

**MUKHYA MANTRI GRAM SAMPRAK YOJANA ( MMGSY)  
NDB (AWSESH) TRANCHE -I**

**BILL OF QUANTITIES (BOQ) - CONSTRUCTION**

Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark/Refrence Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I				
	Benchmark Pillars 01 nos. per km	No	1.00	4,414.44	4414.44
2	Refrence Pillars 04 nos. per km	No	1.00	2,044.11	2044.11
3	<b>Clearing and Grubbing Road Land</b> 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 exeeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I ( By Manual Means) In area of non-thorny jungle	Hect.	0.32	75,573.34	24183.47
4	<b>Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps</b> Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per Technical Specification Clause 201.7				
	<b>Lead upto 1000M</b>				
	Girth above 300 mm to 600 mm	Each	2.00	357.26	714.52
5	<b>Box Cutting :-</b> 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	Cum	70.53	103.96	7332.30
6	<b>Construction of Embankment with Material Obtained from Roadway Cutting</b> Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet equirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.	Cum	42.32	63.01	2666.58
7	<b>Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m as per Technical Specification Clause 301.5</b>	Cum	1265.74	177.64	224846.05

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Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	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 & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	Cum	333.26	264.63	88190.59
9	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 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)	Cum	269.00	2,972.71	799658.99
10	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	Cum	130.53	4,658.05	608015.27
11	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 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	1740.38	59.05	102769.44
12	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	1740.38	20.21	35173.08
13	Mix Seal Surfacing 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 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	Sam	1740.38	267.88	466212.99

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Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES				
14	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)	Each	1.00	2,742.83	2742.83
15	200 m stone (precast)	Each	2.00	781.18	1562.36
16	(I)Providing and Fixing 'Logo' of MMGSY Project :-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	Each	4.00	11,399.17	45596.68
17	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	per cm height per letter	176.00	0.75	132.00
18	Boundry 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	No	36.00	740.39	26654.04

Approved as Competent



Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
19	<b>Retro-reflectorised Traffic Signs :-</b> 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				
20	600 mm equilateral & triangle	Each	4.00	4,153.25	16613.00
21	600 mm circular	Each	2.00	5,576.98	11153.96
22	600 mm x 450 mm rectangular	Each	2.00	5,431.25	10862.50
23	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface :-</b> 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.	Sqm	91.00	886.46	80667.86
24	<b>Rumble Strips :-</b> Provision of 15 nos rumble strips covered with premix 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. Premix Bituminous Carpet	Sqm	6.75	267.88	1808
25	Road Marking Paint.	Sqm	6.75	886.46	5984
26	Planting of tree by the road side (Avenue Tree) in 0.6 m dia holes, 1 m deep dug in the Ground, Mixing the soil with decayed farm yard/ slug manure, planting the saplings back filling the trench, watering, fixing the tree guard & maintain the Plant for One Year.	No.	45.50	1,288.76	58638.58
	<b>Cross Drainage</b>				
27	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	105.06	398.62	41879.02
28	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	16.65	6,402.19	106596.46



Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
29	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 PCC M-20 Grade	Cum	95.09	7,395.98	703283.74
30	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	Sqm	74.40	137.83	10254.55
31	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	RM	22.50	7,560.28	170106.30
32	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	RM	7.50	3,202.54	24019.05
<b>300MM Irrigation Pipe</b>					
33	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 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.	RM	20.00	1,008.35	20167.00
<b>Dismanteling</b>					
34	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.				
	Cement Concrete	Cum	2.40	683.75	1641.00

Approved as Corrected

Name of Road :	Jamhor Pasiya Path To Dudola				
Block :	Barun	District :	Aurangabad		
Length :	0.455 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
35	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	69.32	319.41	22141.50
36	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Upto 600 mm dia Hume pipe	RM	30.00	258.7	7761.00
	Total				3736487.1
	GST @18%				672567.7
	L.C @1%				37364.9
	Seigniorage Fee @ 10%				63111.1
	Total Construction(A)				4509530.7
37	1st Year Maintenance cost	Year	1.00	30396.00	30396.0
38	2nd Year Maintenance cost	Year	1.00	38103.00	38103.0
39	3rd Year Maintenance cost	Year	1.00	151856.00	151856.0
40	4th Year Maintenance cost	Year	1.00	72158.00	72158.0
41	5th Year Maintenance cost	Year	1.00	95910.00	95910.0
	Total				388423.0
	GST @18%				69916.1
	L.C @1%				3884.2
	Seigniorage Fee @ 10%				39334.3
	Total Maintenance (B)				501557.6
	Grand Total Cost (A+B)				5011088.4

Bill Of Quantity approved as corrected

for item No. 01 to 41 for Rs 5011088.00

(Rupees Fifty. lacs eleven thousand and eighty eight)  
including five year maintenance

14.10.23  
EE  
PWD (W) D.M.  
Aurangabad

14.10.2023  
Superintending Engineer  
Rural Works Department  
Work Circle, Aurangabad



MUKHYA MANTRI GRAM SAMPRAK YOJANA ( MMGSY)					
NDB(AWSESH) TRANCHE -I					
BILL OF QUANTITIES (BOQ) - CONSTRUCTION					
Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark/Refrence Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I				
	Benchmark Pillars 01 nos. per km	No	1.00	4,411.56	4411.56
2	Refrence Pillars 04 nos. per km	No	1.00	2,041.79	2041.79
3	<b>Clearing and Grubbing Road Land</b> 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 exeeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I ( By Manual Means) In area of non-thorny jungle	Hect.	0.24	75,573.34	18137.60
4	<b>Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps</b> Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per Technical Specification Clause 201.7 <b>Lead upto 1000M</b> Girth above 300 mm to 600 mm	Each	2.00	357.26	714.52
5	<b>Removal of Telephone/Electric Poles and Lines</b> Removal of telephone/electric poles with wires including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and upto a lead of 1000 m and stacking the serviceable	No	4.00	252.07	1008.28
6	<b>Box Cutting :-</b> 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	Cum	42.50	103.96	4418.30

Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
7	<b>Construction of Embankment with Material Obtained from Roadway Cutting</b> Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.	Cum	25.50	63.01	1606.75
8	<b>Construction of embankment</b> with approved material obtained from borrow pits with a lift upto 1.5 m, 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	Cum	826.98	261.09	215916.21
9	<b>Construction of subgrade and earthen shoulders</b> 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 & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess)	Cum	85.43	264.63	22607.34
10	<b>Granular Sub-base with Well Graded Material (Table 400.1) :-</b> 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. (For Grading I Material)	Cum	51.85	2,922.30	151521.26
11	<b>WBM Grading 3 :-</b> 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.	Cum	97.54	4,547.30	443543.64

Approved as Corrected



Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
12	<b>Cement Concrete Pavement M30</b> 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.				
		Cum	208.08	7,340.96	1527506.96
13	<b>Hard Shouldering :-</b> 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 rolliing the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412				
		sqm	170.00	518.24	88100.80

Approved as per attached

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Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES				
14	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)	Each	2.00	2,737.23	5474.46
15	200 m stone (precast)	Each	1.00	789.08	789.08
16	(I)Providing and Fixing 'Logo' of MMGSY Project :-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	Each	4.00	11,384.54	45538.16
17	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	per cm height per letter	44.00	0.75	33.00
18	Boundry 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	No	12.00	746.6	8959.20

Approved as Permitted

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Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
19	<b>Retro-reflectorised Traffic Signs :-</b> 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	Each	2.00	4,145.94	8291.88
20	600 mm circular	Each	2.40	5,569.67	22278.68
21	600 mm x 450 mm rectangular	Each	2.00	5,423.93	10847.86
22	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Concrete Surface :-</b> 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.				
		Sqm	68.00	1,005.35	68363.80
23	<b>Rumble Strips :-</b> Provision of 15 nos rumble strips covered with premix 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.				
	Premix Bituminous Carpet	Sqm	13.50	270.62	3653
24	Road Marking Paint.	Sqm	13.50	886.46	11967
	<b>Cross Drainage</b>				
25	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	29.80	398.62	11878.88
26	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	4.60	6,344.13	29183.00
27	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 PCC M-20 Grade	Cum	27.65	7,326.09	202566.39

Approved as *[Signature]*

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Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
28	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	Sqm	20.64	137.83	2844.81
29	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	RM	7.50	7,442.87	55821.53
	<b>300MM Irrigation Pipe</b>				
30	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 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.	RM	20.00	988.8	19776.00
	<b>Dismanteling</b>				
31	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.				
	Cement Concrete	Cum	0.60	683.75	410.25
32	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	17.33	319.41	5535.38

12



Name of Road :	Sunderganj Jamhor Path To Bhola Bigha				
Block :	Barun	District :	Aurangabad		
Length :	0.340 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
33	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Upto 600 mm dia Hume pipe	RM	7.50	258.7	1940.25
				<b>2997688.26 Total</b>	<b>2997688.2</b>
				<b>539583.9 GST 18%</b>	<b>539583.9</b>
				<b>29976.9 L.C 1%</b>	<b>29976.9</b>
				<b>53415.5 Seigniorage Fee @ 10%</b>	<b>53415.5</b>
				<b>3620664.5 Total Construction(A)</b>	<b>3620664.5</b>
34	1st Year Maintenance cost	Year	1.00	8451.00	8451.0
35	2nd Year Maintenance cost	Year	1.00	10028.00	10028.0
36	3rd Year Maintenance cost	Year	1.00	82417.00	82417.0
37	4th Year Maintenance cost	Year	1.00	12567.00	12567.0
38	5th Year Maintenance cost	Year	1.00	16787.00	16787.0
				<b>Total</b>	<b>130250.0</b>
				<b>23445.0 GST 18%</b>	<b>23445.0</b>
				<b>1302.5 L.C 1%</b>	<b>1302.5</b>
				<b>353.9 Seigniorage Fee @ 10%</b>	<b>353.9</b>
				<b>Total Maintenance (B)</b>	<b>155351.4</b>
				<b>3776015.9 Grand Total Cost (A+B)</b>	<b>3776015.9</b>

mpd/NTS  
14-10-23  
EE  
RWD INDDIV  
Aurangabad

Quantity approved as corrected

for item No. 01 to 38 for Rs. 3744172.00

Rupees Thirty seven lacs forty four thousand and one hundred (Seventy two) only.  
including five year maintenance

14.10.2023

Superintending Engineer  
Rural Works Department  
Work Circle, Aurangabad

MUKHYA MANTRI GRAM SAMPRAK YOJANA ( MMGSY)					
NDB (AWSESH) TRANCHE -I					
BILL OF QUANTITIES (BOQ) - CONSTRUCTION					
Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark/Refrence Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I				
	Benchmark Pillars 01 nos. per km	No	2.00	4,415.11	8830.22
2	Refrence Pillars 04 nos. per km	No	4.00	2,043.10	8172.40
3	<b>Clearing and Grubbing Road Land</b> 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 exeeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I ( <b>By Manual Means</b> ) In area of non-thorny jungle	Hect.	0.74	75,573.34	55924.27
4	<b>Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps</b> Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per Technical Specification Clause 201.7 <b>Lead upto 1000M</b>				
	Girth above 300 mm to 600 mm	Each	3.00	357.26	1071.78
5	<b>Removal of Telephone/Electric Poles and Lines</b> Removal of telephone/electric poles with wires including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and upto a lead of 1000 m and stacking the serviceable	No	5.00	252.07	1260.35
6	<b>Box Cutting :-</b> 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	Cum	35.70	103.96	3711.37
7	<b>Construction of Embankment with Material Obtained from Roadway Cutting</b> Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet equirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.	Cum	21.42	63.01	1349.67

2



Name of Road :	Sundargarj Azad Bigha path To Sundargarj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	Construction of embankment with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m as per Technical Specification Clause 301.5	Cum	1499.87	177.64	266436.91
9	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 & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	Cum	2318.84	264.63	613634.63
10	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 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)	Cum	770.61	2,899.38	2234291.22
11	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.	Cum	301.22	4,491.94	1353062.17
12	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 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	4016.25	58.99	236918.59
13	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	4016.25	20.19	81088.09

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Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadallit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
14	Mix Seal Surfacing Type B. Providing, laying and rolling of close-graded premix surfacing material of 20 mm thickness composed of 11.2 mm to 0.6 mm (Type-A) or 13.2 mm to 0.6 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 kW static roller and finishing to required level and grades as per Technical Specification Clause 509	Sqm	4016.25	264.65	1062900.56
	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES				
15	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)	Each	2.00	2,722.14	5444.28
16	200 m stone (precast)	Each	4.00	777.4	3109.60
17	(I) Providing and Fixing 'Logo' of MMGSY Project :-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	Each	4.00	11,379.92	45519.68

Approved as Corrected

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Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
18	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	per cm height per letter	220.00	0.75	165.00
19	<b>Boundry Pillar/ Guard Post</b> 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	No	56.00	738.63	41363.28
20	<b>Retro-reflectorised Traffic Signs :-</b> 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			Approved by Competent Authority <i>hm</i>	
	600 mm equilateral & triangle	Each	10.00	4,143.63	41436.30
21	600 mm circular	Each	4.00	5,567.36	22269.44
22	600 mm x 450 mm rectangular	Each	2.00	5,421.62	10843.24
23	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface :-</b> 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.	Sqm	210.00	886.46	186156.60
24	<b>Rumble Strips :-</b> Provision of 15 nos rumble strips covered with premix 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.				
	Premix Bituminous Carpet	Sqm	13.50	264.65	3573
25	Road Marking Paint.	Sqm	13.50	886.46	11967
26	Planting of tree by the road side (Avenue Tree) in 0.6 m dia holes, 1 m deep dug in the Ground, Mixing the soil with decayed farm yard/ slug manure, planting the saplings back filling the trench, watering, fixing the tree guard & maintain the Plant for One Year.	No.	105.00	1,288.76	135319.80

2



Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	Cross Drainage				
27	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	209.72	398.62	83598.59
28	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	29.90	6,325.79	189141.12
29	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-20 Grade	Cum	39.91	7,005.66	279595.89
30	Supplying, fitting and placing HYSD bar reinforcement in foundation complete as per drawings and technical specifications Clauses 1000 and 1202	MT	0.24	74,879.08	17970.98
31	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 PCC M-20 Grade	Cum	137.71	7,303.17	1005719.54
32	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 614, 709, 1204.3.7	Nos	66.00	143.92	9498.72
33	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 RCC M-25 Grade	Cum	23.55	7,950.74	187239.93
34	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	MT	2.80	75,087.70	210245.56
35	Backfilling behind abutment, wing wall and return wall complete as per drawings & technical specification Clause 1204.3.8 (With Sandy Materials )	Cum	95.88	944.16	90526.06
36	Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 RCC M-30 Grade	Cum	9.23	8,707.93	80374.19
37	Supplying, fitting, and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications Clauses 1002, 1010 and 1202	MT	0.83	76,610.58	63586.78

Approved as Corrected



Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
38	Parapet Construction Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204 ( M20 )	Cum	1.82	7,303.17	13291.77
39	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	Sqm	95.68	137.83	13187.57
40	Drainage spouts complete as per drawing and technical specifications Clause 1209	Nos	4.00	277.08	1108.32
41	Providing and laying cement concrete wearing course M 30 grade including reinforcement complete as per drawing and technical specifications Clauses 800 and 1206.3	CUM	1.69	15,872.73	26824.91
42	Approch slab(M 30) : Providing and laying reinforced cement concrete in superstructure as per drawing and technical specifications Clauses 800, 1205.4 and 1205.5 RCC M-30 Grade	CUM	6.30	12,538.46	78992.30
43	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204. ( M15 (PCC 1:2.5:5)	CUM	3.15	6,838.61	21541.62
44	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	RM	30.00	7,474.34	224230.20
<b>300MM Irrigation Pipe</b>					
45	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 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.	RM	30.00	994.06	29821.80

Approved as Per  
LM

Approved as per drawing

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2



Name of Road :	Sundarganj Azad Bigha path To Sundarganj Mahadalit Tola				
Block :	Barun	District :	Aurangabad		
Length :	1.050 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	Dismanteling				
46	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.				
	Cement Concrete	Cum	3.29	683.75	2249.54
47	Reinforced Cement Concrete	Cum	4.20	1,584.69	6655.70
48	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	65.35	319.41	20873.44
49	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Upto 600 mm dia Hume pipe	RM	17.50	258.7	4527.25
	Total				9096621.2
	GST 18%				1637391.8
	L.C 1%				90966.2
	Seigniorage Fee @ 10 %				157840.3
	Total Construction(A)				10982819.6
50	1st Year Maintenance cost	Year	1.00	61923.00	61923.0
51	2nd Year Maintenance cost	Year	1.00	79629.00	79629.0
52	3rd Year Maintenance cost	Year	1.00	327365.00	327365.0
53	4th Year Maintenance cost	Year	1.00	156662.00	156662.0
54	5th Year Maintenance cost	Year	1.00	197402.00	197402.0
	Total				822981.0
	GST 18%				148136.6
	L.C 1%				8229.8
	Seigniorage Fee @ 10 %				90771.4
	Total Maintenance (B)				1070118.8
	Grand Total Cost (A+B)				12052938.3

Bill of Quantity approved as corrected

for Item No. 01 to 54 for Rs. 12052938.00

(Rupees One crore twenty lacs fifty two thousand and nine hundred thirty eight) only including five year maintenance

14/10/23  
EE  
RWD(W) Div  
Approved  
14.10.2023  
Superintending Engineer  
Rural Works Department  
Work Circle, Aurangabad



MUKHYA MANTRI GRAM SAMPRAK YOJANA ( MMGSY)					
NDB(AWSESH) TRANCHE -I					
BILL OF QUANTITIES (BOQ) - CONSTRUCTION					
Name of Road :	L021 To Saya PMGSY Road To Saya Blgha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark/Refrence Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I				
	Benchmark Pillars 01 nos. per km	No	2.00	4,471.12	8942.24
2	Refrence Pillars 04 nos. per km	No	5.00	2,073.14	10365.70
3	<b>Clearing and Grubbing Road Land</b> 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 exeeding 150mm in thickness as per technical specification - clause 201.1 and direction of E/I ( By Manual Means) In area of non-thorny jungle	Hect.	0.88	75,573.34	66504.54
4	<b>Box Cutting :-</b> 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	Cum	186.25	103.96	19362.55
5	<b>Construction of Embankment with Material Obtained from Roadway Cutting</b> Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet equirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.	Cum	111.75	63.01	7041.37
6	<b>Construction of embankment</b> with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m as per Technical Specification Clause 301.5	Cum	2677.40	177.64	475613.34
7	<b>Construction of embankment</b> with approved material obtained from borrow pits with a lift upto 1.5 m, 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	Cum	651.29	261.09	170045.31

Approved as per Bill

Name of Road :	L021 To Saya PMGSY Road To Saya Bigha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	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 & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	Cum	855.24	264.63	226322.16
9	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 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)	Cum	598.95	3,114.76	1865585.50
10	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	Cum	358.60	4,824.17	1729947.36
11	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 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	3825.00	59.11	226095.75
12	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	3825.00	20.23	77379.75
13	Mix Seal Surfacing 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 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	Sqm	3825.00	271.11	1036995.75

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Name of Road :	L021 To Saya PMGSY Road To Saya Blgha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
14	<b>Cement Concrete Pavement M30</b> 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.	Cum	153.00	7,592.18	1161603.54
15	<b>Hard Shouldering :-</b> 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 rolliing the same with three wheel road roller 80-100 kN as per Technical Specification Clause 412	sqm	125.00	518.24	64780.00
	<b>TRAFFIC SIGNS, MARKINGS &amp; OTHER ROAD APPURTENANCES</b>				
16	<b>Kilometre Stone</b> 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)	Each	3.00	2,789.38	8368.14
17	200 m stone (precast)	Each	5.00	789.58	3947.90

Name of Road :	L021 To Saya PMGSY Road To Saya Bigha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
18	<u>(I)Providing and Fixing 'Logo' of MMGSY Project :-</u> 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	Each	4.00	11,442.61	45770.44
19	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	per cm height per letter	220.00	0.75	165.00
20	<b>Boundry Pillar/ Guard Post</b> 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	No	60.00	744.28	44656.80
21	<b><u>Retro-reflectorised Traffic Signs :-</u></b> 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	Each	6.00	4,174.97	25049.82
22	600 mm circular	Each	5.00	5,598.70	27993.50
23	600 mm x 450 mm rectangular	Each	3.00	5,452.97	16358.91

2



Name of Road :	L021 To Saya PMGSY Road To Saya Bigha				
Block :	Nablnagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
24	<u>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface</u> :- 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.	Sqm	200.00	886.46	177292.00
25	<u>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Conctete Surface</u> :- 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.	Sqm	50.00	1,005.35	50267.50
26	<u>Rumble Strips</u> :- Provision of 15 nos rumble strips covered with premix 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. Premix Bituminous Carpet	Sqm	16.88	271.11	4576
27	Road Marking Paint.	Sqm	16.88	886.46	14963
28	Planting of tree by the road side (Avenue Tree) in 0.6 m dia holes, 1 m deep dug in the Ground, Mixing the soil with decayed farm yard/ slug manure, planting the saplings back filling the trench, watering, fixing the tree guard & maintain the Plant for One Year.	No.	100.00	1,288.76	128876.00
	<b>Cross Drainage</b>				
29	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	149.00	398.62	59394.38
30	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	23.00	6,574.58	151215.34
31	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 PCC M-20 Grade	Cum	138.25	7,579.95	1047928.09

Approved as Corrected

2



Name of Road :	L021 To Saya PMGSY Road To Saya Bigha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
32	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	Sqm	103.20	137.83	14224.06
33	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	RM	37.50	7,592.77	284728.88
	<b>300MM Irrigation Pipe</b>				
34	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 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.	RM	30.00	1,013.78	30413.40
35	Plastering with cement mortar (1:4 ) on brick work in sub-structure as per Technical Specifications	sqm	21.12	201.96	4265.40
	<b>Dismanteling</b>				
36	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.				
	Cement Concrete	Cum	2.61	683.75	1784.59
37	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	75.26	319.41	24038.80

*Approved as Corrected*



Name of Road :	L021 To Saya PMGSY Road To Saya Bigha				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.250 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
38	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Upto 600 mm dia Hume pipe	RM	42.50	258.7	10994.75
	Total				9323858.3
	GST 18%				1678294.5
	L.C 1%				93238.6
	Seigniorage Fee @ 10%				164329.5
	Total Construction(A)				11259720.8
39	1st Year Maintenance cost	Year	1.00	65913.00	65913.0
40	2nd Year Maintenance cost	Year	1.00	84134.00	84134.0
41	3rd Year Maintenance cost	Year	1.00	375519.00	375519.0
42	4th Year Maintenance cost	Year	1.00	162281.00	162281.0
43	5th Year Maintenance cost	Year	1.00	205118.00	205118.0
	Total				892965.0
	GST 18%				160733.7
	L.C 1%				8929.7
	Seigniorage Fee @ 10%				86709.2
	Total Maintenance (B)				1149337.5
	Grand Total Cost (A+B)				12409058.4

an/14/11  
14-10-23  
EE

RWDW/DIV  
Aurangabad

Bill of Quantity approved as corrected  
for item No. 1 to 43 for Rs 12409058.00  
(Rupees One crore twenty four lacs nine thousands  
including five year maintenance and fifty eight) only

14.10.2023  
Superintending Engineer  
Rural Works Department  
Work Circle, Aurangabad

MUKHYA MANTRI GRAM SAMPRAK YOJANA ( MMGSY)					
NDB (AWSESH) TRANCHE -I					
BILL OF QUANTITIES (BOQ) - CONSTRUCTION					
Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark/Refrence Pillars 01 nos. per km & 04 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I				
	Benchmark Pillars 01 nos. per km	No	2.00	4,436.51	8873.02
2	Refrence Pillars 04 nos. per km	No	5.00	2,056.10	10280.50
3	<b><u>Clearing and Grubbing Road Land</u></b> 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 ( By Manual Means) In area of non-thorny jungle	Hect.	0.89	75,573.34	67260.27
4	<b><u>Cutting of Trees including Cutting of Trunks, Branches and Removal of Stumps</u></b> Cutting of trees, including cutting of trunks, branches and removal of stumps & roots, refilling, compaction of backfilling and stacking of serviceable material by manual means with all lifts as per Technical Specification Clause 201.7				
	<b><u>Lead upto 1000M</u></b>				
	Girth above 300 mm to 600 mm	Each	4.00	357.26	1429.04
5	<b><u>Removal of Telephone/Electric Poles and Lines</u></b> Removal of telephone/electric poles with wires including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and upto a lead of 1000 m and stacking the serviceable and unserviceable material separately as per Technical Specification Clause 202.	No	13.00	252.07	3276.91
6	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.				
	Reinforced Cement Concrete	Cum	22.50	683.75	15384.38
7	<b><u>Box Cutting :-</u></b> 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	Cum	5.63	103.96	585.29

Approved as Competent  
by



Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
8	<b>Construction of Embankment with Material Obtained from Roadway Cutting</b> Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Tables 300.1 and 300.2 as per Technical Specification Clause 301.5.	Cum	3.38	63.01	212.97
9	<b>Construction of embankment</b> with approved material obtained from borrow pits with a lift upto 1.5 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m as per Technical Specification Clause 301.5	Cum	547.04	177.64	97176.19
10	<b>Construction of embankment</b> with approved material obtained from borrow pits with a lift upto 1.5 m, 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	Cum	1778.07	261.09	464236.30
11	<b>Construction of subgrade and earthen shoulders</b> 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 & 100 m as per Technical Specification Clause 303.1. (Including Royalty & Labour Cess).	Cum	1837.56	264.63	486273.50
12	<b>Granular Sub-base with Well Graded Material (Table 400.1) :-</b> 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. (For Grading I Material)	Cum	717.60	3,062.83	2197886.81
13	<b>WBM Grading 3 :-</b> 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.	Cum	364.33	4,805.72	1750867.97
14	<b>Prime Coat (Low Porosity) :-</b> 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 0.70-1.0kg/sqm using mechanical means as per Technical Specification Clause 502	Sqm	2180.25	59.1	128852.78

2



Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
15	Tack Coat:- Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25-0.30kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.	Sqm	2180.25	20.23	44106.46
16	Mix Seal Surfacing 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 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	Sqm	2180.25	270.75	590302.69
17	Cement Concrete Pavement M30 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.	Cum	428.40	7,529.17	3225496.43
18	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	sqm	350.00	518.24	181384.00

2



Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	TRAFFIC SIGNS, MARKINGS & OTHER ROAD APPURTENANCES				
19	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)	Each	2.00	2,771.83	5543.66
20	200 m stone (precast)	Each	5.00	786.46	3932.30
21	(I)Providing and Fixing 'Logo' of MMGSY Project :- 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	Each	4.00	11,426.19	45704.76
22	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	per cm height per letter	220.00	0.75	165.00
23	Boundry 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	No	64.00	742.85	47542.40
24	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 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	Each	14.00	4,166.76	58334.64
25	600 mm circular	Each	6.00	5,590.49	33542.94
26	600 mm x 450 mm rectangular	Each	1.00	5,444.76	5444.76



Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
27	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface</b> :- 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.	Sqm	114.00	886.46	101056.44
28	<b>Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Conctete Surface</b> :- 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.	Sqm	140.00	1,005.35	140749.00
29	<b>Rumble Strips</b> :- Provision of 15 nos rumble strips covered with premix 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.				
	Premix Bituminous Carpet	Sqm	20.25	270.75	5483
30	Road Marking Paint.	Sqm	20.25	886.46	17951
31	Planting of tree by the road side (Avenue Tree) in 0.6 m dia holes, 1 m deep dug in the Ground, Mixing the soil with decayed farm yard/ slug manure, planting the saplings back filling the trench, watering, fixing the tree guard & maintain the Plant for One Year.	No.	57.00	1,288.76	73459.32
	<b>Cross Drainage</b>				
32	Earth work in excavation for foundation of structures upto 3.0 m depth as per drawing and technical specification clause 1104	Cum	106.58	398.62	42484.92
33	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 PCC M-15 Grade	Cum	17.75	6,509.41	115542.03
34	Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 ans 1204 PCC M-20 Grade	Cum	91.72	7,516.94	689453.74
35	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	Sqm	78.72	137.83	10849.98

Approved as Corrected

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12



Name of Road :	Siris Nabinagar Road To Blsao				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
36	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	RM	15.00	7,584.19	113762.85
37	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	RM	22.50	3,212.19	72274.28
	<b>300MM Irrigation Pipe</b>				
38	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 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.	RM	30.00	1,012.33	30369.90
	<b>Dismanteling</b>				
39	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.			Approved as per by	
	Cement Concrete	Cum	1.20	683.75	820.50
40	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of brick masonry, including disposal of unserviceable material and stacking the serviceable material with all lift and lead of 1000 m as per Technical Specification Clause 202.				
	Cement mortar	Cum	34.66	319.41	11070.75

Name of Road :	Siris Nabinagar Road To Bisae				
Block :	Nabinagar	District :	Aurangabad		
Length :	1.270 km				
Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
41	Removing all types of Hume pipes and stacking including Earthwork and Dismantling of Masonry Works as per Technical Specification Clause 202.				
	Upto 600 mm dia Hume pipe	RM	15.00	258.7	3880.50
	Total				10903303.7
	GST 18%				1962594.7
	L.C 1%				109033.0
	Seigniorage Fee @ 10%				202091.2
	Total Construction(A)				13177022.5
42	1st Year Maintenance cost	Year	1.00	52370.00	52370.0
43	2nd Year Maintenance cost	Year	1.00	65130.00	65130.0
44	3rd Year Maintenance cost	Year	1.00	351503.00	351503.0
45	4th Year Maintenance cost	Year	1.00	113949.00	113949.0
46	5th Year Maintenance cost	Year	1.00	146711.00	146711.0
	Total				729663.0
	GST 18%				131339.3
	L.C 1%				7296.6
	Seigniorage Fee @ 10%				50004.6
	Total Maintenance (B)				918303.5
	Grand Total Cost (A+B)				14095326.1

all Qty approved as corrected

for item No. 01 to 46 for Rs. 14095326.00

(Rupees One Crore forty lacs ninety five thousand and three hundred twenty six) only including five year maintenance

27/10/23  
14.10.23

EEI

RWD(W)DJV

Aurangabad

14.10.2023

Superintending Engineer  
Rural Works Department  
Work Circle, Aurangabad