

**Government of Pakistan  
Ministry of Communications,  
NATIONAL HIGHWAY AUTHORITY**



**Bill of Quantity (BOQ) FOR**  
**Routine Maintenance Work**

<b>Region:</b>	<u>Maintenance Region M-4 Faisalabad</u>
<b>Nature of Work:</b>	<u>Routine Maintenance Work</u>
<b>Contract No:</b>	<u>RMF-M4-423-2020-21</u>
<b>Route No:</b>	<u>Motorway M-4</u>
<b>Direction:</b>	<u>North &amp; South Bound</u>
<b>Chainage:</b>	<u>From (Km) 238+000 To (Km) 292+000 (Flyovers)</u>
<b>District:</b>	<u>Faisalabad (CSR-2014)</u>
<b>Amount Allocation:</b>	<u>Rs.4,063,135.37</u>

Prepared by: \_\_\_\_\_

Checked by: \_\_\_\_\_

# NATIONAL HIGHWAY AUTHORITY

OFFICE OF THE DIRECTOR (MAINT) M-4

## **SUMMARY OF BILL OF QUANTITIES** **ROUTINE MAINTENANCE WORK** **(Km 238+000 to Km 292+000)**

Bill No	DESCRIPTION OF BILLS	Amount (Rs.)
1	EARTH WORK	
2	SUB BASE & BASE	
3	SURFACING	
4	STRUCTURES	
5	DRAINAGE & EROSION WORKS	
6	ANCILLARY WORKS	
	<b>TOTAL</b>	

**NATIONAL HIGHWAY AUTHORITY**

OFFICE OF THE DIRECTOR (MAINT) M-4

**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.1 EARTH WORKS**

Code	Description	Unit	Rate (Rs.)	Quantity	Amount (Rs)
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	1,511.42	-	-
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	CM	448.22	-	-
NSI-1	CUT VEGETATION	SM	1.00	-	-
	<b>TOTAL</b>				-

**NATIONAL HIGHWAY AUTHORITY**

OFFICE OF THE DIRECTOR (MAINT) M-4

**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.2 SUB-BASE AND BASE**

Code	Description	Unit	Rate (Rs.)	Quantity	Amount (Rs)
201	GRANULAR SUB-BASE	CM	1,610.47		
202	AGGREGATE BASE COURSE	CM	2,195.90		
203a	ASPHALTIC BASE COURSE PLANT MIX (CLASS-A)	CM	18,345.01		
203b	ASPHALTIC BASE COURSE (CLASS-B)**	CM	18,749.35		
206b	WATER BOUND MACADAM BASE WITH COURSE AGG.CLASS B	CM	2,020.52		
207a	DEEP PATCHING (0-15cm)	SM	132.81		
207b	DEEP PATCHING (15-30cm)	SM	132.81		
209a	BREAKING OF EXISTING ROAD PAVEMENT STRUCTURE	CM	609.29		
209b	SCRAIFICATION OF EXISTING ROAD PAVEMENT	SM	67.99		
			<b>TOTAL</b>		-

\*\* Contractor has to submit original bitumen purchase invoice from approved source like NRL, ARL & PARCO alongwith the IPC's

**NATIONAL HIGHWAY AUTHORITY**

OFFICE OF THE DIRECTOR (MAINT) M-4)

**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.3 SURFACING**

Code	Description	Unit	Rate (Rs.)	Quantity	Amount (Rs)
302a	CUT-BACK ASPHALT FOR BITUMINOUS PRIME COAT	SM	122.69	-	-
302b	EMULSIFIED ASPHALT FOR BITUMINOUS PRIME COAT	SM	107.47	-	-
303a	CUT-BACK ASPHALT FOR BITUMINOUS TACK COAT	SM	49.14	-	-
303b	EMULSIFIED ASPHALT FOR BITUMINOUS TACK COAT	SM	42.85	-	-
304a	SINGLE SURFACE TREATMENT	SM	229.56	-	-
304b	DOUBLE SURFACE TREATMENT	SM	465.04	-	-
304c	TRIPPLE SURFACE TREATMENT	SM	556.80	-	-
305a	ASPHALTIC CONCRETE FOR WEARING COURSE (CLASS-A)	CM	19,421.55	-	-
305b	ASPHALTIC CONCRETE FOR WEARING COURSE (CLASS-B)**	CM	20,330.54	-	-
307a	DENSE GRADED HOT BIT-MAC	CM	14,121.22	-	-
307b	OPEN GRADED HOT BIT-MAC	CM	13,705.85	-	-
309a	COLD MILLING, 0-30 MM	SM	110.26	-	-
309b	COLD MILLING, 0-50 MM	SM	183.77	-	-
309c	COLD MILLING, 0-70 MM	SM	275.65	-	-
			<b>TOTAL</b>		-

\*\* Contractor has to submit original bitumen purchase invoice from approved source like NRL, ARL & PARCO alongwith the IPC's

**NATIONAL HIGHWAY AUTHORITY**

OFFICE OF THE DIRECTOR (MAINT) M-4

**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.4 STRUCTURES**

Code	Description	Unit	Rate (Rs.)	Quantity	Amount (Rs)
401a1i	CONCRETE CLASS-A1 (UNDERGROUND)	CM	10,660.88	-	-
401a1ii	CONCRETE CLASS-A1 (ON GROUND)	CM	11,521.04	-	-
401a1iii	CONCRETE CLASS-A1 (ELEVATED)	CM	11,965.49	-	-
401a2i	CONCRETE CLASS-A2 (UNDERGROUND)	CM	10,993.95	-	-
401a2ii	CONCRETE CLASS-A2 (ON GROUND)	CM	11,854.00	-	-
401a2iii	CONCRETE CLASS-A2 (ELEVATED)	CM	12,298.31	-	-
401a3i	CONCRETE CLASS-A3 (UNDERGROUND)	CM	11,282.90	-	-
401a3ii	CONCRETE CLASS-A3 (ON GROUND)	CM	12,142.95	-	-
401a3iii	CONCRETE CLASS-A3 (ELEVATED)	CM	12,565.06	-	-
401b	CONCRETE CLASS-B	CM	8,405.30	-	-
401ci	CONCRETE CLASS-C (UNDERGROUND)	CM	10,004.10	-	-
401cii	CONCRETE CLASS-C (ON GROUND)	CM	10,864.15	-	-
401ciii	CONCRETE CLASS-C (ELEVATED)	CM	11,308.60	-	-
401d	CONCRETE CLASS D1	CM	15,512.80	-	-
401e	CONCRETE CLASS Y	CM	11,276.85	-	-
401f	LEAN CONCRETE	CM	6,653.19	-	-
401h	PLUM (CYCLOPEN/RUBBLE) CONCRETE (2:1CONC.STONE RATIO)	CM	7,449.93	-	-
404a	REINFORCEMENT AS PER AASHTO M.31 GRADE-40	TON	110,627.59	-	-
404b	REINFORCEMENT AS PER AASHTO M.31 GRADE-60	TON	115,877.59	-	-
410	BRICK WORK	CM	7,000.31	-	-
411a	STONE MASONRY RANDOM DRY	CM	2,643.29	-	-
411b	STONE MASONRY RANDOM WITH MORTAR	CM	5,062.79	-	-
411g	ROLL POINTING	SM	300.42	-	-
412a	STONE MASONRY DRESSED COURSED WITH MORTOR	CM	6,058.74	-	-
			<b>TOTAL</b>		-

**NATIONAL HIGHWAY AUTHORITY**

*OFFICE OF THE DIRECTOR (MAINT) M-4*

**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.5 DRAINAGE WORKS**

<b>Code</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (Rs.)</b>	<b>Quantity</b>	<b>Amount (Rs)</b>
507a	STEEL WIRE MESH FOR GABIONS	Kg	166.06	-	-
507b	ROCK FILL IN GABIONS	CM	1389.87	-	-
509h	FILTER LAYER OF GRANULAR MATERIAL	CM	1670.43	-	-
510	DISMANTLING OF STRUCTURES AND OBSTRUCTIONS	CM	1612.78	-	-
511a1	DRY STONE PITCHING (15-20 CM THICK)	SM	664.24	-	-
511a2	DRY STONE PITCHING (20-25 CM THICK)	SM	850.23	-	-
			<b>TOTAL</b>		-

**NATIONAL HIGHWAY AUTHORITY**  
**OFFICE OF THE DIRECTOR (MAINT) M-4**  
**SUMMARY OF BILL OF QUANTITIES**  
**ROUTINE MAINTENANCE WORK**  
**(Km 238+000 to Km 292+000)**

**BILL NO.6 ANCILLARY WORKS**

Code	Description	Unit	Rate (Rs.)	Quantity	Amount (Rs)
601ai	RCC NEW JERSY BARRIER (IN-SITU) FOR MEDIAN DOUBLE FACE (INCL. REINFORCEMENT)	M	11,060.42	-	-
601di	RCC NEW JERSY BARRIER (PRECAST) FOR MEDIAN DOUBLE FACE (INCL. REINFORCEMENT)	M	11,750.45	-	-
601dii	PRECAST CURB IN CONCRETE CLASS A-1 OF SIXE 450X150 MM INCL. BEDDING & HAUNCHING	M	1,132.51	-	-
604a	METAL BEAM GUARD RAIL	M	4,129.54	-	-
604b	METAL GUARD RAIL END PIECES	Each	5,438.96	-	-
604d	STEEL POST FOR METAL GUARD RAIL	Each	4,960.13	-	-
605a	CONCRETE BEAM GUARDRAIN (INCL.REINFORCEMENT)	CM	24,290.56	-	-
605c	CONCRETE POST FOR GUARDRAIL (INCL. REINFORCEMENT)	CM	22,504.48	-	-
607a	TRAFFIC ROAD SIGN CATEGORY - 1	Each	15,384.82	-	-
607b	TRAFFIC ROAD SIGN CATEGORY - 2	Each	18,758.40	-	-
607c	TRAFFIC ROAD SIGN CATEGORY - 3(a)	Each	29,691.19	-	-
607d	TRAFFIC ROAD SIGN CATEGORY - 3b	Each	54,475.33	-	-
607e	TRAFFIC ROAD SIGN CATEGORY - 3c	SM	24,678.74	-	-
607f	ADDITIONAL PANEL SIZE 60 cm x 30 cm	Each	4,015.98	-	-
607g	ADDITIONAL PANEL SIZE 90 cm x 30 cm	Each	5,754.88	-	-
608b1	PAVEMENT MARKING IN NON-REFLECTIVE CR PAINT FOR LINES OF 15 cm WIDTH	M	44.12	-	-
608b2	PAVEMENT MARKING IN NON-REFLECTIVE TP PAINT FOR LINES OF 15 cm WIDTH	M	87.71	-	-
608h1	PAVEMENT MARKING IN REFLECTIVE CR PAINT FOR LINES OF 15 cm WIDTH	M	61.48	-	-
608h2	PAVEMENT MARKING IN REFLECTIVE TP PAINT FOR LINES 15cm WIDTH	M	165.80	-	-
609c	REFLECTORIZED ALLUMINIUM PAVEMENT STUED (RAISED PROFILE TYPE SINGLE)	Each	693.49	-	-
609ci	REFLECTORIZED PLASTIC PAVEMENT STUED (RAISED PROFILE TYPE SINGLE)	Each	276.06	-	-
610c	KILOMETER POST (NHA STANDARD DRAWINGS P-152)	Each	4,006.42	-	-
610d	TEN KILOMETER POST (NHA STANDARD DRAWINGS P-153)	Each	10,038.31	-	-
611a	GALVANIZED WIRE MESH FENCE 1500 MM HIGH INCL. PRESTRESSED & RCC POSTS COMPLETE IN ALL RESPECTS AS PER M-2 STANDARD	M	1,914.06	-	-
1051	LABOUR (MANDAYS)	No.	600.00	-	-
3005	FRONT END LODER 2.5 CUM.	Hour	4,416.20	-	-
3008	GRADER 140 H.P.	Hour	4,083.38	-	-
3022	TRACTOR 80 H.P.	Hour	1,456.95	-	-
3032	DUMPER 18 T.	Hour	2,842.06	-	-
3047	EXCAVATOR (TRACK TYPE) 100 H.P.	Hour	2,689.06	-	-
3121	ASPHALT CUTTER	Hour	400.26	-	-
3196	TRACTOR TROLLEY	Hour	1,053.60	-	-
			<b>TOTAL</b>		<b>-</b>

Estimated Cost:

Rs. 4,063,135.37

%age Above/Below:

\_\_\_\_\_

Bid Cost (Rs):

Rs. \_\_\_\_\_

(In Words \_\_\_\_\_)