

(Ministry Of Rural Work Department, Govt. Of Bihar)
NEW MAINTENANCE POLICY 2018
Bill of Quantities(Revise)

Road Name:-	Harnaut Saksohara Road (NH-30A) To Alinagar				
Length of road:-	0.880km	BLOCK:-	Harnaut		
		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)	0.530	Ha	49,739.47	26,361.92
2	Scarifying 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. @ 12.04% of over all area.	427.680	Sqm	15.980	6,834.33
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). For 1000 m lead	739.200	Cum	189.260	1,39,900.99
4	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. (To achieve minimum CBR value of 50%)	81.971	Cum	1,919.61	1,57,352.35
5	WBM Grading 2 :- 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, crushable screening to fill-up the interstices of coarse aggregate, watering and compacting to the required density Grading 2 as per Technical Specification Clause 405.	48.92	Cum	2,394.57	1,17,142.36
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.	109.98	Cum	2,254.57	2,47,927.91

Approved as Corrected

SE, RWD (W) Circle
Nalanda

24/02/2024

S.No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE(Rs.)	AMOUNT(Rs.)
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.	1466.370	sqm	55.140	80,855.64
8	Tack Coat(I):- Providing and applying tack coat with bitumen emulsion(RS-1) using emulsion distributor at the rate of 0.225 to 0.3 kg per sqm on the prepared bituminous surface cleaned with hydraulic broom as per technical specification Clause 503. Over WBM III.	1466.370	sqm	18.680	27391.789
9	Tack Coat(II):- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.22 to 0.25 kg per sqm on the prepared granular surface treated with Primer and cleaned with hydraulic broom as per technical specification Clause 503. Over Bituminous Surface.	3,300.00	sqm	16.12	53,196.00
10	MIX SEAL SURFACE :- 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 EI) 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	1,466.370	sqm	189.500	2,77,877.12
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 5.0 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 compaction as per MoRTH specification clause No. 508 complete in all respects.	82.500	cu m	11,289.480	9,31,382.10
12	Boundary pillar- Reinforced cement concrete M15 grade boundary pillars/local stone of standard design as per IRC:25, fixed in position including finishing and lettering but excluding painting as per drawing and Technical Specification Clause 1704	66.00	Nos	508.200	33,541.20
13	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.				
14	I) Km stone	2.00	No.	2,153.540	4,307.08
15	II) 200m stone	3.00	No.	634.050	1,902.15

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Executive Engineer
Rural 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 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 drawing and Technical Specifications Clause 901				
17	600 mm equilateral & triangle.	8.000	Each	3542.940	28343.52
18	600 mm circular.	8.000	Each	4499.720	35997.76
19	800 mm x 600 mm rectangular.	6.000	Each	6094.330	36565.98
20	600 mm x 450 mm rectangular.	4.000	Each	4419.980	17679.92
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	8.000	Each	9270.320	74162.56
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	44.000	Each	813.710	35803.24
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.	185.380	Sqm	850.930	157743.40
25	Providing and Fixing 'Logo' of Project - Providing and fixing of typical 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	3.000	Each	9903.740	29711.22
26	Brick Masonry in C.M.(1:4) in Foundation :- 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	2.050	Sqm	6192.450	12694.52
27	Brick masonry work in cement mortar 1:3 in parrapet excluding pointing and plastering as per drawing and technical specifications Clauses 600, 900 and 1208.4	0.210	m	7549.270	1585.35
28	Plastering with cement mortar (1:4), 15 mm Thick on brick work in sub-structure as per Technical Specifications Clause 613.4 & 1204.	57.815	Sqm	190.960	11040.35
29	Painting Two Coats on New/Concrete Surface- Painting Two Coats including primer coat after filling the surface with synthetic enamel paint	57.815	Sqm	107.900	6228.24

Approved as Corrected

SE, RWD (W) Circle,
Nalanda

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S.No.	DESCRIPTION OF ITEMS	QUANTITY	UNIT	RATE(Rs.)	AMOUNT(Rs.)
30	Providing 1.5 mm cement punning including curing carriage of water with ali leads and lifts as per building specification and direction of E/I	15.040	sqm	48.790	733.80
31					
	Total(A)				25,61,884.02
32	Total cost of maintenance	20.00	Quarterly	57,765.15	11,55,303.00
33					
	Total(B)				11,55,303.00
34					
	Grand total (A+B)				37,17,187.02
35					
	Total BOQ Cost				37,17,187.02

Agreement (-6.024) - 743200
 3716444200
 10.7.20

B.O.Q. Approved for Rs. 37,16,444.200 (Rupees Thirty Seven
 (Rs. less Sixteen Thousand four Hundred forty four only
 Construction Cost and Rs. (Rs.
 (only for Maintenance work. Total
 Rs. (Rs.) only.

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

24/7/2020
 S.E.
 RWD
 Circle Nalanda

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24.02.2020
 Executive Engineer
 Rural Works Department
 Works Division Harnaut