



बिहार BIHAR



525-
24/6/22
स. न. कुमार प. 0-1-10 21 म. 614
प. 15. 110 विलीन
23 म. देव
1000x1-1000 -
कार्य प्रारंभ की तिथि - 11-03-2020
कार्य समाप्ति की तिथि - 10-03-2021
Supplementary Agreement - 15 MBK/22-23
AK-028779
स. न. कुमार

This agreement, made the _____ day of _____ between The Executive Engineer, Rural Work Department (Works) Division, Banka-1 (hereinafter called "the Employer") of the one part, and Satish Kumar, At- Williams Town Deoghar (Jharkhand) 814112 (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute the Construction of Road & CD Works with maintenance under Road name Package No.- MR-N/20-21 Banka-1/01 (Tender ID-96109 & Bid ID-414529) Year 2020-21 under M/R (3054) Yojna, Block- Banka, District- Banka, Bihar (hereinafter called the contract) Chief Engineer-4 Rural work department, Bihar Patna Vide Letter No-3252 Encl, Dated 09.09.2020, Revised T.S. Viled Letter No-138/21-22 Dated- 31.03.2022 and the Employer has accepted the Bid by the Contractor for the execution and completion of such works and the Routine maintenance of works for Five Years of the Contract Price remedying of any defects therein, at a Construction of cost of Rs. 34736046.00 (Rupees Three Crore Forty Seven Lakh Thirty Six Thousand Forty Six Only) & Maintenance of cost Rs. 12546231.00 (Rupees One Crore Twenty Five Lakh Forty Six Thousand Two Hundred Thirty One Only) with a Total Amount of Rs. 47282277.00 (Rupees Four Crore Seventy Two Lakh Eighty Two Thousand Two Hundred Seventy Seven Only) at bidder rate quoted 0.02 % below the estimated cost. Satish Kumar the contractor has deposited (1) FD A/c No.- 38655199532 Amount Rs. 765000.00, (2) FD A/c No.- 38979775532 Amount Rs. 200000.00, (3) FD A/c No.- 39209556418 Amount Rs. 250000.00, (4) FD A/c No.- 39209557354 Amount Rs. 300000.00, (5) FD A/c No.- 39152339213 Amount Rs. 820000.00 (6) FD A/c No.- 41079596765 Amount Rs. 5000.00 & (7) FD A/c No.- 41079596630 Amount Rs. 85000.00.

NOW THIS AGREEMENT WITNESSETH as follows:

SR. Divisional Account Officer
R.W.D. (W) Div. Banka-01

Executive Engineer
R.W.D. Works Division
BANKA 1

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all aspects with the provisions of the Contract and undertaking routine maintenance for five years.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying the defects wherein and undertaking routine maintenance for five years, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and be read and construed as part of this Agreement, viz:
 - i) Letter of Acceptance;
 - ii) Notice to proceed with the works;
 - iii) Contractor's Bid;
 - iv) Contract Data;
 - v) Special Conditions of Contract;
 - vi) General Conditions of Contract;
 - vii) Specifications;
 - viii) Drawings;
 - ix) Bill of Quantities; and
 - x) Any other documents listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day any year first before written.

The Common Seal of _____


Divisional Account Officer
27/6/22


Executive Engineer
27/6/22

BIHAR RURAL ROADS DEVELOPMENT AGENCY
(GOVERNMENT OF BIHAR)

BID DOCUMENT

FOR

CONSTRUCTION AND MAINTENANCE OF RURAL
ROADS

DISTRICT: Banka

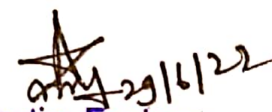
BLOCK: Banka

Sl. No.	Name of Road	Length In Km	Cost of Const. (Rs. In Lakhs)	Maintenance Cost (Rs. In Lakhs)	Total
Package No.- MR-N/20-21 Banka-1/01					
1.	Banka Dhaka More (Shankarpur) to Bankee	6.050	165.80295	64.69498	230.49793
2.	Impt. of Jogidha More (Banka Dhaka More RCD Road) to Bhatti	2.000	81.72619	18.18381	99.91000
3.	Punsia Louni Road to Haripur	3.820	99.83132	42.58352	142.41484
Total			347.36046	125.46231	472.82277

Financial Bid
Year 2020-21

Under
M/R Head 3054
MINISTRY OF RURAL DEVELOPMENT
GOVERNMENT OF BIHAR


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R.W.D. (W) Div. Banka-01


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R.W.D. Works Division
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10 MBZ/20-21

BILL OF QUANTITIES (BOQ) - CONSTRUCTION

Name of

Road : Impt. of Jogdiha More (Banka Dhaka more RCD Road) To Bhatti

Block : Banka

Length : 2.000 km

District :

Banka

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removals of stumps of such trees cut earlier & disposal of unserviceable materials & stacking of serviceable materials to be used or auctioned upto a lead 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	Hect.	0.40	52,970.33	21188.13
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per Technical Specification Clause 202.				
	Cement Concrete	Cum	1.62	487.16	789.20
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per Technical Specification Clause 202.				
	Stone Masonry/Brick Masonary	Cum	81.54	235.98	19241.81
4	Removing all types of Hume pipes and stacking within a lead of 1000 m including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Above 600 mm to 900 mm dia Hume pipe	Rm	10.00	244.92	2449.20
5	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 303.1.	Cum	472.00	192.04	90642.88
6	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.	cum	94.51	1,909.30	180447.94

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Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
7	WBM Grading 2 (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 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 2 as per Technical Specification Clause 405.	Cum	75.95	3,236.76	245831.92
8	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.	Cum	111.38	2,994.86	333567.51
9	Prime Coat (Low porosity)-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.	Sqm	841.07	43.97	36981.85
10	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.	Sqm	841.07	199.26	167591.61
11	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 hydriloc broom as per technical specification clause 503.	Sqm	4258.23	15.03	64001.20
12	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.	Cum	85.22	10,099.27	860659.79

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Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
13	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 vibrators 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.	Cum	666.60	5,711.71	3807425.89
14	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.				
	ii) Km stone	No.	4.00	2,039.10	8156.40
	iii) 200 m stone	No.	8.00	582.75	4662.00
15	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.	Sqm	5.76	11,655.69	67136.77
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				
	600 mm equilateral & triangle	No.	16.00	3,334.47	53351.52
	600 mm circular	No.	2.00	3,531.86	7063.72
	600 mm x 450 mm rectangular	No.	4.00	3,407.52	13630.08

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Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
17	Boundary Pillar/Gaurd 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	Nos	40.00	530.28	21211.20
18	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	per cm height per letter	880.00	0.54	475.20
19	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	Each	52.00	844.59	43918.68
20	Half Brick Circular Tree Guard, in 2nd Class Brick, Internal Diametre 1.25 Metres, and Hight 1.2 Metres, above ground and 0.20 metre below ground, bottom two courses laid dry and top three courses in cement mortar 1:6 (1cement 6 sand) and the intermediate courses being in dry honey comb masonry, as per design complete	Each	52.00	1,882.73	97901.96
21	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads-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.				
	At Edge for BT Portion	Sqm	180.00	721.95	129951.00
	At Edge for CC Portion	Sqm	220.00	810.75	178365.00
22	Providing and fixing of typical MR 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 5m 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	No.	5.00	9,516.70	47583.50

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Sl. No.	Description of Items	Unit	Qty.		
HUME PIPE CULVERT					
23	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	59.60	305.42	18203.03
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	Cum	9.20	4,618.78	42492.78
25	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 (M20)	Cum	67.48	5,442.84	367282.84
26	Providing and laying RCC pipe NP-4 for culverts on first class bedding of PCC M10 material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling concrete and masonry works in head walls and parapets as per clause 1106	Rm	15.00	3,333.29	49999.35
27	Painting on Parapet Wall (Black & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	41.28	100.76	4159.37
28	Providing and laying of a reinforced cement concrete pipe duct, 300 mm dia, across the road (new construction), extending from drain to drain in cuts and toe of slope to toe of slope in fills, constructing head walls at both ends, providing a minimum fill of granular material over top and sides of RCC pipe as per IRC:98 1997, bedded on a 0.3 m thick layer of granular material free of rock pieces, outer to outer distance of pipe at least half dia of pipe subject to minimum 450 mm in case of double and triple row ducts, joints to be made leak proof, invert level of duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC: 98 - 1997 and approved drawings.	Rm	30.00	929.06	27871.80
Parapet					
29	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	Cum	20.16	5,723.92	115394.23
30	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	141.12	143.1	20194.27
31	Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	20.16	143.1	2884.90

[Signature]

[Signature]
 SR. Divisional Account Officer
 R.W.D. (W) Div. Banka-01

[Signature] 25/5/22
 Executive Engineer
 R.W.D. Works Division
 BAIKA 1

[Signature]

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
32	Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new, plastered / concrete surfaces as per drawing and Technical Specification Clause 1701	Sqm	161.28	100.76	16250.57
				Total =	7168959.10
				Labour cess @1% =	71689.59
				GST @12% =	860275.09
				Add Seigniorage Fee @ 10% =	73330.63
				Total (A) =	8174254.41
	5 YEAR ORDINARY MAINTENANCE COST	Quarterly	20	80315.00	1606299.96
				Labour cess @1% =	16063.00
				GST @12% =	192756.00
				Add Seigniorage Fee @ 10% =	3293.03
				Total (B) =	1818411.99
				Grand Total Cost (A+B) =	9992666.40

31/3/22

BOQ approved for RS 9992666 = rs (Rupees Ninety nine Lakh Ninety two thousand six hundred sixty six) only.

31/3/22

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31/3/22