

CONCRETE MIX DESIGN SUBMISSION REPORT

Serial No. *****

CONTRACTOR : *****

GRADE OF CONCRETE : **35 OPC**
 SPECIFIED STRENGTH : **35** 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** ABSORPTION
 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 : **43** 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 : **44** %
 AGGREGATE (S/A) : **31** %

MATERIALS	WEIGHT Kg/m ³	CONVERSION FROM WEIGHT TO VOLUME	SOLID VOLUME PER 1000 LITRES
WATER	150	150 + 1	150.00
WATER CEMENT : ----- W/C	335	335 + 3.15	106.35
ESTIMATED ENTRAPPED AIR <u>1.5</u> %	-	0.015 × 1000	15.00
MORTAR CONTENT	485		271.35 (A)
TOTAL AGG : 1000-A			728.65
F. AGG: B × S/G	587	TOTAL AGG × S/A	225.88 (B)
C. AGG: C × S/G	1327	1000 - (A + B)	502.76 (C)
TOTAL	2399		1000.00

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

W/C %	S/A %	CEMENT	WATER	F. AGGREGATE	C. AGGREGATE	ADMIXTURE
44	31	335kg	150 lit	590kg	1330kg	P300R – 1005ml R800 – 1340 ml

MIX PROPORTIONS: 1:1.76:3.97 AGGREGATE/ CEMENT RATIO: 5.73:1
 REMARKS: _____

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



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