



**OFFICE OF THE EXECUTIVE ENGINEER
RURAL WORKS DEPARTMENT, WORKS DIVISION, LAKHISARAI**

AGREEMENT NO:- 09/MBD/2023-24

This agreement, made the 20 June day of 2023 between Executive Engineer, RWD, Works Division, Lakhisarai, Govt. of Bihar Patna and and Sri Rajnish Kumar, Vill- Paharpur, PO- Dariyapur, Dist- Lakhisarai, Bihar

Whereas the Employer is desirous that the Contractor execute output and performance based Rural Road contract for the maintenance of road from RCD Road Kamarpur More to RCD Road Nathanpur More in Barahiya (Package No.-MR-23 Lakhisarai/02) Under M/R in Lakhisarai District 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 Construction Rs. 1,55,88,557.00 (One Crore Fifty Five Lakh Eighty Eight Thousand Five Hundred Fifty Seven) only & Five year Maintenance cost Rs. 10,95,600.00 (Ten Lakh Ninety Five Thousand Six Hundred) only total cost Rs. 1,66,84,157.00 (One Crore Sixty Six Lakh Eighty Four Thousand One Hundred Fifty Seven) only.

Rajnish Kumar

[Signature]
Executive Engineer
Rural Work, Department
Work, Div, Lakhisarai
26/6/23

-:Contractor's BID :-

Attached separately

**NAME OF WORK:- RCD Road Kamarpur More to RCD Road Nathanpur
More in Barahiya (Package No.-MR-23 Lakhisarai/02)
Under M/R in Lakhisarai District.**

District:- Lakhisarai

Block :- Barahiya

Sl. No	Name of Road	Leanth (km)	Cost of Construction (Rs. In lacs)	Maintenance cost (Rs. In lacs)
1	RCD Road Kamarpur More to RCD Road Nathanpur More in Barahiya (Package No.- MR-23 Lakhisarai/02)	1.70	155.88557	10.95600
Total		1.70	155.88557	10.95600

Rabin Kumar

[Signature]
Executive Engineer
Rural Work Department
Work, Div, Lakhisarai

[Signature]
24/6/23

OFFICE OF THE EXECUTIVE ENGINEER
RURALWORKS DEPARTMENT, WORKS DIVISION, LAKHISARAI

AGREEMENT NO:- 08/MBD/2023-24

**NAME OF WORK:- RCD Road Kamarpur More to RCD Road Nathanpur
More in Barahiya (Package No.-MR-23
Lakhisarai/02) Under M/R in Lakhisarai District.**

NAME OF AGENCY: - Sri Rajnish Kumar
Vill- Paharpur,
PO- Dariyapur,
Dist- Lakhisarai, Bihar.

Reference :- Chief Engineer-2
R.W.D Bihar, Patna
Vide Letter No. 1662 Date :- 07.06.2023

AGREEMENT AMOUNT – Main work:- 1,55,88,557.00
Maintenance work:- 10,95,600.00
Total Amount: - 1,66,84,157.00

Performance Security: - Deposited @ 2 % Next 8 % deducted from Bill

Date of Commencement :- 20 June 2023

Date of Completion :- 19 March 2024

No. of Item of Work :- As per B.O.Q (Nos)

Rate Quoted :- 10.00% below (One zero point zero zero percent below)

Contractor Signature

Rajnish Kumar

Executive Engineer
RWD, Works Division, Lakhisarai

[Signature]
Executive Engineer
Rural Work, Department
Work, Div, Lakhisarai

20/6/23

Tender Inviting Authority: Engineer Chief RWD Patna

VALID DATE

Name of Work: Construction of Road & CD Works for RCD Road Kumerpur More To RCD Road Nathanpur More in
Under M/A (3054)

PRINT

HELP

Contract No: Civil Works/

Bidder
Name:

Excess (+)

%

SCHEDULE OF WORKS

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
1	Clearing and grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a load of 1000 m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification clause 201.1 and direction of E/I	0.51	Hect	72697.86	Rupees Seventy Two Thousand Six Hundred & Ninety Seven and Paise Eighty Six Only	37075.91
2	Construction of Subgrade and Earthen Shoulders :- Construction of subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of Table 300.2 with lead upto 1000 m as per Technical Specification Clause 303.L	1498.50	Cum	260.32	Rupees Two Hundred & Sixty and Paise Thirty Two Only	390089.52
3	Granular Sub-base Gr - II with Well Graded Material (Table 400.1) :- 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	1246.50	Cum	2256.12	Rupees Two Thousand Two Hundred & Fifty Six and Paise Twelve Only	2812253.58
4	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 three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, crushable screening to fill up the interstices of coarse aggregate, watering and compacting to the required density Grading 3 as per Technical Specification Clause 405	478.13	Cum	3192.63	Rupees Three Thousand One Hundred & Ninety Two and Paise Sixty Three Only	1526492.18
5	Prime Coat :- Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70- 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	3250.00	Sqm	60.62	Rupees Sixty and Paise Sixty Two Only	318255.60
6	Patch work over WBM using Mix seal surface for bituminous and Existing CC Pavement :- Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.9 mm (Type-A) or 13.2 mm to 0.9 mm (Type-B) aggregates using penetration grade bitumen to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 8-10 kN static roller and finishing to required level and grades as per Technical Specification Clause 509.	5302.50	Sqm	281.23	Rupees Two Hundred & Eighty One and Paise Twenty Three Only	1491222.08
7	Tack Coat :- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with Primer and cleaned with hydraulic broom as per technical specification clause 503.	5302.50	Sqm	20.78	Rupees Twenty and Paise Seventy Eight Only	110185.95

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
8	Semi-Dense Bituminous Concrete :- Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects.	132.56	Cum	14140.94	Rupees Fourteen Thousand One Hundred & Forty and Paise Ninety Four Only	1874523.01
9	Cement Concrete Pavement :- Construction of un-reinforced plain cement thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1501.2.2 M 30 grade coarse and fine aggregate maximum size of aggregate not exceeding 25mm, mixed in a concrete of not less than 0.2cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick plythene film, wedges, steel plates including levelling the formwork as per drawing) spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibratory and finished in continuous operation including provision of contraction and expansion, construction joints, applying debonding strips, primer, sealant, dowel bars, near approaches to bridge/ culvert and construction joints, admixtures as approved, curing of concrete slab for 14 days curing compound (where specified) and water finishing to lines and grade as per drawing and Technical specification clause 1501.	181.80	Cum	8376.01	Rupees Eight Thousand Three Hundred & Seventy Six and Paise One Only	1522758.62
10	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specification clause 1703. Km stone	3.00	Each	2898.26	Rupees Two Thousand Eight Hundred & Ninety Eight and Paise Twenty Six Only	8694.78
11	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specification clause 1703. 200 m stone	7.00	Each	813.58	Rupees Eight Hundred & Thirteen and Paise Fifty Eight Only	5695.06
12	Direction and Place Identification signs with size more than 0.9 sqm size board :- Retro-reflectorised Traffic Signs Providing and erecting direction and place identification retro-reflectorised sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3, fixed over aluminium sheeting, 2 mm thick with area exceeding 0.9 sqm supported on mild steel angle iron posts 75 mm x 75 mm x 6 mm, 2 Nos. firmly fixed to the ground by means of properly designed foundation with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	1.92	Sqm	14956.43	Rupees Fourteen Thousand Nine Hundred & Fifty Six and Paise Forty Three Only	28716.35
13	Providing and fixing of retro-reflectorised cautionary, mandatory and informative sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801. (600 mm equilateral & triangle)	25.00	Each	4489.55	Rupees Four Thousand Four Hundred & Eighty Nine and Paise Fifty Five Only	112238.75

Use of Work: Construction of Road & CD Works for RCD Road Kamepur More To RCD Road Nothanpur More in

Side M/R (3054)

Contract No: Civil Works/

Order
No.

Excess (+)

%

SCHEDULE OF WORKS

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figures	Words	
14	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801 (600 mm circular)	20.00	Each	4369.40	Rupees Four Thousand Three Hundred & Sixty Nine and Paise Forty Eight Only	87389.60
15	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801 (600 mm x 450 mm rectangular)	0.00	Each	4224.31	Rupees Four Thousand Two Hundred & Twenty Four and Paise Thirty One Only	33794.48
16	Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC:67 made of encapsulated lens type reflective sheeting vide Clause 1701.2.3 fixed over aluminium sheeting, 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per drawings and Technical Specification Clause 801 (900 mm octagon stop board)	2.00	Each	8713.49	Rupees Eight Thousand Seven Hundred & Thirteen and Paise Forty Nine Only	17426.98
17	Boundary Pillar/Guard Post :- Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	24.00	Each	782.49	Rupees Seven Hundred & Eighty Two and Paise Forty Nine Only	18779.76
18	Printing New Letters and Figures of any Shade :- Printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade as per drawings and Technical Specification Clause 1701	80.00	height per	0.72	Rupees and Paise Seventy Two Only	57.60
19	Planting of Trees and their Maintenance for one Year :- Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year	70.00	Each	1259.02	Rupees One Thousand Two Hundred & Fifty Nine and Paise Two Only	88131.40
20	Road Marking with Hot Applied Thermoplastic Compound with Reflectorsing Glass Beads on Bituminous Surface :- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorsing 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.	280.00	Sqm	824.79	Rupees Eight Hundred & Twenty Four and Paise Seventy Nine Only	230941.20
21	Road Marking with Hot Applied Thermoplastic Compound with Reflectorsing Glass Beads on Concrete Surface :- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorsing 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.	60.00	Sqm	931.80	Rupees Nine Hundred & Thirty One and Paise Eighty Only	55908.00

		Excess (+)				%
SCHEDULE OF WORKS						
Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P	
			Figure	Words		
22 (I) Providing and Fixing 'Logo' of Maintenance Project :- Providing and fixing of typical Informatory sign board with Logo as per MORD specifications and drawing. Three MS Plates of 1.6 mm thick, top and middle plate duly welded with MS flat iron 25mm x 5mm size on back on edges. The lower plate will be welded with MS angle iron frame of 25mm x 25mm x 5mm. The angle iron frame of the lower most plate and flat iron frame of middle plate will be welded to 2 nos. 75mm x 75 mm of 12 SWG sheet tubes posts duly embedded in cement concrete M-15 grade blocks of 450mm x 450mm x 600mm, 600mm below ground level. The top most diamond plate will be welded to middle plate by 47mm x 47mm of 12 SWG steel plate tube. All M.S. will be stove enameled on both sides. Lettering and printing arrows, border etc. will be painted with ready mixed synthetic enamel paint of superior quality in required shade and colour. All sections of framed posts and steel tube will be painted with primer and two coats of epoxy paint as per drawing Clause 1701 and Annexure 1700.1	3.00	Each	13591.78	Rupees Thirteen Thousand Five Hundred & Ninety One and Paise Seventy Eight Only	40775.34	
23 Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	435.17	Cum	383.28	Rupees Three Hundred & Eighty Three and Paise Twenty Eight Only	166791.96	
24 Providing M15 (PCC 1:2.5:5) as levelling course in foundation :- Providing PCC M 15 (1:2.5:5) concrete for plain concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	224.17	Cum	6846.31	Rupees Six Thousand Eight Hundred & Forty Six and Paise Thirty One Only	1534737.31	
25 Granular Sub-base Gr - II with Well Graded Material (Table 400.1) :- 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.	9.38	Cum	2256.12	Rupees Two Thousand Two Hundred & Fifty Six and Paise Twelve Only	21162.41	
26 Brick Flat Seling in Foundation & Flooring :- Brick Flat Seling in foundation Trenches as per drawing and technical specification Clause 1108	290.78	Sqm	314.37	Rupees Three Hundred & Fourteen and Paise Thirty Seven Only	91412.51	
27 Sand Filling in Foundation Trenches as per drawing and technical specification Clause 1108.	40.44	Cum	585.25	Rupees Five Hundred & Eighty Five and Paise Twenty Five Only	23667.51	
28 Plain/Reinforced cement concrete (PCCM-20) in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	74.04	Cum	7902.14	Rupees Seven Thousand Nine Hundred & Two and Paise Fourteen Only	585074.45	
29 RCC M25 in Deck Slab :- Providing and laying reinforced cement concrete in superstructure (Deck slab M25) as per drawing and technical specifications Clauses 800, 1205.4, 1205.5	37.06	Cum	9106.34	Rupees Nine Thousand One Hundred & Six and Paise Thirty Four Only	337480.96	
30 Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and technical specifications Clauses 1000 and 1202	0.72	MT	76364.40	Rupees Seventy Six Thousand Three Hundred & Sixty Four and Paise Forty Only	54982.37	
31 Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	0.57	MT	76567.96	Rupees Seventy Six Thousand Five Hundred & Sixty Seven and Paise Ninety Six Only	43643.74	
32 Supplying, fitting and placing HYSD bar reinforcement in super-structure complete as per drawing and technical specifications	3.52	MT	78111.81	Rupees Seventy Eight Thousand One Hundred & Eleven and Paise Eighty One Only	274953.57	

Inviting Authority: Engg-in-Chief RWD Patna

Work: Construction of Road & CD Works for RCD Road Kauserpur More To RCD Road Nathampar More In
M/R (3054)

Project No: Civil Works/

☒ VALIDATE

☐ PRINT

☐ HELP

Excess (+) %

SCHEDULE OF WORKS

No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
33	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight	22.50	RM	54.34	Rupees Fifty Four and Paise Thirty Four Only	1222.66
34	Providing Weepholes in brick masonry, Plain / Reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structure with slope of 1V: 20H towards drawing	36.00	No	135.90	Rupees One Hundred & Thirty Five and Paise Ninety Only	4892.25
35	P.C.C. M 15 ordinary grade (1:2.5:5) levelling course below approach slab complete as per drawing and technical specifications Clauses 800 and 1211	7.04	Cum	5691.13	Rupees Five Thousand Six Hundred & Ninety One and Paise Thirteen Only	40065.52
36	Drainage spouts complete as per drawing and technical specifications Clause 1209	8.00	No	1100.33	Rupees One Thousand One Hundred and Paise Thirty Three Only	8802.64
37	Providing and laying cement concrete wearing course M 30 grade including reinforcement complete as per drawing and technical specifications Clauses 800 and 1206.3	6.46	Cum	14004.13	Rupees Fourteen Thousand & Four and Paise Thirteen Only	90466.68
38	Reinforced Cement Concrete M-25 grade approach slab including reinforcement and formwork complete as per drawing and technical specifications Clauses 800 and 1211	14.07	Cum	13011.93	Rupees Thirteen Thousand & Eleven and Paise Ninety Three Only	183077.86
Cost of Construction :-						14273839.53
Add 18% GST						2569291.12
Add 1% Labour Cess						142738.40
Seigniorage Fee						334750.00
Total Cost of Construction :-						17320619.04
39	Five Year Maintenance	20.000	Quarterly	51079.90	Rupees Fifty One Thousand & Seventy Nine and Paise Ninety Only	1021598.00
Cost of Maintenance :-						1021598.00
Add 18% GST						183887.64
Add 1% Labour Cess						10215.98
Seigniorage Fee						1632.00
Total Cost of Maintenance :-						1217333.62
Total Cost of Project Including Five Year Maintenance :-						18537952.66
Quoted Rate in Words		Rupees One Crore Eighty Five Lakh Thirty Seven Thousand Nine Hundred & Fifty Two and Paise Sixty Six Only				