

1 INTRODUCTION

- 1.1 STANDARDS MALAYSIA has established policies and procedures to ensure that during assessment and decision-making process, the laboratory's participation and performance in proficiency testing is taken into account (**SAMM Policy SP4**).
- 1.2 STANDARDS MALAYSIA may organise proficiency testing or other comparison programmes itself, or may involve another body judged to be competent.
- 1.3 STANDARDS MALAYSIA requires its accredited laboratories to participate in relevant proficiency testing or other comparison programmes, where available, and that corrective actions are carried out when necessary through analysis of their performance in relevant programmes. The minimum amount of proficiency and the frequency of participation shall be specified in cooperation with interested parties and shall be appropriate in relation to other surveillance activities (**SAMM Policy SP4**).

2 TYPES OF PROFICIENCY TESTING (PT) PROGRAM AND PT ACTIVITIES

- 2.1 A PT program is normally a program conducted by organiser. The following are common types of proficiency testing schemes/programme:-
- a) **Interlaboratory Testing**
Interlaboratory testing schemes involve randomly selected sub-samples from a source of material being distributed simultaneously to participating testing laboratories for concurrent testing. Occasionally, this technique is also used for interlaboratory measurement schemes. After completion of the testing, the results are returned to the coordinating body, and compared with the assigned value(s) to give an indication of the performance of the individual laboratories and the group involved.
- b) **Measurement Comparison**
Measurement comparison scheme involves the test item to be measured or calibrated being circulated successively from one participating laboratory to the next.

c) Measurement Audit

Other types of proficiency testing schemes may involve test items with known amounts of the measurement under test. It is then possible to evaluate the capability of an individual laboratory to test the item and provide numerical results for comparison with the assigned value. Once again, such schemes do not need the involvement of multiple laboratories.

- 2.2 In the absence of PT programme, laboratory may take its own initiative to conduct/participate PT activities as follows:

a) Split-Sample Testing

Split-sample testing involves comparisons of the data produced by small groups of laboratories (often only two laboratories) which are being evaluated as potential, or continuing, suppliers of testing services.

Split-sample testing activity involve samples of a product or a material being divided into two or more parts with each participating laboratory testing one part of each sample.

b) Qualitative

Such activity may involve the special preparation of test items with addition of the subject component by the scheme coordinator. As such, the schemes are "qualitative" in nature, and do not need the involvement of multiple laboratories or interlaboratory comparisons to evaluate a laboratory's testing performance.

c) Known-Value

Other special activity of proficiency testing may involve the preparation of test items with known amounts/value of the measurement under test. It is then possible to evaluate the capability of an individual laboratory to test the item and provide numerical results for comparison with the assigned value. Once again, such proficiency schemes do not need the involvement of multiple laboratories.

d) Partial-Process

Special types of proficiency testing involve the evaluation of laboratories abilities to perform parts of the overall testing or measurement process.

3 SOME OF THE PT PROVIDERS ARE AS FOLLOWS:

i) Calibration Programme

Programme	Schedule	Organiser / Contact Person
1) Proficiency Testing		
Electrical	once in 2 years	Department of Standards Malaysia Level 1 & 2, Block C4, Complex C Federal Government Administrative Centre 62502 Putrajaya Mr. Ahmad Razif Abd. Rahim Tel: 603-8885 8705 Fax: 603-8889 4100 E-mail: razif@standardsmalaysia.gov.my Website: www.standardsmalaysia.gov.my
Heat and Temperature		
Mass and Related Quantities, Dimensional		
2) Measurement Audit		
Electrical, Heat and Temperature, Mass and Related Quantities, Dimensional	By request	Department of Standards Malaysia Level 1 & 2, Block C4, Complex C Federal Government Administrative Centre 62502 Putrajaya Ms. Wong Fei Ting Tel: 603-8885 8277 Fax: 603-8889 4100 E-mail: wongft@standardsmalaysia.gov.my



Department of Chemistry Malaysia



Forest Research Institute Malaysia



Malaysian Rubber Board

ii) Testing Programme

ORGANISER 1: Department of Chemistry Malaysia

Programme	Schedule	Organiser / Contact Person
FODAS 1 Benzoic and Sorbic Acid in Food	2/year	Department of Chemistry Malaysia Proficiency Testing Unit Research Quality Assurance Division Department of Chemistry Jalan Sultan 46661 Petaling Jaya Selangor Website: www.kimia.gov.my
FODAS 10 Edible Oils and Fats (iodine value, slip melting point, free fatty acid)	yearly	
ENVITEST 2 Trace Metals in Water Al,Ca,Cd,Cr(total),Cu,Fe,Mg,Pb,Ni,Zn (0.2 – 3ppm)	2/year	
WAPAS 6 Hardness, Calcium and Magnesium in water	yearly	
FODAS 8 Coffee and Coffee Products; caffeine content	yearly	
WAPAS 1 Anions in Water; Chloride, Sulphite (200-500mg/l), Nitrate (5-20mg/l)	2/year	
WAPAS 5 Potassium and Sodium in Water (5-50mg/l)	yearly	
FODAS 2 Soya Sauce; Total Kjeldahl Nitrogen and Sodium Chloride Content	yearly	
ENVITEST 6 Mercury and Arsenic in Water (0.002 – 0.2ppm)	2/year	
ENVITEST 4 Total Solids, Suspended Solids, Dissolved Solids in Water (50 – 500mg/l)	yearly	
ENVITEST 5 Turbidity & Alkalinity of Water Samples	yearly	
FODAS 9 Heavy Metal in Food; Arsenic, Lead, Cadmium (1 – 3ppm)	yearly	Ms. Nor Azian Abu Samah Tel: 603-7985 3163 Fax: 603-7985 3014 E-mail: azian@kimia.gov.my
ENVITEST 1 BOD-5 days and COD for Industrial Effluent	yearly	
FODAS 11 Nutrition in Food (fat, protein, carbohydrate and energy)	yearly	
PORES 1 Palm Oil Mill and Rubber Factory Effluent Testing (BOD-3 days, Ammoniacal Nitrogen, Total Nitrogen, pH, Suspended Solids)	yearly	

ORGANISER 2: Malaysian Rubber Board (LGM)

Programme	Schedule	Organiser / Contact Person
IRA Regional TSR Laboratories Round Robin Crosscheck (RRIM PT 1)	2/year	Malaysian Rubber Board (LGM) 260 Jalan Ampang, 50450 Kuala Lumpur
SMR Laboratories Round Robin Crosscheck (RRIM PT 2)	2/year	Ms. Nur Salwanie Mohamed Resali Tel: 603-9206 3654 Fax: 603-4256 4654 E-mail: salwanie@lgm.gov.my
Standard Malaysian Rubber (SMR) for Malaysian SMR Laboratories	2/year	Quality Manager SMR Testing Control Section Quality Management & Standards Unit Tel: 603-4256 7033 Fax: 603-4256 4654
National Interlaboratory Testing Program Latex Testing. (DRC,TSC,NH3,MST,VFA No., pH, KOH No., Sludge, Coagulum, Brookfield Viscosity)	yearly	Dr. Faridah Hanim Ab Hanan Tel: 603-4254 6703 ext 362 Fax: 603-4251 9213 E-mail: fhanim@lgm.gov.my
National Interlaboratory Testing Program On Metallic Content in Latex. (Mg, Mn, Cu, Fe, Zn)	yearly	
Interlaboratory Testing Program on N-Nitrosamines Content in Rubber and Rubber Product	yearly	
Interlaboratory Cross Check on Examination Gloves	yearly	Tn. Hj. Haidzir Abdul Rahman Tel: 603-6156 1121 Fax: 603-6156 3304 E-mail: haidzir@lgm.gov.my
International Interlaboratory Testing Program on Extractable Protein Testing of NR Latex Examination gloves	2/year	Dr. Faridah Hanim Ab Hanan Tel: 603-4254 6703 ext 362 Fax: 603-4251 9213 E-mail: fhanim@lgm.gov.my
International Interlaboratory Testing Program on Residual Powder of Medical gloves	2/year	

ORGANISER 3: MSSS Standardisation Committee

Programme	Schedule	Organiser / Contact Person
Soil-PT pH (soil:water= 1:2.5), Organic C (Walkley & Black), Conductivity, Total N, Total P, Available P (Bray 2), Exchangeable K, Ca, Mg & Na, Cation Exchange Capacity (CEC), Particle size (clay, silt, coarse sand, fine sand)	3 rounds / year (4 samples/round)	MSSS Standardisation Committee on Soil, Plant and Fertilizer Analysis c/o Felda Analytical Laboratory Tun Razak Agricultural Research Centre P.O. Box 11, 27000 Jerantut Pahang, MALAYSIA Soil Coordinator En. Suhaidi Hamzah Felda Agricultural Services S/B Felda Analytical Laboratory P.O. Box 11, 27000 Jerantut, Pahang Tel: 609-4718 301 Fax: 609-4717 498 E-mail : suhaidi.h@felda.net.my
Plant-PT N, P, K, Ca, Mg, B, Cu, Fe, Mn, Zn, Cl & S	3 rounds / year (4 samples/round)	Plant Coordinator En. Ahmad Sarwani Adni Golden Hope Research Sdn. Bhd. Golden Hope Research Centre P.O. Box 207, Banting, Selangor Tel: 603-3120 2311 Fax: 603-3120 1197 E-mail : asa@goldenhope.com
Fertilizer-P N, P ₂ O ₅ , K ₂ O, MgO Citric Acid Soluble P ₂ O ₅	3 rounds / year (4 samples/round)	Fertilizer Coordinator Ms. Tan Lei Hong Applied Agricultural Research S/B Agronomy Research Unit Locked Bag 212, Sg. Buloh Post Office 47000 Sg. Buloh, Selangor Tel: 603-6156 2976 Fax: 603-6156 1757 E-mail: aarsb@pojaring.my

ORGANISER 4: Forest Research Institute Malaysia (FRIM)

Programme	Schedule	Organiser / Contact Person
CCA PT1 – CCA Formulation CCA PT2 – CCA Treated Wood	2/year	Wood Preservative Analytical Laboratory Wood Chemistry Division Forest Research Institute Malaysia (FRIM) Kepong, 52109 Kuala Lumpur Website: www.frim.gov.my Pn. Salamah Selamat / En. Shaharuddin Hashim Tel: 603-6279 7295/6/7 Fax: 603-6279 7859 E-mail: maakpt@frim.gov.my
Grammage Thickness Moisture content Water absorptiveness ISO brightness Opacity Burst strength Tear strength Tensile strength Bending resistance Ring crush	yearly	Paper Testing Laboratory Wood Chemistry Division Forest Research Institute Malaysia (FRIM) Kepong, 52109 Kuala Lumpur Website: www.frim.gov.my Pn. Sharmiza Adnan Tel: 603-6279 7322/7289 Fax: 603-6280 4620 E-mail: sharmiza@frim.gov.my

For further information, kindly contact:

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SKIM AKREDITASI MAKMAL MALAYSIA (SAMM)

Information on Proficiency Testing (PT) Provider and PT Activities

