

Tender Inviting Authority: Engg-in Chief RWD Patna

Name of Work: Construction of Road & CD Works Under (Road name) :

ARBANNA TO
PATRIA

Contract No: Civil Works/

Bidder
Name:

Excess (+) %

SCHEDULE OF WORKS

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
1	Clearing and Grubbing Road Land including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300mm, removal of stumps of such trees cut earlier and unseviceable materials & stacking of serviceable materials to be used or auctioned upto a lead of 1000m including removal and disposal of top organic soil not exceeding 150mm in thickness as per technical specification (clause 201.1)	2.06	Hec.	49496.70	101963.20
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.	6534.00	Cum	176.75	1154884.50
3	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.	148.98	Cum	2360.89	351725.39
4	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.	136.46	Cum	4272.34	583003.52

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
5	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.	196.21	Cum	3957.21	776444.17
6	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	2616.07	Sqm	42.19	110371.99
7	M.S.S Providing, laying and rolling of close graded premix surface material of 20 mm thick composed 11.2 mm to 0.9 mm (Type A) or 13.2 mm to 0.09 mm (Type B) aggregate using penetration grade bitumen to required line, grade and level to serve as wearing course on a previously base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller and finishing to required level and graded as per Technical Specification Clause 509 Type B.	0.00	Cum	200.86	0.00
8	Providing and applying tack coat with bitumen emulsion (RS) using emulsion distributor @ 0.2 to 0.25 kg per sq m on the prepared bituminous surface cleaned with hydraulic broom as per technical specification clause 503.	122214.82	Sqm	14.30	1747671.93
9	Providing and lying Bituminous Macadam 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, transported to site, laid over a previously prepared surface with mechanical control paver finisher to the required grade level and alignment and rooled as per Clause 501.6 501.7 to achieve the desired compaction.	1950.56	Cum	8380.78	16347214.24

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
10	Providing and lying 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, transported to site, laid over a previously prepared surface with mechanical sponner paver finisher to the required grade level and alignment and rooled as per Clause 501.6 501.7 to achieve the desired compaction.	975.29	Cum	10100.50	9850916.65
11	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	0.00	0.00	0.00	0.00
i)	5th KILOMETRE STONE (precast)	1.00	Nos.	4342.26	4342.26
ii)	KM STONE	12.00	Nos.	2326.00	27912.00
iii)	200 m stone (precast)	41.00	Nos.	629.08	25792.28
12	Traffic Sign Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC:67 made of 1.5 mm thick MS Sheet duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per Clause 1701.3.9 of MORD for Rural Roads of required shade and colour supported and welded on 47mm x 47 mm x 12 SWG sheet tube firmly fixed to the ground by mean of properly designed foundations with M-15 grade cement concrete 450x450x600 mm, 600 mm below ground level as per approved drawing Clause 1701.2.2	0.00	0.00	0.00	0.00
i)	600 mm equilateral	92.00	Nos.	3677.56	338335.52
ii)	600 mm Circular	22.00	Nos.	3776.91	83092.02
iii)	600 x 450 rectangular	28.00	Nos.	3647.79	102138.12
iv)	900 MM Side Octagon	5.00	Nos.	7647.79	38238.95


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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
13	Providing and erecting direction and place identifications of semi reflective sign boards as per IRC:67 made of 2 mm thick M.S. Sheet duly stove enameled paint in white colour in front and grey colour on back with red reflective border of 70 mm width and required message, letters, figures with reflective engineering grade tape as per MORD specifications of required shade and colour. Supported and welded on 47 mm x 47mm of 12 SWG Square tube of 3050 mm height duly strengthened by 25 mm x 5 mm M/s flat iron on edges on back firmly fixed to the ground by means of properly designed foundations 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	5.76	Nos.	12382.41	71322.68
14	Providing and laying of hot applied (Thromoplastic compound 2.5 mm thick including reflectorising glass beads @250gms 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 streaks and holes.	9.00	Sqm	735.40	6618.60
i)	Road strips	132.00	0.00	218.63	28859.16
15	Reinforced cement concrete M15 grade bouandary pillers local stone of standard design as per IRC25 fixed in position including finishing and lettering but excliding painting as per drwaing ans technical specification clause 1704	176.00	Nos.	502.19	88385.44
16	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	572.00	m Height	0.50	286.00
17	Planting of tree by the road side (Avnue trees) in 0.60 m dia hole 1 m deep in dug in the ground mixing on the soil with decelered farm yard /slaudge manure planting the shapling backfilling the trench watering fixing the tree guard and mainting the plant one years.	287.00	Each	800.30	229686.10
18	At Edge for BT PORTION	2060.00	Sqm	735.40	1514924.00
19	Pedestrian crossing (2m in length and providing at 50 cm apcart)	30.00	Sqm	735.40	22062.00

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
20	Providing and fixing of semi reflective cautionary , mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS steel duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per clause 1701.3.9 of MORD for rural road of required shade and colour supported and welded on 47mmx47mmx12swg sheet tube firmly fixed to the ground by mean of properly designed foundation with M15 grade cement concrete 450x450x600 mm ,600mm below ground level as per approved drawing clause 1701.2.2.	2.00	Nos.	9430.49	18860.98
21	Plastering With Cement Motor (1:4) on brick work in sub structure as per technical specification	16.96	Sqm	179.06	3036.86
22	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	50.56	Sqm	95.63	4835.05
0	HPC 600 MM	0.00	0.00	0.00	0.00
23	Brick masonry work in cement mortar (1:3) on parapet wall in substructure complete excepting pointing and plastering, as per drawing and technical specification Clauses 602, 603, 604, 1202 & 1204	12.00	Cum	5430.39	65164.68
24	Plastering with cement mortar (1:4), 15 mm thick on brickwork in substructure as per technical specification Clauses 613.4 & 1204	84.80	Sqm	179.06	15184.29
25	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	252.80	Sqm	95.63	24175.26
26	Earthwork in excavation for foundation of structures as per drawing and technical specification Clause 1104 including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. (A) Ordinary Soil	119.20	Cum	260.59	31062.33


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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
27	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 (I) PCC Grade M-15	18.40	Cum	5809.06	106886.70
28	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 III. RCC Grade M-20	123.16	Cum	6605.03	813475.49
29	Providing and laying RCC pipe NP3 for culvert on first class wedding on pcc m10 metrial in single row	30.00	Rm	3383.98	101519.40
30	Painting on parapet wall (Black and White)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	7895.21
0	RCC 2 X 2	0.00	0.00	0.00	0.00
31	Earthwork in excavation for foundation of structures as per drawing and technical specification Clause 1104 includding setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. (A) Ordinary Soil	89.08	Cum	260.59	23213.36
32	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 (I) PCC Grade M-15	6.14	Cum	5809.06	35667.63
33	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 (I) PCC Grade M-20	23.61	Cum	6605.03	155944.76
34	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	0.16	MT.	55966.95	8954.71
35	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 III. PCC Grade M-20	11.13	Cum	6605.03	73513.98

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
36	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 61-1, 709, 1204.3.7	36.00	Nos.	215.16	7745.76
37	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 III. PCC Grade M-25	10.02	Cum	6808.08	68216.96
38	Supplying, fitting, and placing HYSD bar reinforcement in substructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	1.01	MT.	56107.35	56668.42
39	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8	36.50	Cum	3349.98	122274.27
40	Providing and laying filter media with granular crushed aggregates as per specification to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and providing over the entire surface behind abutment, wing wall, return wall to the full height, compacted to firm condition complete as per drawing and technical specification Clause 1204.3.8	15.69	Cum	3425.14	53740.45
41	Providing & Laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 RCC M-30 GRADE	4.38	Cum	7806.96	34194.48
42	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	0.37	MT.	57130.03	21138.11
43	Parapet construction plain reinforcement cement concrete in sub structure complete as per drawing and technical specification clauses 802, 803, 804, 805, 806, 807, 1202, & 1204 M-20	3.12	Cum	6605.03	20607.69
44	Painting on parapet wall (Black and White) 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	21.76	Sqm	95.63	2080.91

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