

Department of Contracts  
Notre Dame Ravelin  
Floriana

10<sup>th</sup> March 2004

To Heads of Department  
and Parastatal Bodies

**READY MIXED CONCRETE FOR GENERAL/MARITIME USE - MALTA 2004**

1. Heads of Department and Accounting Officers are requested to note that the contract for the supply and delivery of Ready Mixed Concrete for General and Maritime Use has been placed with the contractor shown below at the prices indicated on the attached Schedules 'A', 'B', 'C' and 'D'. Prices are inclusive of all charges and all taxes, including 18% VAT Delivery costs to any site in Malta, where and as indicated, are also included.

Schembri & Sons Ltd  
Hal Far Road  
B'Bugia BBG 07  
Tel: 21658155/6  
VAT No. 1004 - 6433

2. Payments to the above contractor are to be made through:

HSBC  
St Andrews

quoting Guarantee No. 43-11/02

3. This contract shall run from the 1<sup>st</sup> April 2004 up to the 31<sup>st</sup> December 2004.
4. The Specifications and Conditions regulating this contract are attached.
5. This contract is governed by the attached 'General Conditions of Contract for the Supply of Goods and Materials under a Running Period Contract.'

J V Spiteri  
Director General (Contracts)

enc.  
/jm

## STRUCTURAL CONCRETE MIX SCHEDULE 'A'

			Item 1	Item 2	Item 3	Item 4	Item 5
MIX DESCRIPTION			REINFORCED CONCRETE				
Type of Mix			Designe d	Designe d	Designe d	Designe d	Designe d
Type of Cement		To B.S.	12 (OP)	12 (OP)	12 (OP)	12 (OP)	12 (OP)
Type of Aggregate	Coarse	To B.S.	882, 1201	882, 1201	882, 1201	882, 1201	882, 1201
	Fine	To B.S.	882, 1201	882, 1201	882, 1201	882, 1201	882, 1201
Nominal Maximum Aggregate Size (mm)			20	20	20	20	20
Concrete Grade			C20	C25	C30	C35	C40
Minimum Cement Content		kg/m <sup>3</sup>	240	260	275	300	325
Sampling Rate		#/m <sup>3</sup>	20	20	20	20	20
Workability	Slump	mm	40-70	40-70	40-70	40-70	40-70
	Flow	mm					
Maximum Free Water / Cement Ratio			0.8	0.7	0.65	0.6	0.55
Admixtures	Prohibite d		Yes	Yes	Yes	Yes	Yes
	Specified						
Density of Concrete	Minimum	kg/m <sup>3</sup>	2250	2250	2250	2250	2250

Mix Cement Content	kg/m <sup>3</sup>	262	314	373	430	450
Mix Fine Aggregate	kg/m <sup>3</sup>	800	686	583	483	477
Mix Coarse Aggregate	kg/m <sup>3</sup>	978	1030	1084	1127	1113
Water Content	l/m <sup>3</sup>	210	220	210	210	210
Admixtures	l/m <sup>3</sup>	Nil	Nil	Nil	Nil	Nil
Rate **	Lm/ m <sup>3</sup>	13.64 ,7	14.36 ,5	15.39 ,1	16.41 ,7	17.44 ,4

## STRUCTURAL CONCRETE MIX SCHEDULE 'B'

			Item 1	Item 2	Item 3
MIX DESCRIPTION					
Type of Mix			Designe d	Designe d	Designe d
Type of Cement		To B.S.	12 (OP)	12 (OP)	12 (OP)
Type of Aggregate	Coarse	To B.S.	882, 1201	882, 1201	882, 1201
	Fine	To B.S.	882, 1201	882, 1201	882, 1201
Nominal Maximum Aggregate Size (mm)			20	20	20
Concrete Grade			C30	C35	C40
Minimum Cement Content		kg/m <sup>3</sup>	275	300	325
Sampling Rate		#/m <sup>3</sup>	20	20	20
Workability	Slump	mm			
	Flow	mm	510-620	510-620	510-620
Maximum Free Water / Cement Ratio			0.65	0.6	0.5
Admixtures	Prohibite d		No	No	No
	Specified		(a)	(a)	(a)
Density of Concrete	Minimum	kg/m <sup>3</sup>	2250	2250	2250

Mix Cement Content	kg/m <sup>3</sup>	373	430	450
Mix Fine Aggregate	kg/m <sup>3</sup>	587	567	560
Mix Coarse Aggregate	kg/m <sup>3</sup>	1090	1053	1040
Water Content	l/m <sup>3</sup>	200	200	200
Admixtures	l/m <sup>3</sup>	3.7	4.3	4.5
Rate **	Lm/ m <sup>3</sup>	15.39 ,1	16.41 ,7	17.44 ,4

## STRUCTURAL CONCRETE MIX SCHEDULE 'C'

			Item 1	Item 2	Item 3
MIX DESCRIPTION			MASS CONCRETE		
Type of Mix			Designed	Designed	Designed
Type of Cement		To B.S.	12 (OP)	12 (OP)	12 (OP)
Type of Aggregate	Coarse	To B.S.	882, 1201	882, 1201	882, 1201
	Fine	To B.S.	882, 1201	882, 1201	882, 1201
Nominal Maximum Aggregate Size (mm)			40	20	40
Concrete Grade			C15	C20	C20
Minimum Cement Content		kg/m <sup>3</sup>	175	180	150
Sampling Rate		#/m <sup>3</sup>	100	100	100
Workability	Slump	mm	40-70	40-70	40-70
Maximum Free Water / Cement Ratio			0.7	0.6	0.6
Admixtures	Prohibited		Yes	Yes	Yes
	Specified				
Density of Concrete	Minimum	kg/m <sup>3</sup>	2200	2200	2200

Mix Cement Content	kg/m <sup>3</sup>	200	262	240
Mix Fine Aggregate	kg/m <sup>3</sup>	1116	890	726
Mix Coarse Aggregate	kg/m <sup>3</sup>	744	891	1090
Water Content	l/m <sup>3</sup>	140	157	144
Admixtures	l/m <sup>3</sup>	Nil	Nil	Nil
Rate **	Lm/ m <sup>3</sup>	10.77, 4	11.03, 0	10.77, 4

## STRUCTURAL CONCRETE MIX SCHEDULE 'D'

			Item 1	Item 2	Item 3
MIX DESCRIPTION			UNDERWATER CONCRETE		
Type of Mix			Designe d	Designe d	Designe d
Type of Cement		To B.S.	12 (OP)	12 (OP)	12 (OP)
Type of Aggregate	Coarse	To B.S.	882, 1201	882, 1201	882, 1201
	Fine	To B.S.	882, 1201	882, 1201	882, 1201
Nominal Maximum Aggregate Size (mm)			40	40	20
Concrete Grade			C20	C20	C25
Minimum Cement Content	kg/m <sup>3</sup>		350	350	350
Sampling Rate		#/m <sup>3</sup>	100	100	100
Workability	Slump	mm	125	125	
	Flow	mm			510-620
Maximum Free Water / Cement Ratio					
Admixtures	Prohibite d		Yes	Yes	No
	Specified				(d)
Density of Concrete	Minimum	kg/m <sup>3</sup>	2300	2300	2300

Mix Cement Content	kg/m <sup>3</sup>	350	350	400
Mix Fine Aggregate	kg/m <sup>3</sup>	870	870	760
Mix Coarse Aggregate	kg/m <sup>3</sup>	870	870	930
Water Content	l/m <sup>3</sup>	210	210	210
Admixtures	l/m <sup>3</sup>	Nil	Nil	3.50
Rate **	Lm/ m <sup>3</sup>	16.41 ,7	16.41 ,7	16.93 ,0