

भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये

ONE THOUSAND RUPEES

रु.1000

Rs.1000

INDIA

बिहार BIHAR

MAY 2022

ग. 26-5-2022 योन. मो. ज्वाला इन्टर प्रा. लि. ति. वारी टोला बसिंग 2 एहरा

प्रति हरिश्चंकर भा. के. 9000 का रु. 1000 का नोट

9000 x 1000

AN 259620

मो. ज्वाला इन्टर प्रा. लि.

26/5/2022

D.O. Commencement- 27-5-2020

D.O. Completion- 26-5-2021

Below 0.01%

## Supplementary Agreement

07 MBD/2022-23

079-A3-177/2020-21

S.A3-194/2020-21

This agreement made the..... day of ...../2022, between Executive Engineer, Rural Works Department, (Govt. of Bihar) Works Division, Simri Bakhtiyarpur (name and address of Employer) (hereinafter Called "the Employer") of the one part, Maa Jwala Enterprises, Add-Dumrail, Tiwari Tola, War No-23, Dist-Saharsa, Reg. No.-1170081, Class-1<sup>st</sup>, Mob-9661350047, PAN No-AMYPJ2513M, GSTIN-10AMYPJ2513M1ZX. (hereinafter called "the contractor") of the other Part.

Whereas the employer is desirous that the Contractor execute the construction with five years maintenance of works under MR-3054 (Package No-MR-N/19-20 Bakhtiyarpur/09) Supplementary Restoration Road from (i) "PWD Road to Mohanpur" (ii) "Saini Tola Via Lagjora Bandh to Goriyari Kosi Bandh 117 km", In Saharsa District, (Tender ID-80452) & (Bid Id-382535) Maintenance of 5 Years & the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects and routine maintenance therein, at a contract price of (Construction Cost Rs. 1,02,79,091/-) Total Rs. 1,02,79,091/- (Rupees One Crore Two Lakh Seventy Nine Thousand.Ninty One Only.)

M/S MAJWALA CONSTRUCTION

PARTNER

Executive Engineer  
R.W.D. Works Division

Simri Bakhtiyarpur

MR-3054

**BILL OF QUANTITY-(BOQ)**

Name of Road:- PWD Road to Mohanpur

Length:- 2.310 Km.

Block:- Banma-Itahari

District:- Saharsa

Sl. No.	Description of Items	Unit	As per Revised Estimate		
			Qty.	Rate	Amount Rs.
1	2	3	4	5	6
1	<b>Clearing and Grubbing Road Land</b> 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 ( By Manual Means) In area of non-thorny jungle	Hect.	0.46	49496.70	22768.48
2	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	2493.00	176.75	440637.75
3	<b>Granular Sub-base with Well Graded Material (Table 400.1)</b> :- 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. <b>(For Grading II Material)</b>	Cum	272.01	2106.24	572924.66
4	<b>WBM Grading 2</b> :-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	147.14	3769.56	554639.86
5	<b>WBM Grading 3</b> :-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	176.15	3476.42	612364.43

Approved as Corrected  
11/05/22

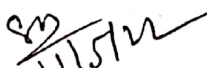
R.W.D. Works, Circle, Saharsa  
12.05.22

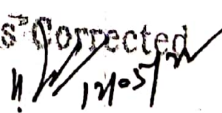
No.	Description of Items	Unit	As per Revised Estimate		
			Qty.	Rate	Amount Rs.
1.	2	3	4	5	6
6	<b>Prime Coat (Low Porosity):-</b> Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	1186.14	41.89	49687.40
7	<b>Mix Seal Surfacing (Type B) BITUMINOUS (S-90) By Mechanical Means (Waste Plastic):-</b> Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 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	1186.14	192.62	228474.29
8	<b>Tack Coat:-</b> Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.3 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	8761.14	14.20	124408.19
9	<b>Semi-Dense Bituminous Concrete:-</b> 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	189.38	9621.57	1822132.93
	<b>TRAFFIC SIGNS, MARKINGS &amp; OTHER ROAD APPURTENANCES</b>				
	Kilometre Stone				
10	Reinforced cement concrete M15 grade kilometre stone/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				
	Ordinary Kilometer Stone (Precast)	Each	4.00	2220.77	8883.08
	200 m stone (precast)	Each	9.00	605.37	5448.33
11	<b>Retro-reflectorised Traffic Signs :-</b> Providing and electing 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 supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm, 2 Nos. 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 1701.	Sqm	1.92	12320.28	23654.94


Executive Engineer,  
R.W.D. Works Division  
Saharsa

S.E.  
R.W.D. Works, Circle, Saharsa  
12.05.22

No.	Description of Items	Unit	As per Revised Estimate		
			Qty.	Rate	Amount Rs.
1	2	3	4	5	6
12	Retro-reflectorised Traffic Signs :- 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				
	600 mm equilateral & triangle, (Left/Right Curve)	Each	38.00 ✓	3630.96 ✓	137976.48 ✓
	600 mm Circular	Each	12.00 ✓	3730.31 ✓	44763.72 ✓
	600 mm x 450 mm rectangular,	Each	2.00 ✓	3601.19 ✓	7202.38
	900 mm side octagon, OR	Each	5.00 ✓	7593.99 ✓	37969.95 ✓
13	Boundry pillar/ Guard post-Reinforced cement concrete M15 grade boundry pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and	Nos.	92.00 ✓	489.88	45068.96
14	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	per cm height per letter	308.00 ✓	0.50	154.00
15	Planting of tree & there maintanance for one year :- planting of tree by the Road side (Avenue Tree) in 0.6 m dia holes, 1 m deep dug in the Ground, Mixing the soil with decayed farm yard/slug manure, planting the saplings back filling the trench, watering, fixing the tree guard & maintain the plant for one year.	No.	28.57 ✓	800.30	22865.71
16	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface :- 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				
17	(At Edge for BT Porsion)	Sqm	400.00 ✓	735.40	294160.00
18	Pedestrian Crossing (2 m in length and providing at 50 cm apart)	Sqm	30.00 ✓	735.40	22062.00

  
 Engineer  
 R.W.D. Works, Circle, Saharsa

Approved as Corrected  
  
 S.E.  
 R.W.D. Works, Circle, Saharsa  
 12.05.22

  
 Executive Engineer  
 R.W.D. Works, Circle, Saharsa  
 30/6/22

Sl. No.	Description of Items	Unit	As per Revised Estimate		
			Qty.	Rate	Amount Rs.
1	2	3	4	5	6
19	(i) Providing and Fixing 'Logo' of MMGSY Project :- Providing and fixing of typical MMGSY 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	Nos.	4.00	9337.29	37349.16
	RCC Slab culvert(1x3.5m)				
20	Plastering with cement mortar (1:4) :- Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	113.92	170.66	19441.59
21	Painting two coats including prime 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	317.44	95.63	30356.79
	RCC Slab culvert (2x5x3m)				
22	Plastering with cement mortar (1:4) :- Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	136.32	170.66	23264.37
23	Painting two coats including prime 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	357.12	95.63	34151.39
	RCC Slab culvert (1x5x3m)				
24	Plastering with cement mortar (1:4) :- Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	36.16	170.66	6171.07
25	Painting two coats including prime 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	98.56	95.63	9425.29
	New Items				
26	Bituminous Macadam :- Providing and laying bituminous macadam with 100-120 TPH hot mix plant producing and average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction.	Cum	378.75	7944.15	3008846.81

Executive Engineer  
R.W.D. Works Division  
Saharsa

Approved as Corrected  
S.E.  
R.W.D. Works, Circle, Saharsa  
Date 12.05.22

Executive Engineer  
R.W.D. Works Division  
Saharsa  
30/6/22

Description of Items	Unit	As per Revised Estimate		
		Qty.	Rate	Amount Rs.
2	3	4	5	6
<b>Cement Concrete Pavement:-</b> Construction of unreinforced expansion and construction joint only, 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	189.72	6730.60	1276929.43
Total =A				9524183.44
Total =B	Quarterly	20		2146949.00
				11671132.44
		12% GST :-		1400535.89
		1% Lab Cess :-		116711.32
Grand Total( A+B)=				13188379.66

Say - Rs. 13188379.00  
 Construction Cost Rs. 10762327.00  
 5 years Maintenance Cost Rs. 2426052.00  
 total Amount of B.O.O. Rs. 1,31,88,379.00

BOC approved for Rs. 1,31,88,379.00  
 (Rupees One crore thirty one lac. Eighty Eight thousand three hundred seventy nine) Only

Approved as Corrected

11/12/05/22  
 S.E.

R.W.D. Works, Circle, Saharsa  
 12.05.12

Executive Engineer  
 R.W.D. Works Circle

30/6/22  
 30/6/22