READYMIX

CONCRETE MIX DESIGN SUBMISSION REPORT

Serial No. ***

CONTRACTOR : **********

GRADE OF CONCRETE : **40 OPC**
SPECIFIED STRENGTH : **40** N/mm2 : @ **28** DAYS
PROPORTION DEFECTIVES : **1.64** : (**5** %) STD
TYPE OF CEMENT: **OPC**/~~SRPC/RHPC~~/ : **TYPE I**
TYPE OF FINE AGGREGATE : **WASHED SAND**
S/G OF F. AGG (SSD) : **2.60** ABSORTION
TYPE OF COARSE AGGREGATE : **IMPORTED STONE**
S/G OF C. AGG (SSD) : **2.64** ABSORPTION
TYPE OF ADMIXTURE : **P 300R + R 800**
SLUMP REQUIRE : **100 ± 20** mm
ESTIMATED WATER/ CEMENT RATIO REQUIRE TO
ESTIMATED FINE AGGREGATE TO TOTAL

PROJECT: **********
TYPE OF STRUCTURE : **STRUCTURAL CONCRETE**
DESIGN STRENGTH: **48** N/mm2 @ : **28** DAYS
DEVIATION : **5** N/mm2 MARGIN : **8** N/mm2
SOURCE : **BHC** S/G : **3.15**
ZONE : **MEDIUM** F.M. :
- % SOURCE : **SG. PAKU**
CRUSHED/ ~~UNCRUSHED~~ MAX SIZE : **20mm**
- % SOURCE : : **********
DOSAGE : **300cc/100kg + 400cc/100kg** (WT/VOL)
ESTIMATED WATER REQUIRE : **150** kg/m3
ACHIEVE DESIGN STRENGTH : **40** %
AGGREGATE (S/A) : **30** %

MATERIALS	WEIGHT Kg/m3	CONVERSION FROM WEIGHT TO VOLUME	SOLID VOLUME PER 1000 LITRES	
WATER	150	150 ÷ 1	150.00	
CEMENT : WATER / W/C	370	370 ÷ 3.15	117.46	
ESTIMATED ENTRAPPED AIR 1.5 %	-	0.015 × 1000	15.00	
MORTAR CONTENT	520		282.46	(A)
TOTAL AGG : 1000-A			717.54	
F. AGG: B × S/G	559	**TOTAL AGG × S/A**	215.26	(B)
C. AGG: C × S/G	1326	**1000 - (A + B)**	502.28	(C)
TOTAL	2405		1000.00	

MIX PROPORTION PER CUBIC METER *(*TO THE NEAREST 5KG)*

W/C %	S/A %	CEMENT	WATER	F. AGGREGATE	C. AGGREGATE	ADMIXTURE
40	30	370kg	150 lit	560kg	1330kg	P300R – 1100ml R800 – 1480 ml

MIX PROPORTIONS: 1:1.51:3.59 AGGREGATE/ CEMENT RATIO: 5.11:1
REMARKS:

NOTE: 1 N/mm2 = 1MN/m2 = 1 MPA
1 INCH = 2.54 cm

READYMIX CONCRETE (B) SDN BHD BRUNEI DARUSSALAM

Form RMC 29, Issue 3, Date: 2/3/2010