



STANDARD OPERATING PROCEDURE


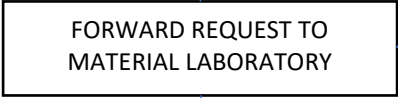
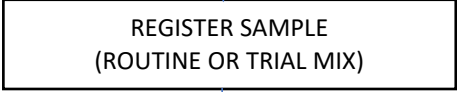
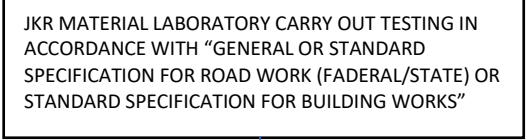
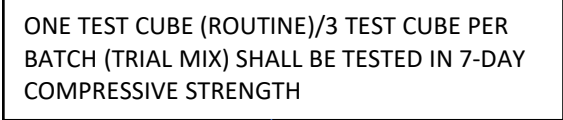
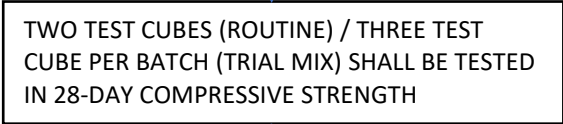
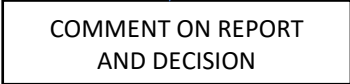

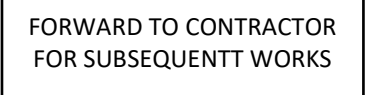
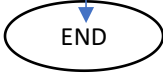
DESIGN MIX (TEST CUBE)

Ibu Pejabat JKR,
Jalan Sembulan,
88582 Kota Kinabalu, Sabah

Tarikh:

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1.0 FLOW CHART OF DEPARTMENTAL PROCEDURE FOR “DESIGN MIX (TEST CUBE)”

INTERFACE	PROCESS	RESPONSIBILITY
		
SOR -KPP/M&P		KPP/M&P
SOR -KPP/M&P		KPP/M&P
KPP/M&P -PT		KPP/M&P
KPP/M&P -PT		KPP/M&P
KPP/M&P -SOR		KPP/M&P
KPP/M&P -SOR		KPP/M&P
KPP/M&P -SOR		SOR
SOR -CON		SOR
SOR -CON		CON

2.0 STANDARD OPERATING PROCEDURE

INTERFACE	ACTION	RESPONIBILITY
CON -SOR	1. Forward testing request to JKR Material and Laboratory. Form has to be complete with Project's Name, Contract No. Type of samples (Trial mix or Routine), Type of Specification to be used, date made, Grade of Concrete and Contact Nombor of Person in charge. Letter from SOR shall be submitted together with the form.	KPP/M&P
SOR -KPP/M&P	2. Receive and Register Sample (Three Test cubes for routine and Eighteen Test Cube for Trial Mix (6 Cube/Batches) and obtain detail information on the project name, type of sample and the location where sample was taken.	KPP/M&P
KPP/M&P -PT	3. JKR Material Laboratory carried out testing in accordance with Departmental Instruction.	KPP/M&P
KPP/M&P -PT	4. If the cube strength falls below the 7-day strength as determine from the trial mixes, then the contractor shall take the necessary steps to review the process.	KPP/M&P
KPP/M&P -PT	5. The remaining test cubes from the same sample shall be tested for the 28-day compressive strength. Compliance according to the specification used.	KPP/M&P
KPP/M&P -SOR	6. Any non-compliance will be informed via phone call before the report is issued. Comment on report and make decision on compliance of Spec.	SOR
SOR -CON	7. If the average strength of any group of four consecutive sample test results fails to meet the first requirement (i), or more than one sample test result in a group fails to meet the second requirement (ii), then all the concrete in all the batches represented by all such sample test results shall be deemed not to comply with the strength requirements.	CON
SOR -CON	8. If compliance with Spec. and G.I.T. Forward the decision to contractor to proceed with subsequence works.	SOR

3.0 DEFINITION

KPP/M&P	-	Ketua Penolong Pengarah/Makmal & Penyiasatan Tapak.
SOR	-	Superintending Officer Representative who can be KPP or Project Engineer or District Engineer or Consultant Engineer appointed by PKR to supervise the works.
CON	-	The contractor undertakes the works.
PT	-	Pembantu Teknik (Technical Assistant).
Lab	-	Private Laboratory.
Spec	-	Standard or General Specification of Road Works.

4.0 REFERENCES

- i. Quality Manual – Section 8.2.4 – Monitoring and Measurement of Product (MK/JKR?JLN/01)
- ii. Quality Procedure – Construction Supervision (PK/JLN(SELIA)/02)
- iii. Guideline for Inspection and Testing of Road Works (State)
- iv. Standard Specification for Road Works (Federal)
- v. Contract Document & Drawing