

Name of
Road:-

Masaudhi Okari Road to Jhakar

UNDER MMGSY
REVISED BILL OF QUANTITIES (BOQ) - CONSTRUCTION

Block : Modanganj

Length : 1.603 km

District :

Jahanabad

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Providing & Fixing of Working benchmark Pillars 4 nos. per km & 40 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I (i) Construction of Working Benchmark	Each	2.00	3630.39	7260.78
2	Providing & Fixing of Working benchmark Pillars 4 nos. per km & 40 Nos. of reference pillars required for 1 Km. as per drawings given and direction of E/I (i) Construction of Working Benchmark	Each	6.00	1656.12	9936.72
3	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	ha	0.96	51161.75	49115.28
4	Dismantling of existing structures, like culverts, bridge, retaining wall and other structures comprising of brick masonry including unserviceable material and stacking the serviceable material with all lift and lead of 1000m as per technical specification clause 202. b) Dismantling Brick Massonary From culvert	Cum	51.99	345.55	17965.14
5	Dismantling of existing structures, like culverts, bridge, retaining wall and other structures comprising of brick masonry including unserviceable material and stacking the serviceable material with all lift and lead of 1000m as per technical specification clause 202. b) Cement Concrete	Cum	1.80	480.21	864.38
6	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	RM	15.00	174.78	2621.70
7	(i) Excavation in soil using Hydraulic Excavator and Tippers With Disposal up to 1000m Excavation for Road work in soil with hydraulic Excavator of 0.9 cum bucket capacity including cutting and loading in tippers trimming bottom and side slops, in accordance with requirements of lines, grades and cross-section, and transporting to the embankments location as per Technical specification clause 302.3	Cum	171.47	74.16	12716.22
8	Construction of embankment with approved material deposited from road way cutting and excavation from drain and foundation of other structures and excavated with an average lead of 100 m graded and compacted to meet requirement of tables 300.1 and 300.2 as per technical specification clause 301.5 (Including Royalty & Labour Cess).	Cum	102.88	55.57	5717.04
9	Construction of embankment with approved materials deposited at site and obtained 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 with a lift upto 1000m	Cum	726.59	188.05	136635.25

B.O.O approved as Corrected

Sanjeet Kumar

UNDER MMGSY

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Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
10	Construction of Embankment with material obtained from borrow pits with a lift upto 1.5 m, transporting to the site spreading, grading to required slope and compacting to meet requirement of Tables 300.1 and 300.2 with a lead upto 100 m & 100m as per Technical Specification Clause 301.5, with a lift upto 100 m	Cum	3638.49	170.62	620799.15
11	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	Cum	1245.94	235.98	294016.92
12	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with	Cum	798.14	2157.21	1721755.59
13	WBM Grading 3 (By Mechanical Means) :-Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with three wheel 80-100 kN static roller in stages to proper grade and camber, applying and brooming, 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. With Stone Screening	Cum	459.86	2828.55	1300722.86
14	Prime Coat (Low porosity) :-Providing and applying primer coat with Bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70- 1.0 kg/sqm using mechanical means as per Technical Specification Clause 502.	Sqm	5289.98	44.78	236885.30
15	Tack Coat :-Providing and applying tack coat with bitumen emulsion (RS) using emulsion distributor @ 0.25 to 0.30 kg per sq m on the prepared bituminous surface cleaned with hydraulic broom as per technical	Sqm	5289.98	15.23	80566.40
16	Mix Seal Surface Providing laying and rolling of close - graded premix surface material 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 static	Sqm	5289.98	191.40	1012502.17
17	Cement Concrete Pavement 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, 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	134.64	5383.57	724843.86

B.O.D approved as

S.E. Aurangabad

Sanjeet Kumar

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
18	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				
19	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specification clause 1703. (ii) Ordinary Kilometer Stone (Precast)	Sqm	110.00	453.52	49887.20
20	Reinforced cement concrete M15 grade kilometre local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and technical specification clause 1703. (ii) Ordinary (iii) 200 m stone (precast)	Each	3.00	1984.56	5953.68
21	Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS steel duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per clause 1701.3.9 of MORD for rural road of required shade and colour supported and welded on 47mmx47mmx12swg sheet tube firmly fixed to the ground by mean of properly designed foundation with M15 grade cement concrete 450x450x600 mm, 600mm below ground level as per approved drawing clause 1701.2.2. 600 mm equilateral & triangle (School & Place)	Each	6.00	563.36	3380.16
22	Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS steel duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per clause 1701.3.9 of MORD for rural road of required shade and colour supported and welded on 47mmx47mmx12swg sheet tube firmly fixed to the ground by mean of properly designed foundation with M15 grade cement concrete 450x450x600 mm, 600mm below ground level as per approved drawing clause 1701.2.2. 600 mm circular, (Speed Limit)	Each	4.00	3564.18	14256.72
23	Providing and fixing of semi reflective cautionary, mandatory and informatory sign board as per IRC :67 made of 1.5 mm thick MS steel duly stove white colour in front and gray colour on back with red reflective border of 65 mm width and required letters and figures with reflective tape engineering grade as per clause 1701.3.9 of MORD for rural road of required shade and colour supported and welded on 47mmx47mmx12swg sheet tube firmly fixed to the ground by mean of properly designed foundation with M15 grade cement concrete 450x450x600 mm, 600mm below ground level as per approved drawing clause 1701.2.2. 900 mm equilateral & triangle (School & Place)	Each	4.00	3661.67	14646.68
			4.00	5275.63	21102.52

80.0 approved as Corrected

Sanjeet Kumar

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
24	Road Marking with Hot Applied Thermoplastic Compound with Reflectors Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectors 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	276.60	735.79	203519.51
25	Road Marking with Hot Applied Thermoplastic Compound with Reflectors Glass Beads on Concrete Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectors 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	44.00	766.57	33729.08
26	Cable Duct Across the Road (For irrigation purpose) 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.	Sqm	60.00	899.62	53977.20
27	Rumble Strips 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	45.00	191.40	8613.00
28	Rumble Strips 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. Road Marking Paint.	Sqm	22.50	735.79	16555.28
29	Direction and place identification signs up to 0.9 sqm size board Providing and erecting direction and place identifications of semi reflective sign boards as per IRC:67 made of 2 mm thick M.S. Sheet duly stove enameled paint in white colour in front and grey colour on back with red reflective border of 70 mm width and required message, letters, figures with reflective engineering grade tape as per MORD specifications of required shade and colour. Supported and welded on 47 mm x 47mm of 12 SWG Square tube of 3050 mm height duly strengthened by 25 mm x 5 mm M/s flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701	Sqm	6.00	3092.68	18556.08

B.O.Q approved as Corrected

S.C. Approved

Sanjeet Kumar

	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
	Planting of Trees and their Maintenance for one Year Planting of trees by the road side (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farm yard/sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year	Sqm	138.00	818.70	112980.60
31	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	Sqm	3.00	9199.68	27599.04
32	Excavation for Structures Earthwork in excavation for structures as per drawing and technical specification clause 305.1 including setting out const. of shoring and bracing, removal of stumps and other delitarious matter, and disposal upto a lead of 50m, dressing of sides and bottom and backfilling in treanches with excavated suitable material.	Cum	287.46	294.73	84723.09
33	Sand Filling in Foundation Trenches as per drawing and technical specification Clause 1108.	Cum	3.28	478.09	1568.14
34	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 (PCC M15)	Cum	36.19	4475.29	161960.75
35	Brick masonry work in cement mortar (CM 1:4) in foundation complete excluding pointing and plastering as per drawing and technical specifications Clauses 602, 603, 604, 1202 & 1203	Cum	118.90	5621.43	668388.03
36	Brick masonry work in cement mortar (CM 1:4) in substructure and Kerb complete excluding pointing and plastering as per drawing and technical specifications Clauses 602, 603, 604, 1202 & 1203	Cum	65.66	5823.98	382402.53
37	(RCC GRADE M-20) Plain/reinforced cement concrete in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1205	Cum	8.50	5258.54	44697.59
38	Providing Bitumen painting over top surface of Abutment cap & inner vertical surface of Dirt Wall including Heating the bitumen & cost of painting brush etc. all complete.	Sqm	29.10	15.23	443.19
39	(RCC GRADE M-25) Plain/reinforced cement concrete in superstructure complete as per drawings and technical specification Clauses 800, 1205.4 & 1205.5	Cum	12.62	6317.15	79722.43
40	Supplying, fitting and placing HYSD bar reinforcement in substructue complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202	mt	1.60	51415.77	82265.23

6/800 APPROVED

Sanjay Kumar

Sl. No.	Description of Items	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
41	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight	Sqm	30.00	40.47	1214.10
42	Brick masonry work in cement mortar 1:3 in parapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	Cum	8.16	5462.16	44571.23
43	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	RM	68.00	119.33	8114.44
44	Brick Masonary work in cm 1:4 in head wall complete as per drawing and technical specification clause 1109 in cement mortar 1:4	Cum	75.08	5666.23	425420.55
45	Providing & Laying ISI mark* Cement Concrete hume Pipe (burried conduits) on firsst class bedding of granular material including fixing collar with cement sand mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry work in head wall and parapets (600 mm Dia Pipe	RM	7.50	1177.03	8827.73
46	Providing & Laying ISI mark* Cement Concrete hume Pipe (burried conduits) on firsst class bedding of granular material including fixing collar with cement sand mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry work in head wall and parapets (1000 mm Dia Pipe	Cum	15.00	3473.03	52095.45
47	Plastering with cement mortar (1:4), 15 mm Thick on brick work in sub-structure as per Technical Specifications Clause 613.4 & 1204.	Sqm	328.84	147.05	48355.92
48	Providing 1.5 mm cement punning including curing carriage of water with all leads and lifts as per building specification and direction of E/I	Sqm	93.88	45.51	4272.48
Total =					8918724.39
Labour Cess @ 1%					89187.24
GST @ 12%					1070246.93
Total					10078158.56
Seigniorage Fee					171421.00
Final construction cost					10249579.56
Less 15.32 % as per Agreement					1570235.59
Total (A) =					8679343.97
FIVE YEAR ORDINARY MAINTENANCE COST		Unit	Qty.	Rate (Rs.)	Amount (Rs.)
49	FIRST YEAR	KM	1.603	73558.33	117914.00
50	SECOND YEAR	KM	1.603	77297.57	123908.00
51	THIRD YEAR	KM	1.603	243726.76	390694.00
52	FORTH YEAR	KM	1.603	114157.21	182994.01
53	FIFTH YEAR	KM	1.603	268227.7	429969.00
Total =					1245479.01
Labour Cess @ 1%					12454.79
GST @ 12%					149457.48
Total					1407391.29
Seigniorage Fee					12540.00
Final construction cost					1419931.29
Less 15.32 % as per Agreement					217533.47
Total (B)					1202397.81
Grand Total Cost (A+B)					9881741.78

As per CE - 12/11/2021 - 399033 11/06/2021
 Approved for Rs. 98,81,74 Lakhs
 Rupees 98,81,74
 Thousand Seven Hundred Eighty Four Only
 B.O. approved for Rs. 98,81,74 Lakhs
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 Thousand Seven Hundred Eighty Four Only

Dr. J. G.
 06/01/22

Am. D. (W) Division
 06/01/22
 J. G.

Executive Engineer
 R. W. D. (W) Division
 Jehanabad.
 06/01/22

भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये

रु.1000

ONE THOUSAND RUPEES

Rs.1000

सत्यमेव जयते

INDIA

बिहार BIHAR

कोषागार कवालय

11 JAN 2022

Supplementary Agreement of Agreement No. 1000

This agreement, made the day

....., between Executive Engineer, R.W.D. Works Division

Jehanabad [name and address of employer] (hereinafter called "the Employer") of the

one part, and Sri Sanjeet Kumar, Professor Colony, Jehanabad [name and address of

contractor] (hereinafter called "the Contractor") of the one part. Where as the

Employer is desirous that the contractor execute Construction of road from

Masaudhi- Okari road Se Jhakhar Under MMGSY name and identification number of

contractor] execution and completion of such Works and the remedying of any defects

therein at a cost of

मूल एकरारनामा की राशि

- 73,73,434. —

पुनरिक्षीत एकरारनामा की राशि

- 86,79,343. 00

एकरारनामा में अंतर राशि

- 13,05,909. —

..... की तिथि