



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

YEAR (2020 - 2021)

FDR

STATE :- BIHAR
DISTRICT :- Samastipur
BLOCK :- Bibhutipur

NAME OF ROAD :- Saakh Mohan To Mallika Tola Shayam Batta

TOTAL COST OF CONSTRUCTION :- Rs. 6.319 Lacs

TOTAL COST OF PROJECT :- Rs. 6.319 Lacs

SUBMITTED BY:

EXECUTIVE ENGINEER

RWD (W) DIVISION, DALSINGHSARAI
SAMASTIPUR

FDR
YEAR (2020 - 2021)
GENERAL ABSTRACT OF COST

Block:--Bibhutipur

District:--Samastipur

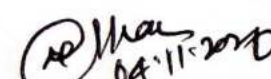
Name of Road:--

Saakh Mohan To Mallika Tola Shayam Batta

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	6.319 Lacs
	Sub Total= (A)	6.319 Lacs
	TOTAL cost of project	6.319 Lacs


24.11.2020
Junior Engineer
RWD (w) Section,
Bibhutipur


04/11/20
Asstt. Engineer
RWD (w) Sub Division, Bibhutipur


04.11.2020
Executive Engineer
RWD (w) Division,
Dalsinghsarai

Technical Approved for Rs 6,31,900 = 60 Lakhs
Lakh thirty one thousand nine hundred only.


20.11.2021
अधीक्षक अभियन्ता
साखीय कार्य विभाग
कार्य संचाल, प्रयागपुर

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD :

Saakh Mohan To Mallika Tola Shayam Batta

DISTRICT
BLOCK

Samastipur
Bibhutipur

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
1	BAMBOO WORK	0.272
2	SAND FILLED BAGS	1.138
3	BRICK BAT	4.182
Sub Total :-		5.592
12% GST on Total Amount :-		0.671
1% Lab Cess :-		0.056
Total Cost (including GSt and Labour Cess) :-		6.319

[Signature]
04.11.2020

Junior Engineer

RWD (w)Section , Bibhutipur

[Signature]
04/11/20

Assistant Engineer

RWD (w)Sub Division , Bibhutipur

[Signature]
04.11.20

Executive Engineer
Division,
Dalsinghsarai

Cost Estimate for Road Work

FORMAT F6

Sl. No.	SDB SL. NO.	MORD Ref. No.	Description	Unit				QUANTITY	RATE	AMOUNT (in Rs.)
1			Providing Bamboo Piling Damaged Strech round off figure	No	215.0 230.0	x x	2.000 1.525	430.00 350.75 351.0 351.000	28.40	9,968.40
2			Providing Bamboo Runner Damaged Strech 5% wastage (addition)		215.0	3.00		645.00 645.000 32.25 677.250	4.96	3,359.16
3			Supply Of Bamboo 63MM To 25MM Dia For Pile For Runner		3.0	351.00		1,053.00 677.250 1730.250	8.00	13,842.00
4			Brick Bats Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L							
			Damaged Strech	cum	60.0	1.000	1.200	72.00		
			Damaged Strech	cum	45.0	0.900	1.000	40.50		
			Damaged Strech	cum	30.0	1.200	1.200	43.20		
			Damaged Strech	cum	25.0	1.000	1.000	50.00		
			Damaged Strech	cum	30.0	1.200	1.200	43.20		
								248.90	1,680.02	4,18,156.98

10/11/20
AP

Cost Estimate for Road Work

FORMAT F6

Sl. No.	SDB SL. NO.	MORD Ref. No.	Description	Unit				QUANTITY	RATE	AMOUNT (in Rs.)
5			Sand Filled Bags Laying Filled Bags on Prepared Surface as per specifications and direction of E/L							
			Damaged Strech	cum	1.00	60.0	1.200	36.00		
			Damaged Strech	cum	1.00	45.0	1.000	20.25		
			Damaged Strech	cum	1.00	30.0	1.200	18.00		
			Damaged Strech	cum	2.00	25.0	1.300	39.00		
			Damaged Strech	cum	1.00	30.0	1.300	19.50		
			1 cum = 35.31 cft	cum				132.75		
			1 sand bag = 1.2 cft	cft				4,687.40		
			round off figure (No of bags)	no				3,906.17		
				no				3,907.00		
									SUB TOTAL =	1,13,849.98
										5,59,176.52
									TOTAL COST OF WORK IN RS. =	5,59,176.52

[Signature]
04.11.2020

Junior Engineer
RWD (w) Section, Bibhutipur

[Signature]
04/11/20

Assistant Engineer
RWD (w) Sub Division, Bibhutipur

Executive Engineer
RWD (w) Division, Dalsinghsarai

ANALYSIS OF RATES.

BRICK BAT FILLING.

1. ~~Gravimeter sub~~
 providing brick bats including spreading, laying and packing with C.I. Hammer in layers not exceeding 75MM thick including cost of eight corners, dangle, signal, chokidar, taxes, Royalty, etc, all complete job, as per specifications and directions of S.G. including cost of bricks, - - - all complete job.

Unit — cum.

assuming — 2.892 M³

Cost of brick bats — 2.892 M³ @ 109 6 = 00 — Rs 3163 = 87
 Mazdoor unskilled Local — 0.692 M³ @ 141 = 95/M³ Rs 89 = 65

Labour (unskilled)

1. Carrying, spreading, laying and packing in skilled labour 1.5 NO @ 287 = 00 — Rs 430 = 50
 Compaction of brick bats with C.I. Hammer 0.670 NO @ 287 = 00 — Rs 192 = 29
 Over head charge @ 6% on (a+b+c) — Rs 228 = 98
 Total — 4045 = 29
 Rate / M³ — Rs 1428 = 42 / M³.

Carrriage cost

Carrriage for Bricks (1 M³ bat) Rs 500 NO @ 663 = 50/M³ — Rs 199 = 06
 Local sand 0.220 M³ @ 97 = 00 / M³ — Rs 21 = 34
 Cost of sand with Royalty Rs 141 = 95 / M³
 Total Rs 1648 = 81
 31 = 21
 Total 1680 = 01

2. Gravimeter sub. base, with well Graded Material, Table 400.1 by mix and place method for grading
 If Material all complete job,
 300.0 M³

Labour — Mate — 0.48 NO @ 305.00 — Rs 146 = 40
 Mazdoor unskilled — 2.0 NO @ 364.00 — Rs 728 = 00
 Mazdoor unskilled — 10.0 NO @ 287 = 00 — Rs 2870 = 00

Machine cost

Tractor Mounted Grader 6.0 Hour @ 573 = 20 Rs 3439 = 20
 Three wheel 80-100 KM stroke 30.0 Hour @ 803 = 00/Hr — Rs 24090 = 00
 10 M³ / Hour
 Tractor with vibrator 12.0 Hour @ 573 = 20 — Rs 6878 = 40
 25 M³ / Hour
 Water Tanker 6 kg Capacity 5.0 Hr @ 184 = 00 — Rs 920 = 00
 Total 39072 = 00

Material

Course Graded Gravimeter sub base
 53 MM to 9.5 MM, 95% — 134.40 M³ @ 604 = 91/M³ — Rs 80695 = 00
 9.5 MM to 2.36 MM 25% — 96.00 M³ @ 514 = 58/M³ — Rs 49400 = 00
 2.36 MM Yellow Local sand 153.60 M³ @ 141 = 95/M³ Rs 21788 = 00
 Total — 1,92,153 = 00
 11,529 = 00
 Add over head charge 6% — Rs 2,04,084 = 00

$$Bf - 2,04,084 = 00$$

$$\text{Hence / MB Rate} - Rs 680 = 28 / MB$$

Carrriage Cost -

$$\text{Hsb material } 0.768 MB \text{ @ } Rs 1221 = 82 / MB \quad Rs 938 = 35$$

$$\text{Local Sand } 0.512 MB \text{ @ } Rs 97 = 50 / MB - Rs 49 = 66$$

$$\text{Total - Rs } 988 = 01$$

$$\text{Hence final Rate} - Rs 1668 = 20 / MB,$$

Item No-3

Supply of Empty Cement Bag,
(Synthetic should be old but in
good condition of 1.2 cat capacity
with Carrriage, Local Sand with
Cost and Carrriage, Labor Cost
including Cost of Nylon for fringing
Empty Bag through local sand, Carrying,
Stacking Properly... all complete
sub work as per specific instruction and
direction of E/S.

$$Qty - 100.0 \times 10$$

$$\text{old Empty Cement / E.C Bag } 100.0 \times 10 \text{ @ } 4 = 07 / Bag - Rs 407 = 00$$

$$\text{Stacking 241 Nylon } 2 \times 100 \text{ @ } 30 = 60 / 100 \quad Rs 60 = 00$$

$$\text{Unskilled Labor for Fringing } 1.67 \times 100 \text{ @ } 287 = 00 \quad Rs 479 = 29$$

$$\text{Unskilled Labor for Carrying and } 3.0 \times 100 \text{ @ } 287 = 00 \quad Rs 861 = 00$$

$$\text{Pea Carrying } 0.99 \times 100 \text{ @ } 364 = 00 \quad Rs 120 = 12$$

$$\text{Skilled for Stacking } 100 \times 10 \text{ @ } 113 = 231 / 100 \quad Rs 11 = 32$$

$$\text{Carrriage for Empty Cement Bag } 100 \times 10 \text{ @ } 1938 = 73$$

$$\text{Cost of Local Sand } 100 \times 1.2 = 3.339 MB$$

$$\text{Hire charge of machine } 0.392 \text{ Hour @ } 50 = 00 / Hour - Rs 16 = 60$$

$$\text{Add 6% O.H.C } 2583 = 71$$

$$\text{Hence Rate / Bag} - Rs 25 = 84$$

$$\text{Carrying Cost / Bag say } 0.034 \times 100 \text{ @ } 97 = 3 = 20$$

Item No-4

Providing W.B.M Gravel II
... all complete sub through
mechanical means.

RATE ANALYSIS

Taking out Put - 360 cum.

LABOUR

$$\text{Mate} - 0.68 \times 100 \text{ @ } 305 = 00 - Rs 207 = 40$$

$$\text{Skilled Maxdars} - 2.0 \times 100 \text{ @ } 364 = 00 \quad Rs 728 = 00$$

$$\text{Unskilled Maxdars} - 15.0 \times 100 \text{ @ } 287 = 00 \quad Rs 4305 = 00$$

Machine Log

Tractor Mounted Grader for grading 14.40 — 573220 — 8254 =
 c100 M3 / hour ~~14.40~~

Three wheel Rm 80-100 KN static 45.0 hr c 803 = 0 36135
 water Tank 649 capacity — 240'11-c 184 = 0 4416

Material

Grading 58 mm to 22.4 mm c 0.9 m³ — 435.6 m³ = 511244 R²¹²²⁷¹
 stone screening top 2 11.2 mm 86.40 m³ c 397273 R³⁴³⁶¹
 water 144 kg c 40 19017 = 1
 over head charge 6%

Total 335969 = 7

say 933 = 25 / M

Carriage

stone Aggregate 1.21 m³ c
 stone screening — 0.24 m³ c

Total —

/ M³

5.

Work Car II

Tractor 68 M3 c 805 = 00 — 207 = 40

Grading 2.0 M3 c 364 = 00 — 728 = 00

Crushed 15.0 M3 c 287 = 00 — 4305 = 00

Tractor mounted Grader 14.40 hr c 573 = 20 — 8254 = 00

Three wheel Rm 45.0 c 803 = 00 — 36135 = 00

water tank 649 — 24.0 c 184 = 00 — 4416 = 00

Material

Grading 2 — 435.40 m³ c 427 = 69 — 186302 = 00

63 mm to 45 mm 11.2 m³ c 345 = 22 / m³ — 33145 = 00

stone screening top 2 28.80 m³ c 131 = 28 — 3781 = 00

Grading material 144 kg c 40 = 00 — 5760 = 00

water Total 253689 = 40

Add 0.11 c 6%

15182 = 00

216825 = 00

Hence Rate — 745 = 04 / M³

Rate — 2183,033 = 40

Add over head 6% — 16982 = 00

Rs 3,00015 = 00

Hence Rate / M³ — Rs 833 = 37 / M³

Carriage

stone Aggregate — 1.21 m³ c

screening material — 0.24 m³ c

Morrum — 0.02 m³ c

04/11/2020

6. Construction of Road Embankment
Material obtain from borrow pits.
- an compensation on P.S.
Clause, 300.1, 300.2, with lend up B
to 1000.0m. - Out put - 100.0m

Mate - 0.04 No @ 305 = 12.20
Unskilled - 1.0 No @ 287 = 287.00

Machinery

1x draught excavator 0.9m³

hourly @ 60 MS/Hrs - 1.67 H @ 1969 = 3288.56

Tippers 5.5 cum with 10t capacity - 4.50 H @ 1043 = 4693.50

10x for carrying Tippers - 469 = 35

Doser D-50 for spreading 100m³/Hr - 0.50 @ 3337 = 1668.50

Tractor Mould Grader - 1.0 Hr @ 573 = 573.00

Water Tanker 649 Capacity 2.0 Hrs @ 184 = 368.00

Three wheel Roller 80-100KN 1.25 H - 803 = 1003.75

Static Roller @ 80 MS/Hr - 100.0m³ @ 34 = 3400.00

Compensation of Gravel - 100.0m³ @ 40 = 4000.00

Water 12.0m³ - 120.00
Add O.H.C. 6% - 7.20
Total - 16325.51
Rs 979 = 53
17306.01

Rate 173 = 06/MS.

Item 7, Labor for cutting 62mm to 75mm
and bamboo, P.S. for
and making shoes and drawings etc.
- an compensation.

out put - 30.5m

Assuming 20 m Pile Shunk 1.525m deep

Labor

Carpenter Grade II - 0.25 No @ 345 = 86.25

Unskilled Moulders - 2.5 No @ 287 = 717.50

Add O.H.C. 6% - 86.25
Rs 48 = 22
851 = 97

Item 8, Labor for forming and @ 28 = 40/meter.

Group 62mm to 75mm and bamboo running
at every vertical pile with 150mm

Long nail @ 38 SWH 0.9 m - an compensation

out put - 30.5m

Nails 150mm long - 1.5 kg @ 55 = 82.50

Carpenter Grade II - 0.25 No @ 345 = 86.25

Unskilled Moulders - 0.25 No @ 287 = 71.75

Add O.H.C. 6% - 86.25

Man. 2 No - 4 = 92 / m of pile.

Man. 2 No - 4 = 92 / m of pile.

142 = 80
8 = 57
150 = 37
150 = 31

कार्यालय
कार्यपालक अभियंता, ग्रामीण कार्य विभाग
कार्य प्रमंडल, समस्तीपुर।

पत्रांक ०१ Dalsingh Sarai

दिनांक 25.1.21

प्रेषक, कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, समस्तीपुर।

सेवा में,

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

विषय— **FDR योजनान्तर्गत कराये गये कार्य का जॉच करने के संबंध में।**

प्रसंग— आपका पत्रांक ०१, Camp Dalsingh Sarai दिनांक 22.01.2021.

महाशय,

उपरोक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि एफ0डी0आर0 योजनान्तर्गत स्थल के जॉचोपरांत जॉच कर वापस की जाती है।

अनु0— यथोक्त।

विश्वासभाजन



कार्यपालक अभियंता

ग्रामीण कार्य विभाग

कार्य प्रमंडल, समस्तीपुर।

कार्यपालक अभियंता, ग्रामीण कार्य विभाग कार्य प्रमंडल, दलसिंहसराय
ग्रामीण कार्य विभाग, कार्य प्रमंडल, दलसिंहसराय द्वारा कराए गये पथों की जाँच से संबंधित प्रतिवेदन

पथ का नाम	क्षतिग्रस्त भाग (मी० में)	कराए गये कार्य	कराए गये निर्माण कार्य की राशि (रु० में)	GST @12%	L.Cess@1%	S.Fee@10%	Total	अभियुक्ति	
1	2	3	4	5	6	7	8	9	10
Flood Damage Repair of Road LO36 to Jhaura	EW-70.0M Bucklet-110.0M	EW, Bucklet, 110.0M	5,76,219.00	69,146.00	5766.00	—	6,51,121.00	—	—
Flood Damage Repair of Bridge in Bibhutipur Block Across Budhi Gandak River near Mahti	EW-408.0M Bucklet-210.0M	EW, Bucklet, 61.5.13.	30,71,219.00	3,68,546.00	30,712.00	—	34,70,500.00	—	—
Flood Damage Repair of Road T03 MDR to Muslim Tola	300.0M	EW, Bucklet, 110.0M	4,00,541.00	48,065.00	4005.00	—	4,52,611.00	—	—
Flood Damage Repair of Road LO36 to Tola Par	EW-527.0M Bucklet-140.0M	EW, Bucklet, 140.0M	8,48,183.00	1,01,880.00	8580.00	—	9,59,500.00	—	—
Flood Damage Repair of Road LO38 to Dakshin Tola	EW-450.0M Bucklet-200.0M	EW, Bucklet, 140.0M	12,03,390.00	1,44,400.00	12,000.00	—	13,67,800.00	—	—
Flood Damage Repair of Road Lagma to Musapur Bahadurpur Amrauli	EW-742.0M Bucklet-150.0M	EW, Bucklet, 140.0M	19,14,910.00	2,29,880.00	19,100.00	—	21,67,800.00	—	—
Flood Damage Repair of Road LO36 to Sahni Tola	EW-159.0M Bucklet-87.0M	EW, Bucklet, 140.0M	5,44,798.00	65,400.00	5400.00	—	6,20,700.00	—	—
Flood Damage Repair of Road Saakh Mohan to Mallika Tola Shayam Batta	Bucklet-190.0M Bucklet-210.0M	Bucklet, 61.5.13.	5,59,177.00	67,100.00	5600.00	—	6,31,900.00	—	—
Flood Damage Repair of Road Raghopur to Khurda Tola	400.0M	Bucklet, 61.5.13.	15,68,359.00	1,88,200.00	15,600.00	—	17,72,240.00	—	—
Flood Damage Repair of Bridge in Bibhutipur Block Across Karak on river Budhi Gandak	Bucklet-152.0M Bucklet-152.0M	Bucklet, 61.5.13.	9,74,452.00	1,16,934.00	9745.00	—	11,01,131.00	—	—

जॉय सिंह, अधीक्षक पथरी

25/11/21
 E.E. Ramesh Kumar

कार्यपालक अभियंता
 ग्रामीण कार्य विभाग,
 कार्य प्रमंडल, दलसिंहसराय