



**National Highway Authority**  
**Region:- Northern Area's**  
**SUMMARY OF BILL OF QUANTITIES**  
**Routine Maintenance Work 2017-18**  
**Km: 60+000 to 80+000 ( N-15)**

<b>Bill No</b>	<b>Description</b>	<b>Amount</b>	
1	EARTH WORK	-	
2	BASE,SUB-BASE	-	
3	SURFACING	-	
4	STRUCTURES	-	
5	DRAINAGE & EROSION WORKS	-	
6	ANCILLARY WORKS	-	
Estimated Cost (Bill No 1 to 6) Rs:-		<b>14,524,381.00</b>	

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**Bill No 1**                      **EARTH WORK**

<b>Item No</b>	<b>Description</b>	<b>Unit</b>	<b>Rate</b>	<b>Quantity</b>	<b>Amount</b>
106a	Excavate Unsuitable Common Material	CM	362.52	-	-
106c	Excavate Surplus Common Material	CM	324.92	-	-
107a	Structural Excavation in common material	CM	362.02	-	-
107d	Granular Backfill	CM	1960.63	-	-
107e	Common Backfill	CM	254.50	-	-
108a	Formation of Embankment from Roadway Excavation In Common Material	CM	399.41	-	-
108c	Formation of Embankment from Borrow Excavation In Common Material	SM	433.38	-	-
NSI-1	Cut Vegetation	SM	2.75	-	-

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**Bill No 2**                      **BASE,SUB-BASE**

<b>Item No</b>	<b>Description</b>	<b>Unit</b>	<b>Rate</b>	<b>Quantity</b>	<b>Amount</b>
201	Granular Sub-Base	CM	1985.28	-	-
202	Aggregate Base	CM	2284.41	-	-
203a	Asphaltic Base Course Plant Mix (Class A)	CM	18592.70	-	-
203b	Asphaltic Base Course Plant Mix (Class B)	CM	19067.66	-	-
206b	Water Bound Macadam Base with Coarse Agg :Class B	CM	1796.84	-	-
207a	Deep Patching (0-15 cm)	SM	144.19	-	-
207b	Deep Patching (15-30 cm)	SM	144.19	-	-
209a	Breaking Of Existing Road Pavement Structure	CM	609.29	-	-
209b	Scarification Of Existing Road Pavement	SM	67.99	-	-

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**Bill No 3:- SURFACING**

Item No	Description	Unit	Rate	Quantity	Amount
302a	Cut-Back Asphalt For Bitumanius Prime Coat	SM	122.04	-	-
302b	Emusified Asphalt For Bitumanius Prime Coat	SM	106.82	-	-
303a	Cut-Back Asphalt For Bitumanius Tack Coat	SM	48.88	-	-
303b	Emusified Asphalt For Bitumanius Tack Coat	SM	42.59	-	-
304a	Single Surface Treatment	SM	229.26	-	-
304b	Double Surface Treatment	SM	464.99	-	-
304c	Triple Surface Treatment	SM	556.83	-	-
305a	Asphaltic Concrete of Wearing Course Class A	CM	19707.82	-	-
305b	Asphaltic Concrete of Wearing Course Class B	CM	20622.02	-	-
307a	Dense Graded Hot BIT-MAC	CM	14351.04	-	-
307b	Open Graded Hot BIT-MAC	CM	13877.82	-	-
309a	Cold Milling 0-30mm	SM	111.84	-	-
309b	Cold Milling 0-50mm	SM	186.39	-	-
309c	Cold Milling 0-70mm	SM	279.59	-	-

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**Bill No 4:- STRUCTURES**

Item No	Description	Unit	Rate	Quantity	Amount
401a1i	Concrete Class A1 (Under Ground)	CM	10349.71	-	-
401a1ii	Concrete Class A1 (ONGround)	CM	11252.91	-	-
401a1iii	Concrete Class A1 (ELEVATED)	CM	11719.59	-	-
401a2i	Concrete Class A2 (Under Ground)	CM	10642.91	-	-
401a2ii	Concrete Class A2 (ONGround)	CM	11545.96	-	-
401a2iii	Concrete Class 2 (ELEVATED)	CM	12012.46	-	-
401a3i	Concrete Class A3 (Under Ground)	CM	11034.59	-	-
401a3ii	Concrete Class A3 (ONGround)	CM	11937.64	-	-
401a3iii	Concrete Class A3 (ELEVATED)	CM	12371.79	-	-
401b	Concrete Class B	CM	8125.78	-	-
401ci	Concrete Class C (Under Ground)	CM	9952.69	-	-
401cii	Concrete Class C (ONGround)	CM	10855.74	-	-
401ciii	Concrete Class C (ELEVATED)	CM	11322.42	-	-
401d	Concrete Class D1	CM	15213.52	-	-
401e	Concrete Class Y	CM	11068.84	-	-
401f	Lean Concrete	CM	6362.61	-	-
401h	Pulm (Cyclone/Rubble)Concrete (2:1 Concrete :Stone Ratio)	CM	7126.57	-	-
404a	Reinforcement as per AASHTO M :31 GRADE 40	TON	111318.88	-	-
404b	Reinforcement as per AASHTO M :31 GRADE 60	TON	116568.88	-	-
410	BRICK WORK	CM	8695.08	-	-
411a	Stone Masonary Random Dry	CM	2215.35	-	-
411b	Stone Masonary Random with Mortar	CM	4179.80	-	-
411g	Roll Pointing	SM	297.00	-	-
412a	Stone Masonary Dressed Coursed with Mortar	CM	5313.23	-	-

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**Bill No 5:- Drainage & Erosion Works**

<b>Item No</b>	<b>Description</b>	<b>Unit</b>	<b>Rate</b>	<b>Quantity</b>	<b>Amount</b>
507a	Steel Wire Mesh For Gabion	KG	174.05	-	-
507b	Rock Fill In Gabion	CM	973.43	-	-
509h	Filter Layer of Granular Material	CM	2121.76	-	-
510	Dismantling of Structures And Obstructions	CM	1612.78	-	-
511a1	Dry Stone Pitching (15-20 cm Thick)	SM	591.19	-	-
511a2	Dry Stone Pitching (20-25 cm Thick)	SM	756.73	-	-
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**Bill No 6:- ANCILLARY WORKS**

Item No	Description	Unit	Rate	Quantity	Amount
601ai	RCC new Jersey Barrier (In-Situ) for Median Double Face (Incl- Reinforcement )	M	10947.17	-	-
601di	RCC new Jersey Barrier (Precast) for Median Double Face (Incl- Reinforcement )	M	11640.07	-	-
601dii	Precast Curb In concrete Class A-1 of Size 450*150 mm Incl Bedding & Haunching	M	1108.31	-	-
604a	Metal Guard Rail	M	4310.18	-	-
604b	Metal Guard Rail End Pieces	Each	5643.12	-	-
604d	Steel Post For Metal Guard Rail	Each	5140.36	-	-
605a	Concrete Beam Guardrail (Incl Reinforcement)	CM	24266.61	-	-
605c	Concrete Post for Guard Rail (Incl -Reinforcement)	CM	22473.02	-	-
607a	Traffic Road Sign Cat-i	Each	15355.58	-	-
607b	Traffic Road Sign Cat-ii	Each	18733.35	-	-
607c	Traffic Road Sign Cat-3(a)	Each	29802.87	-	-
607d	Traffic Road Sign Cat-3(b)	Each	54594.79	-	-
607e	Traffic Road Sign Cat-3(c)	SM	24749.42	-	-
607f	Additional Panel Size 60cm * 30cm	Each	3998.68	-	-
607g	Additional Panel Size 90cm * 30cm	Each	5728.93	-	-
608b1	Pavement Marking In Non Reflective CR Paint for Lines of 15cm Width	M	45.57	-	-
608b2	Pavement Marking In Non Reflective TP Paint for Lines of 15cm Width	M	89.68	-	-
608h1	Pavement Marking In Reflective CR Paint for Lines of 15cm Width	M	63.61	-	-
608h2	Pavement Marking In Reflective TP Paint for Lines of 15cm Width	M	170.72	-	-
609c	Reflectorized Alluminium Pavement Stud(Raised Profile type Single)	Each	707.61	-	-
609ci	Reflectorized Plastic Pavement Stud(Raised Profile type Single)	Each	283.48	-	-
610c	Kilometer Post (NHA Standard Drawing P-152)	Each	3958.20	-	-
610d	Ten Kilometer Post (NHA Standard Drawing p-153)	Each	9935.30	-	-
611a	Galvanized wire mesh Fence 1500 mm High Incl : Prestressed & RCC Posts complete in all respect as per M-2 Standard	M	1868.31	-	-
1051	Labour(Man days)	No	750.00	-	-
3005	Front End Loader 2.5 CUM	Hrs	4416.20	-	-
3008	Grader 140 Hp	Hrs	4083.38	-	-
3022	Tractor 80 HP	Hrs	1456.95	-	-
3032	Dumper 18T	Hrs	2842.06	-	-
3047	Excavator (Track Type )100 Hp	Hrs	2689.06	-	-
3121	Asphalt Cutter	Hrs	400.26	-	-
3196	Tractor Trolley	Hrs	1053.60	-	-



