

2.

L076-T06 to Zahidpur

(Lenght 1.310)

23/3/13
S/P
Executive Engineer
R.W.D. Works Div. Masaurhi
23-3-21

Order Inviting Authority: Engg-in Chief RWD Patna

Name of Work: Construction of Road & CD Works for L076 - T06 To ZAHIDPUR in Pungun Block Under MR /ROAD

VALIDATE

PRINT

HELP

Contract No: Civil Works/

Order
Date:

Excess (+)

%

Description of work	SCHEDULE OF WORKS		Estimated Rate		AMOUNT Rs. P
	No. or Qty.	Unit	Figure	Words	
1. Clearing and Grubbing Road Land Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier, and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201.	0.13	Hect.	49524.68	Rupees Forty Nine Thousand Five Hundred & Twenty Four and Paise Sixty Eight Only	6438.21
2. Construction of Subgrade & Earthen Shoulder Construction of subgrade & earthen shoulders with approved material obtained from borrow pits with all lifts and lead, transporting to site, spreading, grading to required slope and compacted to meet requirement of Tables 300.2 with lead upto 1000m as per Technical Specification Clause 301.4.1	399.60	Cum	161.45	Rupees One Hundred & Sixty One and Paise Forty Five Only	64515.42
3. 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. <i>with water block</i>	83.25	Sqm	185.66 185.53	Rupees One Hundred & Eighty Five and Paise Sixty Six Only	15445.37 15466.20
4. 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 hydrioc broom as per technical specification clause 503.	4245.75	Sqm	14.22	Rupees Fourteen and Paise Twenty Two Only	60374.57
5. 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.	104.06	Cum	8824.90 8832.44	Rupees Eight Thousand Eight Hundred & Thirty Two and Paise Eleven Only	918319.09 919069.37

Resistant Waman

Estimator

R.W.D.

Works Circle, Patna

प्राक्कलन पदाधिकारी
ग्रामीण कार्य विभाग
कार्य विभाग

सहायिकी सलाहकार
ग्रामीण कार्य विभाग

Executive Engineer
R.W.D. Works Div. Masaurhi

APPROVED AS CORRECTED

Superintending Engineer
RURAL WORKS

Inviting Authority: Engr-in-Chief RWD Patna

☒ VALIDATE

Name of Work: Construction of Road & CD Works for L076 - T06 To ZAHIDPUR in Punpun Block Under MR /ROAD

☐ PRINT

Contract No: Civil Works/

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Slender
me. Excess (+) %

SCHEDULE OF WORKS						AMOUNT
Description of work	No. or Qty.	Unit	Estimated Rate		Rs. P	
			Figure	Words		
6 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 polythene 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.	97.60	Cum	6595.39 6114.70	Rupees Six Thousand Seven Hundred & Fourteen and Paise Seventy Only	643710.06 655952.72	
7 Kilometre Stone 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)	3.0 1.00	Nos	2177.27 2177.03	Rupees Two Thousand One Hundred & Seventy Seven and Paise Sixty Three Only	6441.81 2177.63	
8 Kilometre Stone 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 200 m stone (precast)	5 7	Nos	608.61 614.21	Rupees Six Hundred & Fourteen and Paise Twenty One Only	3043.05 4299.47	
9 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.	1.920	Sqm	11685.88	Rupees Eleven Thousand Six Hundred & Eighty Five and Paise Eighty Eight Only	22436.89	
10 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	14 000	Nos	3413.78 3274.54	81 23-3-21 Rupees Three Thousand Seven Hundred & Seventy Four and Paise Fifty Four Only	47,792.92 62843.56	

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Executive Engineer

R.W.D. Works Div. Masaurhi

APPROVED CORRECTED

Superintending Engineer

Inviting Authority: Engg-in Chief RWD Patna

☒ VALIDATE

Name of Work: Construction of Road & CD Works for L076 - T06 To ZAHIDPUR in Punpun Block Under MR /ROAD

☐ PRINT

Contract No: Civil Works/

☐ HELP

Order
No:

Excess (+)

%

SCHEDULE OF WORKS

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
11	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	10.000	Nos	4603.74 5084.24	Rupees Five Thousand & Eighty Four and Paise Twenty Four Only	46037.40 50842.40
12	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	3.000	Nos	4481.93 7145.82	Rupees Seven Thousand One Hundred & Fifteen and Paise Eighty Two Only	13445.79 21347.46
13	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	4.000	Nos	8248.57 7664.32	Rupees Seven Thousand Five Hundred & Sixty Four and Paise Thirty Two Only	32994.28 30257.28
14	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	16	Nos	522.450	Rupees Five Hundred & Twenty Two and Paise Forty Five Only	8359.20
15	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	352	per cm height per letter	0.50	Rupees and Paise Fifty Only	176.00
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 streaks and holes. At edge for BTportion	222	Sqm	735.75	Rupees Seven Hundred & Thirty Five and Paise Seventy Five Only	163336.50

Estimator

F. W.D.

सावकलन पदाधिकारी

राजकीय कार्य निभाग

सहायकी रालाहकार

राजकीय कार्य निभाग

Superintending Engineer

URAL WORKS DEPARTMENT

APPROVED AS CORRECT

Executive Engineer
R.W.D. Works Div. Masaurhi

Under Inviting Authority: Engg-in Chief RWD Patna

Name of Work: Construction of Road & CD Works for L076 - T06 To ZAHIDPUR in Purnun Block Under MR /ROAD

Contract No: Civil Works/

VALIDATE

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HELP

Order No: Excess (+) %

Sl. No.	Description of work	SCHEDULE OF WORKS		Estimated Rate		AMOUNT Rs. P
		No. or Qty.	Unit	Figure	Words	
17	Road Marking with Hot Applied Thermoplastic Compound with Reflectors Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectors 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 old portion	40.00	Sqm	766.53	Rupees Seven Hundred & Sixty Six and Paise Fifty Three Only	30661.20
18	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	3	Nos	11842.37 11944.02	Rupees Eleven Thousand Nine Hundred & Fourteen and Paise Two Only	35,527.11 23829.04
Cost of Construction :-						2131774.10
Add 1% Labour Cess						21317.74
Add 12% GST						255812.89
Total Cost of Construction :-						2408904.74

Executive Engineer
R.W.D. Works Div. Masaurhi

Executive Engineer
R.W.D. Works Div. Masaurhi

Estimator
R.W.D.

प्राक्कलन पदाधिकारी
ग्रामीण कार्य विभाग
कार्य अंचल पटना

तथ्यानिधी सलाहकार
ग्रामीण कार्य विभाग
कार्य अंचल पटना

APPROVED AS CORRECTED

Superintending Engineer
RURAL WORKS DEPARTMENT
Works Circle, Patna

Inviting Authority: Engg-in Chief RWD Patna

Name of Work: Construction of Road & CD Works for L076 - T06 To ZAHIDPUR in Punpun Block Under MR (ROAD)

Contract No: Civil Works/

VALIDATE

PRINT

HELP

Adder
ame: Excess (+) %

No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
19	Maintenance for 1st year	1.310	KM	71232.00	Rupees Seventy One Thousand Two Hundred & Thirty Two and Paise Six Only	88203.00
20	Maintenance for 2nd year	1.310	KM	74331.30	Rupees Seventy Four Thousand Three Hundred & Thirty One and Paise Thirty Only	90814.00
21	Maintenance for 3rd year	1.310	KM	239769.47	Rupees Two Lakh Thirty Nine Thousand Seven Hundred & Sixty Nine and Paise Forty Seven Only	307186.00
22	Maintenance for 4th year	1.310	KM	106319.08	Rupees One Lakh Six Thousand Three Hundred & Nineteen and Paise Eight Only	135668.00
23	Maintenance for 5th year	1.310	KM	259830.53	Rupees Two Lakh Fifty Nine Thousand Eight Hundred & Thirty and Paise Fifty Three	336767.00
307186.00 + 90814.00 + 314099.00 + 135278.00 + 340378.00 = 307186.00						Cost of Maintenance :- 984442.00
307186.00 + 90814.00 + 314099.00 + 135278.00 + 340378.00 = 307186.00						Add 1% Labour Cess 9844.42
307186.00 + 90814.00 + 314099.00 + 135278.00 + 340378.00 = 307186.00						Add 12% GST 118133.04
307186.00 + 90814.00 + 314099.00 + 135278.00 + 340378.00 = 307186.00						Total Cost of Maintenance :- 1112419.46
307186.00 + 90814.00 + 314099.00 + 135278.00 + 340378.00 = 307186.00						Total Cost of Project Including Five Year Maintenance :- 3521324.20
Quoted Rate in Words 3477793.00				Rupees Thirty Five Lakh Twenty One Thousand Three Hundred & Twenty Four and Paise Twenty Only		

16/7

16/7

Bill of Quantity Approved as corrected for Item No.

(1) to (23) for Rs. 3477793.00 (Rupees Thirty Four Lakh Ninety Three Thousand Seven Hundred and Seventy Seven only)

Including Five Years Maintenance.

Estimator
R.W.D.
Works Circle, Patna

पायकलन पदाधिकारी
सानीय कार्य विभाग
कार्य अंचल पटना

तथानिकी सलाहकार
ग्रामीण कार्य विभाग
कार्य अंचल, पटना

Superintending Engineer
R.W.D. WORKS CIRCLE, PATNA

Joint name

Executive Engineer
R.W.D. Works Div. Masaurhi

23-3-21

1.

Chakbihri Main Road to Barawan

(Length 1.100)

Dr.
Executive Engineer
R.W.D. HOIAS DIV. Masaurhi
23-3-21

Work: Construction of Road & CD Works for Chabihri Main Road To Barawan in Purnia Block Under MR/ROAD

Project No: Civil Works

Excess (+)

%

SCHEDULE OF WORKS

Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
			Figure	Words	
Clearing and Grubbing Road Land Clearing and grubbing road land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, removal of stumps of such trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, upto a lead of 1000 m including removal and disposal of top organic soil not exceeding 150 mm in thickness as per Technical Specification Clause 201	0.22	Hect.	49524.68	Rupees Forty Nine Thousand Five Hundred & Twenty Four and Paise Sixty Eight Only	10855.43
Construction of Subgrade & Earthen Shoulder Construction of subgrade & earthen shoulders with approved material obtained from borrow pits with all lifts and lead, transporting to site, spreading, grading to required slope and compacted to meet requirement of Tables 300.2 with lead upto 1000m as per Technical Specification Clause 301.4.1	516.00	Cum	161.45	Rupees One Hundred & Sixty One and Paise Forty Five Only	83308.20
Granular Sub-base 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	4.57	Cum	1826.61	Rupees One Thousand Eight Hundred & Twenty Six and Paise Sixty One Only	8530.27
WBM Grading 2 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	6.68	Cum	3403.57	Rupees Three Thousand Four Hundred & Three and Paise Fifty Seven Only	22735.85
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	13.84	Cum	3168.21	Rupees Three Thousand One Hundred & Sixty Eight and Paise Twenty One Only	43848.03
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	184.53	Sqm	41.92	Rupees Forty One and Paise Ninety Two Only	7734.24

Exec. Engineer
R.W.D. Purnia - V. Masaurhi

APPROVED AS CORRECTED

Superintending Engineer
RURAL WORKS DEPARTMENT
Works Circle, Patna

Estimator
R.W.D.
Works Circle, Patna

प्रायकलन पदाधिकारी
ग्रामीण कार्य विभाग
कार्य अंचल पटना

सामान्यी सलाहकार
ग्रामीण कार्य विभाग
कार्य अंचल पटना

Contract No. Civil Works

Excess (+)

%

Description of work	No. of Qty	Unit	Estimated Rate		AMOUNT Rs. P
			Figure	Words	
7 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.	184.53	Sqm	185.14	Rupees One Hundred & Eighty Five and Paise Thirty One Only	34163.88 34495.25
8 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 hydrolac broom as per technical specification clause 503.	4350.78	Sqm	14.22	Rupees Fourteen and Paise Twenty Two Only	61658.09
9 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.	104.15	Cum	8813.20	Rupees Eight Thousand Eight Hundred & Thirteen and Paise Twenty Only	917240.71 917552.91
10 Kilometre Stone 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)	3.00 1.00	Nos	2147.47 2173.18	Rupees Two Thousand One Hundred & Seventy Three and Paise Eighteen Only	6442.41 2173.18
11 Kilometre Stone 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 200 m stone (precast)	4	Nos	608.67 615.42	Rupees Six Hundred & Thirteen and Paise Forty Two Only	2434.56 3668.52
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.	1.920	Sqm	11624.79 11661.40	Rupees Eleven Thousand Six Hundred & Eighty Three and Paise Forty Only	22,319.59 22432.73

23-3-21
 Executing Engineer
 R.W.D. Works Div. Masaurhi

APPROVED AS CORRECTED

Superintending Engineer
 RURAL WORKS DEPARTMENT
 Works Circle, Patna

Estimator

प्रमुख पदाधिकारी

सहायक निरीक्षक
 ग्रामीण कार्य विभाग
 कार्य अंचल, पटना

Authorizing Authority: Engg-in Chief RWD Patna

of Work: Construction of Road & CD Works for Chakbinri Main Road To Barawan in Punpun Block Under MR I ROAD

☒ VALIDATE

☐ PRINT

☐ HELP

Contract No: Civil Works

Order No: Excess (+) %

Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
			Figure	Words	
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	7.000	Nos	3413.83 3271.99	Rupees Three Thousand Seven Hundred & Seventy One and Paise Ninety Nine Only	23896.81 26403.93
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	6.000	Nos	4663.67 5081.69	Rupees Five Thousand & Eighty One and Paise Sixty Nine Only	27623.07 30499.14
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 x 450 mm rectangular	2.000	Nos	4482.03 7113.28	Rupees Seven Thousand One Hundred & Thirteen and Paise Twenty Eight Only	8967.06 14226.56
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	2.000	Nos	8248.67 7562.39	Rupees Seven Thousand Five Hundred & Sixty Two and Paise Thirty Nine Only	16497.37 15124.78
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	16	Nos	522.120	Rupees Five Hundred & Twenty Two and Paise Twelve Only	8353.92
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	352	per cm height per letter	0.50	Rupees and Paise Fifty Only	176.00

By *[Signature]*
Executive Engineer

R.W.D. Works Div. Masaurhi

APPROVED AS CORRECT

[Signature]
16/3/19
Estimator

[Signature]
16/3/19
मालकमलत पटवर्धन

22/3/19
तकनिकी सहायक
ग्रामीण कार्य विभाग
कार्य अंचल, पटना

22/3/19
Superintending Engineer
RURAL WORKS DEPARTMENT
Works Circle Patna

Order Inviting Authority: Engg-in Chief RWD Patna

of Work: Construction of Road & CD Works for Chakbihri Main Road To Barawan in Punpun Block Under MR /ROAD

☒ VALIDATE

☐ PRINT

☐ HELP

Contract No: Civil Works/

Order No:

Excess (+)

%

SCHEDULE OF WORKS

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P
				Figure	Words	
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 BT portion	10	Each	796.44 798.49	Rupees Seven Hundred & Ninety Eight and Paise Forty Nine Only	7968.70 7984.90
20	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 streaks and holes. CCP Portion	220	Sqm	735.75	Rupees Seven Hundred & Thirty Five and Paise Seventy Five Only	161865.00
21	Providing and fixing of typical MMSGY 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 MS 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	3.0 2.0	Nos	11842.49 11914.32	Rupees Eleven Thousand Nine Hundred & Eleven and Paise Thirty Two Only	35527.47 23622.64 1512393.3
Cost of Construction :-						1507831.97
Add 1% Labour Cess						15078.32
Add 12% GST						180939.84
Total Cost of Construction :-						1703850.12

Executive Engineer
R.W.D. Works Div. Masaurhi

Executive Engineer
R.W.D. Works Div. Masaurhi

Project name

Estimator

नायकलन पदाधिकारी
ग्रामीण कार्य विभाग

लघुनिजी ललाहकार
ग्रामीण कार्य विभाग

APPROVED AS CORRECTED

Superintending Engineer
RURAL WORKS DEPARTMENT
Works Circle, Patna

Inviting Authority: Engg-in Chief RWD Patna

VALIDATE

Work: Construction of Road & CD Works for Chakbiri Main Road To Barawan in Purnea Block Under MR /ROAD

PRINT

Fact No. Civil Works

HELP

			Excess (+)				%
SCHEDULE OF WORKS							
Description of work	No. or Qty.	Unit	Estimated Rate		AMOUNT Rs. P		
			Figure	Words			
Maintenance for 1st year	1.100	KM	78486.36	Rupees Seventy Eight Thousand Four Hundred & Eighty Six and Paise Thirty Six Only	86335.00		
Maintenance for 2nd year	1.100	KM	86940.91	Rupees Eighty Six Thousand Nine Hundred & Forty and Paise Ninety One Only	95635.00		
Maintenance for 3rd year	1.100	KM	252528.18	Rupees Two Lakh Fifty Two Thousand Five Hundred & Twenty Eight and Paise Eighteen Only	277781.00		
Maintenance for 4th year	1.100	KM	120618.82	Rupees One Lakh Twenty Thousand Six Hundred & Eighteen and Paise Eighty Two Only	132680.70		
Maintenance for 5th year	1.100	KM	273314.55	Rupees Two Lakh Seventy Three Thousand Three Hundred & Fourteen and	300545.00		
			2405471.01	Cost of Maintenance :-	893077.70		
			2405471.01	Add 1% Labour Cess	8936.78		
			288656.52	Add 12% GST	107169.32		
			2934674.63	Total Cost of Maintenance :-	1009177.80		
			2718182.21	Total Cost of Project Including Five Year Maintenance :-	2713027.93		
Estimated Rate in Words			Rupees Twenty Seven Lakh Thirteen Thousand & Twenty Seven and Paise Ninety Three Only				

Bill of Quantity Approved as corrected for Item No.

1 to 78 for Rs. 27,13,18,27.93 (Rupees Twenty Seven Lakh Thirteen Thousand and Twenty Seven and Paise Ninety Three Only)

Including Five Years Maintenance.

Estimator
R.W.D.
Works Circle, Patna

प्रारंभिक पदाधिकारी
ग्रामीण कार्य विभाग
कार्य अंचल पटना

तकनीकी सलाहकार
ग्रामीण कार्य विभाग
कार्य अंचल, पटना

Superintending Engineer
R.W.D. WORKS CIRCLE, PATNA

Executive Engineer
R.W.D. Works Div. Muzaffarpur

Reject

23-3-21