

(Ministry of Rural Work Department, Govt. of Bihar)

NEW MAINTENANCE POLICY 2018

Bill of Quantities(Revise)

| Road Name :- | Chero Nagarnausa PMGSY Road to Hirden Bigha | | | | |
|----------------|---|-------------|---------|------------|--------------|
| Length of Road | 300M | BLOCK :- | Barnaut | | |
| | | DISTRICT :- | Nalanda | | |
| S.No. | DESCRIPTION OF ITEMS | QUANTITY | UNIT | RATE (Rs.) | AMOUNT (Rs.) |
| 1 | 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/1 | 0.180 | Cum | 49739.470 | 8953.10 |
| 2 | Scarfing Existing Bituminous Surface to a Depth of 150 mm and disposal disposal of scarified materials with a lift upto 3m and lead upto 1000m as per technical specification clause 301.4 | 0.000 | Sqm | 15.980 | 0.00 |
| 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 & 100 m as per Technical Specification Clause 301.5 . (Including Royalty & Labour Cess).1000m | 216.000 | Cum | 168.990 | 36501.84 |
| 4 | Granular Sub-base with Well Graded Material-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. | 5.690 | Cum | 2351.280 | 13378.78 |
| 5 | WBM Grading2 :- 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 2 as per Technical Specification Clause 405 | 0.000 | Cum | 2859.180 | 0.00 |
| 6 | 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 | 6.320 | Cum | 2774.650 | 17535.79 |

Approved as Corrected

*Amrit
29/3/2020*
SE, RWD (W) Circle

Nalanda

*fp
24/2/2021*
Executive Engineer
Rural Works Department
Works Division, Nalanda

21/1/2016

| S.No. | DESCRIPTION OF ITEMS | QUANTITY | UNIT | RATE (Rs.) | AMOUNT |
|-------|---|----------|------|---|-----------|
| 7 | Prime Coat Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502 | 1125.000 | Sqm | 54.420 | 61222.50 |
| 8 | Tack Coat-Proving and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with primer and cleaned with hydriloc broom as per technical specification clause 503. | 1125.000 | Sqm | 18.450 | 20756.25 |
| 9 | Tack Coat-Proving and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surface treated with primer and cleaned with hydriloc broom as per technical specification clause 503. | 1125.000 | Sqm | 15.890 | 17876.25 |
| 10 | Mix Seal Surfacing-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 | 1125.000 | Sqm | 193.400 | 217575.00 |
| 11 | Semi-Dense Bituminous Concrete -Providing and laying semi dense bituminous concrete with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired | 28.130 | Cum | 11805.150 | 332078.87 |
| 12 | Boundary Pillar-Reinforced cement concrete M15 grade boundary pillar/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. | 88.000 | Cum | 516.080 | 45415.04 |
| 13 | Kilometre stone 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. | | | Approved as Corrected Amrit 29/7/2020 SE, RWD (W) Circle | |
| 14 | ii) Km stone | 2,000 | Each | 2250.460 | 4500.92 |
| 15 | iii) 200 m stone | 2,000 | Each | 651.260 | 1302.52 |

27/7/2016 1616

24/02/2020
Executive Engineer
Road Works Department

| S.No. | DESCRIPTION OF ITEMS | QUANTITY | UNIT | RATE (Rs.) | AMOUNT (Rs.) |
|-------|---|----------|----------------|------------|--------------|
| 16 | Traffic sign A. Retro Reflectorised Traffic signs- Providing and fixing of retro-reflectorised cautionary, mandatory and informative 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 drawing and Technical Specification Clause 901 | | | | |
| 17 | 600 mm equilateral & triangle. | 2.000 | Each | 3542.940 | 7085.88 |
| 18 | 600 mm circular. | 2.000 | Each | 4499.720 | 8999.44 |
| 19 | 800 mm x 600 mm rectangular. | 2.000 | Each | 6094.330 | 12188.66 |
| 20 | 600 mm x 450 mm rectangular. | 2.000 | Each | 4419.980 | 8839.96 |
| 21 | 900 mm rectangular. | 1.000 | Each | 7609.220 | 7609.22 |
| 22 | 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 | 4.000 | Each | 9315.680 | 37262.72 |
| 23 | 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 | 28.000 | Each | 813.710 | 22783.38 |
| 24 | Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface- 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. | 69.380 | Sqm | 850.930 | 59037.52 |
| 25 | Providing and Fixing 'Logo' of Project - Providing and fixing of typical informative 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 | 3.000 | Each | 9991.460 | 29983.38 |
| 26 | Total (A) | | | | 970887.53 |
| 27 | Total Cost of Maintenance | 20.000 | Quarterly | 22710.85 | 55421.70 |
| 28 | Total (B) | | | | 554217.00 |
| 29 | Grand Total (A+B) | | | | 1525104.53 |
| | | | Total BOQ Cost | | 1525105.00 |

Agreement (-0.020) = -365/-
 1524800-00
 22-2-2024

22-2-2024

B.O.Q.Approved for Rs.15,24,800/- (Rupees Fifteen Lacs
(Rs. Twenty Four Thousand Eight Hundred only)
Construction Cost and Rs. (Rs.
.....(only for Maintenance work. Total
Rs. (Rs.) only.

24/07/2020
A.E.
RWD
Circle Nalanda

24/07/2020
S.E.
RWD
Circle Nalanda

24-07-2020
Executive Engineer
Rural Works Department
Works Division Haridwar

24 अगस्त 2020