

अधीक्षण आभियंता का कार्यालय
ग्रामीण कार्य विभाग, कार्य अंचल, नालन्दा

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पत्रांक.....२८३/०३/२०२५

नालन्दा/दिनांक-28/03/2025

प्रेषक,

ई० संजीव कुमार,
अधीक्षण अभियंता,
ग्रामीण कार्य विभाग,
कार्य अंचल, नालन्दा

सेवा में,

कार्यपालक अभियंता,
ग्रामीण कार्य विभाग,
कार्य प्रमंडल, बिहारशरीफ।

विषय :-

शीर्ष-MMGSY (SC) Recined Work योजनान्तर्गत Construction of Road From
Mahalpar Tetrawan path ke Hatiya path to Dalit Tola Samasti पथ का
पुनरीक्षित परिमाण विपत्र अनुमोदन के संबंध में।

प्रसंग :-

आपका पत्रांक-429 (अनु०) दिनांक-27.03.2025,

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र से प्राप्त विषयांकित योजनान्तर्गत 01(एक) अर्द्ध
पथ निर्माण कार्य का पुनरीक्षित परिमाण विपत्र अनुमोदन कर वापस की जाती है। सभी पृष्ठ
अनुमोदित है।

क्र०	योजना का नाम	पुनरीक्षित परिमाण विपत्र की राशि (रुपया में)
1	Construction of Road From Mahalpar Tetrawan path ke Hatiya path to Dalit Tola Samasti.	1,16,25,591.00

अनु०:-यथोक्त (एक प्रति मूल में)।

विश्वासभाजन

(ई० संजीव कुमार)

अधीक्षण अभियंता,

ग्रामीण कार्य विभाग, कार्य अंचल, नालन्दा।

सोमेश्वर
28/3/25

28/3/25

SCHEME- MMGSY(SC)					
BOQ of Construction of Road From Mahalpar Tetrawan Path ke Hatliya Path to Dalit Tola Samasti					
District- Nalanda		DIV.- Biharsharif	Block- Biharsharif		
Sr No.	Items of work	Unit	BOQ of Work to be done Quantity		
			As per Revised Estimate		
			Quantity	Rate Excluding GST	Amount
1	2	3	4	5	6
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	Nos	14.000	4105.77	57480.78
2	Cleaning and grubbing road land by manual means including uprooting wild vegetation, grass, bushes, shrubs, saplings and trees of girth upto 600mm, 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	Ha	0.140	72,096.63	10205.53
3	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 1000 m as per Technical Specification Clause 301.5. (Including Royalty & Labour Cess). For 1000 m	Cum	369.310	241.37	89140.35
4	For 100 m Lead	Cum	513.260	241.37	123885.57
5	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	1,620.520	295.05	478134.43
6	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 vibratory roller to achieve the desired density, complete as per clause 401.	Cum	260.769	2128.3	554994.66
7	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	219.120	3179.03	696589.05
8	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	4,541.210	50.65	230012.29
9	Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.3 kg per sqm on the prepared bituminous surface cleaned with Hydraulic broom as per Technical Specification Clause 503. Over WBM III.	sqm	4,541.210	17.48	79380.35
10	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 mixed with upto 8% of waste plastic (as per the code or as per the direction of E/I) 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	4,541.210	220.46	1001155.16
11	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	250.000	476.69	119172.50

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Nalanda

12	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:98, 1997, 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.	m	30.000	926.68	27800.40
13	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 i) Km Stoner	Nos	3.000	2,837.66	8512.98
14	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 1704 ii) 200 m Stone	Nos	6.000	784.49	4706.94
15	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 below ground level as per drawings and Technical Specification Clause 801 600m Equilateral triangle	Nos	20.000	4024.93	80498.60
16	600 mm circular	Nos	15.000	5309.24	79638.50
17	800 mm X 600 mm Rectangular	Nos	10.000	7301.43	73014.30
18	600 mm X 450 mm Rectangular	Nos	10.000	5177.77	51777.70
19	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. Over (I) BT Surface	Sqm	239.800	650.43	155973.11
20	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. Over (II) PCC Surface	Sqm	100.000	680.13	68013.00
21	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	Nos	3.000	11219.48	33658.44
22	Brick Masonry in C.M.(1:4) In Sub Structure --- 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	5.900	7,104.89	41918.85

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23	Plastering with cement mortar (1:4) :- Plastering with cement mortar (1:4) on brick work in sub-structure as per Technical Specifications	Sqm	20.640	137.50	2838.00
24	QUANTITIES AND COST ESTIMATE FOR RCC SLAB CULVERT (1 X 2.0m X 2.0m) (Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stump X and other deleterious material and disposal upto a lead of 50 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	Cum	516.800	384.60	198761.28
25	Sand Filling in Foundation Trenches as per drawing and technical specification Clause 1108.	Cum	34.500	554.31	19123.70
26	Providing PCC M 15 (1:2.5:5) concrete for plain concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203	Cum	98.090	5,892.42	577987.48
27	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	232.980	5,633.70	1312539.43
28	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	121.040	5,924.64	717118.43
29	Plain/Reinforced cement concrete (M-20) in substructure complete as per drawings and technical specification Clauses 802, 804, 805, 806, 807, 1202 and 1204	Cum	22.540	6,768.81	152568.98
30	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	45.160	14.62	660.24
31	RCC M25 in Deck Slab :- Providing and laying reinforced cement concrete in superstructure (Deck slab M25) as per drawing and technical specifications Clauses 800, 1205.4, 1205.5	Cum	74.120	7,811.60	578995.79
32	Supplying, fitting and placing HYSD bar reinforcement in superstructure complete as per drawing and technical specifications	Mt	10.800	63,972.70	690905.16
33	Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight	RM	45.150	52.51	2370.83
34	Plastering with cement mortar (1:4), 15 mm Thick on brick work in sub-structure as per Technical Specifications Clause 613.4 & 1204.	Sqm	161.220	187.79	30275.50
35	Providing Weepholes in brick masonry, Plain / Reinforced concrete abutment, wing wall, return wall with 100 mm dia AC pipe extending through the full width of the structure with slope of 1V: 20H towards drawing	Nos	72.000	97.33	7007.76
36	Earth work in excavation of foundation trenches :- Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 100 m, dressing of sides and bottom and backfilling in trenches with excavated suitable material.	Cum	324.000	384.60	124610.40
37	Excavation for roadway in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tipper, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3	cum	324.000	95.07	30802.68

Total - Rs. 8512229.05

B.F. - Total - Rs. 8572229.05

38	@ 1% for (Labour Cess)		85122.29
39	SIGNORAGE (As calculated)		183266.00
40	GST @ 18%		1580637.16
41	(A) Total of Construction Cost Rs. =		10361954.40
42	1st Year Maintenance cost	Year	69060.00
43	2nd Year Maintenance cost	Year	183231.00
44	3rd Year Maintenance cost	Year	374957.00
45	4th Year Maintenance cost	Year	194735.00
46	5th Year Maintenance cost	Year	231164.00
47	@ 1% for (Labour Cess)		105314.7
48	SIGNORAGE FOR 5 YEAR ORDINARY MAINTENANCE (As calculated)		7200.00
49	GST @ 18%		192758.125
50	(B)	Total of Maintenance Rs. =	12,63,636.60
51		Total =	1,16,25,591.00

25/3/25

Revised Bill of Quantity Approved as corrected for Item No
 of to for Rs. 1,16,25,591.00 One crore Sixteen
 (ac Twenty five Thousand five hundred Ninety on only)
 Including Five Years Maintenance.
certified copy

28/3/25

Superintending Engineer
 Rural Work Department
 Work Circle, Nalanda

28/3/25

25/3/25

- Sd -

Superintending Engineer
 Rural Work Department
 Work Circle, Nalanda