CONSTRUCTION OF SHOOTING RANGE AT QUSIWERAH AIRBASE AL-AIN
CMW-22057-C001

PROJECT NAME | CLIENT | CONTRACTOR

Doc No. MAN-256-QAC-TFC-001-R0

TESTING FREQUENCY CHART

Monday, November 2, 2026

SN	Items & Tests	Technical Reference (BOQ / Specifications)	Requirement and Limits	Reference of Testing Codes	Test Frequency for Routine QA QC Tests		
					Specified	Frequency QC Tests (If not specified)	Rmarks
1	**Excavation & Backfill**						
	Seive Analysis	31 23 00 2.2C, 3.9A1	100% from 38mm Sieve			As Directed by Engr.	
	In-Situ Density		Min. 95%	ASTM D698			
2	**Earthworks for Structures and Pavements**						
	Compaction	31 00 00 3.7A & 3.9	Min. 95%	ASTM D 1557		As Directed by Engr.	
	Sieve Analysis			ASTM C 136			
	Classification of Soil			ASTM D 2487			
	CBR			ASTM D 1883			
	Liquid Limit Plastic Limit			ASTM D 4318			
	In-Situ Density		Min. 95%	ASTM D698			
3	**Steel Reinforcement**						
	Tensile	03 20 00 1.5F		BS 4449	Each Delivery		MTC will be Provided with Each Delivery Note
	Bend						
	Yeild Strength		460 N/mm^2				
4	**Cement**						
	Quality	03 30 00 1.5A			N/S		
	Ordinary Portland Cement (OPC)	03 30 00 2.2A		BS EN 197-1			
	Sulphate-Resistant Cement (SRC)	03 30 00 2.2A		BS 4027			
	Ground Granulated Blast Furnace Slag (GGBS)	03 30 00 2.2B		BS 6699			

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5	**Aggregates**						
	Test for Chlorides (Cl)	03 30 00 2.2D	0.3% Max	BS EN 1744-1	Once Every 3 Months		
	Test for Sulphate (SO_3)		0.3% Max	BS EN 1744-1	Once Every 3 Months		
	Potential Alkali Reactivity			ASTM C 289	Once Every 6 Months		
	Seive Analysis			BS 882	Once a Day		
	Sepecific Gravity Apparent		2.6Min	ASTM C 127	Once a Month		
	Test for Soundness of Sulphate Resistance		12% Max	ASTM C88	Once Every 3 Months		
	Los Angeles Abrasion			ASTM C131	Once Every 3 Months		
6	**Water**						
	Quality	03 30 00 1.5.6 3300.08 C		ASTM D512/513/516	N/S		
	PH		6-9	BS 3118			
7	**Admixtures**						
	Quality	03 30 00 1.5.5		BS EN 480	N/S		
8	**Fresh Concrete**						
	Sampling	03 30 00 1.5.7.I		BS 1881-111	N/S	As Directed by Engr.	Frequency will be Finalized with Engr.
	Slump	03 30 00 1.5.7.O		BS EN 12350.6			
	Temperature	03 30 00 1.5.7.G		ASTM C 1064			

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9	**Hardened Concrete**						
	Cubes Compressive Strength	03 30 00 1.5.7.K	100% at 28 Days	BS 1881			Frequency will be Finalized with Engr.
	Note: One sample consists of 6 cubes, 3 to be tested at 7 days, 3 to be tested at 28 days.						
10	**Concrete Masonry Blocks**						
	Hollow Block Crushing Strength	04 20 00 2.2 AB	Min 7.5N/mm^2	BS 6073: Part1-2			
	Solid Block Crushing Strength		Min 7.5N/mm^2	BS 6073: Part1-2			
11	**Masonry Mortar**						
	Mortar Cubes Strength	04 22 00 1.6.CD		ASTM C 1314	Each 500 sqm	6 Cubes are to be Taken, 3 for 7 Days & 3 for 28 Days.	
12	**WATERSTOPS**						
	Tensile Strength	03 15 16 2.2	12 N/m^2	ASTM D638	N/S		
	Ultimate Elongation		250%	ASTM D638			
	Hardness, shore A/15		70 - 80	ASTM D2240			
	Tear Resistance		50KN/m	ASTM D624			
	Stifness in Flexure		4N/mm^2	ASTM D474			