



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

FDR

PLAN HEAD FDR(2245) (2020-2021)



MOTARABLE OF ROAD FROM KOTHEYA SE MIRPUR JUARA.

DISTRICT	:-	Saran	
DIVISION	:-	Chapra-1	
BLOCK	:-	Garkha	
TOTAL LENGTH OF ROAD	:-	3.600	KM
TOTAL COST OF CONSTRUCTION	:-	4.939	Lac
TOTAL COST OF PROJECT	:-	4.939	Lac

Inspection Report for flood Damage Work

Date :-

1- Name of PIUs :- R.W.D., (W) Division, Chapra - 1

2- Name of Block/Road :- GARKHA / Kothas Se Mispr-Juwero, L = 3.60 km

A. FOR RAOD

1- Damage Location/Chainage :- 1st to 4th km.

2- Damage Length :- 212.70 M.

3- Nature of Damage :- Ditches breach

4- Details of Restoration :-

i- Material being used in Restoration

:- Brick bats, Sand, Grabbish

ii- Equipment/Tools being used in Restoration Works

:- J.C.B. Tractor, Reller

iii- Procedure taken up in Restoration Works

:- Laying brick bats with sand
Grabbish

iv- Restored Length

:- 212.70 M.

B. FOR BRIDGE

1- Damage Location/Chainage :-

2- Damage Length :-

3- Nature of Damage :-

4- Details of Restoration :-

i- Material being used in Restoration

:-

ii- Equipment/Tools being used in Restoration Works

:-

iii- Procedure taken up in Restoration Works

:-

iv- Restored Length

:-

Signature of JE/AE/EE

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22/10/2020
Garkha

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22/10/2020
B.E.

[Signature]
22/10/2020

Signature

(Name of Inspector)

FDR(2020-2021)
प्रतिवेदन

पथ का नाम:- Kotheya Se Mirpur Juara.
पथ की लम्बाई:- 3.600 KM.
प्राक्कलित राशि:- 493942 रु
प्रखंड:-गरखा
जिला:-सारण

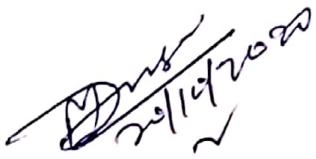
प्रस्तुत प्राक्कलन ग्रामीण कार्य विभाग कार्य प्रमंडल छपरा-1 के अंतर्गत बाढ़ से क्षतिग्रस्त पथों के मोटेरेबुल कार्य प्राक्कलन विभाग के निर्देशानुसार तैयार किया गया है।

विदित है कि माह जुलाई एवं सितम्बर 2020 में गंडक नदी के बांध के टूटने एवं अतिवृष्टि के कारण आयी बाढ़ के कारण निर्मित/निर्माणाधीन पथों में काफी क्षति हुई है। पानी के तेज बहाव के कारण पथों में हुई कटाव से आवागमन प्रभावित हुआ है साथ ही दिनांक 3.11.2020 को विहार विधान सभा का चुनाव निर्धारित है। बूथों तक वाहन का आवागमन आवश्यक है जिस कारण से चुनाव कार्य एवं लोगो की कठिनाईयो को देखते हुए तथा उच्चाधिकारी के निर्देशानुसार पथों को तत्काल मोटेरेबुल करने का निर्देश दिया गया है ताकि सभी बूथों पर वाहन का आवागमन सुनिश्चित हो सके।

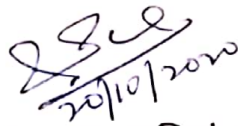
उपरोक्त आलोक में क्षतिग्रस्त पथों में तत्काल Brick Bats से भरकर वाहन का आवागमन चालू किया गया है।

इस प्रकार प्राक्कलन में Brick Bats भरने के साथ आवश्यक मदो का प्रावधान किया गया है।

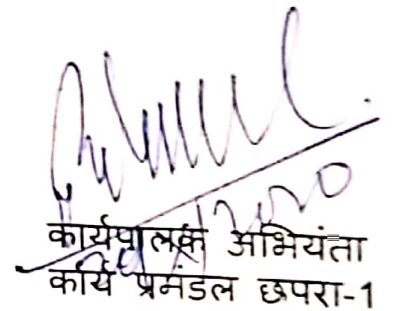
प्राक्कलन वर्तमान अन्सूचित दर पर तैयार कर आवश्यक कारवाई हेतु समर्पित किया जाता है।



कनीय अभियंता
कार्य अवर प्रमंडल गरखा



सहायक अभियंता
कार्य अवर प्रमंडल गरखा



कार्यपालक अभियंता
कार्य प्रमंडल छपरा-1

FDR

GENERAL ABSTRACT OF COST

Block:- Garkha

District:- Saran

Length of Road:- 3.600 KM

Name of Road:- Motarable Of Road From Kotheya Se Mirpur Juara.

Sl. No.	Item of Work	Amount
A	TOTAL COST	4.939 Lacs
	TOTAL	4.939 Lacs

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20/10/2020
Junior Engineer

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20/10/2020
Asstt. Engineer

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20/10/2020
Executive Engineer

T/O for Rs 4.939/- Lacs.
(Rs per foot SE
RWD Lacs. Niney three thousand
Nine hundred) only.

[Signature]
20/10/21
TECHNICAL ADVISER
RURAL WORKS DEPTT.
WORKS CIRCLE, CHAPRA

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Superintending Engineer
Rural (Works) Deptt.
Works Circle, Chapra

GENERAL ABSTRACT OF COST FOR FDR OF ROAD

NAME OF ROAD : Motorable Of Road From Kothaya to Mirpur Jara

DISTRICT : Saran
 BLOCK : Garbha
 DIVISION : Chapra 4
 LENGTH OF ROAD (in Km) : 3.600

Sl. No.	DESCRIPTION	Amount	1 % Labour Cess	12 % GST	GROSS AMOUNT (LAKHS)
1	EARTHWORK & BRICK PITS & RUMI PIPE	4.371	0.044	0.525	4.939
		0.000	0.000	0.000	0.000
	TOTAL COST OF PROJECT IN LACS =	4.371	0.044	0.525	4.939

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Name Of Road :-			Motarable Of Road From Kotheya Se Mirpur Juara.					Block :-	Garkha	DISTRICT:-	Saran	LENGTH :-	3.600 KM.
Sl. No.	SDB SL.NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)		
1	8.1.3.2 (iii)		BRICK BATS Providing brick bats including spreading laying,Labour for dry graded jhama khoa folter under Brick Pitching or boulder pitching in slope or apron including light ramming etc. All complete job as per approved design specification and direction of E/L,including carriage cost of bricks.	Cum					228.873	1,909.87	4,37,117.00		
Quantity As Per Annexure									Total Quantity=	228.87	1,909.87	4,37,117.00	
TOTAL COST IN RS. =										4,37,117.00			

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ANNEXTURE-1

Name Of Road Motorable Of Road From Kothaya Se Mirpur Juara.

Block Garcha

Sl. No.	Description	No.	LENGTH [m]	WIDTH [m]	HEIGHT [m]	UNIT	QUANTITY
1	1st Km.	1	3.00	2.00	0.30	CUM	1.80 m3
2	1st Km.	1	1.00	1.50	0.30	CUM	0.45 m3
3	1st Km.	1	3.00	2.00	0.30	CUM	1.80 m3
4	1st Km.	1	1.00	0.50	0.20	CUM	0.10 m3
5	1st Km.	3	1.00	1.00	0.40	CUM	1.20 m3
6	1st Km.	1	2.50	1.00	0.30	CUM	0.75 m3
7	1st Km.	1	3.50	2.50	0.50	CUM	4.38 m3
8	1st Km.	2	6.50	1.50	0.30	CUM	5.85 m3
9	1st Km.	1	2.50	1.50	0.20	CUM	0.75 m3
10	1st Km.	1	5.00	3.75	0.50	CUM	9.38 m3
11	1st Km.	1	5.00	1.50	0.20	CUM	1.50 m3
12	2nd Km.	1	3.00	2.50	0.30	CUM	2.25 m3
13	2nd Km.	3	1.50	1.00	0.20	CUM	0.90 m3
14	2nd Km.	1	3.00	2.50	0.50	CUM	3.75 m3
15	2nd Km.	1	3.50	3.00	0.30	CUM	3.15 m3
16	2nd Km.	1	1.00	1.00	0.20	CUM	0.20 m3
17	2nd Km.	4	1.00	1.00	0.20	CUM	0.80 m3
18	2nd Km.	1	5.00	1.00	0.30	CUM	1.50 m3
19	2nd Km.	1	5.00	3.00	0.30	CUM	4.50 m3
20	2nd Km.	3	2.50	2.50	0.30	CUM	5.63 m3
21	2nd Km.	2	1.50	1.00	0.30	CUM	0.90 m3
22	2nd Km.	1	6.00	3.50	0.30	CUM	6.30 m3
23	2nd Km.	2	20.00	3.75	0.50	CUM	75.00 m3
24	2nd Km.	1	1.00	1.00	0.20	CUM	0.20 m3
25	2nd Km.	1	4.00	2.50	0.30	CUM	3.00 m3
26	2nd Km.	1	1.00	0.50	0.20	CUM	0.10 m3
27	3rd Km.	1	6.50	3.75	0.30	CUM	7.31 m3
28	3rd Km.	1	3.00	2.00	0.30	CUM	1.80 m3
29	3rd Km.	1	3.00	1.50	0.30	CUM	1.35 m3
30	3rd Km.	1	3.00	2.50	0.30	CUM	2.25 m3
31	3rd Km.	1	3.00	2.00	0.30	CUM	1.80 m3
32	3rd Km.	1	3.00	2.50	0.30	CUM	2.25 m3
33	3rd Km.	1	1.00	0.50	0.20	CUM	0.10 m3
34	3rd Km.	1	3.00	2.50	0.30	CUM	2.25 m3
35	3rd Km.	1	3.00	2.00	0.30	CUM	1.80 m3
36	3rd Km.	1	15.00	5.00	0.40	CUM	30.00 m3
37	3rd Km.	1	10.00	3.00	0.60	CUM	18.00 m3
38	4th Km.	1	3.20	3.00	0.35	CUM	3.36 m3
39	4th Km.	1	4.00	2.50	0.30	CUM	3.00 m3
40	4th Km.	1	5.00	3.00	0.40	CUM	6.00 m3
41	4th Km.	1	2.00	3.00	0.30	CUM	1.80 m3
42	4th Km.	1	2.50	3.00	0.45	CUM	3.38 m3
43	4th Km.	1	2.00	3.00	0.30	CUM	1.80 m3
44	4th Km.	1	5.00	3.00	0.30	CUM	4.50 m3
TOTAL QUANTITY =							228.87 m3

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Analysis of Rates (FORMAT F8)

Sl No	SDB SL No	MORD Ref No	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
27	WRD 5.7.40		BRICK BATS Providing, Laying and Spreading Brick Bats In Road ditches sll complete as per approved design specification and direction of E/I. Unit = cum Taking Output = 1 cum				
		a)	Labour Mate Unskilled	day day	0.04 1.00	305.00 287.00	12.20 287.00
		b)	Materials Brick Bats	Cum	1.00	1063.00	1063.00
		c)	Over Heads @ 6 % on (a+b) C. Profit @ 10 % on (a+b+c)				81.73 144.39 1588.33
		d)	Rate Per cum=(a+b+c+d)/2.832	cum			
		e)	Carriage Brick bats	day	1.000	321.54	321.54 1909.87
			Rate per cum with carriage				1,909.87
			FINISHED RATE	CUM			

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A.E.

ANALYSIS FOR CARRIAGE OF MATERIALS

(C) Haulage Charge By 3.60 t Tractor capacity

- (i) For Surface Road :- Rs. 18.70 Per t per K.M
- (ii) For Unsurface Road :- Rs. 23.30 Per t per K.M
- (iii) For Kutcha Road :- Rs. 29.20 Per t per K.M

1 CARRIAGE COST OF BRICK BAT

Lead as per Quarry Chart :-

7 P + 1 K

$$\text{Haulage Cost} = \frac{3.60}{2.25} \times [(18.70 \times 7.00) + (29.20 \times 1.00)] = 256.16$$

Unloading

=

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65.38

Total per 1000 Nos. = 321.54

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**BASIC RATES
(A) Labour**

Sl. No.	Description of Labour	Unit	Rate (Rs.)
L-01	Bhisti	day	287.00
L-02	Bitumen Sprayer	day	302.00
L-03	Head Blacksmith	day	388.00
L-04	Blaster	day	477.00
L-05	Carpenter 1st Class	day	388.00
L-06	Chips spreader	day	345.00
L-07	Chiseller	day	364.00
L-08	Dresser (Skilled)	day	367.00
L-09	Driller	day	345.00
L-10	Electrician	day	367.00
L-11	Fitter	day	395.00
L-12	Mason (1st class)	day	388.00
L-13	Mason (2nd Class)	day	345.00
L-14	Mate	day	305.00
L-15	Mazdoor (Unskilled)	day	287.00
L-16	Mazdoor (Semi skilled)	day	299.00
L-17	Mazdoor (Skilled)	day	364.00
L-18	Painter (1st class)	day	364.00
L-19	Plumber	day	364.00
L-20	Surveyor	day	349.00
L-21	White Washer	day	364.00

(Basic Rates taken from SOR, 15th edition, Road Construction Department, Govt of Bihar effective from 16/04/2020) Revised (Basic Rates taken from SOR, 15th edition, Road Construction Department, Govt of Bihar effective from 11/05/2020) & 21/07/2020

**BASIC RATES
(B) Material**

Sl. No.	SOR Code	Description	Unit	Basic Rate	Add Royalty	Final Rate
M-001	M-056	AC pipe 100 mm	m	40.63		
M-002	M-032	Aggregate - For 37.5 mm Maximum size - 22.4 mm to 5.6 mm	cum	431.99	150.00	
M-003	M-034	Aggregate - For 37.5 mm Maximum size - 45 mm to 22.5 mm	cum	382.52	150.00	
M-004	M-030	Aggregate - For 37.5 mm Maximum size - Below 5.6 mm	cum	101.35	150.00	
M-005	M-032	Aggregate - For 53 mm Maximum size - 22.5 mm to 5.6 mm	cum	431.99	150.00	
M-006	M-038	Aggregate - For 53 mm Maximum size - 63 mm to 45 mm	cum	330.64	150.00	
M-007	M-030	Aggregate - For 53 mm Maximum size - Below 5.6 mm	cum	101.35	150.00	
M-008	M-040	Aggregate - Grading I (40 mm nominal Size) 10 mm - 5 mm	cum	432.80	150.00	
M-009	M-046	Aggregate - Grading I (40 mm nominal Size) 25 mm - 10 mm	cum	517.20	150.00	
M-010	M-049	Aggregate - Grading I (40 mm nominal Size) 37.25 mm - 25 mm	cum	382.52	150.00	
M-011	M-030	Aggregate - Grading I (40 mm nominal Size) 5 mm and below	cum	101.35	150.00	
M-012	M-040	Aggregate - Grading II (19 mm nominal Size) 10 mm - 5 mm	cum	432.80	150.00	
M-013	M-046	Aggregate - Grading II (19 mm nominal Size) 25 mm - 10 mm	cum	517.20	150.00	
M-014	M-030	Aggregate - Grading II (19 mm nominal Size) 5 mm and below	cum	101.35	150.00	
M-015	M-051	Aggregate 10 mm	cum	518.80	150.00	
M-016	M-053	Aggregate 20 mm	cum	454.91	150.00	
M-017	M-055	Aggregate 40 mm	cum	344.15	150.00	
M-018	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading I	cum	76.97	83.00	
M-019	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading II	cum	76.97	83.00	
M-020	M-007	Aggregate- Crushable type such as moorum or Gravel for Grading III	cum	76.97	83.00	
M-021	M-039	Aggregate-Grading I 90 mm to 45 mm	cum	298.91	150.00	
M-022	M-038	Aggregate-Grading II 63 mm to 45 mm	cum	330.64	150.00	
M-023	M-036	Aggregate-Grading III 53 mm to 22.4 mm	cum	361.44	150.00	
M-024	M-031	Aggregates 22.4 mm to 2.36 mm for wet mix macadam	cum	431.99	150.00	
M-025	M-034	Aggregates 45 mm to 22.4 mm for wet mix macadam	cum	382.52	150.00	

FORM F8

S. No.	SOR Code	Description	Unit	Basic Rate	Add Royalty	Final Basic rate
M-026	M-059	Aluminium sheeting (1.5 mm thick)	sqm	7,738.53		7,738.53
M-027	M-062	Aluminium Studs 100 mm x 100 mm fitted with lense reflectors	Nos.	168.52		168.52
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.	50.00		50.00
M-029		Bamboo (2nd Class) 75mm dia, 1.8 m - 2.5 m long	No.	15.00		15.00
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	59.01		59.01
M-032	M-007	Binding Material (Moorum)	cum	76.97	83.00	159.97
M-033	M-072	Binding wire	kg	60.03		60.03
M-034	M-078	Bitumen (Crumb Rubber Modified)	tonne	39,962.50		39,962.50
M-035		Bitumen (Natural Rubber Modified)	tonne	41,271.30		41,271.30
M-036		Bitumen (Polymer Modified)	tonne			-
M-037	M-074	Bitumen (S-65)(Muzaffarpur)(Excluding the Cost of Empty Drum @Rs.778.18/-Per MT)	t	31,696.82		31,696.82
M-038	M-075	Bitumen (S-90)(Muzaffarpur)(Excluding the Cost of Empty Drum @Rs.778.18/-Per MT)	t	30,896.82		30,896.82
M-039	M-077	Bitumen Emulsion (RS-1) (Muzaffarpur)(Excluding the Cost of Empty Drum @Rs.778.18/-Per MT)	t	36,567.82		36,567.82
M-040	M-077	Bitumen Emulsion (SS-1) (Muzaffarpur)(Excluding the Cost of Empty Drum @Rs.778.18/-Per MT)	t	38,388.82		38,388.82
M-041	M-120	Bituminous sealant	litre	24.05		24.05
M-042	M-148	Random Rubble Stone	kg	288.84		288.84
M-043		Blasting material	kg	781.83		781.83
M-044	M-182	Bond stone (400 mm x 150 mm x 150 mm)	No.	10.48		10.48
M-045	M-079	Brick 1st Class	No.	5.00		5.00
M-046		Cement (OPC - 43 Grade) (Darbhanga) Excluding the Cost of Empty Bag @Rs.3.60/-Per Bag	t	5,146.00		5,146.00
M-047	M-090	Cement Primer	litre	111.48		111.48
M-048		Chlorprene Elastomer or Closed Cell Foam Sealing Element	m			-

Sl. No.	SOR Code	Description	Unit	Basic Rate	Add Royalty	Final Est. rate
M-049	M-163	Compensation for earth taken from private land (Including royalty @ Rs. 22.0 per cum & compensation @ Rs. 1.71 per cum)	cum	1.81	33.00	
M-050	M-084	Compressible Fibre Board	sqm	1,014.12		1.0
M-051	M-086	Copper plate	kg	728.10		7
M-052		Corbelling Stones (300 mm x 150 mm x 150 mm)	No.			
M-053	M-087	Corrosion Resistant Structural Steel Grating	kg	44.79		
M-054	M-089	Credit for excavated rock found suitable for use	cum	171.48		
M-055		Crow bars 40 mm dia (hire charges)	hour	5.00		
M-056	M-021	Crushed Sand or Grit Passing 2.36 mm and retained on 180 micron	cum	89.10	30.00	
M-057		Crushed Slag	cum	775.57		
M-058	M-026	Crushed Stone Aggregate 26.5 mm to 75 micron	cum	403.36	150.00	
M-059	M-052	Crushed Stone chipping 13.2 mm nominal size	cum	547.55	150.00	
M-060	M-050	Crushed Stone Chipping 6.7 mm size 100% passing 11.2 mm and retained on 2.36 mm	cum	311.52	150.00	
M-061	M-050	Crushed Stone Chipping 6.7 mm size 100% passing 9.5 mm and retained on 2.36 mm	cum	311.52	150.00	
M-062	M-051	Crushed Stone chipping 9.5 mm nominal size	cum	518.80	150.00	
M-063	M-035	Crushed Stone Coarse Aggregate Passing 53 mm and retained on 2.8 mm	cum	374.27	150.00	
M-064	M-009	Curing compound	litre	122.56		
M-065		Debonding strips	m	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		
M-069	M-094	Electric Detonator	each	5.75		
M-070	M-095	Epoxy Paint	litre	568.30		
M-071	M-097	Epoxy Primer	litre	116.35		
M-072	M-167	Farmyard manure	cum	757.57		
M-073		Fevicol adhesive	kg	125.00		

FORM F8

Sr No.	SDR Code	Description	Unit	Basic Rate	Add Royalty	Final Basic rate
M-074	M-012	Filter media	cum	362.06	150.00	512.06
M-075	M-021	Fine aggregate/Crushed sand 2.36 mm to 75 micron	cum	119.10		119.10
M-076		Galvanised angle	kg	43.62		43.62
M-077		Galvanised angle Section 100 mm x 100 mm of 12 mm thickness	kg	43.62		43.62
M-078	M-104	Gelatine 80 per cent	kg	806.85		806.85
M-079	M-056	GI Pipe 100 mm dia	m	266.67		266.67
M-080	M-056	GI Pipe 50 mm dia	m	138.89		138.89
M-081	M-102	GI wires	kg	60.03		60.03
M-082		Graded stone aggregate	cum	311.52	150.00	461.52
M-083	M-003	Granular material (Natural occurring, soil gravel mixture / quarry waste, kankar, laterite, dhandla	cum	205.68	150.00	355.68
M-084	M-055	Hand Broken Metal 40 mm size	cum	344.15	150.00	494.15
M-085		Indigo	kg	416.00		416.00
M-086		Interlocking Blocks with 60 mm thickness	sqm			-
M-087		Interlocking Blocks with 80 mm thickness	sqm			-
M-088	M-141	Joint filler board	sqm	957.49		957.49
M-089	M-121	Jute netting, open weave 25 mm square opening	sqm	34.20		34.20
M-090	M-121	Jute rope 12 mm dia	m	39.82		39.82
M-091	M-031	Key Aggregates passing 22.4 mm and retained on 2.8 mm	cum	431.99	150.00	581.99
M-092	M-188	Lime	t	3,615.82		3,615.82
M-093	M-188	Lime putty	t	3,615.82		3,615.82
M-094	M-094	Local Wood Piles (1st Class) 150-200 mm dia, 6m long	No.	525.75		525.75
M-095		Local Wood Piles (1st Class) 100 mm x 75 mm	cum	42,224.54		42,224.54
M-096	M-002	Loose stone	cum	205.68	150.00	355.68
M-097	M-101	MS clamps	Nos.	34.68		34.68
M-098	M-179	MS Flat / Structural Steel	t	38,649.00		38,649.00
M-099		MS Sheet Tube (47 mm x 47 mm x 12 SWG Sheet)	kg	43.62		43.62

Sl. No.	SOR Code	Description
M-100		MS Sheet 1.5 mm thick
M-101		MS Sheet 2 mm thick
M-102	M-130	Nuts, Bolts and Rivets
M-103	M-131	Paint (Synthetic Enamel)
M-104	M-180	Plasticizer
M-105	M-138	Polythene sheet (125 micron)
M-106	M-138	Polythene Sheathing
M-107	M-002	Quarried Stone 150-200 mm size
M-108	M-150	RCC Pipe NP3 (1200 mm dia)
M-109	M-149	RCC Pipe NP3 (1000 mm dia)
M-110		RCC Pipe NP3 (750 mm dia)
M-111		RCC Pipe NP3 (600 mm dia)
M-112		RCC Pipe NP3 (500 mm dia)
		RCC Pipe NP3 (300 mm dia)
M-113	M-150	RCC Pipe NP4 (1200 mm dia)
M-114	M-149	RCC Pipe NP4 (1000 mm dia)
M-115		RCC Pipe NP4 (750 mm dia)
M-116		RCC Pipe NP4 (600 mm dia)
M-117		RCC Pipe NP4 (300 mm dia)
M-118		Red oxide Primer
M-119	M-112	Road marking paint
M-120	M-005	Sand (Coarse)
M-121	M-006	Sand (Fine)
M-122	M-162	Seeds
M-123	M-175	Steel Pipe 50 mm dia
M-124		Steel Reinforcement (HYSD Bars) 12 mm

Unit	Basic Rate	Add Royalty	Final Basic Rate
sqm	116.00		116.00
sqm	832.00		832.00
t	61,740.00		61,740.00
litre	226.20		226.20
litre	156.84		156.84
sqm	14.60		14.60
Nos	14.60		14.60
cum	205.68	150.00	355.68
m	1,921.34		1,921.34
m	2,758.22		2,758.22
m	2,037.52		2,037.52
m	2,058.38		2,058.38
m			
m	505.12		505.12
m	3,921.34		3,921.34
m	2,758.22		2,758.22
m			
m	2,058.38		2,058.38
m	502.61		502.61
litre	226.49		226.49
litre	226.20		226.20
cum	100.80	75.00	175.80
cum	66.85	75.00	141.85
kg	34.47		34.47
m	223.45		223.45
t	10,750.00		10,750.00

FORM F-3

Sl. No.	SOR Code	Description	Unit	Basic Rate	Add Royalty	Final Basic Rate
M-125		Steel Reinforcement (HYS Round Bars) 6 mm	t	19,271.43		19,271.43
M-126		Steel Reinforcement (TMT Bars) 8 mm	t	18,750.00		18,750.00
M-127	M-001	Stone Boulder of size 150 mm and below	cum	205.68	150.00	355.68
M-128	M-052	Stone Chips 12 mm size	cum	547.55	150.00	697.55
M-129	M-041	Stone Chips 13.2 mm to 5.6 mm	cum	518.80	150.00	668.80
M-130	M-041	Stone Crushed Aggregate 11.2 mm to 6.0 mm	cum	247.73	150.00	397.73
M-131		Stone for Coarse Rubble Masonry 1st Sort	cum			
M-132		Stone for Coarse Rubble Masonry 2nd Sort	cum			
M-133	M-140	Stone for Random Rubble Masonry	cum	190.55	150.00	340.55
M-134		Stone for Stone Set Pavement (300 mm x 200 mm x 150 mm)	No			
M-135	M-042	Stone Screening Type A 11.2 mm for Grading 1	cum	373.37	150.00	523.37
M-136	M-042	Stone Screening Type A 11.2 mm for Grading 2	cum	373.37	150.00	523.37
M-137	M-041	Stone Screening Type B 11.2 mm for Grading 2	cum	247.73	150.00	397.73
M-138	M-041	Stone Screening Type B 11.2 mm for Grading 3	cum	247.73	150.00	397.73
M-139	M-001	Stone spall	cum	205.68	150.00	355.68
M-140		Traffic cones	No			
M-141	M-109	Water	kl	40.00		40.00
M-142	M-020	Well graded Granular Base Material - Grading A 2.36 mm below	cum	86.71	150.00	236.71
M-143	M-026	Well graded Granular Base Material - Grading A 26.5 mm to 4.75 mm	cum	403.36	150.00	553.36
M-144	M-029	Well graded Granular Base Material - Grading A 53 mm to 26.5 mm	cum	361.44	150.00	511.44
M-145	M-020	Well graded Granular Base Material - Grading B 2.36 mm below	cum	86.71	150.00	236.71
M-146	M-026	Well graded Granular Base Material - Grading B 26.5 mm to 4.75 mm	cum	403.36	150.00	553.36
M-147	M-020	Well graded Granular Base Material - Grading C 2.36 mm below	cum	86.71	150.00	236.71
M-148	M-016	Well graded Granular Base Material - Grading C 9.5 mm to 4.75 mm	cum	432.80	150.00	582.80
M-149	M-020	Well Graded Material for Sub Base - Grading 1 2.36 mm below	cum	86.71	150.00	236.71
M-150	M-013	Well Graded Material for Sub Base - Grading 1 53 mm to 9.5 mm	cum	470.62	150.00	620.62

FORM F-3

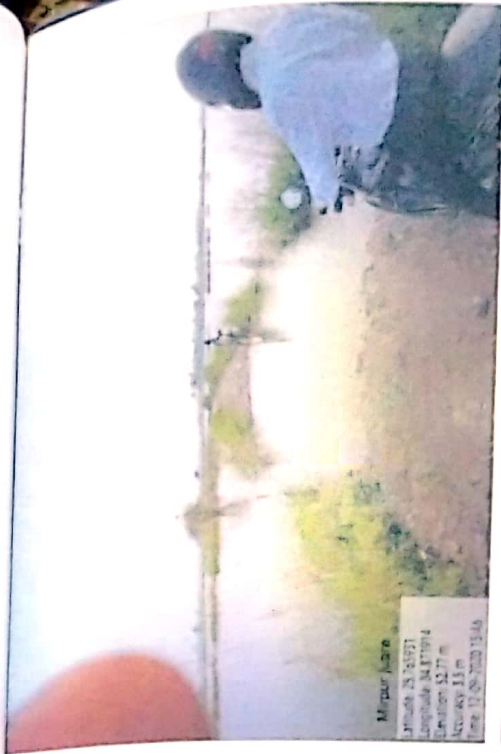
FORM 23

M. No.	SIR Code	Description	Unit	Basic Rate	Add Royalty	Final Rate
M-151	M-011	Well Graded Material for Sub-Base Grading 11.2 mm to 0.30 mm	cum	304.58	150.00	514.58
M-152	M-020	Well Graded Material for Sub-Base Grading 9.25 mm below	cum	86.71	150.00	236.71
M-153	M-027	Well Graded Material for Sub-Base Grading 9.25 mm to 4.75 mm	cum	507.85	150.00	657.85
M-154	M-017	Well Graded Material for Sub-Base Grading 9.5 mm to 2.36 mm	cum	304.58	150.00	514.58
M-155	M-029	Well Graded Material for Sub-Base Grading 8.25 mm below	cum	86.71	150.00	236.71
M-156	M-018	Well Graded Material for Sub-Base Grading 8.25 mm to 2.36 mm	cum	103.25	150.00	253.25
M-157	M-019	Well Graded Material for Sub-Base Grading 8.5 mm to 4.75 mm	cum	632.80	150.00	782.80
M-158		Welders equipment (250 amp x 250 mm x 125 mm) (Item charged)	No.	5.00		5.00
RCD						
M-159	M-101	Hot applied thermoplastic (asphalt) (kg. Growth 2.00)	liter	188.53		188.53
M-160	M-102	Reflecting glass beads	kg	64.79		64.79
M-146	M-146	Stone crushed aggregate 11.2 mm to 0.30 mm	kg	115.10		115.10
M-146	M-146	Slow setting bitumen emulsion	each	22.99		22.99
M-146	M-146	Sealing 2 m high 25 mm dia	kg	78.17		78.17
M-146	M-060	Delimeter (iron) (50 certified time as per the standard drawing given in IRC 79)	each	776.17		776.17

BASIC RATES
(C) USAGE RATES OF PLANT & MACHINERY

M. No.	SIR Code	Description of Machine	Activity	Output of Machine	Usage Rate in Rs.
PM-001	PM-001	Air Compressor 250 cfm	Compressing	1700 cfm per hour	475.75
PM-002	PM-002	Generator 50 kW	Generating	50 kW per hour	23,750.00
PM-003	PM-003	Batch mix Plant 30 cum capacity	Batching	30 cum per hour	2,400.00
PM-004	PM-004	Bitumen heater 100 cum	Heating	100 cum per hour	2,400.00
PM-005	PM-005	Bitumen sprayer 100 cum	Spraying	100 cum per hour	2,400.00
PM-006	PM-006	Concrete mixer 0.25 m³	Mixing	0.25 m³ per hour	90.00
PM-007	PM-007	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-008	PM-008	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-009	PM-009	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-010	PM-010	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-011	PM-011	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-012	PM-012	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-013	PM-013	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-014	PM-014	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-015	PM-015	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-016	PM-016	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-017	PM-017	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-018	PM-018	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-019	PM-019	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-020	PM-020	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-021	PM-021	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-022	PM-022	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-023	PM-023	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-024	PM-024	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-025	PM-025	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-026	PM-026	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-027	PM-027	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-028	PM-028	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-029	PM-029	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-030	PM-030	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-031	PM-031	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-032	PM-032	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-033	PM-033	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-034	PM-034	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-035	PM-035	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-036	PM-036	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-037	PM-037	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-038	PM-038	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-039	PM-039	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-040	PM-040	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-041	PM-041	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-042	PM-042	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-043	PM-043	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-044	PM-044	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-045	PM-045	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-046	PM-046	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-047	PM-047	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-048	PM-048	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-049	PM-049	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-050	PM-050	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-051	PM-051	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-052	PM-052	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-053	PM-053	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-054	PM-054	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-055	PM-055	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-056	PM-056	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-057	PM-057	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-058	PM-058	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-059	PM-059	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00
PM-060	PM-060	Gravel spreader 100 cum	Spreading	100 cum per hour	2,400.00

Sl No	SOR Code	Description of Machine	Activity	Output of Machine		Average Rates in Rs	
				Unit	Output	Unit	Rate
PM-026	P&M-044	Three wheel 80-100 kN Steep Roller	Compaction / Rolling				
			Earth				8071.00
			Full compaction for sub-grade	cum/h	90/75		8071.00
			Sub-base G-1	cum/h	15.00		8071.00
			Sub-base G-1/G-10	cum/h	8.00		8071.00
			WMM	cum/h	15.00		8071.00
			BS/SC	cum/h	18.00	per hour	8071.00
			BM 50/75 mm	cum/h	12.00		8071.00
			Premix 20 mm	sqm/h	250.00		8071.00
			Seal Coat	sqm/h	500.00		8071.00
			Surface Dressing 1st Coat	sqm/h	400.00		8071.00
			Surface Dressing 2nd Coat	sqm/h	500.00		8071.00
PM-027	P&M-048	Tipper 5.5 cum/10 t	Carriage	cum/trip	5.50	per hour	1,843.00
PM-028	P&M-051	Tractor with Disc Harrows	Pulverization 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	5 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	2,069.00
			Compaction of BM	cum/h	60.00		2,069.00
PM-034	P&M-060	Water tanker 6 kl capacity (Truck Mounted)	Carriage of water	litre / h	12000.00	per hour	184.00
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	141.80
P&M-037	P&M-022	Hot Mix Plant - 100 TPH	DEM/BM/SDBC/Premix	Cum/h	30.00	per hour	39,088.00
P&M-038	P&M-034	Sensor Paver Finisher	Paving of DEM/BM/SDBC/Premix	Cum/h	40.00	per hour	1,505.00
P&M-039	P&M-081	250 KVA Generator Set	Generation of Electric Energy	KVA	200.00	per hour	3,691.00
P&M-040	P&M-047	Tipper 5 Cum	Transportation of Soil, GSB, WMM, Hotmix etc	Capacity in Cum	5.50	Tonne.Km	8.86
P&M-040	P&M-045	Tandem Road Roller	Rolling of Asphalt Surface	Cum/h	70.00	per hour	1,722.00



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