



बिहार सरकार

GOVERNMENT OF BIHAR

NAME OF WORK :- Sangrampur Prakhanda ke Ijra Gram
me State Highway se Boring Hote Hue
to Matia Gram tak

(FDR PART-A)

Total Length :- 0.890 KM

Block:- Sangrampur

DETAILED PROJECT REPORT

UNDER FDR (2245)

ESTIMATED COST

Rs. ~~267~~,630.90

2.8700 Lakhs

Prepared By :-

EXECUTIVE ENGINEER

R.W.D. (W) Division, Areraj

प्रतिवेदन

पथ का नाम :- संग्रामपुर प्रखण्ड के इजरा ग्राम में स्टेट हाईवे से बोरिंग होते हुए मठिया ग्राम तक।

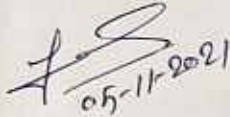
प्राक्कलित राशि :- ^{2.87}
~~287030~~ लाख रु.
42

पथ की लम्बाई :- 0.890 कि०मी०

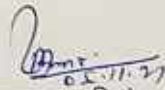
प्रखण्ड :- संग्रामपुर।

प्रस्तुत प्राक्कलन माह जून, जुलाई, अगस्त एवं सितम्बर-2021 में आयी बाढ़, अत्यधिक वर्षा एवं जल जमाव के कारण पथ अनेक स्थलों पर क्षतिग्रस्त हो जाने के कारण यातायात बंद हो गया था। विभागीय निदेश के आलोक में टूटे पथांशों में यातायात बहाल करने हेतु तत्काल ईट टुकड़ा भरकर लोकल बालु से लेबल कर पथ का पुनर्स्थापना का कार्य करते हुए यातायात बहाल किया गया।

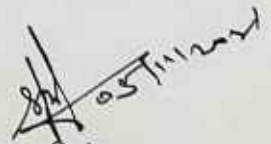
इस प्राक्कलन में ईट टुकड़ा तथा सेन्ड बैग से भरने, एवं लोकल बालु से लेबल करने का प्रावधान किया गया है। वर्तमान अनुसूचित्तर पर प्राक्कलन तैयार किया गया है जिसमें संवेदक लाभांश सम्मिलित नहीं किया गया है। प्राक्कलन की तकनीकी अनुमोदन प्रदान करने की कृपा प्रदान किया जाय।


05-11-2021

कनीय अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।


05-11-21

सहायक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।


05-11-2021

कार्यपालक अभियंता
ग्रामीण कार्य विभाग,
कार्य प्रमण्डल, अरेराज।

Inspection Report For Flood Damage Work

Date:- 28-11-2021

1. Name Of PIUs- Executive Engineer, RWD. *Areyoj*
2. Name Of Block - *Sangrampur*
3. Name Of Road- *Sangrampur prakhanda ke Jangram me State highway se boring hote hue mathiya gram tk*
(A) For Road

1. Damage Location/Chainage :- 0.000 km to 0.200 km

2. Damage Length:- 48 M.

3. Nature Of Damage :- Flood.

4. Details Of Restoration Work :-

- (i) Material being used in restoration works :- *Brick Bats, local sand, sand bag*
- (ii) Equipment/Tools being used in Restoration works :- *tractor*
- (iii) Procedure taken up in restoration works :- *departmental*
- (iv) Restored length :- 48 M.

Sector factory

[Signature]
28/11/21

Signature Of Inspecting officer

(Executive Engineer)

R.W.D, W.D ... *shakira*

S/No	District	Division	Road Name	Scheme	Road Status	Is Maintenance (Y/N)	Is Agreement (Y/N)	Length (in Km.)	Length of Damage Part Due to Flood
1	East Champaran	Arraj	Mishraulia to Loknathpur	PMGSY	Completed	Yes	Yes	3.63	0.35
2	East Champaran	Arraj	Repair of Katiya P.W.D. road to Malani M.B.R.	MR	Completed	Yes	Yes	10.5	1.8
3	East Champaran	Arraj	Sikatiya Nuniya Tola to Sikatiya Babu Tola	GTSNY	Completed	Yes	Yes	0.6	0.55
4	East Champaran	Arraj	Sikatiya Babu tola to L045	MMGSY[SC]	Completed	Yes	Yes	0.945	0.85
5	East Champaran	Arraj	Madhubani Math - Dubey Tola Road	New MR	Completed	Yes	Yes	3.16	0.095
6	East Champaran	Arraj	Sangrampur Bajar - Mathia Road	New MR	On Going	No	Yes	4.92	0.15
7	East Champaran	Arraj	Sangrampur Block - Jalaha Road Nawada Panchayat me jati sthan ke pas se jo Pitch Road Champaran Tabbandh hote hue Dakshini Nawada Gram ke Wirt Tola jati hai Us Path ka Pakikaran Karya.	New MR	Completed	Yes	Yes	2.89	0.13
8	East Champaran	Arraj	Mathyaria to baral tola via ghivadhar Road (MR 3054)	MR	Completed	Yes	Yes	1.1	0.7
9	East Champaran	Arraj	Sangrampur Panchayat ke jya gram me State Highway se boring hote hue gopi mishra ke ghar hote hue mathiya gram tak sadak paki karan karya	New MR	Completed	Yes	Yes	0.89	0.1
11	East Champaran	Arraj	SH-74 To Puchria Tola	MMGSY[Gen]	Completed	No	No	1.243	0.85
12	East Champaran	Arraj	SH 74 to Puchriya Tiwari Tola	MMGSY-NDE(BRIC)-1	On Going	No	Yes	2.267	2
13	East Champaran	Arraj	Sedha Mathiya to Pandeya Tola	MMGSY[Gen]	On Going	No	Yes	1.405	0.105
14	East Champaran	Arraj	DHANGARHA CHOWK NH-28 TO BHAWANIPUR SH-74		Completed	Yes	Yes	4.2	0.15

Tentative Restoration Amount(In Lac)	Actual Restoration Amount(In Lac)	Remarks	PDR Year	Start Latitude	Start Longitude	Mid Latitude	Mid Longitude	End Latitude	End Longitude	Block
0	0	Restoration work is going to start	2021-22	26.504725	84.57657	26.503284	84.575115	26.50176	84.576782	Aneraj
0	0	DAMAGED ROAD DUE TO HEAVY RAIN	2021-22	26.624313	84.540075	26.624313	84.540075	26.624009	84.541713	Aneraj
0	0	flood water across the road	2021-22	26.501797	84.57678	26.501904	84.57359	26.502163	84.574502	Aneraj
0	0	FLOOD WATER ACROSS THE ROAD	2021-22	26.501796	84.576774	26.500608	84.59181	26.504697	84.583299	Aneraj
0	0	NEED PERMANENT RESTORATION	2021-22	26.516133	84.762745	26.532235	84.765368	26.51487	84.764447	Aneraj
0	0	DAMAGED DUE T FLOOD AND HAEVY RAIN	2021-22	26.503551	84.689309	26.484503	84.666448	26.484587	87.665093	Aneraj
0	0	RESTORATION WORK DONE	2021-22	26.470286	84.775785	26.470298	84.725675	26.47434	84.699485	Aneraj
0	0	CUT /DAMAGED DUE TO HEAVY RAIN	2021-22	26.492599	84.65583	26.486456	84.655356	26.492601	84.655383	Aneraj
0	0	Road damaged due to heavy rain	2021-22	26.594106	84.678756	26.608842	84.616244	26.609396	84.613919	Harsiddhi
0	0	CUT/DAMAGED DUE TO HEAVY RAIN	2021-22	26.48383	84.665743	26.484501	84.689309	26.484587	84.665093	Harsiddhi
0	0	FLOOD WATER WILL RECEDE THEN RESTORATION WILL BE DONE	2021-22	26.468536	84.698526	26.447564	84.723077	26.472578	84.697427	Sangrampur
0	0	WATER IS FOLLOWING 2.00 KM.WHEN WATER WILL RECEDE THEN RESTORATION WILL BE DONE	2021-22	26.467819	84.704364	26.463743	84.703877	26.460173	84.713648	Sangrampur
0	0	DAIMAGED DUE TO FLOOD	2021-22	26.477976	84.786221	26.472879	84.783934	26.4667	84.781018	Sangrampur
0	0	NEED OF PERMANENT RESTORATION	2021-22	26.435563	84.738499	26.43485	84.730264	26.435746	84.730482	Sangrampur

NAME OF WORK:- Sangrampur Prakhand ke Ijra Gram me State Highway se Boring Hote Hue to Matia Gram tak

Total Length :- 0.890 KM

ABSTRACT OF COST

Sl. No	ITEM	Unit	Qty	Rate	Amount
1	Providing and Laying of Brick Bats: Providing and Laying, Spreading of Brick Bats in cut position as Required	Cum	140.39	1786.86 1995.25	250,857.28 2,80,113.00
2	Filling in foundation trenches as per drawing and technical specification Clause 305.3.9	Cum	11.94	468.15 275.27	5,589.71 3,287.00
3	Providing including labour for filling empty cement bag with local sand, stitching the bag and placing including supply of sutall etc. all complete as per approved design, specification	No	241.00	21.51 15.55	5,183.91 3,748.00
Gross Total Amount				Rs.	261,630.90

[Signature]
05-11-2021
J.E.

[Signature]
05-11-21
A.E.

RWD, Sub-Division,
Sangrampur

Pay 2,87,000.00
2,87,148.00
[Signature]
05-11-2021
E.E.

RWD. (W) Div. Areraj

Post fact J.A./S is accorded for Rs. 2,87,000.00
(Two crore Eighty seven thousand
hundred only.)

[Signature]
S.E. (R.W.D.)
works Circle
Motihari

As per direction vide Letter NO-858 dt. 18.02.22

T.A./T.S. is accorded for Rs. 21,87,000.00
(.....crore Two Eighty seven
.....lacs.....thousand
.....hundred.....) only.

S.E. (R.W.D.)
works Circle
Motihari

08/03/2022

S.E. (R.W.D.)
works Circle
Motihari

NAME OF WORK:-

Sangrampur Prakhand ke Jira Gram me State Highway se Boring Hote Hue to Matia Gram tak
0.890

Total Length :-

Sl. No.	ITEM OF WORKS	Nos	Length	Breadth	Height	QTY	UNIT
1	Providing and Laying of Brick Bats: Providing and Laying, Spreading of Brick Bats in cut position as Required						
	0.000 km to 0.200 km -	1 x	18.000 x	$\frac{1.400 + 2.400}{2}$	$\times \left(\frac{0.950 + 1.900 + -}{2} \right)$	48.74	Cum
		1 x	15.000 x	$\left(\frac{1.600 + 2.100}{2} \right)$	$\times \left(\frac{1.100 + 1.700 + -}{2} \right)$	38.85	Cum
		1 x	16.000 x	$\left(\frac{1.900 + 2.900}{2} \right)$	$\times \left(\frac{0.950 + 1.800 + -}{2} \right)$	52.80	Cum
Total Quantity						= 140.39 Cum	

2. Filling in foundation trenches as per drawing and technical specification Clause 305.3.9

1 x	18.000 x	1.400	x	0.150	=	3.78 Cum
1 x	15.000 x	1.600	x	0.150	=	3.60 Cum
1 x	16.000 x	1.900	x	0.150	=	4.56 Cum
Total Quantity						= 11.94 Cum

3. Providing including labour for filling empty cement bag with local sand, stitching the bag and placing including supply of sutali etc. all complete as per approved design, specification and direction of E/I

1 x	5.200 x	$\left(\frac{0.300 + 0.600}{2} \right)$	x	$\left(\frac{0.350 + 0.600 + -}{2} \right)$	=	1.11 Cum
1 x	4.500 x	$\left(\frac{0.350 + 0.700}{2} \right)$	x	$\left(\frac{0.600 + 0.900 + -}{2} \right)$	=	1.77 Cum
1 x	7.200 x	$\left(\frac{0.900 + 1.200}{2} \right)$	x	$\left(\frac{0.550 + 0.850 + -}{2} \right)$	=	5.29 Cum
TOTAL						8.17 Cum

No of Sand Bag required(1 bag=0.034cum)

No of Sand Bag

as per Site Condition

240.29

241.00 Nos

JE
RWD, Sub-Division, Sangrampur

AE
RWD, Sub-Division, Sangrampur

Executive Engineer
RWD, (W) Div. Areraj

Analysis for Carriage

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Load in Km			Loading & Unloading Cost	Carriage Cost for Road (Rs/mt)	Total
				Picks / Surface	Matcha				
1	Local Sand	Cum	Local	8.00 x 8.16 x 2.00 Km = Rs 26.16	8.00 x 19.80 x 1.00 Km = Rs 15.74		55.73		Rs 113.63
2	Brick	1000 Nos	Local	10.00 x 8.16 x 4.00 Km = Rs 59.35	10.00 x 19.80 x 1.00 Km = Rs 36.00		99.56		Rs 184.99
				8.00 x 8.16 x 2.00 Km = Rs 26.16	8.00 x 19.80 x 1.00 Km = Rs 15.74				
				10.00 x 8.16 x 4.00 Km = Rs 59.35	10.00 x 19.80 x 1.00 Km = Rs 36.00				

Cost of Haulage Excluding Loading & Unloading as per SO no

Type of Road	Per Ton. Km by Tipper
For Surface Road	8.16
Unsurface Gravel Road	9.80
Kachha Road	19.80

• Subjected to Verification of Load

[Signature]
28-11-2021

JE
RWD (W) Division, Arera

RWD (W) Division, Arera

RWD (W) Division, Arera

[Signature]
28-11-2021

BASIC RATES
(A) Labour

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	304.00
L-02	Bitumen Sprayer	day	318.00
L-03	Head Blacksmith	day	408.00
L-04	Blaster	day	502.00
L-05	Carpenter 1st Class	day	408.00
L-06	Chips spreader	day	364.00
L-07	Chiseller	day	470.00
L-08	Dresser (Skilled)	day	385.00
L-09	Driller	day	316.00
L-10	Electrician	day	386.00
L-11	Fitter	day	415.00
L-12	Mason (1st class)	day	408.00
L-13	Mason (2nd Class)	day	364.00
L-14	Mate	day	321.00
L-15	Mazdoor (Unskilled)	day	304.00
L-16	Mazdoor (Semi skilled)	day	316.00
L-17	Mazdoor (Skilled)	day	385.00
L-18	Painter (1st class)	day	386.00
L-19	Plumber	day	386.00
L-20	Surveyor	day	368.00
L-21	White Washer	day	385.00

Basic Rates taken from SOR, Fourteenth edition, Road Construction Department, Govt of Bihar effective from 01/04/2021 & Labour Rate Revised Dated 21.06.2021

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-001	P&M-001	Air Compressor 210 cfm	Supplying compressed air	cfm	210.00	per hour	416.00
PM-002	P&M-024	HMP 30-40 TPH	BM, DBM, SDBC, PM	Cum/h	17.00	per hour	23,729.00
PM-003	P&M-002	Batch mix Plant 30 cum capacity	Concrete mixing	Cum/h	20.00	per hour	2,981.00
PM-004	P&M-005	Bitumen boiler oil fired	Bitumen Spraying				
		200 litre		litre / h	400.00	per hour	606.00
		1000 litre		litre / h	2000.00	per hour	606.00
PM-005	P&M-004	Bitumen pressure distributor	Applying bitumen tack coat	sqm/h	1750.00	per hour	1,645.00
PM-006	P&M-009	Concrete mixer 0.28/0.4 cum	Mixing of ingredients	cum/h	2.50	per hour	286.00
PM-007	P&M-012	Crane upto 3.5T	Lifting of materials			per hour	1,289.30
PM-008	P&M-015	Dozer D 50	Dozing/cutting/ Clearing	cum/h	200.00	per hour	3,274.00
				cum/h	100.00		3,274.00
PM-009	P&M-018	Electric generator set, 125 KVA	Electricity generation	KVA	100.00	per hour	2,653.00
PM-010	P&M-016	Emulsion Sprayer with Tractor	Spraying of Emulsion			per hour	1,209.90
PM-011	P&M-017	Front end-loader 1 cum bucket capacity @ 45 cum/hour	Loading Aggregates	cum/h	45.00	per hour	1,594.00
			Loading Soil	cum/h	100.00		1,594.00
PM-012	P&M-031	Hydraulic broom with tractor	Surface cleaning	sqm/h	1250.00	per hour	572.00
PM-013	P&M-026	Hydraulic Excavator 0.9 cum	Excavation	cum/h	100.00	per hour	2,702.00
PM-014	P&M-025	Hydraulic self propelled chip spreader	Surface Dressing	sqm/h	1500.00	per hour	2,146.00
PM-015	P&M-084	Jack Hammer with tractor	Pavement breaking & rock drilling	cum/h	05. to 1	per hour	1,289.00
PM-016	P&M-083	Joint Cutting Machine with 2-3 blades	Cutting of Joints	h		per hour	317.00
PM-017		Mixall 6-10 l capacity	Mixing of bituminous materials	t/h	8.00	per hour	1,547.50
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		573.20
PM-019		Needle vibrator	Vibrating cement concrete mix	cum/h	3.50	per hour	347.00
PM-020	P&M-035	Paver finisher	Laying/spreading	t/h	75.00	per hour	1,810.00
PM-021	P&M-086	Plate compactor	Compaction	cum/h		per hour	352.00
PM-022	P&M-086	Plate vibrator	Compaction	cum/h		per hour	352.00
PM-023		Screed vibrator	Compaction	cum/h		per hour	102.64
PM-024	P&M-045	Smooth wheeled 80-100 kN tandem roller	Compaction of Sub-base/ Asphalt	cum/h	30.00	per hour	2,357.00
PM-025	P&M-028	Stone crusher (Integrated) of 200 TPH	Crushing of Spalls	t/h	200.00	per hour	13,431.00

Sr. No.	SOR Code	Description of		Output of Machine		Usage Rates in Rs.	
		Machine	Activity	Unit	Output	Unit	Rate
PM-026	P&M-044	Three wheel 80-100 kN Static Roller	Compaction/ Rolling			per hour	901.00
			Earth:- Embankment or sub-grade	cum/h	80/70		901.00
			Sub-base G-I	cum/h	10.00		901.00
			Sub-base G-II/G-III	cum/h	8.00		901.00
			WMM	cum/h	16.00		901.00
			BUSG	cum/h	10.00		901.00
			BM 50/75 mm	cum/h	12.00		901.00
			Premix 20 mm	sqm/h	250.00		901.00
			Seal Coat	sqm/h	500.00		901.00
			Surface Dressing 1st Coat	sqm/h	400.00		901.00
			Surface Dressing 2nd Coat	sqm/h	500.00		901.00
PM-027	P&M-048	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,183.00
PM-028	P&M-053	Tractor with Disc Harrows	Pulverisation of soil	cum/h	80.00	per hour	549.10
PM-029	P&M-055	Tractor with ripper @ 60 cum per hour	Ripping Pavements, uprooting trees	cum/h	60.00	per hour	591.40
PM-030	P&M-053	Tractor with trolley/with Grading equipment	Transportation of materials	t/trip	3 to 5	per hour	549.10
PM-031	P&M-054	Tractor with Rotavator	Scarifier	cum/h	25.00	per hour	573.20
PM-032	P&M-057	Truck 10 t capacity	Carriage	cum/trip	5.50	per hour	934.30
PM-033	P&M-059	Vibratory roller 80-100 kN	Compaction of soil	cum/h	100.00	per hour	2,156.00
			Compaction of BM	cum/h	60.00		2,156.00
PM-034	P&M-060	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	907.00
PM-035	P&M-062	Wet mix plant (Pug Mill)	Wet Mix	cum/h	25.00	per hour	1,822.30
RCD							
P&M-036	P&M-043	Road marking machine	Road marking	Sqm/h	100.00	per hour	1,965.00
P&M-037	P&M-022	Hot Mix Plant - 100 TPH	DBM/BM/SDBC/P remix	Cum/h	30.00	per hour	40,270.00
P&M-038	P&M-034	Sensor Paver Finisher	Paving of DBM/BM/SDBC/P remix	Cum/h	40.00	per hour	3,958.00
P&M-039	P&M-081	250 KVA Generator Set	Generation of Electric Energy	KVA	200.00	per hour	4,359.00
P&M-040	P&M-047	Tipper 5 Cum	Transportation of Soil, GSB, WMM, Hotmix etc.	Capacity in Cum	5.50	Tonne.Km	9.07
P&M-040	P&M-045	Tandem Road Roller	Rolling of Asphalt Surface	Cum/h	30.00	per hour	2,357.00

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 1,183.00 203.48 (ii) Front end-loader 1 cum bucket capacity @ 45 cum per hour hour 0.122 1,594.00 194.47 b) Overheads @ 6 % on (a) - c) Contractor's Profit @ 10.0% on (a+b) - Cost for 5.5 cum = a+b 397.94 Rate per cum = (a+b) / 5.5 72.35				
		(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 1,183.00 124.22 (ii) Front end-loader 1 cum bucket capacity @ 100 cum per hour hour 0.055 1,594.00 87.67 b) Overheads @ 6 % on (a) - c) Contractor's Profit @ 10.0% on (a+b) - Cost for 5.5 cum = a+b+c 211.89 Rate per cum = (a+b+c) / 5.5 38.52				

Sr. No.	Reference to MORD Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
		(iii) Unloading of Earth, Sand, Lime, Medium 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 Min 1.00 ii) Manoeuvring, reversing, dumping and turning for return Min 2.00 iii) Waiting time, unforeseen contingencies, etc. Min 2.00 Total Min 5.00 a) Machinery Tipper 10 t capacity hour 0.08 1,183.00 94.64 b) Overheads @ 6 % on (a) - c) Contractor's Profit @ 10.0% on (a+b) - Cost for 5.5 cum = a+b+c 94.64				
Rate per cum = (a+b+c)/5.5						17.21
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 t.km 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 hour 0.40 1,183.00 473.20 Empty return trip hour 0.29 1,183.00 343.07 b) Overheads @ 6 % on (a) - c) Contractor's Profit @ 10.0% on (a+b) - Cost for 100 t.km = a+b+c 816.27				
Rate per t.km = (a+b+c)/100						8.16
		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 hour 0.50 1,183.00 591.50 Empty return trip hour 0.33 1,183.00 390.39 b) Overheads @ 6 % on (a) - c) Contractor's Profit @ 10.0% on (a+b) - Cost for 100 t.km = a+b+c 981.89				
Rate per t.km = (a+b+c)/100						9.80

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				
	i)	Tipper 10 t capacity				
		Haulage with load	hour	1.00	1,183.00	1,183.00
		Empty return trip	hour	0.67	1,183.00	792.61
	b)	Overheads @ 6 % on (a)				-
	c)	Contractor's Profit @ 10.0% on (a+b)				-
		Cost for 100 Lkm = a+b+c				1,975.61
		Rate per Lkm = (a+b+c)/100				19.80

1	6.6.1 WRD Bihar	Labour for laying graded jhama khoa				
		Unit per cum				
		Taking out put = 2.832 cum				
		Unskilled mazdoor	No	3.000	304.00	912.00
		Add over head charges (0%)				-
		Rate for 2.832 cum				912.00
		Rate per cum				322.03
2	RCD SOR 12.9	Labour for Filling Sand Bag stitching and placing as complete job				
		Unit: per Bag				
		Taking output = 750 Bag				
		Unskilled labour	No	15.000	304.00	4,560.00
		Add over head charges (0%)				-
		Rate for 750 Bag				4,560.00
		Rate per Bag				6.08
3	4.5	Providing and Laying of Brick Bats				
		Providing and Laying, Spreading of Brick Bats in cut position				
		Unit = cum				
	a)	Labour				
		Cost of Labour for pitching and light ramming as per WRD 6.6.1				322.03
	b)	Material				
		Brick Bats				
	c)	Overheads @ 6 % on (a+b)	Cum	1.000	987.00	987.00
	d)	Contractor's profit @ 10% on (a+b+c)				0.00
						0.00
	e)	CARRIAGE				
		Brick Bats	Cum	1.000	184.91	184.91
		TOTAL				1493.94
		Labour Cess 1%				14.94
		GST 12%				179.27
		Add 10% basic rate of material for seigniorage				98.70
		Total per cum	Cum			1,786.86
4	1100 & 800	Filling in foundation trenches as per drawing and technical specification Clause 305.3.9				
	I	Snd Filling				
		Unit = cum				
	a)	Labour				
		Mate				
		Mazdoor (Unskilled)	day	0.01	321.00	3.21
	b)	Material	day	0.30	304.00	91.20
		Sand (assuming 20 per cent voids)	cum	1.20	140.50	168.60
	c)	Overheads @ 6 % on (a+b)				0.00
	d)	Contractor's profit @ 10% on (a+b+c)				0.00
	e)	CARRIAGE				
		Sand (assuming 20 per cent voids)	cum	1.20	113.63	136.36
		Rate per cum = (a+b+c+d+e)	Cum			399.37
		Labour Cess 1%				3.99
		GST 12%				47.92
		Add 10% basic rate of material for seigniorage				16.86
		Total per cum	Cum			468.15

1670.80

5	Supply of Sand bag				
a)	Basic rate of Sand bag	per	1.00	3.90	3.90
	1 no cement bag filled with 40kg/1.2 cuft sand				
	Conversion factor 1 cum=35.3146667 ft3				
	1) cum = 1.2/35.3146667=0.034				
	Hence 1 sand bag filled with 0.034 cum sand				
	Sand	cum	0.034	140.50	4.78
b)	Labour				6.08
c)	Overheads @ 6 % on (a+b)				0.00
d)	Contractor's profit @ 10% on (a+b+c)				0.00
e)	CARRIAGE				
	Local Sand	Cum	0.034	113.63	3.86
	TOTAL				18.62
	Labour Cess 1%				0.19
	GST 12%				2.23
	Add 10% basic rate of material for seigniorage				0.48
	Total per Bag =	No			21.51



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gitude: 84.666041
vation: 131.24±59 m
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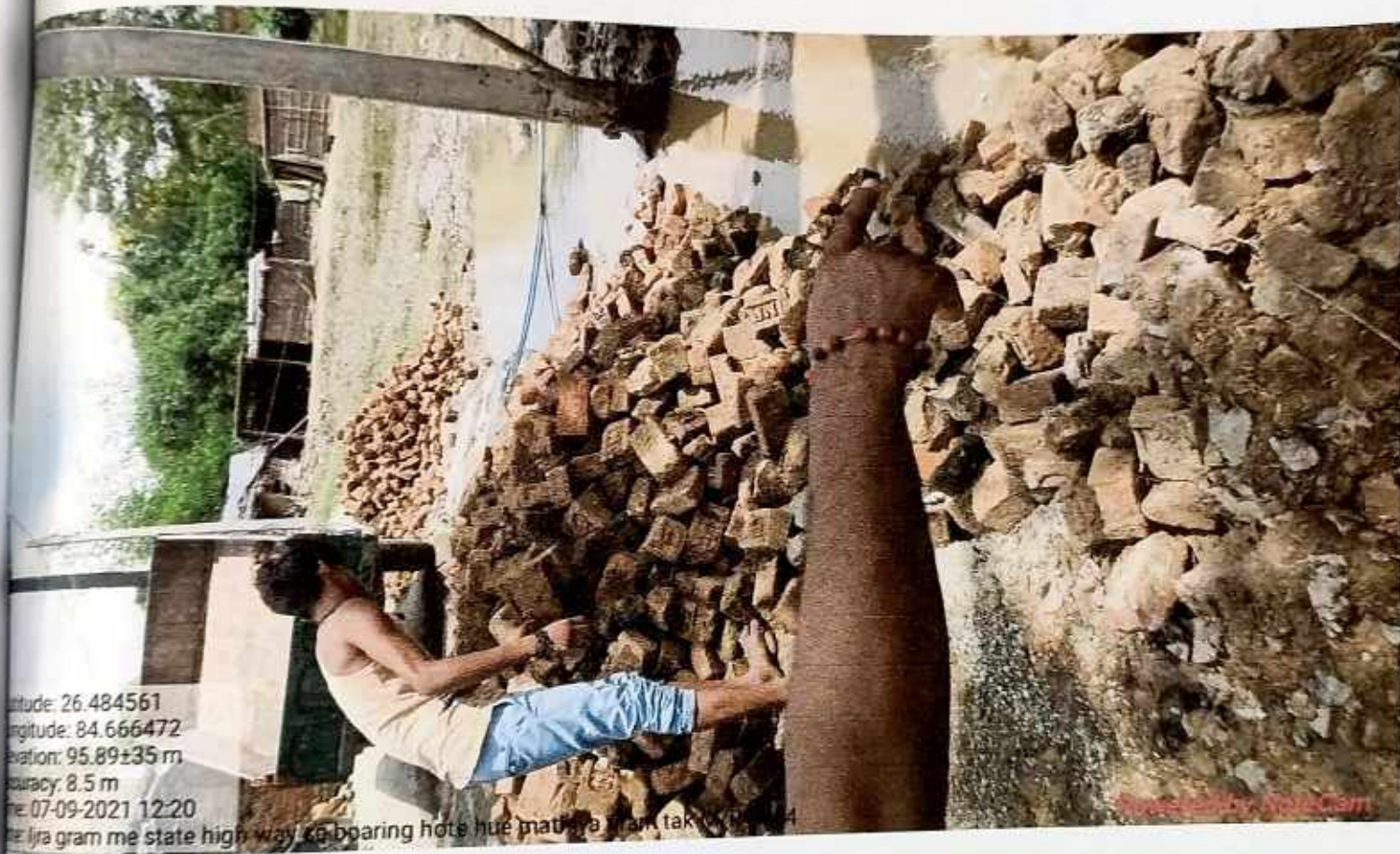


Latitude: 26.484561
Longitude: 84.666419
Elevation: 161.1±45 m
Accuracy: 22.5 m
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Latitude: 26.484561
 Longitude: 84.666472
 Elevation: 95.89±35 m
 Accuracy: 8.5 m
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