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	:-	**Mohiudinagar**
NAME OF ROAD	:-	**Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More**
TOTAL COST OF CONSTRUCTION	:-	**Rs. 6.893 Lacs** 6.680 lac.
TOTAL COST OF PROJECT	:-	**Rs. 6.893 Lacs**

Gross Cheque Amount — 6,89,363=00

SUBMITTED BY:
EXECUTIVE ENGINEER
RWD (w) DIVISION, PATORI
SAMASTIPUR

FDR

YEAR (2020 - 2021)

GENERAL ABSTRACT OF COST

Block:--Mohiudinagar

District:--Samastipur

Name of Road:-- Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More

SL. No.	Item of Work	Amount
A		
	TOTAL COST OF CONSTRUCTION	~~6.893 Lacs~~
	Sub Total= (A)	~~6.893 Lacs~~
	TOTAL cost of project	~~**6.893 Lacs**~~ 6.680 lacs

Pramod 15.10.20

Junior Engineer
RWD (w)Section ,
Mohiudinagar

Shyam 15/10/20

Asstt. Engineer
RWD (w)Sub Division , Mohiudinagar

15.10.20

Executive Engineer
RWD (w) Division, Patori

SUMMARY OF COST ESTIMATE FOR THE PROJECT

NAME OF ROAD : Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More

DISTRICT Samastipur

BLOCK Mohiudinagar

Sl. No.	DESCRIPTION	AMOUNT (LAKHS)
		3.742
1	BRICK BAT	1.300 ~~1.384~~
2	GSB GRADE II	0.926 ~~6.051~~
	WBM III — **SUB TOTAL OF PAVEMENT COST IN LACS =**	
	Sub Total ` :--	5.968 ~~6.051~~
	12% GST on Total Amount :--	0.716 ~~0.726~~
	1% Lab Cess :--	0.060 ~~0.061~~
	Seigniorage Fee @ 10%	0.056 **0.056**
	Total Constriction Cost (including GSt and Labour Cess) (A) :--	6.680 L ~~6.893~~
	TOTAL COST OF PROJECT IN LACS(including GST 12% & 1% Lab Cess)(A+B+C) :--	~~6.893~~ 6.680 L

[illegible]
15.10.20
Junior Engineer
RWD (w)Section , Mohiudinagar

Shyam
15/10/20
Assistant Engineer
RWD (w)Sub Division , Mohiudinagar

[illegible]
[illegible]
Executive Engineer
RWD (w)
Division, Patori

Technically Approved for Rs 6.680 lac Say Six Lakh [illegible] Sixty Eight thousand only.

[illegible]
02.02.2021

कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, [illegible]

OA
2/2/2021

Cost Estimate for Road Work

Sl. No.	SDB SL .NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
			SUB HEAD : Embankment								
1			**Brick Bats**								
			Laying Brick Bats on Prepared Soil Surface as per specifications and direction of E/L								
			Damaged Side Strech	cum	1.00	61.0	1.100	0.450	30.20		
			Damaged Side Strech	cum	1.00	90.0	1.450	0.650	84.83		
			Damaged Side Strech	cum	1.00	26.0	1.200	0.300	9.36		
			Damaged Side Strech	cum	1.00	50.0	0.900	0.600	27.00		
			Damaged Side Strech	cum	1.00	35.0	1.300	0.750	34.13		
			Damaged Side Strech	cum	1.00	73.0	0.850	0.600	37.23		
									222.74	1,680.02	3,74,199.25
									B) SUB TOTAL OF CRUST =		**3,74,199.25**
			Sub Head : PAVEMENT LAYERS - GSB & WBM ITEMS								
2	4.1 (A)	401	**Granular Sub-base with Well Graded Material (Table 400.1)**								
			(By mix in place method)								
		(ii)	**For Grading II Material**								
			Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.								
			Damaged Portion	Cum	1.00	61.0	1.100	0.175	11.74		
			Damaged Portion	Cum	1.00	90.0	1.450	0.175	22.84		
			Damaged Portion	Cum	1.00	26.0	1.200	0.175	5.46		
			Damaged Portion	Cum	1.00	50.0	0.900	0.175	7.88		
			Damaged Portion	Cum	1.00	35.0	1.300	0.175	7.96		
			Damaged Portion	Cum	1.00	73.0	0.850	0.175	10.86		
			Net GSB Qty. Required form Grading II Material						66.74	~~2,073.03~~ 1948=76	~~1,38,354.00~~ 1,30,060=00
3	4.7 (3-A)	405	**WBM Grading 3 (By Mechanical Means)**								
			Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.								
			Damaged Portion	Cum	1.00	61.0	1.100	0.075	5.03		
			Damaged Portion	Cum	1.00	90.0	1.450	0.075	9.79		
			Damaged Portion	Cum	1.00	26.0	1.200	0.075	2.34		
			Damaged Portion	Cum	1.00	50.0	0.900	0.075	3.38		
			Damaged Portion	Cum	1.00	35.0	1.300	0.075	3.41		
			Damaged Portion	Cum	1.00	73.0	0.850	0.075	4.65		
			Net WBM -3 Qty						28.60	3,237.40	92,589.64
									C) SUB TOTAL OF CRUST =		~~**2,30,943.64**~~ 2,22,650=00

FORMAT F6

Cost Estimate for Road Work

Sl. No.	SDB SL .NO	MORD Ref.No	Description	Unit	NOS	LENGTH	WIDTH	HEIGHT	QUANTITY	RATE	AMOUNT (in Rs.)
				TOTAL COST OF PAVEMENT IN RS. =							~~6,05,142.89~~

5,96,849=00

Pramod
15.10.20
Junior Engineer
RWD (w)Section , Mohiudinagar

Shyam
15/10/20
Assistant Engineer
RWD (w)Sub Division , Mohiudinagar

15.10.20
Executive Engineer
RWD (w) Division, Patori

Sl. No.	SDB Sl .NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seignoirage Fee 10%
			PAVEMENT LAYERS - GSB ,WBM-II & WBM-III							
1	4.1	401	**Granular Sub-base with Well Graded Material (Table 400.1)**							
			(By mix in place method)							
		(i)	**For Grading II Material**							
			Construction of granular sub-base by providing well graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.							
			For Grading II Material (Local Sand)							
			Unit = cum							
			Taking output = 300 cum							
		a)	**Material**							
			Well graded granular sub-base material as per Table 400.1							
			26.5 mm to 9.5 mm @ 35%	cum	134	657.85	88,151.900			
			9.5 mm to 2.36 mm @ 25%	cum	96	514.58	49,399.680			
			2.36 mm below @ 40% (Local sand)	cum	153	141.85	21,703.050			
			Cost for 300 cum = a				**1,59,254.63**			
			Rate Per Cum = (a)/300=	**Cum**			**530.85**			
			Total Cost =	**Cum**			**530.85**	**66.74**	**35,428.85**	**3,542.88**

Sl. No.	SDB Sl .NO	MORD Ref.No	Description	Unit	Quantity	Rate	Amount (In Rs.)	Total Material Required	Material Amount	Add Seignoirage Fee 10%
2	4.7	405	**Water Bound Macadam with Stone Screening Type "B" Gr- III**							
			WBM Grading 3 (Mechanical means)							
	(3-A)		Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.							
			For WBM III Material							
			Unit = cum							
			Taking output = 360 cum							
		a)	**Material**							
			Aggregate Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for compacted thickness of 75 mm	Cum	435.60	511.44	2,22,783.26			
			Stone Screening Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	Cum	86.40	397.73	34,363.872			
			Cost for 360 cum = a				**2,57,147.14**			
			Rate Per Cum = (a)/360=	**Cum**			**714.30**			
			Total Cost =	**Cum**			714.30	28.60	20,428.91	2,042.89
			Total Construction Cost (With 10% Seigniorage Fee) :--							**5,585.78**

15-10-21

FORM F8

Analysis for Carriage by Road & Rail

Name of Road:-- Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More

District:- Samastipur **Block :-** Mohiudinagar

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km: Pucka / Surface	Carriage Cost & Lead in Km: Katcha	Loading & Unloading Cost	Carriage Cost by Rail Head	Total `
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00/4.59 x 7.60 x 50.00 Km = Rs 662.31	8.00/4.59 x 18.50 x 0.00 Km = Rs 0.00	83.64	952.23	Rs. 1698.18
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00/4.99 x 7.60 x 50.00 Km = Rs 609.22	8.00/4.99 x 18.50 x 0.00 Km = Rs 0.00	83.64	896.90	Rs. 1589.77
3	Stone Aggregate / Chips	Cum	Sheikhpura	8.00/4.99 x 7.60 x 50.00 Km = Rs 609.22	8.00/4.99 x 18.50 x 0.00 Km = Rs 0.00	83.64	896.90	Rs. 1589.77
4	Stone Aggregate / Chips	Cum	Mirzachowki	8.00/4.99 x 7.60 x 50.00 Km = Rs 609.22	8.00/4.99 x 16.54 x 0.00 Km = Rs 0.00	83.64	1282.63	Rs. 1975.50
5	Stone Boulder	Cum	Sheikhpura	8.00/4.80 x 7.60 x 50.00 Km = Rs 633.33	8.00/4.80 x 18.50 x 0.00 Km = Rs 0.00	83.64	922.04	Rs. 1639.01
6	Course Sand	Cum	Kuil	8.00/4.99 x 6.83 x 115.00 Km = Rs 1259.24	8.00/4.99 x 16.54 x 0.00 Km = Rs 0.00	96.53		Rs. 1355.77
7	Local Sand	Cum	Local	8.00/4.99 x 6.83 x 2.00 Km = Rs 21.90	8.00/4.99 x 16.54 x 1.00 Km = Rs 26.52	96.53		Rs. 144.95
8	Brick	1000 Nos	Local	8.00/2.00 x 6.83 x 7.00 Km = Rs 191.24	8.00/2.00 x 16.54 x 1.00 Km = Rs 66.16	406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	` Per Ton. Km by Tipper	` Per Ton. Km by Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

Pramod 15/10/20 JE

Shyam 15/10/20 A.E

15.10.20

FORM F8

Analysis for Carriage by Road

Name of Road:-- Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More

District:- Samastipur **Block :-** Mohiudinagar

Sl No	Item with Source	Unit	Source Up to	Carriage Cost & Lead in Km		Loading & Unloading Cost	Carriage Cost by Rail Head	Total `
				Pucka / Surface	Katcha			
1	Stone Metal Gr-I & Gr-II	Cum	Sheikhpura	8.00 / 4.59 x 7.60 x 163.00 Km = Rs 2159.13	8.00 / 4.59 x 18.50 x 0.00 Km = Rs 0.00	83.64		Rs. 2242.77
2	Stone Metal Gr-III / GSB	Cum	Sheikhpura	8.00 / 4.99 x 7.60 x 163.00 Km = Rs 1986.05	8.00 / 4.99 x 18.50 x 0.00 Km = Rs 0.00	83.64		Rs. 2069.69
3	Stone Aggregate / Chips	Cum	Sheikhpura	8.00 / 4.99 x 7.60 x 163.00 Km = Rs 1986.05	8.00 / 4.99 x 18.50 x 0.00 Km = Rs 0.00	83.64		Rs. 2069.69
4	Stone Aggregate / Chips	Cum	Mirzachowki	8.00 / 4.99 x 7.60 x 208.00 Km = Rs 2534.35	8.00 / 4.99 x 18.50 x 0.00 Km = Rs 0.00	83.64		Rs. 2617.99
5	Stone Boulder	Cum	Sheikhpura	8.00 / 4.80 x 7.60 x 163.00 Km = Rs 2064.67	8.00 / 4.80 x 18.50 x 0.00 Km = Rs 0.00	83.64		Rs. 2148.31
6	Course Sand	Cum	Kuil	8.00 / 4.99 x 6.83 x 115.00 Km = Rs 1259.24	8.00 / 4.99 x 16.54 x 0.00 Km = Rs 0.00	96.53		Rs. 1355.77
7	Local Sand	Cum	Local	8.00 / 4.99 x 6.83 x 2.00 Km = Rs 21.90	8.00 / 4.99 x 16.54 x 1.00 Km = Rs 26.52	96.53		Rs. 144.95
8	Brick	1000 Nos	Local	8.00 / 2.00 x 6.83 x 7.00 Km = Rs 191.24	8.00 / 2.00 x 16.54 x 1.00 Km = Rs 66.16	406.10		Rs. 663.50

* Subjected to Verification of Lead

Cost of Haulage Excluding Loading & Unloading as per SOR

Type of Road	` Per Ton. Km by Tipper	` Per Ton. Km by Truck
For Surface Road	7.60	6.83
Unsurface Gravel Road	9.20	8.22
Kachha Road	18.50	16.54

15.10.20
JE

Shyam
15/10/20
A.E

15.10.20

FDR

YEAR (2020 - 2021)

Analysis for Carriage by Road & Rail

Name of Road:-- Detailed Estimate For Repair of Flood Damaged in Bharat Cinema Tetarpur To Rahepur More

Block :- Mohiudinagar

District:- Samastipur **0.190 KM.**

Sl No	Item	Unit	Carriage Cost By Road (Per cum)	Carriage Cost By Road & Rail (Per cum)	Minimum Carriage Cost (Addopted in DPR)
1	Stone Metal Gr-I & Gr-II	Cum	2242.77	1698.18	1698.18
2	Stone Metal Gr-III / GSB	Cum	2069.69	1589.77	1589.77
3	Stone Aggregate / Chips (seikhpura)	Cum	2069.69	1589.77	1589.77
4	Stone Aggregate / Chips	Cum	2617.99	1975.50	1975.50
5	Stone Boulder	Cum	2148.31	1639.01	1639.01
6	Course Sand	Cum	1355.77	1355.77	1355.77
7	Local Sand	Cum	144.95	144.95	144.95
8	Brick	1000 Nos	663.50	663.50	663.50
9	Cement	MT	617.16	617.16	617.16
10	Steel	MT	617.16	617.16	617.16
11	Bitumen Emulsion (Ulberia)	MT	978.35	978.35	978.35
12	Bitumine (Barauni)	MT	848.58	848.58	848.58
13	Hume Pipe (1000 mm)	Pipe	353.75	353.75	353.75

15.10.20

Junior Engineer
RWD (w) Division, Patori

15/10/20

Asstt. Engineer
RWD (w) Division, Patori

Executive Engineer
RWD (w) Division, Patori

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Metal Gr-I & Gr-II

Quarry Site to Sheikhpura Railway Yard (By Road)

Pucka / Surface (Carriage Cost & Lead in Km)							Katcha				Loading & Unloading		Total
$\frac{8.00}{4.59}$	x 7.60	x 2.00 Km	= Rs 26.49	+	$\frac{8.00}{4.59}$	x	18.50	x 0.00 Km	= Rs 0.00		+ Rs 83.64	=	Rs 110.13
UnSurface					$\frac{8.00}{4.59}$	x	9.20	x 1.00 Km				=	Rs 16.03
											Total "A"	=	**Rs 126.16**

Sheikhpura **Railway Yard to** Karpoorigram **Railway Yard** = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wegon	= For 1 cum			= Rs 118.86	=	Rs 118.86
Total	=	**For 1 cum**		**"B"**	=	**Rs 118.86**
iii) Railway freight charge from Sheikhpura Railway	= For 1 MT	122.00 Km	=	Rs 231.30	=	Rs 231.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76
Railway Development Charge to 5% of Railway freight Charge		For 1 MT	=	5%	=	Rs 11.57
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2 x	Rs 40.00	=	Rs 80.00
Total	=	**For 1 MT**			=	**Rs 350.63**
		For 1 cum		**"C"**	=	**Rs 611.11**
		Add 6% Overhead Charge	=	6.0%	=	**Rs 36.67**
		Add 10% Contractor Profit	=	10%	=	**Rs 0.00**
		Total Railway Freight for 1 cum		**"C"**		**Rs 647.78**
Cost for Stacking the Materials from Unloding dump upto lead 30 m. **Total "D"**	=	For 1 cum	=	Rs 59.43	=	Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	**For 1 Cum**		**A+B+C+D**	=	**Rs 952.23**

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Metal Gr-III & GSB

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km – Pucka / Surface						Katcha				Loading & Unloading		Total
8.00 / 4.99	x 7.60	x 2.00 Km	= Rs 24.37	+	8.00 / 4.99	x	18.50	x 0.00 Km	= Rs 0.00	+ Rs 83.64	=	Rs 108.01
UnSurface					8.00 / 4.99	x	9.20	x 1.00 Km			=	Rs 14.75
										Total "A"	=	Rs 122.76

Sheikhpura **Railway Yard to** Karpoorigram **Railway Yard** = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wegon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86
Total	=	**For 1 cum**		**"B"**	=	**Rs 118.86**
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT 122.00 Km	=	Rs 231.30	=	Rs 231.30
Busy Seasion charge 12% of railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76
Railway Development Charge to 5% of Railway Fright Charge		For 1 MT	=	5%	=	Rs 11.57
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2 x	Rs 40.00	=	Rs 80.00
Total	=	**For 1 MT**			=	**Rs 350.63**
		For 1 CUM		**"C"**	=	**Rs 562.13**
		Add 6% Overhead Charge	=	6.0%	=	**Rs 33.73**
		Add 10% Contractor Profit	=	10%	=	**Rs 0.00**
		Total Railway Freight for 1 cum		**"C"**		**Rs 595.85**
Cost for Stacking the Materials from Unloding dump upto lead 30 m. **Total "D"**	=	**For 1 cum**	=	**Rs 59.43**	=	**Rs 59.43**
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	**For 1 Cum**		**A+B+C+D**	=	**Rs 896.90**

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Aggregate / Chips

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km														
Pucka / Surface							**Katcha**				**Loading & Unloading**		**Total**
8.00 / 4.99	x	7.60	x	2.00 Km	=	Rs 24.37	+ 8.00 / 4.99	x	18.50	x 0.00 Km	= Rs 0.00	+ Rs 83.64	=	Rs 108.01
UnSurface							8.00 / 4.99	x	9.20	x 1.00 Km			=	Rs 14.75
												Total "A"	=	Rs 122.76

Sheikhpura **Railway Yard to** Karpoorigram **Railway Yard** = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wegon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86
Total	=	**For 1 Cum**		**"B"**	=	**Rs 118.86**
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT 122.00 Km	=	Rs 231.30	=	Rs 231.30
Busy Seasion charge 12% of Railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76
Railway Development Charge to 5% of Railway Fright Charge		For 1 MT	=	5%	=	Rs 11.57
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT 2	x	Rs 40.00	=	Rs 80.00
Total	=	**For 1 MT**			=	**Rs 350.63**
		For 1 CUM		**"C"**	=	**Rs 562.13**
		Add 6% Overhead Charge		6%		**Rs 33.73**
		Add 10% Contractor Profit	=	10%	=	**Rs 0.00**
		Total Railway Freight for 1 cum		**"C"**	=	**Rs 595.85**
Cost for Stacking the Materials from Unloding dump upto lead 30 m.						
Total "D"	=	For 1 CUM	=	Rs 59.43	=	Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	**For 1 Cum**		**A+B+C+D**	=	**Rs 896.90**

Analysis for Carrige Through Railway from Quarry Site to Work Site

Mirzachowki to Karpoorigram

Material -Stone Aggregate / Chips

Quarry Site to Mirzachowki Railway Yard (By Road)

Carriage Cost & Lead in Km																Loading & Unloading		Total
Pucka / Surface									Katcha									
~~8.00~~ 4.99	x	7.60	x	2.00 Km	=	Rs 24.37	+	~~8.00~~ 4.99	x	18.50	x	0.00 Km	=	Rs 0.00	+	Rs 83.64	=	Rs 108.01
UnSurface								~~8.00~~ 4.99	x	9.20	x	1.00 Km					=	Rs 14.75
																Total "A"	=	Rs 122.76

Mirzachowki **Railway Yard to** Karpoorigram **Railway Yard** = 230.00 Km

i) Loading Cost from Railway Yard to Railway Wegon	=	For 1 cum		=	Rs 118.86	=	Rs 118.86
Total	**=**	**For 1 Cum**			**"B"**	**=**	**Rs 118.86**
iii) Railway freight charge from Mirzachowki Railway station to Karpoorigram Railway station	=	For 1 MT	230.00 Km	=	Rs 425.30	=	Rs 425.30
Busy Seasion charge 12% of Railway freight charge	=	For 1 MT		=	12%	=	Rs 51.04
Railway Development Charge to 5% of Railway Fright Charge		For 1 MT		=	5%	=	Rs 21.27
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2	x	Rs 40.00	=	Rs 80.00
Total	**=**	**For 1 MT**				**=**	**Rs 577.61**
		For 1 CUM			**"C"**	**=**	**Rs 926.02**
		Add 6% Overhead Charge		=	6.0%	=	**Rs 55.56**
		Add 10% Contractor Profit		=	10%	=	**Rs 0.00**
		Total Railway Freight for 1 cum			**"C"**	**=**	**Rs 981.58**
Cost for Stacking the Materials from Unloding dump upto lead 30 m.							
Total "D"	=	For 1 CUM		=	Rs 59.43	=	Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	**=**	**For 1 Cum**			**A+B+C+D**	**=**	**Rs 1282.63**

Analysis for Carrige Through Railway from Quarry Site to Work Site

Sheikhpura to Karpoorigram

Material -Stone Boulder

Quarry Site to Sheikhpura Railway Yard (By Road)

Carriage Cost & Lead in Km														Loading & Unloading		Total
Pucka / Surface								Katcha								
~~8.00~~ 4.80	x	7.60	x	2.00 Km	=	Rs 25.33	+	~~8.00~~ 4.80	x	18.50	x	0.00 Km	= Rs 0.00	+ Rs 83.64	=	Rs 108.98
UnSurface								~~8.00~~ 4.80	x	9.20	x	1.00 Km			=	Rs 15.33
														Total "A"	=	**Rs 124.31**

Sheikhpura **Railway Yard to** Karpoorigram **Railway Yard** = 122.00 Km

i) Loading Cost from Railway Yard to Railway Wegon	=	For 1 cum	=	Rs 118.86	=	Rs 118.86
Total	=	**For 1 CUM**		**"B"**	=	**Rs 118.86**
iii) Railway freight charge from Sheikhpura Railway station to Karpoorigram Railway station	=	For 1 MT 122.00 Km	=	Rs 231.30	=	Rs 231.30
Busy Season charge 12% of Railway freight charge	=	For 1 MT	=	12%	=	Rs 27.76
Railway Development Charge to 5% of Railway Fright Charge		For 1 MT	=	5%	=	Rs 11.57
Terminal charge @Rs.40.00 per Terminal per MT		For 1 MT	2 x	Rs 40.00	=	Rs 80.00
Total	=	**For 1 MT**			=	**Rs 350.63**
		For 1 CUM		**"C"**	=	**Rs 584.38**
		Add 6% Overhead Charge	=	6.0%	=	**Rs 35.06**
		Add 10% Contractor Profit	=	10.0%	=	**Rs 0.00**
		Total Railway Freight for 1 cum		**"C"**	=	**Rs 619.44**
Cost for Stacking the Materials from Unloding dump upto lead 30 m. **Total "D"**	=	For 1 CUM	=	Rs 59.43	=	Rs 59.43
Carriage Cost from Quarry to Karpoorigram Railway Yard	=	**For 1 Cum**		**=A+B+C+D**	=	**Rs 922.04**

Analysis of Rates (FORMAT F8)

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			Haulage BY TIPPER				
1	1.10	(i)	**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	1043.00	417.20
			Empty return trip	hour	0.29	1043.00	302.47
		b)	Overheads @ 6 % on (a)				43.18
			Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b				762.85
			Rate per cum = (a+b) /100				7.63
			Rate Per Km.	Cum			**7.60**
2	1.10	(ii)	**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-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	1043.00	521.50
			Empty return trip	hour	0.33	1043.00	344.19
		b)	Overheads @ 6 % on (a)				51.94
			Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b				917.63
			Rate per cum = (a+b) /100				**9.18**
			Rate Per Km.	Cum			**9.20**
3	1.10	(iii)	**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-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**				
			Tipper 10 t capacity				
			Haulage with load	hour	1.00	1043.00	1043.00
			Empty return trip	hour	0.67	1043.00	698.81
		b)	Overheads @ 6 % on (a)				104.51
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				1846.32
			Rate per cum = (a+b+c) /100				**18.46**
			Rate Per Km.	Cum			**18.50**

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			Haulage BY TRUCK				
4	1.10	(i)	**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**				
			Truck 10 t capacity				
			Haulage with load	hour	0.40	934.30	373.72
			Empty return trip	hour	0.29	934.30	270.95
		b)	Overheads @ 6 % on (a)				38.68
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				683.35
			Rate per cum = (a+b+c) /100				**6.83**
			Rate Per Km.	Cum			6.83
5	1.10	(ii)	**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-II: Unsurfaced Gravel Road.				
			Speed with load: 20 km/hour				
			Speed for empty return trip: 30 km/hour				
		a)	**Machinery**				
			Truck 10 t capacity				
			Haulage with load	hour	0.50	934.30	467.15
			Empty return trip	hour	0.33	934.30	308.32
		b)	Overheads @ 6 % on (a)				46.53
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				822.00
			Rate per cum = (a+b+c) /100				**8.22**
			Rate Per Km.	Cum			8.22
6	1.10	(iii)	**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-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**				
			Truck 10 t capacity				
			Haulage with load	hour	1.00	934.30	934.30
			Empty return trip	hour	0.67	934.30	625.98
		b)	Overheads @ 6 % on (a)				93.62
		(c)	Contractor's profit @ 10% on (a+b)				0.00
			Cost for 100 t-km = a+b+c				1653.90
			Rate per cum = (a+b+c) /100				**16.54**
			Rate Per Km.	Cum			16.54

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
7	1.1	RCD	Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kanker/Moorum.				
			Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and				
			Unit = cum				
			Taking output = 5.5 cum				
			Time required for				
			i) Positioning of tipper at loading point		1 Min		
			ii) Loading by front end loader 1 cum bucket capacity @ 25 cum per hour		13 Min		
			iii) Maneuvering, reversing, dumping and turning for return		2 Min		
			iv) Waiting time, unforeseen contingencies etc		4 Min		
			Total		**20 Min**		
			a) Machinery				
			Tipper 5.5 tonnes capacity	hour	0.330	1043.00	344.19
			Front end-loader 1 cum bucket capacity @ 25 cum/hour	hour	0.330	1403.00	462.99
			(b) Overheads @ 6 % on (a)				48.43
			(c) Contractor's profit @ 10% on (a+b)				0.00
			Cost for 5.5 cum = a+b+c				855.61
			Rate per cum = (a+b+c)/ 5.5				155.57
			Unloading will be by tipping.			*say*	***156.00***
8	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	1.000		
		ii	Loading by front end loader 1 cum bucket capacity @ 45 cum per hour	Min	7.330		
		iii	Waiting time, unforeseen contingencies, etc.	Min	2.000		
			Total	Min	10.330		
		a)	**Machinery**				
			Tipper 10 t capacity	hour	0.172	1043.00	179.40
			Front end-loader 1 cum bucket capacity @ 45 cum per hour	hour	0.122	1403.00	171.17
		b)	Overheads @ 6.0 %				21.03
		C	Contractors Profit @ 10.0 %				-
			Cost for 5.5 cum = a+b+C				371.60
			Rate per cum = (a+b)/5.5				67.56
			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 loading point	Min	1.000		
		ii	Manoeuvering, reversing, dumping and turning for return	Min	2.000		
		iii	Waiting time, unforeseen contingencies, etc.	Min	2.000		
			Total	Min	5.000		
		a)	**Machinery**				
			Tipper 10 t capacity	hour	0.080	1043.00	83.44
		b)	Overheads @ 6 % on (a)				5.01
		C	Contractors Profit @ 10.0 % on (b)				0.00
			Cost for 5.5 cum = a+b				88.45
			Rate per cum = (a+b)/5.5				16.08
			Total loading and unloading by mechanical means				***83.64***

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
8	1.2	RCD	**Loading and Unloading of Boulders by Manual Means**				
			Unit = cum				
			Taking output = 5.5 cum				
			a) Labour				
			Mate	day	0.110	305.00	33.55
			Mazdoor for loading and unloading	day	0.750	287.00	215.25
			b) Machinery				
			Tipper 5.5 tonne capacity	hour	0.750	1043.00	782.25
			c) Overheads @ 6 % on (a+b)				61.86
			(d) Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for5.5 cum = a+b+c+d				1092.91
			Rate per cum = (a+b+c+d)/5.5				198.71
			Unloading will be by tipping.			*say*	***199.00***
9	1.3	RCD	**Loading and Unloading of Cement or Steel by Manual Means**				
			Unit = tonne				
			Taking output = 10 tonnes				
			a) Labour				
			Mate	day	0.080	305.00	24.40
			Mazdoor for loading and unloading	day	2.000	287.00	574.00
			b) Machinery				
			Truck 10 tonne capacity	hour	2.000	934.30	1868.60
			c) Overheads 6 % on (a+b)				148.02
			(d) Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for10 tonnes = a+b+c+d				2615.02
			Rate per tonnes = (a+b+c+d)/10				261.50
						say	***262.00***
10	1.1	(i)	Loading of Lime, Aggregate, Stone Boulder, Brick Aggregate, Kankar, Building Rubbish, Crushed Slag, Stone for Masonry Work by manual means including a lead upto 30 m				
			Unit = cum				
			Taking output = 5.5 cum				
		a)	**Labour**				
			Mate	day	0.02	305.00	6.10
			Mazdoor (Unskilled)	day	0.50	287.00	143.50
		b)	**Machinery**				
			Truck	hour	0.50	934.30	467.15
		c)	Overheads 6 % on (a+b)				37.01
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				653.76
			Rate per cum = (a+b+c+d) /5.5				**118.86**
			Total Cost	**Cum**			**118.86**
11		(ii)	Loading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.				
			Unit = cum				
			Taking output = 5.5 cum				
		a)	**Labour**				
			Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	**Machinery**				
			Truck	hour	0.25	934.30	233.58
		c)	Overheads 6 % on (a+b)				18.50
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				326.88
			Rate per cum = (a+b+c+d) /5.5				**59.43**
			Total Cost	**Cum**			**59.43**

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
12		(iii)	Unloading 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				
			Unit = cum				
			Taking output = 5.5 cum				
		a)	**Labour**				
			Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	**Machinery**				
			Truck	hour	0.25	934.30	233.58
		c)	Overheads 6 % on (a+b)				18.50
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				326.88
			Rate per cum = (a+b+c+d) /5.5				**59.43**
			Total Cost	**Cum**			**59.43**
			Total Loding & Unloading of Stone Aggregate	*Cum*	*= 118.86 + 59.43 =*		***178.29***
13		(iv)	Unloading of Earth, Sand, Moorum, Manure, Flyash by manual means including a lead upto 30 m.				
			Unit = cum				
			Taking output = 5.5 cum				
		a)	**Labour**				
			Mate	day	0.01	305.00	1.53
			Mazdoor (Unskilled)	day	0.13	287.00	35.88
		b)	**Machinery**				
			Truck	hour	0.166	934.30	155.09
		c)	Overheads 6 % on (a+b)				11.55
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 5.5 cum = a+b+c+d				204.04
			Rate per cum = (a+b+c+d) /5.5				**37.10**
			Total Cost	**Cum**			**37.10**
			Total Loding & Unloading of Sand / Moorum	*Cum*	*= 59.43 + 37.1 =*		***96.53***
14	1.3		**Loading, Unloading and Stacking of Bricks by Manual Means**				
		(i)	Loading of Bricks by manual means including a lead upto 30 m				
			Unit = 1000 Nos.				
			Taking output = 2000 Nos.				
		a)	**Labour**				
			Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	**Machinery**				
			Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				**203.05**
			Total Cost	**no.**			**203.05**
15		(ii)	Unloading and Stacking of Bricks by manual means including a				
			Unit = 1000 Nos.				
			Taking output = 2000 Nos.				
		a)	**Labour**				
			Mate	day	0.01	305.00	3.05
			Mazdoor (Unskilled)	day	0.25	287.00	71.75
		b)	**Machinery**				
			Truck	hour	0.33	934.30	308.32
		c)	Overheads 6 % on (a+b)				22.99
		d)	Contractor's profit @ 10% on (a+b+c)				0.00
			Cost for 2000 Nos. = a+b+c+d				406.11
			Rate for 1000 bricks = (a+b+c+d)/2				**203.05**
			Total Cost	**no.**			**203.05**
			Total Loding & Unloading of Brick Per 1000		*= 203.05 + 203.05 =*		***406.10***

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
			PAVEMENT CRUST LAYERS				
15	4.1 (A)	401	**Granular Sub-base with Well Graded Material (Table 400.1)** **(By mix in place method)** Construction of granular sub-base by providing well graded material, spreading in uniform layers with tractor mounted grader arrangement on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with smooth wheel roller to achieve the desired density, complete as per Technical Specification Clause 401.				
		(ii)	**For Grading II Material**				
			Unit = cum				
			Taking output = 300 cum				
		a)	**Labour**				
			Mate	day	0.48	305.00	146.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	10.00	287.00	2870.00
		b)	**Machinery**			573=20	
			Motor Grader 110 HP @ ~~50 cum~~ per hour Tractor Mounted Grader	hour	6.00	~~2786.00~~	16716.00
			Three wheel 80-100 kN static roller @ 10 cum per hour	hour	30.00	803.00	24090.00
			Tractor with Rotavator 25 cum per hour	hour	12.00	573.20	6878.40
			Water tanker 6 kl capacity	hour	5.00	184.00	920.00
		c)	**Material**				
			Well graded granular sub-base material as per Table 400.1				
			26.5 mm to 9.5 mm @ 35%	cum	134.00	657.85	88151.90
			9.5 mm to 2.36 mm @ 25%	cum	96.00	514.58	49399.68
			2.36 mm below @ 40% (Local sand)	cum	153.00	141.85	21703.05
			Water	kl	30.00	40.00	1200.00
		d)	Overheads @ 6 % on (a+b+c)				21280.34
			Cost of GSB for 300 cum				**234083.77**
			A) Cost of GSB without carriage per cum	**cum**			~~**780.28**~~ 680=28
		f)	***CARRIAGE***				
			Carriage for GSB material	Cum	0.77	1589.77	1218.82
			Carriage for material below 2.36 mm (With Local Sand)	Cum	0.51	~~144.95~~ 97=00	49.46 ~~73.92~~
			Rate per cum with carriage				**2073.03**
			Total Cost	**CUM**			**2,073.03**

1948=76/m3

Sl. No.	SDB Sl. No.	MORD Ref No.	DESCRIPTION	Unit	Quantity	Rate	Amount in Rs
15	4.7 (3-A)	405	**Water Bound Macadam with Stone Screening Type "B" Gr- III WBM Grading 3**				
			Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with smooth wheel roller 80-100 kN in stages to proper grade and camber, applying and brooming, stone screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405.				
		(A)	**By Mechanical Means**				
			Unit = cum				
			Taking output = 360 cum				
		a)	**Labour**				
			Mate	day	0.68	305.00	207.40
			Mazdoor (Skilled)	day	2.00	364.00	728.00
			Mazdoor (Unskilled)	day	15.00	287.00	4305.00
		b)	**Machinery**				
			Tractor Mounted grader for grading @ 100 cum per hour	hour	14.40	549.10	7907.04
			Three wheel 80-100 kN static roller @ 8 cum per hour	hour	45.00	803.00	36135.00
			Water tanker 6 kl capacity	hour	24.00	184.00	4416.00
		c)	**Material (Refer Tables 400.7, 8, 9 and 10)**				
			Aggregate				
			Grading 3 53 mm to 22.4 mm @ 0.91 cum per 10 sqm for compacted thickness of 75 mm	cum	435.60	511.44	222783.26
			Stone Screening				
			Type B 11.2 mm for Grading 3 @ 0.18 cum per 10 sqm	cum	86.40	397.73	34363.87
			Water	kl	144	40.00	5760.00
		d)	Overheads @ 6 % on (a+b+c)				18996.33
			Cost for 360 cum = a+b+c+d+e				**335601.91**
			Rate per cum = (a+b+c+d+e)/360				932.23
		f)	***CARRIAGE***				
			Stone material Grading 3 53 mm to 22.4 mm	Cum	1.21	1589.77	1923.62
			Stone Screening	Cum	0.24	1589.77	**381.54**
			Rate per cum with carriage				**3237.40**
			Total Cost	**cum**			**3,237.40**

ANALYSIS OF RATES.

BRICK BAT filling.

1. ~~[illegible]~~ Providing brick bats including spreading, laying Hand packing with C.I Hammers in layers not exceeding 75MM thick including cost of eight barriers, danger signal, choukidar, taxes, Royalty, etc, all complete job, as per specification and directions of E/I including cost of bricks, - - . all complete job.

Unit — cum.
Assuming — 2.892 M3

Cost of Brick bats — 2.892 M^3 @ 1096=00 — Rs 3163=87
~~Mazdoor unskilled~~ Local sand 0.632 M^3 @ 141=95/M^3 Rs 89=65

Labour (unskilled)
1. Carrying, spreading, laying and packing unskilled labour 1.5 NO @ 287=00 — Rs 430=50
compaction of brick bats with C.I. Hammers, 0.670 NO @ 287=00 — Rs 192=29.
— Rs 228=98.
Total — 4045=29
Over Head charge @ 6% on (a+b+C)
Rate/M^3 — Rs 1428=42/M3.

Carriage cost
Carriage for bricks (1M^3 bat) for 300 NO @ 663=50/M^3 — Rs 199=06
Local sand 0.220 M3 @ 97=00 / M3 — Rs 21=34.
Cost of Local Sand with Royalty @ Rs 141=85 / M3
Total Rs 1648=81.
31=21
Total 16 80=02

2. Granular sub-base, with well Graded Material, Table 400.1 By Mix and place Method, for Grading II Material all complete job.
@ — 300.0M3
Labour — Mate — 0.48 NO @ 305.00 — Rs 146=40
Mazdoor skilled — 2.0 NO @ 364.00 — Rs 728=00
Mazdoor unskilled — 10.0 NO @ 287=00 — Rs 2870=00

Machinery
Tractor Mounted Grader 6.0 Hour @ 573=20 Rs 3439=20
Three wheel 80-100 KN static roller 30.0 Hour — @ 803=00/Hour — Rs 24090=00
10M3/Hour
Tractor with rotavator 12.0 Hour @ 573=20 — Rs 6878=40
25M3/Hour
Water Tanker 6 Kg capacity 5.0 H @ 184=00 — Rs 920=00
Total 39072=00

Material
Course Graded Granular sub base
53MM to 9.5MM, 35% — 134.40M^3 @ 604=91/M^3 — Rs 80695=00
9.5MM to 2.36MM 25% 96.00M^3 @ 514=58/M^3 — Rs 49400=00
2.36MM Below Local sand 153.60M^3 @ 141=85/M^3 Rs 21788=00
water 30 KL @ 40=00/KL — Rs 1200=00
Total — 1,92,155=00
Add over Head charge 6% 11,529=00
Total — 2,04,084=00

Construction of Road Embankment.
Material obtain from Borrow pits. all comp as
..... all comp as per
clause, 300.1, 300.2, with lead up B
to 1000.0m. – out put – 100.0M

Mate — 0.04 NO @ 305=00 — Rs 12=20
Unskilled — 1.0 NO @ 287=00 — Rs 287=00

Machinery

Hydraulic excavator 0.9 M3
bucket @ 60 M3/Hrs — 1.67 H @ 1969=20 — Rs 3288=56
Tipper 5.5 cum with 10 t
capacity — 4.50 H @ 1043=00 Rs 4693=50
10% for carriage by Tipper — Rs 469=35

Dozer D-50 for spread @ 100M3/Hrs — 0.50 @ 3337=90 Rs 1668=95
Tractor mounted Grader — 1.0 Hr @ 573=00 — Rs 573=00
Water Tanker 6 KL capacity 2.0 Hs @ 184=00 — Rs 368=00
Three wheel Roller 80-100 KN — 1.25 H — 803=00 Rs 1003=75
static Roller @ 80 M3/Hrs — 100.0M3 @ 34=81 Rs 3481=00
Compensation of Earth — @ 40=00 Rs 480=00
Water 12.0 KL — Total Rs 16325=51
Add O.H.C 6% — Rs 979=53
17306=04

Rate 173=06/M3.

Item 07. Labour for cutting 62 MM to 75 MM
dia Bamboo, piles to size
and making shoes and driving etc
... all comp as pr.
Out put – 30.5 M
Assuming 20 no pile shank 1.525 M deep

Labour.
Carpenter Grade II — 0.25 NO @ 345=00 — 86=25
unskilled mazdoor — 2.5 NO @ 287=00 — 717=50
803=75
Add Over Head 6% — Rs 48=22
851=97

Item 08. Labour for fixing and @ 28=40/metre.
fixing 62 MM to 75 MM dia Bamboo runners
in position at every vertical pile with 150 MM
long nails @ 38 with G.I wire ... all comp as
Out put – 30.5 M — Nails 150 MM long — .5 Kg @ 55=84 — 27=92
Carpenter gr II — .125 NO @ 345=00 — 43=13
unskilled Mazdoor — 0.25 NO @ 287=00 — 71=75
142=80
Add Over Head Charge 6% — 8=57
151=37
Here Rate — 4=96 / Metre.

पत्रांक- 2302 रोसड़ा, दिनांक- 01/12/2020

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल-पटोरी।

विषय :- FDR के तहत कराए गए कार्यों का निरीक्षण प्रतिवेदन समर्पित करने के संबंध में।

महाशय,

उपर्युक्त विषयक पत्र के आलोक में कहना है कि FDR के तहत आपके प्रमंडल द्वारा कराए गए कार्यों का अधोहस्ताक्षरी द्वारा निरीक्षणोपरांत जांच प्रतिवेदन इस पत्र के साथ संलग्न कर आवश्यक कार्रवाई हेतु समर्पित की जा रही है।

अनु०-यथोक्त।

विश्वासभाजन

Anil
1/12/2020

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमंडल-रोसड़ा

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पटोरी द्वारा कराए गए FDR पथों की जांच से संबंधित प्रतिवेदन

क्रम सं0	पथ का नाम	क्षतिग्रस्त भाग (मीटर में)	कराए गए कार्य	कराए गए निर्माण कार्य की राशि (रू0 में)	GST@12%	L.Cess@1%	S. Fee@10%	Total	अभियुक्ति
1	2	3	4	5	6	7	8	9	10
1	Mastalipur Kasimachak hote huye to Khanua ghat	1200.00	Earth Work, Brick Bat	451100.00	54132.00	4511.00	0.00	509743.00	कार्य पूर्ण
2	Nawada to Yadav Tola	545.00	Earth Work, Brick Bat	359700.00	43164.00	3597.00	0.00	406461.00	कार्य पूर्ण
3	Sarari Madhopur To Imali Chwok	300.00	Brick Bat, GSB Gr-II, WBM Gr-III	509800.00	61176.00	5098.00	2900.00	578974.00	कार्य पूर्ण
4	L038-Approach Road to Dharampur	1500.00	Earth Work, Brick Bat	430400.00	51648.00	4304.00	0.00	486352.00	कार्य पूर्ण
5	Mahnar Mohaddin Nagar PWD Road Dashhara Sahendra Roy House To Sarhad siman via Ravidas Tola	400.00	Brick Bat, GSB, WBM Gr-III	705500.00	84660.00	7055.00	3200.00	800415.00	कार्य पूर्ण
6	PWD Road To Sarai Madhopur	1500.00	Brick Bat, GSB Gr-II, WBM Gr-III	540400.00	64848.00	5404.00	5800.00	616452.00	कार्य पूर्ण
7	Mohiuddin Nagar Bazar To Kursaha Nahar Tak	1500.00	Earth Work, Brick Bat, GSB	453600.00	54432.00	4536.00	6300.00	518868.00	कार्य पूर्ण
8	Mohanpur panchayat antargat Mohanpur Gate to khanjiva tak	1200.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	701100.00	84132.00	7011.00	9300.00	801543.00	कार्य पूर्ण
9	Bahadurchak to Nandni Dhala.	1200.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	562500.00	67500.00	5625.00	12100.00	647725.00	कार्य पूर्ण
10	Bharat cinema Tetarpur to Rahepur	1200.00	Brick Bat, GSB Gr-II, WBM Gr-III	605100.00	72612.00	6051.00	5600.00	689363.00	कार्य पूर्ण
11	Maa Sita Yashwant High school Nandini to Siura PWD Path tak	300.00	Earth Work, Brick Bat	316800.00	38016.00	3168.00	0.00	357984.00	कार्य पूर्ण
12	Mohaddin Nagar ke tanda goan hote hue Panchayat Bhawan tak path nirmaan.	1800.00	Brick Bat, GSB Gr-II	1023900.00	122868.00	10239.00	3400.00	1160407.00	कार्य पूर्ण

कार्यपालक अभियंता, ग्रामीण कार्य विभाग, कार्य प्रमंडल, पटोरी द्वारा कराए गए FDR पथों की जांच से संबंधित प्रतिवेदन

क्रम सं0	पथ का नाम	क्षतिग्रस्त भाग (मीटर में)	कराए गए कार्य	कराए गए निर्माण कार्य की राशि (रू0 में)	GST@12%	L.Cess@1%	S. Fee@10%	Total	अभियुक्ति
1	2	3	4	5	6	7	8	9	10
13	SH to Harail Part-2	1400.00	Brick Bat, GSB Gr-II, WBM Gr-III	522000.00	62640.00	5220.00	2400.00	592260.00	कार्य पूर्ण
14	Kursaha to Dharampur Durga Mandir Bandh sadak	800.00	Earth Work, Brick Bat, GSB Gr-II, WBM Gr-III	436000.00	52320.00	4360.00	4100.00	496780.00	कार्य पूर्ण
15	Shivaisingpur to Nawada	400.00	Earth Work, Brick Bat	192700.00	23124.00	1927.00	0.00	217751.00	कार्य पूर्ण
16	Sivaisingpur to Gidarganj	125.00	Brick Bat & E/w	165100.00	19812.00	1651.00	0.00	186563.00	कार्य पूर्ण
17	Shapur Undi PWD Road (East of Railway Gumati) to Chakarman	20.00	Brick Bat & E/w	81300.00	9756.00	813.00	400.00	92269.00	कार्य पूर्ण
18	Saraswati Chauk to MMGSY	200.00	Brick Bat, GSB Gr-II, WBM Gr-III	1138000	136560.00	11380.00	16600.00	1302540.00	कार्य पूर्ण
19	Kusho Chowk to Chakraj Ali	500.00	E/w, Brick Bat, GSB Gr-III	705500.00	84660.00	7055.00	8300.00	805515.00	कार्य पूर्ण
20	Approach Road - Bhasingpur	55.00	Brick Bat, GSB, WBM Gr-III	349600.00	41952.00	3496.00	0.00	395048.00	कार्य पूर्ण
21	Ananad Golba To Rajaisi	400.00	Earth Work, Brick Bat	321100.00	38532.00	3211.00	0.00	362843.00	कार्य पूर्ण
22	Thana Chauk Mihiuddin Nagar se kanhauli hote hue nawada hemanpur janewali PMGSY Road Tak	900.00	Earth Work, Brick Bat	521600.00	62592.00	5216.00	0.00	589408.00	कार्य पूर्ण
23	MRL01-Rahepur more Tetarpur via Maniyar tola Mohiuddinpur chowk	3400.00	Brick Bat, Earth Work, GSB Gr-II, WBM Gr-III	1389900.00	166788.00	13899.00	21100.00	1591687.00	कार्य पूर्ण

उपरोक्त सभी पथों की जांच की गई जो संतोषप्रद है।

कार्यपालक अभियंता
ग्रामीण कार्य विभाग, कार्य प्रमंडल, रोसड़ा