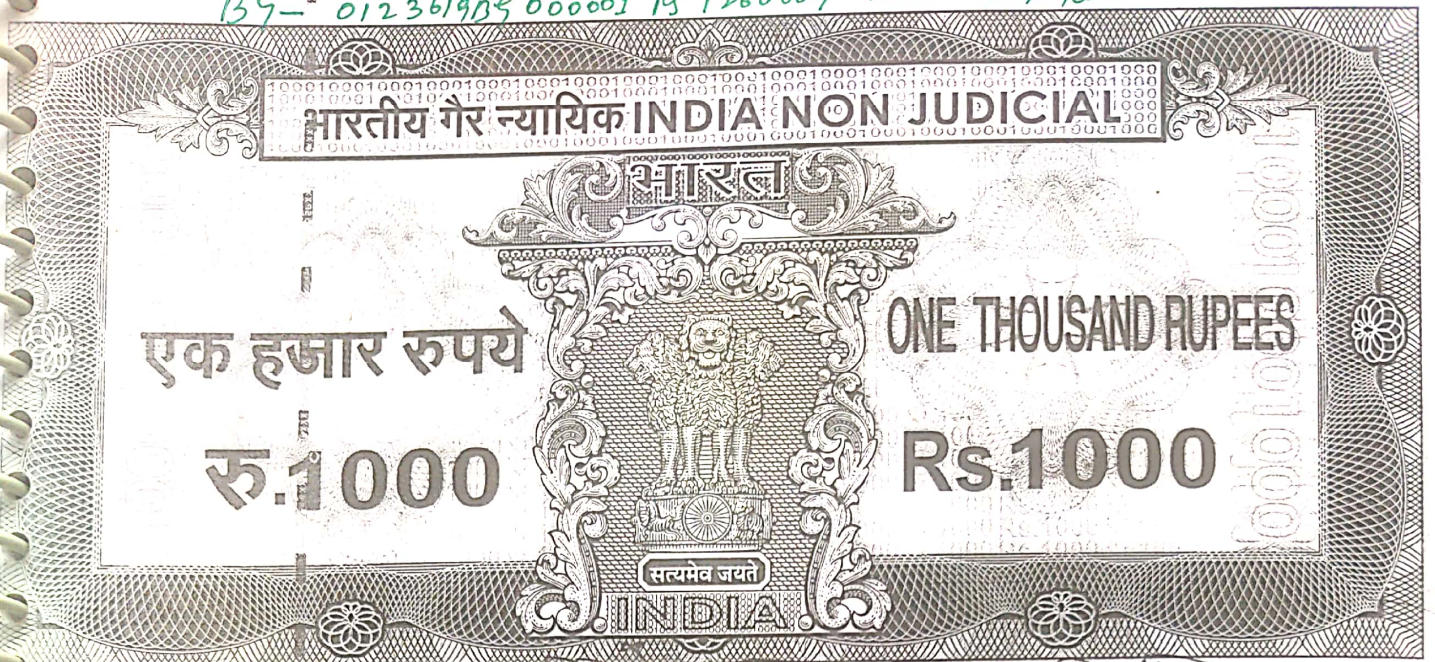


क्रिगोड
B/- 012361985 000001 Rs 1260000/- Value - 26/11/20



बिहार BIHAR

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क्रिगोड सहायता रद्द रीय गीत

AA 010455

महो कोषागार बज्रगृह
बिहार विधि:-

16 FEB 2019

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S.B.D
MMGSY (ST)
Agreement

[Signature]
01/03/19

Certified copy
No. 1000

[Signature]
आशीष

Agreement No.- 96/SBD/20.19.20

Name and firm of contractor:- Brigade Construction

Name of Work- Construction of Road from T01 to Baruna Tola

Agreement Value:- Rs. 5,02,71,468.00 (Five Crore Two Lakh Seventy One Thousand Four Hundred & Sixty Eight Only)

Date of Agreement :- 31/12/2019

Date of Completion :- 30/12/2020

This agreement made on 31/12/2019 between Executive Engineer, R.W.D. Works Division, Dhamdaha, Purnea. [Name and address of Employer] (hereinafter called "The Employer") of the one part and :- **Brigade Construction, Pro- Suresh Pd. Singh, S/o Raguwansh Prasad Singh, Ramnagar Po-Polytechnic, Maranga, Purnea** [Name and address of Contractor] (herein after called the "Contractor" of the other part). Whereas the Employer is desirous that Contractor execute the Construction of Road from T01 to Baruna Tola [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 Such as 5 years Routine Maintenance, as a Cost of Rs. 5,02,71,468.00 (Five Crore Two Lakh Seventy One Thousand Four Hundred & Sixty Eight Only).

Executive Engineer
Rural Works Department
Works Division, Dhamdaha (Purnea)

[Signature]
31/12/19

For Brigade Construction

[Signature]
सुरेश प्रसाद सिंह

PROPRIETOR

S4
Executive Engineer
Rural Works Department
Works Division, Dhamdaha (Purnea)



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BIHAR RURAL ROAD DEVELOPMENT AGENCY



ग्रामीण कार्य विभाग

Rural Works Department, Govt of Bihar

BIHAR RURAL ROADS PROJECT

Bihar Rural Road Development Agency (BRRDA)

Govt. Of Bihar

MMGSY

Bill Of Quantity

T01 TO BARUNA TOLA

District :	:	-	PURNEA
Block :	:	-	BARHARA KOTHI
Package No :	:	-	
Link No. :	:	-	S0
Total Length :	:	-	6.000 KM
Construction Cost : (In Rs.)	:	-	4,53,22,008.36
Maintenance Cost : (In Rs.)	:	-	50,04,955.32
Total Project Cost : (In Rs.)	:	-	5,03,26,963.68

Submitted By:

For Brigade Construction
सुरेश यादव
PROPRIETOR



Bill Of Quantity (BOQ)

Road: T01 TO BARUNA TOLA

District: PURNEA

Length: 6.000 KM

Block: BARHARA KOTHI

Total Construction Cost (With Gst 12% + L.C 1%):

4,53,22,008.36

Link No: S0

Total Maintenance Cost (With Gst 12% + L.C 1%):

50,04,955.32

Package No

Sl. No.	Description Of Work	Qty.	Unit	Rate	AMOUNT (In Rs.)
1.00	Setting Out Pillars	6.00	Km	33521.26	201128.00
2.00	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	2.10	Ha	49496.70	103943.00
3.00	Box Cutting Excavation for roadway in soil using manual means for carrying of cut earth to embankment site with a lift upto 1.5 m and lead upto 50 m as per Technical Specification Clause 302.3	60.00	Cum	122.15	7329.00
4.00	SUB HEAD : EARTHWORK Construction of embankment with approved material deposited from road way cutting and excavation from drain and foundation of other structures and excavated with an average lead of 50 m graded and compacted to meet requirement of tables 300.1 and 300.2 as per technical specification clause 301.5	36.00	Cum	29.52	1063.00
5.00	Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3 (Including Royalty & Labour Cess).	60.00	Cum	74.10	4446.00
6.00	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , transporting to the site spreading , grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 1000 m</u> as per Technical Specification Clause 301.5 .	3320.82	Cum	184.19	611662.00
7.00	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m , transporting to the site spreading , grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a <u>lead upto 100 m</u> as per Technical Specification Clause 301.5 .	1137.31	Cum	147.35	167583.00
8.00	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.	11729.37	Cum	176.75	2073166.00

For Brigade Construction


PROPRIETOR










Sl. No.	Description Of Work	Qty.	Unit	Rate	AMOUNT (In Rs.)
SUB HEAD : BITUMINOUS ITEMS					
9.00	Granular Sub-base (Grading-I) Construction of Gravel/Soil-aggregate base by providing well graded material, spreading in uniform layers with motor pn prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel80-100 kn static roller to achieve the desired density, complete as per Technical Specification Clause 402.(With Coarse Sand)	2495.21	Cum	2967.15	7403662.00
10.00	WBM Grading 3 (By Machnical 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 3 as per Technical Specification Clause 405.(With Stone Screening Type "B" 11.2mm)	1704.38	Cum	3680.83	6273533.00
11.00	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 0.80 kg/sqm using mechanical means as per Technical Specification Clause 502.	11551.88	Sqm	42.56	491648.00
12.00	Tack Coat Providing and applying tack coat with bitumen emulsion (RS) using emulsion distributor @ 0.275 kg per sq m on the prepared bituminous surface cleaned with hydraulic broom as per technical specification clause 503.	11551.88	Sqm	14.41	166463.00
13.00	Mix Seal Surfacing Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 13.2 mm to 0.09 mm (Type-B) aggregates using penetration grade bitumen(S-90) 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.(With Paver Finisher)	11551.88	Sqm	192.34	2221889.00
SUB HEAD : CC PAVEMENT					
14.00	Granular Sub-base (Grading-I) Construction of Gravel/Soil-aggregate base by providing well graded material, spreading in uniform layers with motor pn prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with three wheel80-100 kn static roller to achieve the desired density, complete as per Technical Specification Clause 402.(With Coarse Sand)	898.91	Cum	2967.15	2667201.00







For Brigade Construction

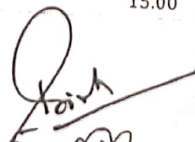


PROPRIETOR



Sl. No.	Description Of Work	Qty.	Unit	Rate	AMOUNT (In Rs.)
15.00	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 0.2 cum 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.	1787.70	Cum	6767.88	12098939.00
16.00	Hard Shouldering - Laying brick soling layer on prepared sub-grade with brick on end edging according to lines, graded and cross-section shown on the drawing filling joints with sand and earth, spreading 25 mm thick layer of earth over brick soling, watering and rolling the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412	2950.00	Sqm	503.51	1485355.00
17.00	Cable Duct Across the Road: 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.	180.00	M	1592.23	286601.00
18.00	Kilometre Stone 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.				
	5th Km Stone	0.00	Nos.	8453.18	0.00
	Km Stone	7.00	Nos.	2253.46	15774.00
	200 M Stone	24.00	Nos.	627.81	15067.00
19.00	Traffic Sign Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign as per IRC :67 made of high intensity grade sheeting vide clause 801.3, 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 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing.				
	600 mm equilateral & triangle, OR	24.00	Nos.	3415.18	81964.00
	600 mm circular, OR	15.00	Nos.	4588.29	68824.00
	800 mm x 600 mm rectangular, OR	24.00	Nos.	6407.99	153792.00
	600 mm x 450 mm rectangular, OR	15.00	Nos.	4468.20	67023.00

For Brigade Construction


PROPRIETOR



Sl. No.	Description Of Work	Qty.	Unit	Rate	AMOUNT (In Rs.)
20.00	Road Marking On BT	610.00	Sqm	735.40	448594.00
	Road Marking On CC	590.00	Sqm	834.62	492426.00
21.00	Boundary Pillar	40.00	Nos.	464.66	18586.00
22.00	Direction And Place Identification Signs Up To 0.9 Sqm Size Board	24.00	Nos.	11734.54	281629.00
23.00	(i) Providing and Fixing 'Logo' of PMGSY Project (ii) Providing & Fixing of LOGO of "Citizen Information Board" (iii) Maintenance Board	5.00	Nos.	9374.93	46875.00
	Hume Pipe :- 1 x 1000 MM (PCC)				
24.00	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	119.19	Cum	285.17	33990.00
25.00	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	18.38	Cum	5473.56	100604.00
26.00	Plain/Reinforced cement concrete(M-20) in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	142.84	Cum	6472.62	924575.00
27.00	Providing and laying RCC pipe NP-3 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	30.00	M	3455.82	103675.00
28.00	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	82.56	Sqm	95.63	7895.00
	RCC BOX CULVERT - 1 x 2M x 2M				
29.00	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.	84.60	Cum	285.17	24124.00
30.00	Providing Granular Sand Filling Below Concrete In Foundation./Providing Granular Filling Between Abutment And Return Wall.	73.14	Cum	1154.66	84452.00
31.00	Providing PCC Grade M15 for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	7.47	Cum	5473.56	40877.00
32.00	Providing PCC Grade M20 concrete for plain/reinforced concrete in Sub-Structure(Retrurn Wall) complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	51.47	Cum	5473.56	281697.00
33.00	RCC GRADE M-25 Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	9.75	Cum	7376.66	71922.00
34.00	RCC GRADE M-25 Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5	13.56	Cum	7537.00	102202.00

For Brigade Construction
सुरेश चणू ठांडे
 PROPRIETOR

Sl. No.	Description Of Work	Qty.	Unit	Rate	AMOUNT (In Rs.)
35.00	Filter media behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8	21.50	Cum	2442.68	52527.00
36.00	Providing Weepholes.	36.00	Nos	243.06	8750.00
37.00	Providing Pressure Relief Pipe.	6.00	Nos	413.96	2484.00
38.00	Providing Boulder Aprons.	20.40	Cum	3250.87	66318.00
39.00	R.C.C Railing	5.00	M	6532.69	32663.00
40.00	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	3.38	M	62992.26	213052.00
Total Construction Cost:					4,01,07,972.00
Add Gst 12%:					48,12,956.64
Add L.C 1%:					4,01,079.72
Total Construction Cost (With Gst 12% + L.C 1%):					4,53,22,008.36
41.00	First Year Maintenance Cost	1.000	Year	234026.00	234026.00
42.00	Second Year Maintenance Cost	1.000	Year	294030.00	294030.00
43.00	Third Year Maintenance Cost	1.000	Year	1474995.00	1474995.00
44.00	Forth Year Maintenance Cost	1.000	Year	679346.00	679346.00
45.00	Fifth Year Maintenance Cost	1.000	Year	1746767.00	1746767.00
Total Maintenance Cost:					44,29,164.00
Add Gst 12%:					5,31,499.68
Add L.C 1%:					44,291.64
Total Maintenance Cost (With Gst 12% + L.C 1%):					50,04,955.32
Total Estimated Cost ((With Gst 12% + L.C 1%):					5,03,26,963.68

5,03,26,963.68 = 0

For
09/07/19

0-1
23/07/19

Q.O. approved for Rs. 5,03,26,963.68 (Rs. Five
Three Thousand Two Hundred Sixty
Four Hundred Sixty four only)

For Brigade Construction
S R S S R S
PROPRIETOR

26/7/19
SUPERVISING ENGINEER
WORKS DEPT. T. & M.
26/07/19

