## University of Malta Faculty for the Built Environment Department of Civil and Structural Engineering

## **Registration for Experimental Work**

Name of Researcher / Student:	
Telephone number:	
Mobile number:	
Email Address:	
Name of Supervisor:	
Title of Project:	
Synopsis of Project:	_
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Section A to be completed by the Supervisor / principal investigator at the stage at which the test programme is undertaken.  Declaration: I have authorized experimental work on this project, and have discussed the objectives and the general scheme of the tests with the named researcher / student. I have drawn attention to the following hazards and specific safety requirements:				
Supervisor / Principal Investigator				
Section B to be completed by the researcher / student				
Structures Section				
Identified hazards given specific consideration in design of rig and / or establishment of operating procedures (tick or enter NA):				
Overall robustness stability, buckling Strength of primary members				
Protection of moving parts potential trapping in gaps				
Containment of failed test specimens Adequate provision for lifting rig members				
Adequate provision for lifting test specimens				
Is there a positive limit on applied forces that lies within the safe working load of a rig? Yes / No				
Is it certain that premature failure would be ductile and be noticed at an early stage? Yes / No				
Has a written operating procedure been prepared? Yes / No				
Will the apparatus be run unattended? Yes / No				
Other hazards:				

## Concrete Section

Identified hazards given specific consideration in establishment of operating procedures (tick or enter NA):								
Inhalation of high levels of cement dust			Allergic skin reaction					
Expo	Exposure to airborne dust Handling wet concrete or dry alkaline compounds							
Ехсе	essive noise associated with the use of the vibr	rating table						
Ade	quate provision for lifting test specimens							
Has	a written operating procedure been prepared?	Yes / No						
Othe	er hazards:							
Туре	ion C to be completed by the researcher / stude of equipment needed for the service required crete Section		appropriate):					
	Compression machine (Controls)		Vebe consistometer					
	Compression machine (Avery Denison)		Flow table					
	Pan mixer		Cylinder capping frames					
	Concrete drum mixer 190 litres		Shrinkage apparatus					
	Concrete drum mixer 100 litres		Concrete test hammer					
	Mortar mixer		Ultrasonic concrete tester					
	100 mm cube mould		Blaine apparatus					
	150 mm cube mould		Le Chatelier flask					
	Beam mould 100 by 100 by 500 mm		Vicat frame					
	Beam mould 150 by 150 by 750 mm		Flow table for mortars (BS Standard)					
	Cylinder mould 100 mm diameter		Le Chatelier mould					
	Cylinder mould 150 mm diameter		Mortar mixer 5 litres					
	Slump test		Jolting table					
	K-slump tester		50 mm mortar cubes					

	Three gang mould for mortar prisms	Geotechnical		
	Unit weight measure 10 litres capacity			
	Cover meter		Cone penetrometer	
	Half-cell digital corrosion meter		Casagrande	
	Pull-off / adhesion tester		Sedimentation apparatus (hydrometer)	
	Pull out test apparatus		Plastic limit apparatus	
	Initial Surface Absorption test apparatus		Specific gravity apparatus	
	Concrete cylinder extensometer		Moisture content apparatus	
	Mechanical strain gauge		Oedometer	
	Coring machine		Direct shear box	
			Triaxial machine	
Aggregate Section			CBR equipment	
			Proctor compaction machine	
	Test sieves		Plate bearing test apparatus	
	Bar sieves (flakiness index)		Clegg impact soil tester	
	Elongation index (BS Standard)			
	Los Angeles machine	Struct	ures Section	
	Buoyancy balance			
	Density baskets		Data Logger (Peekel)	
	Unit weight measures		Data Loggers (National Instruments)	
	Impact value tester		LVDTs ± 1 mm	
	Aggregate crushing value apparatus		LVDTs $\pm$ 5 mm	
	Jaw crusher		$LVDTs \pm 10 \ mm$	
			$LVDTs \pm 50 \ mm$	
Rock	Mechanics		$LVDTs \pm 100 \ mm$	
			Strain Gauges	
	Laboratory coring machine		Load cell 50 kN	
	Cut-off machines		Load cell 200 kN	
	Hoek cells for triaxial tests		Load cell 500 kN	
	Constant head apparatus		Load cell 1000 kN	
	Rock shear box apparatus		Mechanical screw jacks (50 kN)	
	Rock strength index apparatus		Hydraulic jacks	
	Rock and masonry saw		Hydraulic pumps	

Built Heritage				
	Climatic chamber			
	Salt spray machine			
	Mercury pororsimeter			
	Multi pycnometer			
	Ph meter			
	Conductivity meter			
	Stereo microscope (Wild)			
	Microscope (Will)			
	Furnaces			
Others				
	DC Power supply			
	Sticky pad reader (dust monitoring)			
	Light meter			
	Laboratory water distiller			
	Air Compressor			
	Water baths			
Works	hop			
	Surface grinder			
	Electric drill			
	Angle grinder			
	Cordless drill			
	Welding set			
	Pillar drill			
	Jigger			
	Drill Compactor			
	Generator			