



GOVERNMENT OF BIHAR

NAME OF WORK :- Matariya To Barai Tola

(FDR PART-A)

Total Length :- 10.5 KM

Restoration Length:- 0.847 KM

Block:- Harsidhi

DETAILED PROJECT REPORT

UNDER FDR (2245)

ESTIMATED COST

Rs. ~~440,919.99~~

4.40 Lakhs.

Prepared By :-
EXECUTIVE ENGINEER
R.W.D. (W) Division, Areraj

Inspection Report For Flood Damage Work

Date:-

5.11.21

1. Name Of PIUs- Executive Engineer, RWD ^{Barai} (~~Shri~~ Prakash)

2. Name Of Block -

Horsidhi

3. Name Of Road-

Moderiya to Barai tilla.

(A) For Road

1. Damage Location/Chainage :- 0.000 to 10000 m.

2. Damage Length:-

0.847 k.m.

3. Nature Of Damage :-

Heavy rain

4. Details Of Restoration Work :-

(i) Material being used in restoration works :- Bricks bats

(ii) Enquipment/Tools being used in Resoretion works :- Road roller, Road roller.

(iii) Procedure taken up in restoration works :- Supplying of Bricks bats & screening & filling & spreading of Bricks bats in lots & Compacted by road roller

(iv) Restored length :-

0.847 k.m.

Satisfactory.

Signature Of Inspecting officer

(Executive Engineer)

R.W.D, W.D Chakia

NAME OF WORK:- Matariya To Barai Tola

Total Length :- 10.50 Km

Reatoration Length:- 0.847 Km

ABSTRACT OF COST

Sl. No	ITEM	Unit	Qty	Rate	Amount
1	<u>Providing and Laying of Brick Bats:</u> Providing and Laying , Spreading of Brick Bats in cut position as Required	Cum	220.61	1,762.93 1995.25	-388,919.99 4,40,172.27
	Total Amount			Rs.	-388,919.99

[Signature]
J.E.

[Signature]
A.E.

[Signature]
E.E.

RWD. (W) Div. Areraj

Post facto T.A./S is accorded for Rs. 4,40,000.00
(.....crore.....four.....lacs.....four.....thousand
.....hundred.....) only.

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

As per direction vide letter No. 858 dt. 18-02-22

TA/TS is accorded for Rs. 4,40,000.00
(.....crore four lacs forty thousand
.....hundred) only.

8/08/23/2022
S.E. (R.W.D.)
works Circle
Motihari

Analysis for Carriage

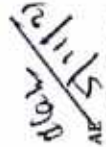
Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km				Loading & Unloading Cost	Carriage Cost by Bul Head	Total		
				Pucka / Surface		Katcha						
1	Local Sand	Cum	Local	$\frac{8.00}{4.99}$	$\times 8.16$	$\times 2.00$ Km	$= \text{Rs } 26.16$	$\frac{8.00}{4.99}$	$\times 19.80$	$\times 1.00$ Km	$= \text{Rs } 31.74$	Rs. 113.63
2	Brick	1000 Nos	Local	$\frac{10.00}{5.50}$	$\times 8.16$	$\times 5.00$ Km	$= \text{Rs } 74.18$	$\frac{10.00}{5.50}$	$\times 19.80$	$\times 0.00$ Km	$= \text{Rs } 0.00$	Rs. 163.74

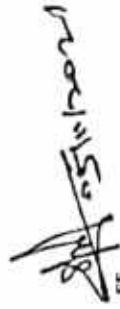
Cost of Haulage Excluding Loading & Unloading as per SO/aa

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

• Subjected to Verification of Lead


 JE
 RWD (W) Division, Areraj


 AE
 RWD (W) Division, Areraj


 EE
 RWD (W) Division, Areraj

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	Areraj	Mishraulia to Loknathpur	PMGSY	Completed	Yes	Yes	3.63	0.35
2	East Champaran	Areraj	Repair of Kathiya P.W.D. road to Malahi M.B.R.	MR	Completed	Yes	Yes	10.5	1.8
3	East Champaran	Areraj	Sikatiya Nuniya Tola to Sikatiya Babu Tola	GTSNY	Completed	Yes	Yes	0.6	0.55
4	East Champaran	Areraj	Sikatiya Babu Tola to L04S	MMGSY[SC]	Completed	Yes	Yes	0.945	0.85
5	East Champaran	Areraj	Madhubani Math - Dubey Tola Road	New MR	Completed	Yes	Yes	3.16	0.095
6	East Champaran	Areraj	Sangrampur Bajar - Mathia Road	New MR	On Going	No	Yes	4.92	0.15
7	East Champaran	Areraj	Sangrampur Block - Jajaha Road Nawada Panchayat me Hai Jaron ke pas se jo Pitch Road Champaran Takbandh hote hue Dakshini Nawada Gram ke Wirti Tola Jati hai Us Path ka Pakkaran Karya.	New MR	Completed	Yes	Yes	2.89	0.13
8	East Champaran	Areraj	Mathuria to barot tola via ghivadhar Road (MR 3050)	MR	Completed	Yes	Yes	1.1	0.7
9	East Champaran	Areraj	Sangrampur Panchayat ke jya gram me State Highway se boring hote hue gopi mathia ke ghar hote hue mathiya gram tak sadak pakki karan karya	New MR	Completed	Yes	Yes	0.89	0.1
10	East Champaran	Areraj							
11	East Champaran	Areraj	SH-74 To Puchna Tola	MMGSY[Gen]	Completed	No	No	1.243	0.85
12	East Champaran	Areraj	SH 74 to Puchaniya Tiwari Tola	MMGSY-NPIN(BRICS)-I	On Going	No	Yes	2.267	2
13	East Champaran	Areraj	Sedha Mathiya to Pandeya Tola	MMGSY[Gen]	On Going	No	Yes	1.405	0.105
14	East Champaran	Areraj	DHANGARMA 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	FDR 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	26.50175	84.575782	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	26.501504	84.57359	26.502163	84.574502	Aneraj
0	0	FLOOD WATER ACROSS THE ROAD	2021-22	26.501796	84.576774	26.500608	84.59181	26.504497	84.583299	Aneraj
0	0	NEED PERMANENT RESTORATION	2021-22	26.516133	84.762745	26.532235	84.765368	26.51437	84.764447	Aneraj
0	0	DAMAGED DUE T FLOOD AND HEAVY RAIN	2021-22	26.503551	84.689309	26.484503	84.666448	25.484587	87.865293	Aneraj
0	0	RESTORATION WORK DONE	2021-22	26.470286	84.727585	26.470298	84.725675	26.47434	84.699435	Aneraj
0	0	CUT /DAMAGED DUE TO HEAVY RAIN	2021-22	26.492599	84.65583	26.486456	84.655356	26.492601	84.65583	Aneraj
0	0	Road damaged due to heavy rain	2021-22	26.594106	84.678756	26.603847	84.616244	26.609396	84.613919	Mandla
0	0	CUT/DAMAGED DUE TO HEAVY RAIN	2021-22	26.48383	84.665743	26.484503	84.689309	26.484587	84.665293	Mandla
0	0	FLOOD WATER WILL RECEDE THEN RESTORATION WILL BE DONE	2021-22	26.468536	84.695325	26.447564	84.723277	26.473578	84.657427	Sangamner
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	Sangamner
0	0	DAMAGED DUE TO FLOOD	2021-22	26.477976	84.785221	26.472579	84.783934	26.4667	84.782118	Sangamner
0	0	NEED OF PERMANENT RESTORATION	2021-22	26.435563	84.735498	26.434455	84.732764	26.435746	84.732452	Sangamner

**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
(B) Material**

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-001	M-056	AC pipe 100 mm	m	42.54	42.54
M-002	M-032	Aggregate - For 37.5 mm Maximum size - 22.4 mm to 5.6 mm	cum	572.92	572.92
M-003	M-034	Aggregate - For 37.5 mm Maximum size - 45 mm to 22.5 mm	cum	524.49	524.49
M-004	M-030	Aggregate - For 37.5 mm Maximum size - Below 5.6 mm	cum	249.22	249.22
M-005	M-032	Aggregate - For 53 mm Maximum size - 22.5 mm to 5.6 mm	cum	572.92	572.92
M-006	M-038	Aggregate - For 53 mm Maximum size - 63 mm to 45 mm	cum	473.70	473.70
M-007	M-030	Aggregate - For 53 mm Maximum size - Below 5.6 mm	cum	249.22	249.22
M-008	M-040	Aggregate - Grading I (40 mm nominal Size) 10 mm - 5 mm	cum	573.71	573.71
M-009	M-046	Aggregate - Grading I (40 mm nominal Size) 25 mm - 10 mm	cum	656.34	656.34
M-010	M-049	Aggregate - Grading I (40 mm nominal Size) 37.25 mm - 25 mm	cum	524.49	524.49
M-011	M-030	Aggregate - Grading I (40 mm nominal Size) 5 mm and below	cum	249.22	249.22
M-012	M-040	Aggregate - Grading II (19 mm nominal Size) 10 mm - 5 mm	cum	573.71	573.71
M-013	M-046	Aggregate - Grading II (19 mm nominal Size) 25 mm - 10 mm	cum	656.34	656.34
M-014	M-030	Aggregate - Grading II (19 mm nominal Size) 5 mm and below	cum	249.22	249.22
		Aggregate 13.2 mm to 0.09 mm	cum	392.53	392.53
M-015	M-051	Aggregate 10 mm	cum	657.91	657.91
M-016	M-053	Aggregate 20 mm	cum	595.36	595.36
M-017	M-055	Aggregate 40 mm	cum	486.92	486.92
M-018	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading I	cum	158.35	158.35
M-019	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading II	cum	158.35	158.35
M-020	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading III	cum	158.35	158.35
M-021	M-039	Aggregate-Grading I 90 mm to 45 mm	cum	442.63	442.63

FORM F8

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-022	M-038	Aggregate-Grading II 63 mm to 45 mm	cum	473.70	473.70
M-023	M-036	Aggregate-Grading III 53 mm to 22.4 mm	cum	503.85	503.85
M-024	M-031	Aggregates 22.4 mm to 2.36 mm for wet mix macadam	cum	572.92	572.92
M-025	M-034	Aggregates 45 mm to 22.4 mm for wet mix macadam	cum	524.49	524.49
M-026	M-059	Aluminium sheeting (1.5 mm thick)	sqm	7,980.04	7,980.04
M-027	M-062	Aluminium Studs 100 mm x 100 mm fitted with lense reflectors	Nos.	169.19	169.19
M-028		Bamboo (1st Class) 85 mm - 100 mm dia, 2.0 m long	No.	15.00	15.00
M-029		Bamboo (1st Class) 85 mm - 100 mm dia, 2.5 m long	No.	20.00	20.00
M-029		Bamboo (1st Class) 85 mm - 100 mm dia, 3.0 m long	No.	20.00	20.00
M-030		Bamboo (1st Class) 85 mm - 100 mm dia, 4.5 m - 5.5 m long	No.	20.00	20.00
M-029		Bamboo (2nd Class) 75mm dia, 1.8 m - 2.5 m long	No.	20.00	20.00
M-030		Bamboo (2nd Class) 75mm dia, 2.1 m - 3.0 m long	No.	20.00	20.00
M-031	M-063	Barbed wire	kg	57.95	57.95
M-032	M-007	Binding Material (Moorum)	cum	158.35	158.35
M-033	M-072	Binding wire	kg	58.95	58.95
M-034	M-078	Bitumen (Crumb Rubber Modified)	tonne	44,632.00	44,632.00
M-035		Bitumen (Natural Rubber Modified)	tonne	41,271.30	
M-036		Bitumen (Polymer Modified)	tonne		
M-037	M-074	Bitumen (S-65)(Excluding the Cost of Empty Drum @Rs.705.50/- Per MT)	t	48,929.50	48,929.50
M-038	M-075	Bitumen (S-90)(Excluding the Cost of Empty Drum @Rs.705.50/- Per MT)	t	48,129.50	48,129.50
M-039	M-077	Bitumen Emulsion (RS-1)(Excluding the Cost of Empty Drum @Rs.705.50/- Per MT)	t	47,742.50	47,742.50
M-040	M-077	Bitumen Emulsion (SS-1) (Excluding the Cost of Empty Drum @Rs.705.50/- Per MT)	t	50,433.50	50,433.50
M-041	M-120	Bituminous sealant	litre	24.51	24.51

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-042	M-148	Random Rubble Stone	kg	340.55	340.55
M-043		Blasting material	kg	159.97	159.97
M-044	M-182	Bond stone (400 mm x 150 mm x 150 mm)	No.	10.35	10.35
M-045	M-079	Brick 1st Class	No.	5.128	5.13
M-046		Cement (OPC - 43 Grade) (Excluding the cost of empty bag @ Rs. 5.87 / Per Bag) (OPC 43 grade)	t	5,266.20	5,266.20
M-047	M-190	Cement Primer	litre	114.01	114.01
M-048		Chlorprene Elastomer or Closed Cell Foam Sealing Element	m		
M-049	M-163	Compensation for earth taken from private land (Including royalty @ Rs. 33.0 per cum & compensation @ Rs. 1.81 per cum)	cum	34.82	34.82
M-050	M-084	Compressible Fibre Board	sqm	930.96	930.96
M-051	M-086	Copper plate	kg	749.21	749.21
M-052		Corbelling Stones (300 mm x 150 mm x 150 mm)	No.		
M-053	M-087	Corrosion Resistant Structural Steel Grating	kg	43.85	43.85
M-054	M-089	Credit for excavated rock found suitable for use	cum	139.07	139.07
M-055		Crow bars 40 mm dia (hire charges)	hour	5.00	5.00
M-056	M-021	Crushed Sand or Grit Passing 2.36 mm and retained on 180 micron	cum	234.89	234.89
M-057		Crushed Slag	cum	775.57	775.57
M-058	M-026	Crushed Stone Aggregate 26.5 mm to 75 micron	cum	544.89	544.89
M-059	M-052	Crushed Stone chipping 13.2 mm nominal size	cum	686.05	686.05
M-060	M-050	Crushed Stone Chipping 6.7 mm size 100% passing 11.2 mm and retained on 2.36 mm	cum	454.98	454.98
M-061	M-050	Crushed Stone Chipping 6.7 mm size 100% passing 9.5 mm and retained on 2.36 mm	cum	454.98	454.98
M-062	M-051	Crushed Stone chipping 9.5 mm nominal size	cum	657.91	657.91
M-063	M-035	Crushed Stone Coarse Aggregate Passing 53 mm and retained on 2.8 mm	cum	516.41	516.41

FORM F8

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-064	M-090	Curing compound	litre	123.05	123.05
M-065		Debonding strips	m	45.00	45.00
M-066		Edge Stone (450 mm x 350 mm x 100 mm)	No.		
M-067		Edge Stone (450 mm x 350 mm x 200 mm)	No.		
M-068		Elastomeric bearing assembly	Nos.	27,040.49	27,040.49
M-069	M-094	Electric Detonator	each	5.77	5.77
M-070	M-095	Epoxy Paint	litre	568.30	568.30
M-071	M-097	Epoxy Primer	litre	114.14	114.14
M-072	M-167	Farmyard manure	cum	552.00	552.00
M-073		Fevicol adhesive	kg	125.00	125.00
M-074	M-012	Filter media	cum	504.46	504.46
M-075	M-021	Fine aggregate/Crushed sand 2.36 mm to 75 micron	cum	117.23	117.23
M-076		Galvanised angle	kg		
M-077		Galvanised angle Section 100 mm x 100 mm of 12 mm thickness	kg	39.25	39.25
M-078	M-104	Gelatine 80 per cent	kg	806.85	806.85
M-079	M-056	GI Pipe 100 mm dia	m	522.42	522.42
M-080	M-056	GI Pipe 50 mm dia	m	211.02	211.02
M-081	M-102	GI wires	kg	96.39	96.39
M-082		Graded stone aggregate	cum	154.29	154.29
M-083	M-003	Granular material (Natural occurring, soil gravel mixture / quarry waste, kankar, laterite, dhandla	cum	163.53	163.53
M-084	M-055	Hand Broken Metal 40 mm size	cum	486.92	486.92
M-085		Indigo	kg	416.00	416.00
M-086		Interlocking Blocks with 60 mm thickness	sqm		

SHOT ON MI A2
MI DUAL CAMERA

Scanned with CamScanner

FORM F8

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-087		Interlocking Blocks with 80 mm thickness	sqm		
M-088	M-141	Joint filler board	sqm	961.32	961.32
M-089	M-121	Jute netting, open weave 25 mm square opening	sqm	36.94	36.94
M-090	M-121	Jute rope 12 mm dia	m	34.20	34.20
M-091	M-031	Key Aggregates passing 22.4 mm and retained on 2.8 mm	cum	572.92	572.92
M-092	M-188	Lime	t	3,637.51	3,637.51
M-093	M-188	Lime putty	t	3,637.51	3,637.51
M-094	M-094	Local Wood Piles (1st Class) 150-200 mm dia ,6m long	No.	193.50	193.50
M-095		Local Wood Piles (1st Class) 100 mm x 75 mm	cum	20,775.00	20,775.00
M-096	M-002	Loose stone	cum	351.36	351.36
M-097	M-101	MS clamps	Nos.	34.06	34.06
M-098	M-179	MS Flat / Structural Steel	t	46,658.00	46,658.00
M-099		MS Sheet Tube (47 mm x 47 mm x 12 SWG Sheet)	kg	44.93	44.93
M-100		MS Sheet 1.5 mm thick	sqm	416.00	416.00
M-101		MS Sheet 2 mm thick	sqm	832.00	832.00
M-102	M-130	Nuts, Bolts and Rivets	t	61,740.00	61,740.00
M-103	M-131	Paint (Synthetic Enamel)	litre	224.02	224.02
M-104	M-180	Plasticizer	litre	159.51	159.51
M-105	M-138	Polythene sheet (125 micron)	sqm	15.02	15.02
M-106	M-138	Polythene Sheathing	Nos.	15.02	15.02
M-107	M-002	Quarried Stone 150-200 mm size	cum	351.36	351.36
M-108	M-150	RCC Pipe NP3 (1200 mm dia)	m	6,510.00	6,510.00
M-109	M-149	RCC Pipe NP3 (1000 mm dia)	m	5,565.00	5,565.00

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-110		RCC Pipe NP3 (750 mm dia)	m		
M-111		RCC Pipe NP3 (600 mm dia)	m	2,310.00	2,310.00
M-112		RCC Pipe NP3 (500 mm dia)	m		
		RCC Pipe NP3 (300 mm dia)	m	516.74	516.74
M-113	M-150	RCC Pipe NP4 (1200 mm dia)	m	6,510.00	6,510.00
M-114	M-149	RCC Pipe NP4 (1000 mm dia)	m	5,565.00	5,565.00
M-115		RCC Pipe NP4 (750 mm dia)	m		
M-116		RCC Pipe NP4 (600 mm dia)	m	2,310.00	2,310.00
M-117		RCC Pipe NP4 (300 mm dia)	m		-
M-118		Red-oxide Primer	litre	226.49	226.49
M-119	M-132	Road marking paint	litre	224.02	224.02
M-120	M-005	Sand (Coarse)	cum	175.80	175.80
M-121	M-006	Sand (Fine)	cum	141.85	141.85
M-122	M-162	Seeds	kg	34.61	34.61
M-123	M-175	Steel Pipe 50 mm dia	m	221.22	221.22
M-124		Steel Reinforcement (HYSD Bars) 12 mm	t	48,334.75	48,334.75
M-125		Steel Reinforcement (MS Round Bars) 6 mm	t	48,334.75	48,334.75
M-126		Steel Reinforcement (TMT Bars) 8 mm	t	48,334.75	48,334.75
M-127	M-001	Stone Boulder of size 150 mm and below	cum	351.36	351.36
M-128	M-052	Stone Chips 12 mm size	cum	686.05	686.05
M-129	M-043	Stone Chips 13.2 mm to 5.6 mm	cum	657.91	657.91
M-130	M-041	Stone Crushed Aggregate 11.2 mm to 0.09 mm	cum	392.53	392.53
M-131		Stone for Coarse Rubble Masonry 1st Sort	cum		

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-132		Stone for Coarse Rubble Masonry 2nd Sort	cum		
M-133	M-148	Stone for Random Rubble Masonry	cum	336.55	336.55
M-134		Stone for Stone Set Pavement (300 mm x 200 mm x 150 mm)	No.		
M-135	M-042	Stone Screening - Type A 13.2 mm for Grading-1	cum	515.53	515.53
M-136	M-042	Stone Screening - Type A 13.2 mm for Grading-2	cum	515.53	515.53
M-137	M-041	Stone Screening - Type B 11.2 mm for Grading-2	cum	392.53	392.53
M-138	M-041	Stone Screening - Type B 11.2 mm for Grading-3	cum	392.53	392.53
M-139	M-001	Stone spall	cum	351.36	351.36
M-140		Traffic cones	No.		
M-141	M-189	Water	kl	73.60	73.60
M-142	M-020	Well graded Granular Base Material - Grading A 2.36 mm below	cum	286.72	286.72
M-143	M-026	Well graded Granular Base Material - Grading A 26.5 mm to 4.75 mm	cum	544.89	544.89
M-144	M-029	Well graded Granular Base Material - Grading A 53 mm to 26.5 mm	cum	503.85	503.85
M-145	M-020	Well graded Granular Base Material - Grading B 2.36 mm below	cum	286.72	286.72
M-146	M-026	Well graded Granular Base Material - Grading B 26.5 mm to 4.75 mm	cum	544.89	544.89
M-147	M-020	Well graded Granular Base Material - Grading C 2.36 mm below	cum	286.72	286.72
M-148	M-016	Well graded Granular Base Material - Grading C 9.5 mm to 4.75 mm	cum	625.53	625.53
M-149	M-020	Well Graded Material for Sub-Base - Grading I 2.36 mm below	cum	234.89	234.89
M-150	M-013	Well Graded Material for Sub-Base - Grading I 53 mm to 9.5 mm	cum	610.74	610.74
M-151	M-017	Well Graded Material for Sub-Base - Grading I 9.5 mm to 2.36 mm	cum	506.92	506.92
M-152	M-020	Well Graded Material for Sub-Base - Grading II 2.36 mm below	cum	286.72	286.72
M-153	M-027	Well Graded Material for Sub-Base - Grading II 26.5 mm to 9.5 mm	cum	595.36	595.36
M-154	M-017	Well Graded Material for Sub-Base - Grading II 9.5 mm to 2.36 mm	cum	506.92	506.92

Sl. No.	SOR Code	Description	Unit	Basic Rate as per SOR including Royalty	Final Rate including Royalty
M-155	M-020	Well Graded Material for Sub-Base - Grading III 2.36 mm below	cum	286.72	286.72
M-156	M-018	Well Graded Material for Sub-Base - Grading III 4.75 mm to 2.36 mm	cum	301.05	301.05
M-157	M-016	Well Graded Material for Sub-Base - Grading III 9.5 mm to 4.75 mm	cum	625.53	625.53
M-158		Wooden sleepers (250 mm x 250 mm x 125 mm) (hire charges)	No.	5.00	5.00
RCD					
M-118	M-118	Hot applied thermoplastic compound (Sp. Gravity - 2.10)	litre	183.25	183.25
M-152	M-152	Reflectorising glass beads	kg	65.04	65.04
		Stone crushed aggregates 13.2 mm to 0.09 mm	cum	515.53	515.53
		Slow-curing bitumen emulsion	kg	37.88	37.88
M-160	M-160	Sapling 2 m high 25 mm dia	each	23.08	23.08
M-136	M-136	Pesticide	Kg	77.86	77.86
		Brick Bats	cum	1,670.00	1,670.00

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 t 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 WMM	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 MORR Specifications	Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1.2		Loading and Unloading Time, Aggregate, Stone Boulder, Brick Aggregate, Kanhar, Building Rubbish, Crushed Slag, Stone for Masonry Work by Mechanical Means (i) Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kanhar, 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 1,594.00 199.47 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, 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 b) Overheads @ 6 % on (a) c) Contractor's Profit @ 10.0% on (a+b) Cost for 5.5 cum = a+b+c	Min Min Min Min hour	1.00 2.00 2.00 5.00 0.08	1,183.00	94.64 - - 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 Empty return trip b) Overheads @ 6 % on (a) c) Contractor's Profit @ 10.0% on (a+b) Cost for 100 t.km = a+b+c	hour hour	0.40 0.29	1,183.00 1,183.00	473.20 343.07 - - 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 11 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 b) Overheads @ 6 % on (a) c) Contractor's Profit @ 10.0% on (a+b) Cost for 100 t.km = a+b+c	hour hour	0.50 0.33	1,183.00 1,183.00	591.50 390.39 - - 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					
	1) 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 t.km = a+b+c				1,975.61
Rate per t.km = (a+b+c)/100						19.80


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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	912.90	
		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 aa 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)	Materilas					
		Brick Bats	Cum	1.000	987.00	987.00	
	c)	Overheads @ 6 % on (a+b)				0.00	
	d)	Contractor's profit @ 10% on (a+b+c)				0.00	
	e)	CARRIAGE					
		Brick Bats	Cum	1.000	163.74	163.74	
		TOTAL				1472.77	
		Labour Cess 1%				14.73	
		GST 12%				176.73	
		Add 10% basic rate of material for seigniorage				98.70	
		Total per cum	Cum			1,762.93	

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Name :- Matariya To Barai Tola

Block:- Harsidhi

Dist:- East Champaran

Total Length (KM):-

10.50

Restoration Length(KM):-

0.847

From Ch. 0.000 m To 500 m

No	Length (M)	Width (M)	Depth (M)	Volume (m3)
1	0.90	1.30	0.075	0.088
1	1.00	0.90	0.075	0.068
1	0.90	1.10	0.075	0.074
1	2.00	0.90	0.075	0.135
1	1.20	1.10	0.075	0.099
1	0.80	0.80	0.075	0.048
1	0.75	0.75	0.075	0.042
1	10.00	1.47	0.075	1.100
1	1.50	1.40	0.075	0.158
1	1.00	0.80	0.100	0.080
1	1.40	1.80	0.100	0.252
1	1.10	1.15	0.100	0.127
1	0.70	0.80	0.100	0.056
1	1.30	1.10	0.100	0.143
1	2.10	1.20	0.100	0.252
1	2.10	1.50	0.150	0.473
1	1.00	0.50	0.100	0.050
1	2.50	1.60	0.120	0.480
1	0.80	0.70	0.100	0.056
1	1.20	1.10	0.100	0.132
1	1.90	1.50	0.100	0.285

4.196

From Ch. 500 m To 1000 m

1	1.30	1.00	0.100	0.130
1	1.50	1.20	0.100	0.180
1	0.90	0.90	0.100	0.081
1	0.50	0.50	0.100	0.025
1	5.00	1.50	0.100	0.750
1	1.40	1.80	0.100	0.252
1	0.90	1.00	0.100	0.090
1	3.00	1.50	0.100	0.450
1	3.60	1.40	0.100	0.504
1	2.10	2.80	0.100	0.588
1	5.90	2.40	0.100	1.416
1	7.80	1.70	0.100	1.326
1	2.10	1.80	0.100	0.378
1	1.90	1.50	0.100	0.285
1	2.50	1.40	0.100	0.350
1	1.15	0.80	0.100	0.092
1	6.20	3.60	0.150	3.348
1	7.90	1.80	0.150	2.133
1	5.00	1.15	0.150	0.863
1	7.30	1.30	0.120	1.139

1	4.00			
1	0.90	1.70	0.100	0.680
1	2.60	0.90	0.100	0.081
1	1.50	1.90	0.100	0.494
1	5.00	2.50	0.100	0.375
1	1.50	1.80	0.100	0.900
1	0.90	1.50	0.100	0.225
1	2.30	0.80	0.100	0.072
1	3.50	1.20	0.100	0.276
1	4.30	1.30	0.100	0.455
1	1.10	1.10	0.100	0.473
1	2.00	1.00	0.100	0.110
1	13.50	1.50	0.100	0.300
1	0.60	2.20	0.150	4.455
1	2.50	0.50	0.100	0.030
1	1.40	1.00	0.100	0.250
1	1.00	1.30	0.100	0.182
1	3.50	2.00	0.100	0.200
1	1.70	1.25	0.100	0.438
1	2.50	1.70	0.100	0.289
1	2.00	1.30	0.120	0.390
1	2.40	1.00	0.100	0.200
1	1.50	1.50	0.150	0.540
1	0.90	1.10	0.100	0.165
2	0.90	0.80	0.100	0.144
1	2.00	1.60	0.150	0.480
1	1.80	0.80	0.150	0.216
1	5.00	1.50	0.150	1.125
				27.924
From Ch. 1000 m To 1500 m				
1	0.90	0.50	0.100	0.045
1	1.50	1.30	0.100	0.195
1	2.30	1.70	0.100	0.391
1	5.20	1.75	0.100	0.910
2	1.00	1.00	0.100	0.200
1	3.90	1.90	0.200	1.482
1	1.30	2.00	0.150	0.390
1	2.50	1.50	0.150	0.563
1	6.50	2.10	0.100	1.365
1	9.50	1.75	0.100	1.663
1	6.10	2.10	0.100	1.281
1	3.90	1.90	0.100	0.741
1	0.90	0.50	0.100	0.045
1	1.50	1.30	0.100	0.195
1	2.30	1.70	0.100	0.391
1	3.50	1.00	0.100	0.350
1	5.20	1.75	0.100	0.910
2	1.00	1.00	0.100	0.200
1	3.90	1.90	0.200	1.482
1	1.30	2.00	0.150	0.390
1	2.50	1.50	0.150	0.563

1	6.50			
1	9.50	2.10		
1	6.10	1.75	0.100	1.365
1	3.90	2.10	0.100	1.663
		1.90	0.100	1.281
			0.100	0.741
From Ch. 1500 m To 2000 m				18.800
2	1.10	2.00		
1	1.20	1.50	0.075	0.330
1	3.80	1.60	0.075	0.135
1	6.40	1.80	0.075	0.456
1	2.00	2.60	0.100	1.152
1	1.70	0.60	0.100	0.520
1	1.00	1.00	0.100	0.102
1	2.10	2.00	0.100	0.100
1	2.50	2.00	0.100	0.420
1	6.70	2.50	0.100	0.500
1	7.70	3.30	0.075	1.256
1	2.30	2.50	0.100	2.541
1	13.00	1.07	0.075	0.575
1	7.00	1.10	0.075	1.040
1	7.00	3.27	0.100	0.578
1	2.50	1.90	0.100	2.287
1	4.00	4.00	0.100	0.475
1	4.00	3.00	0.100	1.600
1	8.00	1.50	0.100	1.200
2	0.80	0.70	0.100	1.200
1	1.00	1.30	0.100	0.112
1	8.00	2.50	0.120	0.130
1	7.70	1.70	0.150	2.400
1	8.00	1.80	0.120	1.964
1	8.00	4.00	0.200	1.728
1	4.50	1.50	0.150	6.400
1	7.00	2.10	0.100	1.013
1	2.10	1.30	0.120	1.470
1	1.00	1.00	0.100	0.328
1	4.50	0.80	0.100	0.100
1	2.00	3.50	0.100	0.360
1	3.00	2.00	0.120	0.700
				0.720
				33.890
From Ch. 2000 m To 2500 m				
1	1.80	1.00	0.100	0.180
5	0.60	0.40	0.100	0.120
1	2.00	1.10	0.120	0.264
1	3.00	0.70	0.100	0.210
1	1.00	1.30	0.100	0.130
1	3.90	3.10	0.150	1.814
1	1.50	1.50	0.100	0.225
				2.943

From Ch. 21000 m To 31000 m

1	8.80	1.50	0.120	0.774
1	1.80	1.90	0.100	0.385
1	4.20	1.50	0.100	0.680
1	2.10	1.40	0.100	0.176
1	0.50	0.50	0.100	0.100
1	1.20	1.50	0.100	0.180
1	0.60	0.60	0.100	0.108
1	1.50	1.20	0.120	0.216
1	1.50	1.10	0.100	0.165
1	1.30	1.20	0.100	0.156
1	1.50	1.20	0.100	0.180
1	1.30	1.00	0.100	0.130
1	2.20	2.10	0.100	0.462
1	1.00	1.00	0.100	0.100
1	4.10	2.10	0.150	1.292
2	0.70	0.60	0.150	0.126

5.137

From Ch. 3000 m To 3500 m

1	1.40	2.50	0.15	0.525
1	1.20	0.90	0.100	0.108
1	2.50	2.00	0.150	0.750
1	4.10	1.55	0.150	0.954
1	0.50	0.60	0.100	0.090
1	2.00	2.20	0.120	0.528
1	2.00	1.00	0.120	0.240
1	2.60	1.80	0.100	0.468
1	1.00	1.60	0.100	0.160
1	1.50	1.30	0.100	0.195
1	1.00	1.00	0.075	0.075
1	2.70	1.50	0.100	0.405
1	1.40	1.10	0.150	0.231
1	2.50	2.10	0.150	0.788
1	1.30	1.20	0.150	0.234
1	5.10	1.90	0.150	1.454
1	2.50	2.00	0.100	0.500
1	15.00	4.50	0.250	16.875
1	7.50	1.90	0.250	3.563
1	1.50	1.50	0.100	0.225
1	2.50	1.40	0.100	0.350
1	7.70	1.50	0.100	1.155
1	1.30	1.00	0.100	0.130

30.001

From Ch. 35000 m To 4000 m

1	3.70	2.80	0.100	1.036
1	3.10	0.85	0.100	0.264
1	11.00	1.55	0.100	1.705
1	4.00	4.00	0.150	2.400
1	17.00	4.10	0.200	13.940
1	3.00	3.00	0.200	1.800

1	8.80	3.50	0.250	7.700
28.845				
From Ch. 4000 m To 4500 m				
1	28.50	4.78	0.200	27.218
1	1.50	2.80	0.150	0.630
1	12.50	2.97	0.150	5.563
1	5.00	1.50	0.075	0.563
1	1.10	0.80	0.075	0.066
1	2.70	2.10	0.075	0.425
1	1.20	6.70	0.075	0.603
1	4.00	1.80	0.075	0.540
35.607				
From Ch. 4500 m To 5000 m				
1	3.50	1.03	0.100	0.362
1	5.00	1.15	0.100	0.575
1	1.10	2.00	0.100	0.220
1	17.20	3.95	0.100	6.794
1	2.00	2.10	0.075	0.315
8.266				
From Ch. 5000 m To 5500 m				
1	2.00	1.00	0.075	0.150
1	5.10	0.95	0.075	0.363
1	2.90	3.30	0.100	0.957
1	2.10	2.00	0.075	0.315
1	0.80	0.60	0.100	0.048
1	4.10	1.10	0.075	0.338
1	2.70	1.80	0.075	0.365
2	1.50	1.00	0.075	0.225
1	11.50	1.23	0.075	1.064
1	3.30	1.80	0.075	0.446
1	3.00	1.20	0.075	0.270
4	0.80	1.00	0.075	0.240
4.780				
From Ch. 5500 m To 6000 m				
1	6.80	1.25	0.075	0.638
1	6.20	1.27	0.075	0.589
1	4.00	2.00	0.150	1.200
1	1.00	0.80	0.150	0.120
1	3.00	2.00	0.100	0.600
1	1.00	1.00	0.100	0.100
3.247				
From Ch. 6000 m To 6500 m				
2	0.80	0.70	0.075	0.084
1	1.00	0.90	0.075	0.068
0.152				
From Ch. 6500 m To 7000 m NILL				
From Ch. 7000 m To 7500 m NILL				
From Ch. 7500 m To 8000 m				
1	3.20	1.50	0.075	0.360
1	2.50	0.80	0.075	0.150

1	3.50	1.30	0.075	0.341
1	1.50	2.40	0.075	0.270
1	3.30	1.00	0.075	0.248
1	2.00	1.00	0.075	0.150
1	1.00	1.00	0.075	0.075
				1.594
From Ch. 8000 m To 8500 m				
1	4.00	1.85	0.200	1.480
1	4.00	1.00	0.150	0.600
1	2.00	0.60	0.100	0.120
1	1.00	1.80	0.100	0.180
				2.380
From Ch. 8500 m To 9000 m				
3	1.00	0.80	0.100	0.240
1	0.60	1.00	0.075	0.045
1	2.10	1.40	0.075	0.221
				0.506
From Ch. 9000 m To 9500 m				
1	4.30	1.42	0.075	0.458
2	2.00	1.00	0.075	0.300
2	1.00	0.80	0.075	0.120
				0.878
From Ch. 9500 m To 10000 m				
2	1.50	1.00	0.075	0.225
1	1.50	1.00	0.075	0.113
1	1.30	0.80	0.075	0.078
1	2.00	1.05	0.075	0.158
1	1.10	1.20	0.075	0.099
1	1.10	1.20	0.075	0.099
1	1.60	1.50	0.075	0.180
1	4.20	2.80	0.100	1.176
1	2.60	2.00	0.100	0.520
1	2.00	2.00	0.100	0.400
1	2.50	1.30	0.100	0.325
1	1.00	0.50	0.075	0.038
1	8.50	3.30	0.120	3.366
1	12.00	2.60	0.150	4.688
				11.464
Total =				220.61

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Road - Temporary Restoration of road for
material to Barai toll. Blue-Herstals.



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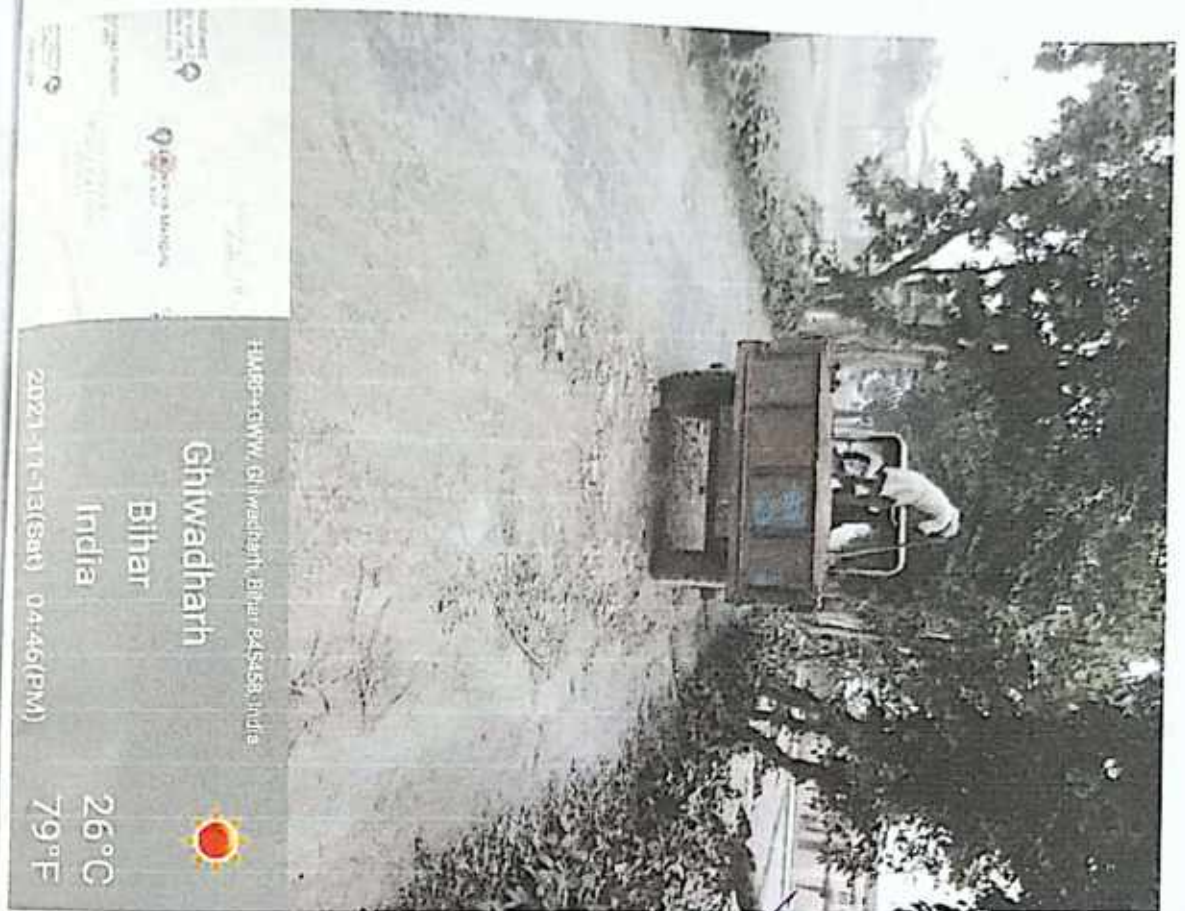
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tude: 26.600412
 gitude: 84.656767
 ation: 76.21±19 m
 uracy: 5.3 m
 e: 11-08-2021 14:57
 e: matiyariya tu Bari tola

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tude: 26.598628
 gitude: 84.665138
 ation: 72.97±20 m
 uracy: 2.7 m
 e: 10-28-2021 12:21
 e: matiyariya tu Bari tola

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tude: 26.600093
 gitude: 84.657787
 ation: 55.58±108 m
 uracy: 6.9 m
 14-11-2021 12:56
 MatiyariyaToBariTola

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tude: 26.598851
 gitude: 84.66448
 ation: 70.57±16 m
 uracy: 6.2 m
 11-13-2021 13:58
 Matiyariya to Bari tola

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