

CONCRETE MIX DESIGN SUBMISION REPORT

Serial No. *****

CONTRACTOR : *****

PROJECT : *****

GRADE OF CONCRETE : **20 OPC**
 SPECIFIED STRENGTH : **20** N/mm2 : @ **28** DAYS
 PROPORTION DEFECTIVES : **1.64** : (**5** %) STD
 TYPE OF CEMENT: **OPC /SRC/RHPC** : **TYPE 1**
 TYPE OF FINE AGGREGATE : **WASHED SAND**
 S/G OF F. AGG (SSD) : **2.60** ABSORPTION - %
 TYPE OF COARSE AGGREGATE : **IMPORTED STONE**
 S/G OF C. AGG (SSD) : **2.64** ABSORPTION - %
 TYPE OF ADMIXTURE : **P300R+R800**
 SLUMP REQUIRE : **100 ± 20** mm
 ESTIMATED WATER/ CEMENT RATIO REQUIRE TO
 ESTIMATED FINE AGGREGATE TO TOTAL

TYPE OF STRUCTURE : **STRUCTURAL CONCRETE**
 DESIGN STRENGTH: **28** 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 : **160** kg/m3
 ACHIEVE DESIGN STRENGTH : **64** %
 AGGREGATE (S/A) : **36** %

MATERIALS	WEIGHT kg/m3	CONVERSION FROM WEIGHT TO VOLUME	SOLID VOLUME PER 1000 LITRES
WATER	160	160 ÷ 1	160.00
WATER CEMENT : ----- W/C	250	250 ÷ 3.15	79.37
ESTIMATED ENTRAPPED AIR <u>1.5</u> %	-	0.015 × 1000	15.00
MORTAR CONTENT	410		254.37 (A)
TOTAL AGG : 1000-A			745.63
F. AGG: B × S/G	698	TOTAL AGG × S/A	268.43 (B)
C. AGG: C × S/G	1259	1000 - (A + B)	477.20 (C)
TOTAL	2367		1000.00

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

W/C %	S/A %	CEMENT	WATER	F. AGGREGATE	C. AGGREGATE	ADMIXTURE
64	36	250g	160lit	700kg	1260kg	P300R - 750ml R 800 - 1000 ml

MIX PROPORTIONS : 1:2.8:5.04 AGGREGATE/ CEMENT RATIO : 7.84:1
 REMARKS : _____

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



Nairi

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