

Tender Inviting Authority: CHIEF ENGINEER WORKS-I

Name of Work: Construction of Road & CD Works of :- Construction of Road Lalganj Jatkauli to Hararo Noniya Toli, Length -1.19 Km., Block -Vaishali, District -Vaishali, UNDER MMGSY. Construction Cost of Road - 148.552 Lacs & 5 Years Maintenance Cost - 5.397 Lacs

Contract No: Civil Works/

Contract No: Civil Works:

Bidder Name:

Excess (+) %

(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)

SCHEDULE OF WORKS

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate Figure	AMOUNT Rs. P
1.00	Setting out (i) Construction of Reference & Working Benchmark	1.190	Km	3592.590	4275.18
2.00	(ii) Construction of Reference Pillars	1.190	Km	1673.030	1990.91
3.00	Clearing and Grubbing Road Land Clearing and Grubbing Road Land (By manual means) including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 300 mm, 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	0.476	Hect	45893.520	21845.32
4.00	Construction of embankment with material obtained from Roadway Cutting Construction of embankment with approved material deposite at site from roadway cutting and excavation from drain and foundation of other structure graded and compacted to meet equirement of table 300.1 and 300.2 as per technical specification clause 301.5	1171.870	Cum	141.780	166147.73
5.00	Construction of Embankment with Material Obtained from Borrow Pits Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5m transporting to site spreading grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000 m as per Technical Specification Clause 301.5	516.920	Cum	179.880	92983.57
6.00	Construction of Subgrade & Earthen Shoulder 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	1574.740	Cum	141.780	223266.64

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
7.00	Box Cutting For Pavement Construction Excavation for Roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers and transporting to the embankment location with a lift upto 1.5 m and lead upto 100 m as per technical specification clause 302.3	27.830	Cum	113.290	3152.86
8.00	Granular sub-base with Well graded material (Table 400.1) :- Construction of gravel 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. (For Grading I Material)	877.710	Cum	2677.300	2349892.98
9.00	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 405.80 -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.	322.920	Cum	3298.600	1065183.91
10.00	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 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502	4299.497	Sqm	33.522	144127.83
11.00	Surface Dressing using Bituminous Case I Providing and laying surface dressing as weaing couse consisting of a layer of bituminous binder laid on the prepared surface. Followed by a cover of crusehd stone chipping of specified size and rolling with 80-100 kN static roller including cleaning the road surface as per Technical Specification clause 507.	8476.130	Sqm	78.636	666531.47
12.00	Surface Dressing using Bituminous case II Providing and laying surface dressing as weaing couse consisting of a layer of bituminous binder laid on the prepared surface. Followed a cover of crusehd stone chipping of specified size and rolling with 80-100 kN static roller including cleaning the road surface as per Technical Specification clause 507.	8476.130	Sqm	68.276	578719.20

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
13.00	Construction of un-reinforced, plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer 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 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 slabs for 14-days, using curing compound (where specified) and water finishing to lines and grade as per drawing and Technical Specification Clause 1501	109.080	Cum	6783.600	739955.09
14.00	Brick masonry work in cement mortar in foundation complete excluding pointing and plastering as per drawing and technical specifications Clauses 600, 1202 & 1203	28.800	each	6331.530	182348.06
15.00	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)	2.000	each	2286.660	4573.32
16.00	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)	4.000	each	610.560	2442.24
17.00	Boundary Pillar Reinforced cement concete 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	23.000	each	504.770	11609.71
18.00	Paint on Parapet Wall (Block & White Strips) Painting two coats including primer coat after filling the surface with synthetic enamel paint in all shades on new plastered concrete surface as per drawing and Technical Specification Clause 1701	44.640	Sqm	97.030	4331.42
19.00	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 English and Roman (for	0.000	cm height per l	0.490	

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
20.00	Providing and fixing of typical MMSY 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	2.000	each	10679.930	21359.86
21.00	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 or properly designed foundation with M15 rade cement concrete 450 mm x 450 mm x 600 mm below ground level as per drawings and Technical Specification Clause 801 600 mm equilateral Triangle	8.000	each	3755.600	30044.80
22.00	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 or properly designed foundation with M15 rade cement concrete 450 mm x 450 mm x 600 mm below ground level as per drawings and Technical Specification Clause 801 600 mm 450 mm rectangular	7.000	each	5145.690	36019.83
23.00	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 or properly designed foundation with M15 rade cement concrete 450 mm x 450 mm x 600 mm below ground level as per drawings and Technical Specification Clause 801 900 mm side octagon	2.000	each	9833.940	19667.88
24.00	Painting lines dashes arrows etc on roads in two coats on new work with ready mixed road marking paint conforming to IS:164 on bituminous surface including cleaning the surface of all dirt dust and other foreign matter demarcation at side and traffice control as per drawing and technical specification clause 1702	206.000	Sqm	828.000	170568.00

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
25.00	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 :981997, 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 duct to be above higher than ground level to prevent entry of water and dirt, all as per IRC : 98-1007	14.000	Rmt	1685.530	23597.42
26.00	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 .	67.080	Cum	263.650	17685.64
27.00	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specification Clause 602,803, 1202 & 1203 PCC M - 15	5.300	Cum	5456.490	28919.40
28.00	Brick masonry work in cement mortar in foundation complete excluding pointing and plastering as per drawing and technical specifications clauses 600,1202&1203	33.220	Cum	6331.530	210333.43
29.00	Brick masonry work in cement mortar in substructure complete excluding pointing and plastering, as per drawing and technical specifications clauses 602,603,604,1202&1204	20.320	Cum	6613.900	134394.45
30.00	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	5.760	Cum	6570.190	37844.29
31.00	Plastering with cement mortar (1:4), 15 mm thick on brickwork in substructure as per technical specification clauses 613.4 & 1204	40.320	Sqm	171.050	6896.74
32.00	Providing and Laying Reinforced Cement Concrete Pipe NP3 1000 mm dia as per design in Single Row	15.000	R M	4140.250	62103.75
33.00	Type B (First Class) Bedding. Laying (First Class) bedding on well compacted sand, as per Clause 1105 (ii)	9.740	Cum	442.620	4311.12
34.00	Filling in foundation trench as per drawing and technical specification clause 305.3.9	15.270	Cum	442.620	6758.81
Total Construction Cost :					7073882.86
As Per Below 10%					707387.60
Total Construction Cost :					6366495.26

Sl. No.	Description of work	No.or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
35.00	Maintainance for 1st year	1.000	Year	44904.00	44904.00
36.00	Maintainance for 2nd year	1.000	Year	53081.00	53081.00
37.00	Maintainance for 3rd year	1.000	Year	119463.00	119463.00
38.00	Maintainance for 4th year	1.000	Year	146758.00	146758.00
39.00	Maintainance for 5th year	1.000	Year	175448.00	175448.00
Five Year Maintenance Cost :					539654.00
As Per Below 10%					53965.00
Five Year Maintenance Cost :					485689.00
Total Estimated Cost in Figures					6852184.26
Say Amount					68,52,184.00
Quoted Rate in Words					

2/3

Revised

B.O.Q. approved for Rs. 68,52,184.00
 Rupees.....Crore Sixty eight Lakh fifty two
 Thousand One Hundred Eighty four Only

2/3
 09-12-2022
 Superntending Engineer
 Rural Works Department
 Work Circle: Muzaffarpur
09/12/22