

C.E-3. RWD, Bihar, Patna. Latter No. 626/ Dated – 21.01.2020, S.B.D No:- 38/2019-20

Name of Contractor- **Dhirendra Construction Pvt. Ltd (Reg. No.1170003),
At- 318, Shri Krishna Nagar, Motihari, East
Champaran-845401, Bihar.
Mob. No. 9631196116**

Name of Work - **Construction of Road & CD Works with Maintenance from
PMGSY Path Prathamik Vidhalay Balochak to Turha
Tola Ghasi Pakar Via Dakshinwari Tola Ghasi Pakar
Jaldhari Sah Ke Ghar Anusuchit Jati Tola Tak Path
Nirman Road under MMGSY Gen.**

Construction Const- **Rs.10997745=00, (Rupees- One core nine lakhs ninety
seven thousand seven hundred forty five) only.**

Maintenance Const- **Rs.997882=00, (Rupees-Nine Lakhs ninety seven
thousand eight hundred eighty two) only.**

Agreement Value- **Rs.11995627=00 (One crore nineteen Lakhs ninety five
thousand six hundred twenty seven) only.**

Performance Security –(Required Amount) **Rs.287000=00 Rupees- (Two Lakhs
eighty seven thousand) only.**

Rate - **1.55 % (Below)**

Date of Work Order - **03-02-2020**

Item of Work - **1 TO 50**

Contract Date of Completion - **04-02-2021**

Dhirendra Construction Pvt. Ltd.

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Director

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कार्यपालक अभियंता
ग्रामीण कार्य विभाग
कार्य प्रमंडल, कटिया

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नरेश
65.03-2020



Tender Inviting Authority: CHIEF ENGINEER WORKS-I					
Name of Work: Construction of Road & CD Works of :- PMGSY Path Prathamik Vidyalay Balochak to Turha Tola Ghasi Pakar Via Dakshinwari Tola Ghasi Pakar Jaldhari Sah Ke Ghar Anusuchit Jati Tola , CNCPL No. : 12, Link No. : S057, Length -1.784 Km., Block -Chakla , District -East Champaran, UNDER MMGSY. Construction Cost of Road - 111.709 Lacs & 5 Years Maintenance Cost - 10.136 Lacs					
Contract No: Civil Works/					
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
1.00	Setting out(i) Construction of Reference & Working Benchmark = 2 Nos. & 8 Nos. RespectivelySOR Item No.-1.16	1.784	Per Km.	3974.190	7089.95
2.00	(ii) Construction of Reference Pillars/Burjees = 71 NosSOR Item No.-1.16	1.784	Per Km.	1822.020	3250.48
3.00	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.SOR Item No.-2.2	0.540	Hectare	49496.700	26728.22
4.00	Excavation for roadway in soil using manual means for carrying of out earth to embankment site with a lift up to 1.5 m and lead up to 50m as per Technical Specification Clause 302.3.SOR Item No.-3.5 (i)	130.830	cum	122.150	15980.88
5.00	Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.SOR Item No.-3.3	91.580	cum	36.170	3312.45
6.00	Construction of embankment with approved material obtained from borrow pits with a lift up to 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 up to 1000 m as per Technical Specification Clause 301.5SOR Item No.-3.4	2042.100	cum	175.110	357592.13
7.00	Construction of embankment with approved material obtained from borrow pits with a lift up to 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 up to 100 m as per Technical Specification Clause 301.5SOR Item No.-3.5 (ii)	510.530	cum	138.270	70590.96

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Director

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
8.00	Construction of granular sub-base by providing well graded material (Grading 1) , spreading in uniform layers with motor grader on prepared surface, minding by mix in place method with rolavator at OMC, and compacting with three wheel 80-100 kN static roller capacity to achieve the desired density, complete as per Technical Specification Clause 401SOR Item No.-4.1 401(Aii)	642.130	cum	2548.150	1634959.30
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.SOR Item No.-4.7 (3)(A)	384.510	cum	3108.470	1195237.80
10.00	Prime Coat 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 502SOR Item No.-5.1 (i)	2723.210	sqm	40.830	111188.66
11.00	Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503SOR Item No.-5.2 (iii) 503	2723.210	sqm	13.840	37689.23
12.00	Mix Seal Surfacing By Mechanical Means (Type-B) 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 minding 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 509SOR Item No.-5.11	2723.210	sqm	191.810	522338.91

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Joint Project Engineer
Road & Water - Mumbai

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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 leveling 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 1501SOR Item No.-6.4	650.550	cum	6842.000	4451063.10
14.00	Laying brick soling layer on prepared sub-grade with brick on, and 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 412SOR Item No -4.18	1065.000	sqm	420.950	445311.75
15.00	Earthwork excavation for foundation of structures as per drawing and technical specification clause 1104 including setting out, stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material. (A) Ordinary soil SOR Item No.-11.1 (I)	70.700	CUM.	260.590	18423.71
16.00	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 Nominal mix 1:2:5 with 40 mm and down graded material SOR Item No -11.4 (I) (I)	5.340	CUM.	5624.890	30036.91
17.00	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M15 SOR Item No.-11.4 (II)	49.020	Cum	5391.440	264288.39
18.00	Providing concrete for plain/reinforced concrete (M-20 Nominal mix 1:2:4) in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 Bed Portion SOR Item No -11.4 (III)	5.220	Cum	5957.320	31097.21
19.00	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications clauses 800, 900 and 1208.4 SOR Item No -13.9	5.960	CUM.	5671.250	33800.65
20.00	Plastering with cement mortar (1:4), 15 mm thick on brickwork in substructure as per technical specifications clauses 613.4 & 1204 SOR Item No -12.3	68.400	Sqm	168.790	11207.68
21.00	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification clause 1204.3.8 SOR Item No -12.10	68.780	CUM.	638.490	42638.36
22.00	Guide Post SOR Item No -	18.000	Nat	501.380	8022.08

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Director

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
23.00	Bedding for Type - B PCC(M20) Bedding Laying (First Class) bedding concrete as per clause 1105 (II) SOR Item No.-9.2	2.630	Cum	397.320	1044.95
24.00	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 Kilometre Stone (Precast) SOR Item No.-10.10 (I)	2.000	Cum	2208.240	4416.48
25.00	Providing and Laying Reinforced Cement Concrete Pipe NP3 1000 mm dia as per design in Single Row SOR Item No.-9.3	15.000	m	3788.170	56822.55
26.00	Dismantling of Structures Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per Technical Specification Clause 202. By Manual Means Plain Cement Concrete SOR Item No.-2.5 I (B)	1.200	cum	463.250	555.90
27.00	Dismantling of Structures Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 m as per Technical Specification Clause 202. By Manual Means Rubble stone masonry in cement SOR Item No.-2.5 III (B)	34.660	cum	332.960	11540.39
28.00	Removing all types of Hume pipes and stacking within a lead of 1000 m including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202. Upto 600 mm dia Hume pipe SOR Item No.-2.13 A	10.000	cum	169.110	1691.10
29.00	Providing and laying reinforced cement concrete pipe NP4 for culverts on first class bedding of granular 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 clause 1106. SOR Item No.-9.3(C)	37.500	m	850.540	31895.25
30.00	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 SOR Item No.-10.1(III) 200m Stone (Pre-cast)	7.000	No.	610.070	4270.49

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Director

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
31.00	Boundary Pillar 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 1704A1 outer side of H-Curve & @ 1.50m c/c both side at high embankment SOR Item No.-10.11	27.000	No.	501.380	13537.26
32.00	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 SOR Item No.-10.16	2.000	No.	11021.680	22043.36
33.00	Maintenance Board	1.000	No.	11021.680	11021.68
34.00	MMGSY Logo Board	1.000	No.	11021.680	11021.68
35.00	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 SOR Item No.-10.2 A (1)(ii) 600 mm equilateral triangle	16.000	No.	3545.590	56729.44
36.00	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 SOR Item No.-10.2 A (1)(viii) Speed Limit (600 MM Circular)	4.000	No.	4691.730	18766.92

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Sl. No.	Description of work	No. or Qty.	Unit	Estimated Rate	AMOUNT Rs. P
				Figure	
37.00	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 SOR Item No.-10.2 A (1) Hectometer Post	2.000	No	5514.380	11028.76
38.00	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 SOR Item No.-10.2 A (1) (v) 600 mm x 450 mm rectangular	4.000	No.	4645.810	18583.24
39.00	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. SOR Item No.-8.13	143.800	sqm	735.400	105750.52
40.00	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.	213.000	sqm	820.580	174783.54
41.00	Rumble Strips (Provision of 15 nos rumble strips covered with MSS bituminous carpet, 15-20 mm high at center, 250 mm wide placed at 1 m center to center at approved locations to control speed, marked with white strips of road marking paint.)	28.125	sqm	191.810	5394.66
42.00	Add 1% Labour Cess	1.000	No	98857.000	98857.00
43.00	Add 12% GST	1.000	No	1186290.000	1186290.00
Total Construction Cost :					11170893.98
44.00	Maintainance for 1st year	1.000	Year	37539.00	37539.00
45.00	Maintainance for 2nd year	1.000	Year	48692.00	48692.00
46.00	Maintainance for 3rd year	1.000	Year	349550.00	349550.00
47.00	Maintainance for 4th year	1.000	Year	84481.00	84481.00
48.00	Maintainance for 5th year	1.000	Year	376723.00	376723.00
49.00	Add 1% Labour Cess	1.000	No	8970.00	8970.00
50.00	Add 12% GST	1.000	No	107638.00	107638.00
Five Year Maintenance Cost :					1013593.00

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Dhirendra Construction Pvt. Ltd.

Director

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