



बिहार BIHAR

AGREEMENT No. 11 SBD/2019-20

Date of Commencement :- 02-03-2020

Date of Completion :- 01-03-2021

Agreement Value :- Rs. 1,10,93,199=00

Earnest Money :- Rs. 223000=00

Performance Security :- Rs.

This agreement, made the 2nd day March of 2020 between **Executive Engineer Rural Works Division, Works Division, Khagaria** (name and address of Employer) And **MS Niket Kumar, Village-Rahimpur, Sonbarsha Dist-Khagaria** Whereas the Employer is desirous that the Contractor execute **Conts. Of Road from Mathar Panchayat Bhawan se Paschimi mathar Under MMGSY SC** (name and identification number of Contract (hereinafter called "the Works") and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein at a cost of Rs. 1,10,93,199=00 (Rupees One Crore Ten Lakh Ninety Three Thousand One Hundred Ninety Nine) Only.

Executive Engineer
R.W.D. Works Division
Khagaria

निकेत कुमार

H. Five Years Maintainance Cost

Years of Maintainance	Cost in Rs.	Percentage of Construction Cost
1st Year	26153.00	0.250
2nd Year	30812.00	0.294
3rd Year	220805.00	2.108
4th Year	40096.00	0.383
5th Year	230074.00	2.197
Total Cost	547940.00	5.231
Gross Amount	619172.20	5.912

12 Whether the road has geometrics as per RRM/Latest Circulars of NRRDA YES/NO

13 Whether the CD works/Protection works are provided as per RRM YES/NO

14 Whether the Cost Estimates are as per standard data analysis an S.S.R. YES/NO

Certified that the information provided is true.

A.E.

RWD Works Division,Khagaria

E.E.

RWD Works Division,Khagaria

S.E.-

RWD Works Circle,Saharsa

SQM

BRRDA,Patna

5 YEARS MAINTENANCE COST

SUMMARY OF 5 YEARS MAINTENANCE COST

NAME OF ROAD:- MATHAR PANCHAYAT BHAWAN SE PASCHIMI
MATHAR

LINK ROUTE NO.:- S022

BLOCK:- KHAGARIA

DISTRICT:- KHAGARIA

LENGTH OF ROAD (KM):- 1.200 km

ESTIMATE FOR 5 YEARS MAINTENANCE WORKS

Total Length Of Road = 1200 m

Length Of the Flexible Pavement = 0 m

Length Of the Rigid Pavement = 1200 m

Width Of the Road (Br) = 3.75 m

Width Of the Shoulder (Bs) = 1.125 m

No. Of Hume Pipe Culvert = 2

No. Of Slab Culvert = 0

Length of Drain = 0 m

Multiplying Factor for Commercial Vehicle 15 to 45 per days = 1.25 (ref. - Annexure 14.4 operation Manual from Rural Road)

Sl. No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Berms with soil/moorum etc (Qty=L*Bs*0.3*%taken) X 1.25	Cum	6.00%	60.75	379.59	23,060.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*%taken) X 1.25	Sqm	10.00%	0.00	56.81	0.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	0.00%	0.00	246.33	0.00
4	15.3(ii)	Patch repair over Pot hole/with 20 mm premix surfacing material (Qty=L*Br*%taken) X 1.25	Sqm	0.00%	0.00	210.73	0.00
5	15.3(iii)	Patch repair over bituminous surface with 20 mm premix surfacing material (Qty=L*Br*%taken) X 1.25	Sqm	0.50%	0.00	227.75	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	-	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1102.80	2,206.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	2273.47	0.00
9	15.9	Maintenance of Road signs	Km	10.00%	0.12	1054.28	127.00
10	15.11	Maintenance of 200 m and km stones	Km	12.00%	0.14	613.36	88.00
11	15.12	(i) Cutting of branches of trees and shrubs	No.	-	0.00	106.12	0.00
		(ii) Cutting of shrubs from roadway	No.	-	0.00	6.51	0.00
		(iii) Trimming of grass and weeds	Sqm	18.00%	0.00	2.17	0.00
12	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	42.00	16.01	672.00
Estimate For First Year Maintenance Work						Rs.	26,153.00

Sd/- *K. D. A.*
30.11.2019

Sl. No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
1	15.1	Restoration of Raincuts/Berms with soil,moorum etc(Qty=L*Bs*0.3*(%taken) X 1.25	Cum	7.20%	72.90	379.59	27,672.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*(%taken) X 1.25	Sqm	12.00%	0.00	56.81	0.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	0.00%	0.00	246.33	0.00
4	15.3(ii)	Patch repair over Pot holewith 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	0.00%	0.00	210.73	0.00
5	15.3(iii)	Patch repair over bituminous surface with 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	1.00%	0.00	227.75	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.61	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1102.80	2,206.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	2273.47	0.00
9	15.9	Maintenance of Road signs	Km	12.00%	0.14	1054.28	152.00
10	15.11	Maintenance of 200 m and km stones	Km	15.00%	0.18	613.36	110.00
11	15.12	(i)Cutting of branches of trees and shrubs	No.	-	0.00	106.12	0.00
		(ii) Cutting of shrubs from roadway	No.	-	0.00	6.51	0.00
		(iii) Trimming of grass and weeds	Sqm	22.50%	0.00	2.17	0.00
12	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	42.00	16.01	672.00
Estimate For Second Year Maintenance Work						Rs.	30,812.00
1	15.1	Restoration of Raincuts/Berms with soil,moorum etc(Qty=L*Bs*0.3*(%taken) X 1.25	Cum	8.40%	85.05	379.59	32,284.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*(%taken) X 1.25	Sqm	12.00%	0.00	56.81	0.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	1.50%	0.00	246.33	0.00
4	15.3(ii)	Patch repair over Pot holewith 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	1.50%	0.00	210.73	0.00
5	15.3(iii)	Patch repair over bituminous surface with 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	1.50%	0.00	227.75	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.61	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1102.80	2,206.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	2273.47	0.00
9	15.9	Maintenance of Road signs	Km	15.00%	0.18	1054.28	190.00
10	15.11	Maintenance of 200 m and km stones	Km	18.00%	0.22	613.36	132.00
11	15.12	(i)Cutting of branches of trees and shrubs	No.	-	0.00	106.12	0.00
		(ii) Cutting of shrubs from roadway	No.	-	0.00	6.51	0.00
		(iii) Trimming of grass and weeds	Sqm	22.50%	0.00	2.17	0.00
12	8.13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from cracks and holes	Sqm	-	252.00	735.40	1,85,321.00
13	15.13	White washing of parapet walls of CD work and tree	Sqm	-	42.00	16.01	672.00
Estimate For Third Year Maintenance Work						Rs.	2,20,805.00
1	15.1	Restoration of Raincuts/Berms with soil,moorum etc(Qty=L*Bs*0.3*(%taken) X 1.25	Cum	9.60%	97.20	379.59	36,896.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*(%taken) X 1.25	Sqm	16.00%	0.00	56.81	0.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Sqm	2.00%	0.00	246.33	0.00
4	15.3(ii)	Patch repair over Pot holewith 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	2.00%	0.00	210.73	0.00
5	15.3(iii)	Patch repair over bituminous surface with 20 mm premix surfacing material (Qty=L*Br*(%taken) X 1.25	Sqm	2.00%	0.00	227.75	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.61	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1102.80	2,206.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	2273.47	0.00
9	15.9	Maintenance of Road signs	Km	15.00%	0.18	1054.28	190.00
10	15.11	Maintenance of 200 m and km stones	Km	18.00%	0.22	613.36	132.00

Sl. No.	SOR No.	Description of Items	Unit	% Taken	Yearly Estimated Qty.	Rate (Rs.)	Amount (Rs.)
11	15.12	(i) Cutting of branches of trees and shrubs	No.	-	0.00	106.12	0.00
		(ii) Cutting of shrubs from roadway	No.	-	0.00	6.51	0.00
		(iii) Trimming of grass and weeds	Sqm	22.50%	0.00	2.17	0.00
12	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	42.00	16.01	672.00
Estimate For Forth Year Maintenance Work						Rs.	40,096.00
1	15.1	Restoration of Raincuts/Berms with soil/moorm etc (Qty=L*Bs*0.3*%taken) X 1.25	Cum	10.80%	109.35	379.59	41,508.00
2	15.2	Making up of Berms/shoulder, stripping excess soil from the shoulder surfaces to achieve level etc. (Qty=L*Br*%taken) X 1.25	Sqm	18.00%	0.00	56.81	0.00
3	15.5	Repair of Pot holes filled with 75 mm WBM X 1.25	Cum	2.50%	0.00	246.35	0.00
4	15.3(ii)	Patch repair over Pot holes with 20 mm premix surfacing material (Qty=L*Br*%taken) X 1.25	Sqm	2.50%	0.00	210.73	0.00
5	15.3(iii)	Patch repair over bituminous surface with 20 mm premix surfacing material (Qty=L*Br*%taken) X 1.25	Sqm	2.50%	0.00	227.75	0.00
6	15.6	Maintenance of Earthen Drains	M	-	0.00	2.61	0.00
7	15.7 (i)	Maintenance of C/D Works (Hume Pipe Culvert)	No.	-	2.00	1102.80	2,206.00
8	15.7 (ii)	Maintenance of C/D Works (Slab Culvert)	No.	-	0.00	2173.47	0.00
9	15.9	Maintenance of Road signs	Km	15.00%	0.18	1054.28	190.00
10	15.11	Maintenance of 200 m and km stones	Km	24.00%	0.29	613.36	177.00
11	15.12	(i) Cutting of branches of trees and shrubs	No.	-	0.00	106.12	0.00
		(ii) Cutting of shrubs from roadway	No.	-	0.00	6.51	0.00
		(iii) Trimming of grass and weeds	Sqm	37.50%	0.00	2.17	0.00
12	8.13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes.	Sqm	-	252.00	735.40	1,85,321.00
13	15.13	White washing of parapet walls of CD work and tree trunks	Sqm	-	42.00	16.01	672.00
Estimate For Fifth Year Maintenance Work						Rs.	2,30,074.00

SUMMARY OF 5 YEARS MAINTENANCE COST

Particulars	Amount in Rs.	Amount in (Lakh)
1st Year Maintenance cost	26153.00	0.262
2nd Year Maintenance cost	30812.00	0.308
3rd Year Maintenance cost	220805.00	2.208
4th Year Maintenance cost	40096.00	0.401
5th Year Maintenance cost	230074.00	2.301
Total Cost of 5 years Maintenance	547940.00	5.479
Labour Cess - (1%)	5479.40	
GST - (12%)	65752.80	
GROSS AMOUNT	619172.20	6.192

Supd. L. S. San
26-2-2019
Junior Engineer
RWD Works Division, Khagaria

23/9/19
Assistant Engineer
RWD Works Division, Khagaria

27-09-19
Executive Engineer
RWD Works Division, Khagaria

T.S. for maintenance cost ₹ 5.479 Lakh.
Add G.S.T + L.C. @ 13% ₹ 0.712 Lakh.
Total ₹ 6.191 Lakh.