0.30
34				1	2.00	0.50			0.50	0.30			0.30	0.30
35				1	1.50	1.00			1.00	0.40			0.40	0.60
36				1	9.00	0.50			0.50	0.40			0.40	1.80
37				1	12.00	0.60			0.60	0.45			0.45	3.24
38				1	4.00	1.00			1.00	0.45			0.45	1.80
39	1st Cutting			1	61.00	2.00	4.00		3.00	3.00			3.00	549.00
40				1	61.00	3.50			3.50	0.75			0.75	160.13
41				1	10.00	1.80			1.80	1.00	2.00		1.50	27.00
42				1	152.00	4.00			4.00	1.00	2.00		1.50	912.00
43	2nd Cutting			1	28.00	2.00	4.00		3.00	3.00			3.00	252.00
44	Near H.P			1	10.00	2.00	4.50		3.25	3.10			3.10	100.75
45				1	3.00	1.40			1.40	0.90			0.90	3.78
46				1	1.50	1.50			1.50	0.90			0.90	2.03
47	6000	-	7000	1	64.00	4.00	5.00		4.50	0.30	0.90		0.60	172.80
48				1	20.00	1.50			1.50	0.40			0.40	12.00
49				1	10.00	4.50			4.50	0.90			0.90	40.50

50				1	7.00	0.60			0.60	0.50			0.50	2.10
51				1	15.50	1.00			1.00	0.50			0.50	7.75
52				1	4.00	1.00			1.00	0.40			0.40	1.60
53				1	5.00	1.10			1.10	0.30			0.30	1.65
54				1	5.00	0.40			0.40	0.30			0.30	0.60
55				1	5.00	0.90			0.90	0.30			0.30	1.35
56				1	7.00	1.00			1.00	0.30			0.30	2.10
57				1	8.00	1.10			1.10	0.40			0.40	3.52
58	7000	-	8000	1	24.00	1.30			1.30	0.60	1.00		0.80	24.96
59				1	8.00	1.20			1.20	0.60			0.60	5.76
60				1	16.50	2.50	3.00		2.75	0.30			0.30	13.61
61	Near Logo Bord			1	23.00	2.00			2.00	0.40			0.40	18.40
62	Near Logo Bord			1	10.00	6.00			6.00	0.60			0.60	36.00
63				1	8.00	2.50			2.50	0.60			0.60	12.00
64				1	15.00	4.50			4.50	0.60			0.60	40.50
65				2	7.00	2.00			2.00	0.60			0.60	16.80
66				1	7.00	3.00			3.00	0.30			0.30	6.30
67	8000	-	9000	1	28.00	0.60	1.20		0.90	1.00			1.00	25.20
68				1	138.00	1.50	2.00		1.75	1.40			1.40	338.10
69				1	30.00	1.80			1.80	0.25			0.25	13.50
70				1	10.00	1.80	2.30		2.05	0.30			0.30	6.15
71				1	23.00	1.50			1.50	0.45			0.45	15.53
72				1	39.00	1.50			1.50	0.30			0.30	17.55
73				1	10.00	1.00			1.00	0.30	1.00		0.65	6.50
74				2	5.00	3.00			3.00	0.30			0.30	9.00
75				1	6.00	2.00			2.00	0.30			0.30	3.60
4	LINK ROAD													
5	0	-	700	1	3.00	1.50			1.50	0.30			0.30	1.35
6				1	1.00	3.60			3.60	0.30			0.30	1.08
7				1	2.30	1.00			1.00	0.30			0.30	0.69
8				1	1.40	0.60			0.60	0.30			0.30	0.25
9				1	2.80	0.50			0.50	0.25			0.25	0.35
10				1	2.90	0.60			0.60	0.30			0.30	0.52
11				1	6.40	0.40			0.40	0.30			0.30	0.77

12				1	11.00	0.60			0.60	0.30			0.30	1.98
13				1	14.00	3.50	3.90		3.70	0.60	1.20		0.90	46.62
14				1	3.00	1.00			1.00	1.00			1.00	3.00
15				1	3.40	0.50			0.50	1.00			1.00	1.70
16				1	5.40	0.40			0.40	1.00			1.00	2.16
17				2	3.00	0.30			0.30	0.30			0.30	0.54
18				1	10.00	3.60			3.60	0.30			0.30	10.80
19				1	4.00	0.60			0.60	0.40			0.40	0.96
20				1	1.50	0.60			0.60	0.30			0.30	0.27
21				2	5.00	0.40			0.40	0.20			0.20	0.80
18				1	6.50	1.00	2.00		1.50	1.10			1.10	10.73
19				1	12.30	0.60			0.60	0.20			0.20	1.48
20				2	4.00	0.40			0.40	0.20			0.20	0.64
22	Near H.P			1	10.50	1.80	2.30		2.05	0.60	1.00		0.80	17.22
23			RHS	1	12.00	2.30			2.30	0.70	1.00		0.85	23.46
24				1	5.50	1.80			1.80	0.15			0.15	1.49
25				1	5.50	2.10			2.10	0.15			0.15	1.73
	Total =												3743.16	

S. F.	-	3743.16	Cum	@	Rs,	1051.00	x	10%	=	Rs.	3,93,406.00
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J. E.

25/01/22
A. E.

25/01/22
E. E.

ANNEXURE - " B "

E. C. Bags Measurement

Name of Road : PMGSY ROAD SHAHABAD TO ATHGAMA

Length (Km) : 10.000

Sr. No.	Chainage (m)			Nos.	Length (m)	Width (m)			Average Width (m)	Depth (m)			Average Depth (m)	Quantity (Cum)	Quantity (No of bag)
1	5000	-	6000	1	4.00	2.50			2.50	1.00			1.00	10.00	294
2				1	9.00	2.50			2.50	1.00			1.00	22.50	662
3				1	9.80	1.50			1.50	0.50			0.50	7.35	216
4				1	10.50	1.20			1.20	0.30			0.30	3.78	111
5				1	6.00	1.00			1.00	0.60			0.60	3.60	106
6				1	3.00	1.00			1.00	0.30			0.30	0.90	26
7				1	5.00	1.80			1.80	0.50			0.50	4.50	132
8				1	24.00	1.20			1.20	0.45			0.45	12.96	381
9				1	1.00	1.00			1.00	1.00			1.00	1.00	29
10				1	3.50	2.00			2.00	0.50			0.50	3.50	103
11				1	6.00	1.00			1.00	0.50			0.50	3.00	88
12				1	5.00	1.50			1.50	0.50			0.50	3.75	110
13				1	24.00	3.00			3.00	0.60			0.60	43.20	1271
14	1 st Cutting			1	17.00	1.20	2.50		1.85	3.30			3.30	103.79	3053
15				1	61.00	1.20	2.50		1.85	2.75			2.75	310.34	9128
16	2nd Cutting			1	28.00	1.75	3.00		2.38	2.50			2.50	166.60	4900
17	Near H.P			1	27.00	2.20	3.50		2.85	2.60			2.60	200.07	5884
18	3 rd Cutting			1	70.00	1.50	2.50		2.00	3.30			3.30	462.00	13588
													Total =	1,363	40,082

	S. F.	-	40082	Nos.	@	Rs,	4.82	x	10%	=	Rs.	19,331.00
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Usp.
25/01/22
J. E.

Qnd.
25/01/22
A. E.

25/01/22
E. E.

Carriage Cost of Material via Road

RWD, works Division, Bhagalpur

Name of Road :				PMGSY ROAD SHAHABAD TO ATHGAMA				Block : NARAYANPUR			
Sl No	Item	Unit	Source	Carriage Cost & Lead in Km				Loading & Unloading Cost	Carriage By Road	Total	
				Pucka / Surface		Katcha					
				8.00 4.59	x 7.47 x 117 Km	= Rs 1523.29	8.00 4.59	x 18.09 x 0 Km	= Rs 0.00		
1	Stone Metal Gr-II/Via Road	Cum	Mirza Cheuki	8.00 4.59	x 7.47 x 117 Km	= Rs 1401.19	8.00 4.59	x 18.09 x 0 Km	= Rs 0.00	1716.91	
2	Stone Metal Gr-III / GSB Via Road	Cum	Mirza Cheuki	8.00 4.59	x 7.47 x 117 Km	= Rs 1401.19	8.00 4.59	x 18.09 x 0 Km	= Rs 0.00	1594.81	
3	Stone Aggregate / Chips Via Road	Cum	Mirza Cheuki	8.00 4.59	x 7.47 x 117 Km	= Rs 1401.19	8.00 4.59	x 18.09 x 0 Km	= Rs 0.00	1594.81	
4	Stone Boulder /Via Road	Cum	Mirza Cheuki	8.00 4.80	x 7.47 x 117 Km	= Rs 1456.65	8.00 4.80	x 18.09 x 0 Km	= Rs 0.00	1650.27	
5	Coarse Sand/Via Road	Cum	Hanbara	8.00 4.99	x 7.47 x 117 Km	= Rs 1401.19	8.00 4.99	x 18.09 x 0 Km	= Rs 0.00	1506.07	
6	Mooram/Via Road	Cum	Mirza Cheuki	8.00 6.00	x 7.47 x 117 Km	= Rs 1165.32	8.00 6.00	x 18.09 x 0 Km	= Rs 0.00	1270.20	
7	Bitumen Barauni/ Via Road	MT	Barauni	8.00 8.00	x 7.47 x 112 Km	= Rs 836.64	8.00 8.00	x 18.09 x 0 Km	= Rs 0.00	1201.64	
8	Bitumen Emulsion /Via Road	MT	Fatuha	8.00 8.00	x 7.47 x 195 Km	= Rs 1456.65	8.00 8.00	x 18.09 x 0 Km	= Rs 0.00	1821.65	
9	Local Sand	Cum	Local	8.00 4.99	x 7.47 x 2 Km	= Rs 23.95	8.00 4.99	x 18.09 x 1 Km	= Rs 29.00	157.83	
10	Brick	1000 Nos	Local	8.00 2.00	x 7.47 x 7 Km	= Rs 209.16	8.00 2.00	x 18.09 x 1 Km	= Rs 72.36	723.14	
11	Cement	MT	Local	8.00 8.00	x 7.47 x 7 Km	= Rs 52.29	8.00 8.00	x 18.09 x 0 Km	= Rs 0.00	369.93	
12	Steel	MT	Local	8.00 8.00	x 7.47 x 7 Km	= Rs 52.29	8.00 8.00	x 18.09 x 0 Km	= Rs 0.00	389.99	
13	Hume Pipe (1000 mm)	M	Godda	8.00 10.00	x 7.47 x 116 Km	= Rs 693.22	8.00 10.00	x 18.09 x 0 Km	= Rs 0.00	768.91	
14	Hume Pipe (600 mm)	M	Godda	8.00 25.00	x 7.47 x 116 Km	= Rs 277.29	8.00 25.00	x 18.09 x 0 Km	= Rs 0.00	309.73	
15	Hume Pipe (300 mm)	M	Godda	8.00 60.00	x 7.47 x 116 Km	= Rs 115.54	8.00 60.00	x 19.82 x 0 Km	= Rs 0.00	147.98	
16	Bamboo	Nos	Kursela	8.00 8.00	x 7.47 x 53 Km	= Rs 395.91	8.00 8.00	x 19.82 x 0 Km	= Rs 0.00	713.55	
17	Brick bats	Cum	Local	8.00 2.00	x 7.47 x 7 Km	= Rs 209.16	8.00 2.00	x 18.09 x 1 Km	= Rs 72.36	475.14	
18	Klin Rubbish	Cum	Local	8.00 2.00	x 7.47 x 7 Km	= Rs 209.16	8.00 2.00	x 18.09 x 1 Km	= Rs 72.36	157.83	

Vijay
25/01/22
Junior Engineer

25/01/22
Assistant Engineer

Executive Engineer

Supervising Engineer
Rural Works Department
Bhagalpur
25/01/22

Rate Analysis

SDB Sl. No.	DESCRIPTION	Unit	QTY	Rate	Amount in Rs
4.5	Providing and Laying of Brick Bats				
	Placing tractor at loading point loading with front end loader dumpoing ,turning for return trip exluding time for haulage and return tirp				
	Unit = cum				
	Taking output = 2.832 cum				
a)	Labour				
	Mazdoor (Unskilled)	day	2.170	292	633.64
b)	Materilas				
	Brick Bats	cum	2.832	1,051.00	2976.43
c)	Carriage				
		cum	2.832	402.80	1140.73
	Cost for 5.5 cum = a+b+c				4750.80
	Rate per cum = (a+b+c+d)/2.832	cum			1677.54
	Total per cum	cum			1,677.54
5.7.9	Labour for fitting and fixing 62 mm to 75 mm dia bamboo runners in position at every verticle pile with 150 mm long nails or 38 swg G. I. wire including cost of G.I. or nails complete job as per specification and direction of E/I				
	Unit = Per mt.				
	Taking Out Put = 30.50 m				
(i)	Materials				
	Cost of 150 mm long nails	Kg	0.50	61.74	30.87
(ii)	Labour				
	Carpenter Gr -II	No.	0.125	351	43.88
	Unskilled Labour	No.	0.25	292	73.00
	Rate for 30.5 m				147.75
					147.75
	Rate for 1 m				4.84
(iii)	Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long	m	1.00	23.58	23.58
	Rate per m			Say.	28.43
5.7.7	Labour for cutting 62 mm to 75 mm dia bamboo piles in size and making shoes and driving etc. complete bob as per specification and direction E/I.				
	Unit = Per m				
	Taking Out Put = 30.50 m				
	Assurning				
	20 no pile sunk 1.525 m deeps				
	Total depth sunk 30.50 m				
(i)	Labour				
	Carpenter Gr -II	No.	0.25	351	87.75
	Unskilled Labour for piling	No.	2.50	292	730.00
					817.75
	Rate for 30.5 m				817.75
	Rate for 1 m				26.81
(ii)	Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long	m	1.00	23.58	23.58
	Rate per m			Say.	50.39
5.7.8	Labour for fitting and and fixing split bamboo woven chachari in position with 20 swg G.I. wire of 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	(Assuming strip of 3.05x3.05 = 9.30 sqm				
	Unit = per sqm				
	Taking Out = 9.30 sqm				
a	Labour				

	Carpenter Gr -II	No.	1.00	351	351.00
	Mazdoor (Unskilled) for pilling	No.	1.00	292	292.00
b	Materials				
	75 mm to 100 mm long nails	kg	0.25	61.74	15.44
c	Bamboo(2nd class) 75mm dia, 1.8 - 2.5m long	m	11	23.58	259.42
					917.85
	Rate Per Sqm = (a+b+c)/9.30				98.69
10.7.40 WRD	Labour for filling Cement Bag, swing and laying materilas Unit = Per Bag				
A	Supply Empty cement Bag with Sand	No	100	7.74	774.00
	Stiching Roll (Nylon)	No	2	30.00	60.00
				Total (A)	834.00
B	Unskilled Labour for filling stiching and staking	No	1.67	292	487.64
	Unskilled Labour for carrying and Placing at work site	No	3	292	876.00
	Skilled Labour for stiching	No	0.33	370	122.10
	Total per bag			Total (B)	1,485.74
C	Hire charge of Machine				
	Hire charge of Stiching Machine	No	0.33	50	16.50
	Hire charge of Generator 3 K.V.A	No	2.67	74	197.58
	Total per bag			Total (C)	214.08
D	Carriage Cost of Local Sand				
	1.2 Cft = 0.034 m³	cum	3.40	157.83	536.62
				Total (D)	536.62
	Total cost of (A+B+C+D) =	Bag			3,070.44
	Rate per Bag				30.70
4.1	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	0.40	304.00	121.60
	Mazdoor (Skilled)	day	2.00	370.00	740.00
	Mazdoor (Unskilled)	day	8.00	292.00	2336.00
b)	Machinery				
	Tractor mounted grader arrangement for grading @ 100 cum pe	hour	12.00	573.20	6878.40
	Three wheel 80-100 kN static roller @ 10 cum per hour	hour	12.00	803.00	9636.00
	Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
	Water tanker 6 kl capacity	hour	5.00	184.00	920.00
c)	Material				
	Well graded granular sub-base material as per Table 400.1				
	26.5 mm to 9.5 mm @ 35 per cent	cum	134.40	604.91	81299.90
	9.5 mm to 2.36 mm @ 25 per cent	cum	96.00	582.80	55948.80
	2.36 mm below @ 40 per cent - Local Sand	cum	153.60	514.58	79039.49
	Water	kl	30.00	40.00	1200.00
	Cost of GSB for 300 cum				244998.59
	A) Cost of GSB without carriage per cum	cum			816.66
e)	CARRIAGE				
	Carriage for GSB material	Cum	0.768	1594.81	1224.81
	Carriage for material below 2.36 mm (Local Sand)	Cum	0.512	1594.81	816.54
	Rate per cum with carriage				2858.01