

**PERFORMANCE REPORT  
AND  
ANNUAL ACCOUNTS 2016**

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## **Measurements Units, Standards and Services Department Performance Report and Annual Accounts - 2016**

The aim of this report is to show the basic policy, projects of Measurement Units, Standards & Services Department which have been implemented and to represent the progress of the projects that have been implemented during the year 2016.

### **1. The Department and Its Functions**

#### **1.1 Introduction**

Measurement Units, Standards and Services Department (MUSSD) was established under the Measurement Units, Standards and Services Act No. 35 of 1995. MUSSD functions under the purview of ministry of industry and Commerce. The department is responsible for, providing accurate and reliable measurement procedures and metrology services, safeguarding the interests of the consumer, maintaining and updating the National Measurement Standards in conformity with the international measurement system by implementing the law and regulations of this act.

Each country in the world has a special establishment responsible to realize, establish and maintain the national measurement standards. It is generally called National Measurement Institute (NMI). MUSSD bears the responsibilities of the NMI in Sri Lanka. Establishment, maintenance, and dissemination of national measurement standards in Sri Lanka are done by the National Measurement Laboratory (NML) established under the department. Moreover various calibrations and verification services for measuring instruments used in fields such like industry, engineering, environment, health protection, road safety etc; are provided by MUSSD.

Further the recommendations of OIML<sup>1</sup> are followed in legal metrological activities. Pattern approval of electrical and mechanical weighing and measuring instruments, initial and annual verification of such instruments are being done according to those recommendations.

#### **1.2 Vision**

Accurate and reliable measurements for well protected customer community

#### **1.3 Mission**

“To establish, maintain & disseminate the national measurement standards in compliance with international standards, ensuring justice & equity for producers, traders, metrological & other service providers & consumers, through the regulatory & service activities based on measurements to uplift the quality of life and standards of Sri Lankans”

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<sup>1</sup> International Organization of Legal Metrology

## **1.4 Metrology**

Metrology is the science of measurements and its applications. Measurements related to various quantities such like mass, length, time, pressure, volume, electric current, electric resistance etc; are frequently necessary in the daily life activities. All the researches, scientific and regulatory activities carried out internationally and locally for sustaining a unity of physical quantities and units can be defined to be Metrology.

Metrology can be classified into three fields.

1. Scientific Metrology (Fundamental Metrology)
2. Industrial Metrology (Applied Metrology)
3. Legal Metrology

Out of these fields industrial metrology and legal metrology are extensively rely on the basis of scientific metrology.

### **1.4.1 Scientific Metrology (Fundamental Metrology)**

This is major out of three fields in metrology, sometimes referred to as Fundamental Metrology, is the subject concerns the establishment of quantity systems, unit system of measurement, development of new measurement methods, establishment, definition, and realization of local and international measurement standards, and transferring traceability to the user in the society through the hierarchy of such standards. Also scientific metrology covers theoretical and practical aspects of identification and resolving measurement problems and related issues.

Implementation of activities related to Scientific Metrology is as follows.

1. Establishment of the National Measurement Laboratory and National Measurement System of the country
2. Realization, establishment, updating, maintenance and dissemination of National Measurement Standards
3. Establishment and maintenance of the National Measurement Standards so as to traceable to International Measurement Standards (SI)
4. Dissemination and promotion of measurement parameters and technology necessary for different fields
5. Upgrading the calibration and measurement capabilities (CMC) by participating in international bilateral and multilateral inter-comparisons related to various quantities
6. Providing training and consultancy services on metrology
7. Metrology researches
8. Generating Sri Lanka Standard Time and broadcasting via [www.sltime.org](http://www.sltime.org)

### **1.4.2 Industrial Metrology (Applied Metrology)**

Industrial Metrology concerns how to apply measurement science to manufacturing and industrial processes. Ensuring the compliance of use of measuring instruments, industrial metrology addresses the application of measuring instruments in industry, and quality control of them. There the management of measuring instruments and

industrial calibration are done according to the requirements of a quality production process.

Activities carried out by the department related to Industrial Metrology are as follows.

1. Providing necessary laboratory facilities for calibration of measures and measuring instruments/systems used in production industry (including laboratory calibrations and on site calibrations)
2. Inspection and verification of large scale measuring instruments established in production and service industries
3. Providing necessary training and consultancy on resolving measurement problems raised in industrial measurements

### **1.4.3 Legal Metrology**

Legal Metrology concerns the field of legal control of measurement. It is the process of certifying measures and measuring instruments to be complied with measurement laws in the country after the inspection of such instruments and measures according to the legal requirements on the use of measuring instruments. Necessary legal provisions have been provided via the act No. 35 of 1995. Accordingly, law and regulations made are implemented throughout the sectors like health, public safety, environment, enabling taxation, protection of consumers and fair trade.

Activities under legal metrology implemented by Measurement Units, Standards & Services Department have been defined in the act and its regulations. Weighing and measuring found in all the commercial transactions are controlled by measurement law. The act empowers the department to regulate legal metrological activities in the following ways.

1. Calibration of working standards and establishment of such standards in district basis (according to the act the District Secretary serves as the Superintendent of Measurement Services also and working standards are kept under the custody of him)
2. Initial and annual verification of weights, measures, weighing and measuring instruments used in trade
3. Registration of manufacturers, importers, repairers and sellers of weights, measures, weighing and measuring instruments used in trade
4. Protect consumers by implementing the penal section of the act
5. Consumer awareness on Legal Metrology
6. Granting pattern approval of weights, measures, weighing and measuring instrument used in trade and industry (This service is provided by the National Measurement Laboratory)
7. Inspection and control of pre-packed commodities
8. Verification of measuring instruments related to health sector, environment protection, and road safety
9. Prosecution against persons who commit fraud measurements by conducting market raids

**1.5 Staff Information****1.5.1 The Cadre Composition – 2016** (table 1)

Position	Salary Scale	Service Category	Class	Approved Cadre	Actual Cadre			Vacancies
					Permanent	Casual	Acting	
Director MUSS	SL-1-2016	SLSS	I	01	-	-	01	01
Deputy Director MUSS/ Assistant Director MUSS	SL-1-2016	SLSS	III/II/I	11	10	-	-	01
Assistant Director (Admin)	SL-1-2016	SLAS	III	01	-	-	-	01
Assistant Director (departmental)	SL-1-2016	Departmental		01	-	-	-	01
Accountant	SL-1-2016	SLAcS	II/I , II/II	01	01	-	-	-
Accountant (Internal Audit)	SL-1-2016	SLAcS	II/I, II/II	01	-	-	-	01
Administrative Officer	MN-7-2016	Public Management Assistant Service	Supra	01	01	-	-	-
Assistant Superintendent of MUSS	MN-7-2016	Departmental		04	-	-	02	04
Measurement Services and Devices Inspector	MN-7-2016	SLTS (special)		25	11	-	-	14
Metrology Experimental Officer	MN-4-2016	Departmental		18	04	-	-	14
District Metrology Investigation Assistant	MN-4-2016	Departmental		03	03	-	-	-
Information &Communication Technology Officer	MN-4-2016	IT Service		01	01	-	-	-
Development Officer	MN-4-2016	Development Officers Service		60	41	-	-	19



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Position	Salary Scale	Service Category	Class	Approved Cadre	Actual Cadre			Vacancies
					Permanent	Casual	Acting	
Librarian	MN-3-2016	Sri Lanka Government Librarian Service		01	-	-	-	01
Inspector of MSD	MN-3-2016	Sri Lanka Technical Service	III/II/I	91	44	-	17	30
Laboratory Assistant	MN-3-2016	Departmental		04	-	-	01	03
Public Management Assistant	MN-2-2016	Public Management Assistant Service		20	17	-	-	03
Technician	MT3/PL3	Departmental		02	-	-	-	02
Mechanic	PL3-2016	Departmental		02	02	-	-	-
Driver	PL3-2016	Combined Service		10	10	-	-	-
Measurement Standards & Services Assistant	PL2-2016	Departmental		63	44	-	-	19
Laboratory Attendant	PL2-2016	Departmental		10	03	-	-	07
Lorry Assistant	PL1-2016	Departmental		02	02	-	-	-
Office Assistant	PL1-2016	Office Assistant Service		05	05	-	-	-
Office Assistant	PL1-2016	Departmental, and Combined Service		01	01	-	-	-
Security	PL1-2016	Departmental		01	-	-	-	01
Sanitary Worker	PL1-2016	Departmental		01	-	-	-	01

**1.5.2 Staff Updates in 2016** (table 2)

<b>Position</b>	<b>New recruitments</b>	<b>Retirements</b>	<b>Transfer Arrivals</b>	<b>Transferred Out</b>	<b>Promotions</b>	<b>Resignations</b>	<b>Leave the Position</b>	<b>Deaths</b>	<b>SLTS (Trainee)</b>
Assistant Director (Admin)	-	-	-	01	-	-	-	-	-
Accountant	01	-	-	-	-	-	-	-	-
Administrative Officer	01	-	-	-	-	-	-	-	-
Inspector of MSD (Special)	11	-	-	-	-	-	-	-	-
Development Officer	-	-	01	-	-	-	-	-	-
Inspector of MSD	-	01	-	-	16	01	-	-	-
Management Assistant	05	-	02	06	-	-	-	-	-
Driver	-	-	01	-	-	-	-	-	-
Measurement Standards & Services Attendant	-	02	-	-	-	-	-	-	-
Office Assistant	-	01	01	01	-	-	-	-	-

## **2. Services Provided by the Department**

### **2.1 Pattern Approvals**

The pattern approval is an attestation of any weight, measure or weighing/measuring instrument after a pattern test, performed by a recognized laboratory to check whether they are in conform with the measurement law in Sri Lanka, before they are sent to the market by a producer or before they are imported. Pattern approval is a technical assessment. The original model of the instrument is undergone through a series of tests at the National Measurement Laboratory. The design and the structure of each of the components of the instrument are checked against the recommendations on type approval defined by the International Organization of Legal Metrology – (OIML). Subsequently based on the evaluation of the test results a pattern approval is granted by MUSSD for the intended weights, and measuring instruments including vehicle emission testing units, and fuel dispensers (Appendix 1, and 2).

### **2.2 Industrial Calibrations**

Calibration facilities for pressure gauges, thermometers, weights, scales and length measuring instruments, electrical measuring instruments, moisture meters, laboratory balances etc; which are used in industry, engineering or any other related field are now available at MUSSD. Calibration certificates are also issued with such calibrated instruments.

Industrial calibration is one of the main services provided by the National Measurement Laboratory. Moreover verification of vehicle speed detectors and vehicle emission testing instruments has been started (table 8). Amendments of calibration charges are as per the extraordinary gazette No. 1921/54 dated 2 July 2015.

### **2.3 Re-verification of Working Standards**

Working Standards used for verifying weighing and measuring instruments related to trade and industry have been retained under the custody of secretary of each district in the country. These standards must be calibrated once in two years. Calibration of working standards is done at the National Measurement Laboratory. Working standards include standard weights, standard volume measures, and standard length measures.

### **2.4 Verifications, Inspections, and Raids of Weighing and Measuring Instruments Conducted on District Basis**

Inspections and raid programmes are implemented by MUSSD to ensure that the weights, measures, weighing and measuring instruments used in the country are utilized in conformity with the weights and measures laws and regulations of the country. These programmes are very helpful, in terms of legal metrology, not only to protect the customer but also to ensure an accurate and reliable measuring practice in the country.

Verification of weights, measures, weighing and measuring instruments used in trade is done by Measurement Services and Devices Inspectors who assume duties at

Measurement Units, Standards & Services Divisions of each District Secretariat. Verification centers are held at Pradeshiya Sabha and any other government institutes of each district under the prior approval of the District Secretariat. Moreover a mobile verification unit for weigh bridges has been commissioned to verify annually all weigh bridges placed in every district. All fuel dispensers mounted at every fuel station in the country are verified once every year. For the particular purpose a Fuel Dispensers Verification Unit has been introduced. (Tables 15, 16, 17, and 18)

## **2.5 Inspection of Pre-Packed Commodities**

The commodities that have been packed before selling to the consumers are called Pre-Packed Commodities. Net content mentioned (weight, volume, length etc) on the pre-packed item is undergone to inspections for verifying whether the right content is available at the display of goods in the market. Inspection of pre-packages is performed according to OIML regulations.

When inspecting pre-packages, samples of a particular item available at the display in the market are arbitrarily selected and subsequently the net content (weight, volume, length etc) of the item is measured. Here a definite number of replicas of such pre-packed item are inspected in their content. The results are then analyzed statistically. The final decision on the pre-package would be based on the statistical analysis and regulations made on prepackages by the department after comparing the net content and the results against the recommended tolerance/permissible error. Further details are referred to the extraordinary gazette No. 1499/7 dated 29 May 2007.

## **2.6 Registration of Private Entrepreneurs Engaged in Commercial Activities Controlled over Legal Metrology**

Any organization or individual who is engaged in selling, manufacturing, importing or repairing of weights, measures, weighing and measuring instruments must get registered with the department as per section 21 of the Measurement Units, Standards and Services act. For that the person must apply via a prescribed application form determined by the Director of Measurement Units, Standards and Services and the corresponding fees must be paid. The certificate issued in such registrations will be expired on 31<sup>st</sup> December of the year.

Before starting a business of repairing weights or measuring instruments the interested person should first face to a practical test hold by MUSSD to prove his competencies and qualification related to such repair activities. Examination fees should be paid by the person.

Subsequently the workshop of the applicant who is qualified through the practical examination is inspected by the officers of MUSSD to check whether the necessary tools and equipment are readily available for the repair purpose.

After qualifying through the practical test and satisfactory witness of the workshop a registration certificate is issued to the applicant (tables 13, 14). The certificate empowers the person to be a qualified repairer. This certificate is not transferable. In case of any change of the business ownership, a qualified technician must be appointed in the business immediately.

Registration fees and all related details have been published in the extraordinary gazette No. 1921/54 dated 2 July 2015.

### **2.7 Generation and Broadcasting the Standard Time of Sri Lanka**

MUSSD possesses the honor to be the pioneer of generating and broadcasting the Standard Time in Sri Lanka since 2011. Sri Lanka Standard Time was launched by the Electric Time and Frequency Laboratory of NML as a new project in order to establish the island wide unity of time. For the purpose a Rubidium Atomic Clock has been established to generate the accurate time in Sri Lanka in accordance with Universal Time Coordinates (UTC) and the new website [www.sltime.org](http://www.sltime.org) was launched in April 2011 to broadcast the accurate time. People are now able to set their time correctly via the website at any time in the day. All the respective parties are informed to set their clocks with correct time using the website.

Presently steps have been taken to upgrade this extensively developing service by introducing a Caesium Atomic Clock which is able to generate the most accurate time in the world.

### **2.8 Calibration of Measuring Instruments Used in Health Sector**

It is ensured the accuracy of measuring instruments such like weighing machines, scales, blood pressure meters, and thermometers, used in health sector by calibrating them which in turn results in a reliable diagnose and treatment. In this regard MUSSD is capable of providing calibration/verification facilities for hospitals and other related institutes.

### 3. International Relations, Training Programmes, and Conferences

Relations in metrological perspectives are created with various countries in order to maintain the international and regional corporation of Metrology. It also helps to establish international traceability of measurement and overcome the technical barriers arise in trade. International relations are essential further to provide a secure basis for scientific and other measurement practices we have and to reduce technical disputes arising in many countries.

MUSSD has been continuing relations with the following organizations related to metrology.

1. Membership of the International Organization of Legal Metrology (OIML)
2. Membership of the Asia Pacific Metrology Programme (APMP)<sup>2</sup>
3. Associate membership of the International Committee of Weights and Measures (CIPM)<sup>3</sup> and Mutual Recognition Agreement (MRA)<sup>4</sup>
4. Participation in various projects implemented under SAARC-PTB bilateral technical corporation (corporation between German Metrology Institute and SAARC) as a regional country

Apart from the above relations MUSSD has participated in international comparison programmes pertaining to various physical quantities every year and has proven satisfactory results from them. Officials from MUSSD have participated in many foreign training programmes and conferences related to metrology in 2016. (table 11)

### 4. Local Training Programmes

#### 4.1 Training Programmes Conducted by MUSSD

A special programme was launched in 2016 to offer training opportunities necessary for the field of metrology. At present MUSSD has had enough resource persons to offer training on Chemical Metrology and Uncertainty Calculations. Information on such training programmes conducted in 2016 is given in table 3 below.

Name of the course	Dates	Number of participants	Fee* Rs.
Uncertainty Estimation in Measurement Science	2016.03.31	23	9500.00
Uncertainty Estimation in Measurement Science	2016.07.28	30	9500.00
Laboratory Quality Management	2016.12.15	10	7500.00

\*Fee per person

<sup>2</sup> Asia Pacific Metrology Programme

<sup>3</sup> International Committee for Weights and Measures

<sup>4</sup> Mutual Recognition Arrangement

**4.2 Training Programmes/Workshops for Staff of MUSSD (table 4)**

<b>Name of the course</b>	<b>Dates</b>	<b>Number of participants</b>	<b>Expenses Rs.</b>
World Metrology day	2016.05.25	150	59,669.00
World Environment day	2016.06.16	100	30,200.00
Two days Residential workshop for all the staff	2016.09.30 2016.10.01	225	790,376.00

**4.3 Orientation of Officers in Local Training Programmes**

MUSSD is always actively interested in identifying necessary training needs of all officers in every section. It is believed that every officer of the department must have to maintain a proven track record of skills related to his daily work. Necessary training is provided to officers so that they can improve their gained knowledge further and enable them to have promotions with updated knowledge and well experience at work. Information on local training programmes in which MUSSD officers were participated is represented in table 12.

**5. Physical Development****5.1 Procurement of Physical Items**

This is reference to all furniture, electric appliances, laboratory instruments and office needs procured in 2016. These procurements cover the needs of headquarters. (table 6)

**5.1.1 Procurement of Standard Measuring Instruments**

Tabulated is information related to standard measuring instruments required for the National Measurement Laboratory procured in 2016. (table 5)

<b>Instrument Name</b>	<b>Quantity</b>	<b>Total Cost Rupees</b>
Water Triple Point Cell	3	1,421,217.53
Dry block calibration bath for low Temperature	2	2,213,993.32
Temperature & Humidity data logger	2	824,392.26
Hydraulic standard pressure balance	1	17,338,666.64
Pneumatic standard pressure balance	1	19,330,025.11
High Temperature Shield for data Loggers	10	980,000.00
Dry Ice Maker	1	262,857.70

**5.1.2 Facilities Provided to Head Office**

(table 6)

	<b>Facilities Provided</b>	<b>Quantity</b>	<b>Total Cost Rupees</b>
1	LED 32" Television	02	91,000.00
2	LED 42" Television	01	85,080.00
3	Photocopy Machine & Stand	05	727,500.00
4	Office Table	07	125,217.00
5	Office Table	06	32,400.00
6	Office Cupboard	08	116,523.00
7	Reception Table	01	60,500.00
8	Reception Chair	01	11,000.00
9	Computer Chair	14	130,485.60
10	File Rack	11	192,060.00
11	Mid back Chair	03	33,258.00
12	Cabinet with 4 Lockers	04	61,081.08
13	Lab Table (Small)	02	92,303.20
14	Lab Table (Large)	02	133,256.00
15	Air Conditioner Machine	24	3,643,174.90



## 5.2 Future Projects

### 5.2.1 Pattern Approval and Verification Center of Taxi Meters

This project has been proposed to facilitate people with an accurate and reliable travel fare counting system of taxi meters of which the accuracy must be verified. Through this project, the metrological parameters related to taxi meters are controlled. Same as every other measuring instrument used in trade, the legal control of taxi meters will comprise four components; the pattern approval of the meter, initial verification, road test after the installation of the meter, and annual verification.

At present, two institutes have applied for the pattern approval of taxi meters. One intermediate approval for the pattern of taxi meter has been granted for one of the institutes. The other institute has been informed on issues related to the suitability of the pattern of taxi meter which they have submitted for an approval. The corrected sample will be tested after they resubmit the pattern of the taxi meter. None of the other institutes identified have submitted their taxi meter samples for the approval.

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In conclusion, I would like to extend my sincere thanks to all the staff of the department and the District Secretaries for their corporation and support in carrying out the duties and bearing responsibilities that are reposed on me of this department in an efficient manner.

K. Premasiri Kumara  
Acting Director  
Measurement Units, Standards and Services Department

## 6. National Measurement Laboratory

### 6.1 Information on Calibration Services Provided by Each Laboratory (table 7)

	Name of the Laboratory	Calibration Facilities Provided
1	Thermometry Laboratory	Clinical Thermometer Industrial & laboratory Thermometers Dial Thermometer Probe RTD & Thermocouple Thermometer Liquid in Glass Thermometer Maximum Registered Thermometer Min Max Thermometer Wall Thermometer Surface Probe Infrared Thermometer Wood Moisture Meter IR Moisture Meter Moisture Balance Standard Platinum Resistance Thermometer (Comparison Method) Standard Platinum Resistance Thermometer (Fixed Point Method) Industrial Thermocouple (Comparison Method) Industrial Thermocouple (Fixed Point Method) Liquid & Dry Block Calibration Bath Temperature Chart Recorder Laboratory Oven & Furnace Autoclave Incubator & Water Bath Deep Freezer & Refrigerator (Single Chamber, Dual Chamber) Cold Room (Room Temperature Measurement) Cold Room (With Thermal Switch Indicator) Thermal Switch/Controllers Digital Hygrometer Wet & Dry Bulb Hygrometer
2	Electric Power and Energy Laboratory	kWh meter (single phase) kWh meter (Three phase) kVA meter (Three phase) Potable power/energy meter (single phase) Accuracy class 0.1/0.2 Potable power/energy meter/energy (Three phase) Accuracy class 0.1/0.2 Reference Meter (Used in meter testing benches/single phase) Reference Meter (Used in meter testing benches/single phase) Energy Meter (laboratory/single phase) Accuracy class 0.1/0.2 Energy Meter (laboratory/Three phase) Accuracy class 0.1/0.2 Power Meter (single phase/stationary/Mobile/Lab) Power Meter (three phase/stationary/Mobile/Lab)
3	Volumetric Laboratory	Un Subdivided Measures Volumetric measures Measuring cylinders Road Tanks Micropipettes, Pipettes & Burettes only for 3 points

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4	Pressure Laboratory	Pressure Gauge Sphygmomanometers Digital Blood Pressure Meter
5	Mass Laboratory	Weights (OIML Class E2) Weight (OIML Class F1) OIML Class F2, M/Stainless Steel Industrial Weights Other Industrial Weights Balances-Class I Balances-Class II Balances-Class III & IIII Weights Bridges Button Puller Machine Hopper Scale
6	Length Laboratory	Ruler/tape Gauge Blocks Vernier Calipers Micrometers Diameter gauge Height gauge instrument Caliper tester Feeler Gauge Thickness Dial Gauge
7	Electric Time and Frequency Laboratory	Voltmeter Ammeter Ohmmeter Multi-meter 6.5 AC/DC Resistor Time/Stop watch Frequency/Tachometer Oscilloscope Function Generator

**6.2 Revenue of Calibration Services Provided by National Measurement Laboratory – 2016 (table 8)**

Month	Mass Laboratory		Length Laboratory		Thermometry Laboratory		Electric Time and Frequency Laboratory		Electric Power and Energy Laboratory		Volumetric Laboratory		Pressure Laboratory	
	No. of Units	Income Rs.	No. of Units	Income Rs.	No. of Units	Income Rs.	No. of Units	Income Rs.	No. of Units	Income Rs.	No. of Units	Income Rs.	No. of Units	Income Rs.
January	1	1,500	8	14,000	20	48,400	2	6,000	1	4,500	0	0	1	1,500
February	4	3,500	4	6,000	2	16,000	5	13,500	1	60,000	0	0	0	0
March	20	130,100	5	10,000	2	2,500	7	20,000	1	6,000	8	5,800	2	3,000
April	40	30,950	33	62,000	30	64,780	3	10,000	0	0	3	6,000	5	7,500
May	4	6,000	27	54,000	3	11,750	2	4,500	0	0	2	1,800	2	3,000
June	17	34,900	14	25,500	10	24,310	2	4,500	0	0	0	0	1	1,500
July	33	51,000	18	31,000	21	39,960	7	14,000	6	8,500	0	0	8	11,000
August	25	45,900	15	26,000	26	46,770	4	14,000	1	2,000	1	800	5	8,600
September	6	7,000	9	20,800	6	12,050	3	6,000	8	9,600	2	2,900	8	12,000
October	32	332,300	12	26,700	23	45,040	2	7,000	1	2,000	0	0	0	0
November	176	269,200	20	37,500	2	6,400	4	15,000	2	2,400	2	1,500	24	36,000
December	19	33,900	40	58,000	18	42,910	2	4,000	0	0	8	19,900	9	13,500
<b>Total</b>	<b>377</b>	<b>946,250</b>	<b>205</b>	<b>371,500</b>	<b>163</b>	<b>360,870</b>	<b>43</b>	<b>118,500</b>	<b>21</b>	<b>95,000</b>	<b>26</b>	<b>38,700</b>	<b>65</b>	<b>97,600</b>

**6.3 Pattern Approval of Weighing and Measuring Instruments – Year 2016** (table 9)

Type of Pattern Approval	Number of Units	Fee Rs.
Electronic Weighing Machines	27	513,600.00
Volumetric Measures	1	20,000.00
Fuel Dispensers	22	460,000.00
Taxi Meter	1	20,000.00
<b>Total</b>	<b>51</b>	<b>1,013,600.00</b>

**6.4 Summary of Income – National Measurement Laboratory** (table 10)

Service Category	No. of Instruments	Fee Rs.
01. Calibration of weights & scales	377	946,250.00
02. Calibration of length measurement	205	371,500.00
03. Calibration of thermometric instrument	163	360,870.00
04. Calibration of pressure gauges instrument	65	97,600.00
05. Calibration of radar equipment, analog and digital inspection instruments, stop watches, air flow meters, various multi meters, resistance substitute instruments, hip hop testers, mega ohm meters, broad band timers, load cell stimulators, clamp meters, insulation testers and tachometers.	43	118,500.00
06. Pattern approval fuel dispensing pumps and scales pattern approval of first and second testing	51	1,013,600.00
07. Calibration of volumetric instrument	26	38,700.00
08. Calibration of electricity meters	21	95000.00
09. Inspection of pre-packages	8	44,640.00
10. Inspection of Lidar Speed Detectors	28	56,000.00
11. Training Programmes (Chemical Metrology and Uncertainty Calculations)		531,000.00
<b>Total</b>	<b>987</b>	<b>3,673,660.00</b>

**Foreign Trainings & Conferences – 2016** (table 11)

	Name of the officer	Designation	Country	Time Period	Training/ Conference
01	Mrs. J .S .M .Silva	Assistant Director	Thailand	25.01.2016 – 29.01.2016	Kick Workshop for the Inter – Laboratory Comparison exercise for Hydraulic Pressure Standards under the project of “Regional Cooperation in the Area of Metrology in Asia” and cooperation between APMP and PTB
02	Mr. H.L.I.S. Sampath				
03	Mrs. R. C. Karunasena	Metrology Investigation Assistant	Korea	21.03.2016 – 01.04.2016	Metrology in Chemistry (MiC) organized by the Global Metrology Academy (GMA) of KRISS, Korea
04	Mr. A. D. D. Naminda	Assistant Director	Nepal	30.03.2016 - 01.04.2016	Workshop on Best Practice for Developing Metrology Legislation
05	Mrs. K. S. Mallawa Arachchi				
06	Mr. S.D.I. Dias	Assistant Director	Italy	26.06.2016 - 02.07.2016	Summer School 2016: Metrology from Physics Fundamentals to Quality of Life
07	Mr. R.G.S.A. Perera	Assistant Director	Korea	11.06.2016 – 24.06.2016	Training course on Metrology of Electricity And Magnetism (EM) organize by the Global Metrology Academy (GMA) of KRISS
08	Mr. L. N. Senaweera	MSD Inspector	Thailand	11.07.2016 – 13.07.2016	Verification of Fuel Dispensers – Legal Metrology under the project of Regional Cooperation between APMP and PTB
09	Mr. R. G. S. L. Ariyapala				
10	Mrs. K. S. Mallawa Arachchi	Assistant Director	Indonesia	30.08.2016 – 01.09.2016	MEDEA Training Course on Mass Standards (PTB sponsored)
11	Mrs. K. A. D. S. P. Kumarapeli	Metrology Investigation Assistant			
12	Mrs. G. D. S. C. Garusingha	Metrology Experimental Officer	India	05.09.2016 – 09.09.2016	Short term Training on Pressure Metrology, NPL India.
13	Mrs. R. A. W. R. Rajamanthri				Short term Training on Mass Metrology, NPL India
14	Mrs. S. N. Samaraweera				Short term Training on Thermometry, NPL India.
15	Mr. P. K. J. Pathirana				Short term Training on Dimensional Metrology, NPL India
16	Mrs. A. I. Iranganie				Metrology Investigation Assistant

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	Name of the officer	Designation	Country	Time Period	Training/ Conference
17	Mr. A. M. K. Ganapati	Development Office	India	05.09.2016 – 09.09.2016	Short term Training on Pressure Metrology, NPL India
18	Mr. R.G.S.A. Perera	Assistant Director	Thailand	27.09.2016 – 29.09.2016	Technical Workshop and Inter Laboratory Comparison Exercise for GPS Time – Transfer and Calibration Techniques
19	Mr. A. D. D. Naminda	Assistant Director	Japan	03.10.2016 – 07.10.2016	Workshop on Laser Interferometers for Length Measurement
20	Mr. S.D.I. Dias	Assistant Director	Thailand	10.10.2016 – 13.10.2016	Technical Workshop Proficiency Testing
21	Mr. S.D.I. Dias	Assistant Director	Vietnam	09.11.2016 – 12.11.2016	Workshop on Measurement and Standards for Grain Food Safety and Free Trade and Technical Committee Meeting
22	Mr. K. Premasiri Kumara	Director (Acting)	Vietnam	09.11.2016 – 20.11.2016	APMP 32 <sup>nd</sup> Meeting & General Assembly.
23	Mr. S.N. Akuranthilaka	Assistant Director			APMP Technical Committee meeting on Temperature (TCT)
24	Mrs. J .S .M .Silva				APMP Technical Committee Meeting on Mass Related Quantities (TCM)
25	Mr. R.G.S.A. Perera				APMP Technical Committee Meeting on Time & Frequency (TCTF)
26	Mr. R. D. M. Alanka				APMP Technical Committee Meeting on Electricity & Magnetism (TCM)
27	Mr. P. D. N. Jayasingha	MSD Inspector	Malaysia	28.11.2016 – 02.12.2016	Verification of Non – Automatic Weighing Instrument in the framework of the MEDEA Project
28	Ms. C. S. Wellage				

**Local Training - 2016** (table 12)

	<b>Name of the officer</b>	<b>Designation</b>	<b>Training</b>	<b>Institute</b>	<b>Time Period</b>	<b>Course Fee Rs.</b>
01	Mr. A. D. D. Naminda	Assistant Director	Management of Public Archives	Department of National Archives	17.03.2016	Free
02	Mr. .L. N. Senaweera	MSD Inspector	Diploma in English – II	University of Ruhuna	23.02.2016 - 25.03.2016	19000
03	Mrs. T. P. G. Karunarathna	Development Officer	Training of Taxation	PRAG Institute	07.06.2016	5400
04	Ms. B. A. G. S. Wijewardhana					5400
05	Ms. S. Idamawaththa					5400
06	Mr. Eranga Pradeep Kumara					Management Assistant
07	Mr. Eranga Pradeep Kumara	Management Assistant	Management of State Assets	PRAG Institute	29.07.2016	6000
08	Mr. Prasanna Sanjeewa	Management Assistant	Office Management	SDFL Institute	11.08.2016 – 12.08.2016	8500
09	Ms.R. Kamalane					8500
10	Ms. Anusha Udayangani					8500
11	Mr. I. D. Anura Udana	MSS Attendant	Training on Electric Generator	CETRAC Institute	09.06.2016 – 10.09.2016	6500
12	Mr. K. A. Priyantha	MSD Inspector (Trainee)				6500
13	Mr. J. H. M. B. S. C. Jayapathma					6500
14	Mr. Eranga Pradeep Kumara	Management Assistant	Procurement Procedure and Bid Management	PRAG Institute	02.09.2016 15.09.2016 20.09.2016 28.09.2016	22000
15	Ms. Anusha Udayangani	Management Assistant	Salary Conversion and Salary Preparation	PRAG Institute	11.10.2016	6000
16	Ms. Janakee Nanayakkara					6000
17	Mr. C. Ekanayaka	MSD Inspector	Diploma in English – II	Sri Lanka Institute of Development Administration	14.10.2016 60 hours	20000
18	Ms. K. A. V. P. Rathnapala					20000
19	Ms. A. I. Irangani	Metrology Investigation Assistant	Modern Technology	Center of Athar c Clack	28.11.2016 – 02.12.2016	31000
20	Ms. G. D. S. C. Garusingha	Metrology Experimental Officer				



**Distribution of Private Entrepreneurs Engaged in Commercial Activities Controlled over Legal Metrology**  
(table 13)

District	Number of Registered Persons in Each Category			
	Manufacturers	Importers	Repairers	Traders
Colombo	05	31	59	42
Gampaha	08	08	32	25
Kalutara	03	-	14	17
Galle	01	-	09	11
Matara	01	-	06	12
Hambantota	-	-	06	08
Kandy	01	03	29	20
Nuwara Eliya	-	-	01	04
Matale	01	-	05	11
Badulla	-	01	15	09
Kegalle	01	-	08	06
Ratnapura	-	-	03	12
Kurunegala	-	-	12	22
Anuradhapura	-	-	07	10
Monaragala	01	-	02	05
Vavuniya	-	-	02	04
Jaffna	-	-	02	-
Ampara	-	-	01	07
Batticaloa	-	-	02	09
Polonnaruwa	-	-	01	09
Puttalama	-	-	01	07
Trincomalee	-	-	-	03
<b>Total</b>	<b>22</b>	<b>43</b>	<b>217</b>	<b>253</b>

### Registrations of Private Entrepreneurs Engaged in Commercial Activities Controlled over Legal Metrology – Year 2016

(table 14)

<b>Registration Category</b>	<b>Number of Registered persons in 2016</b>	<b>Total Registration Fee Rs.</b>
Manufacturers of weighing / measuring instruments	22	54,500.00
Repairers of weighing / measuring instruments	217	638,100.00
Importers of weighing / measuring instruments	43	334,000.00
Sellers of weighing / measuring instruments	253	151,800.00
<b>Total</b>	<b>535</b>	<b>1,178,400.00</b>

### Verification Programme - Income in 2016

(Table 15)

<b>Month</b>	<b>Income in Rupees</b>		<b>Number of Units Verified in 2016</b>
	<b>Year 2015</b>	<b>Year 2016</b>	
January	11,726,753	23,412,224	71,458
February	15,677,823	30,166,172	88,628
March	20,184,474	33,571,450	99,228
April	11,308,077	20,755,496	50,414
May	16,686,673	24,838,980	63,217
June	17,131,051	33,223,136	76,621
July	17,640,987	28,111,550	59,977
August	17,365,632	33,606,889	72,188
September	21,605,254	28,247,196	71,478
October	27,013,701	16,798,150	54,339
November	27,954,163	22,187,560	54,276
December	27,784,993	29,653,770	48,747
<b>Total</b>	<b>232,079,581</b>	<b>324,572,573</b>	<b>810,571</b>

**Raids Programme – Progress in 2016**

(table 16)

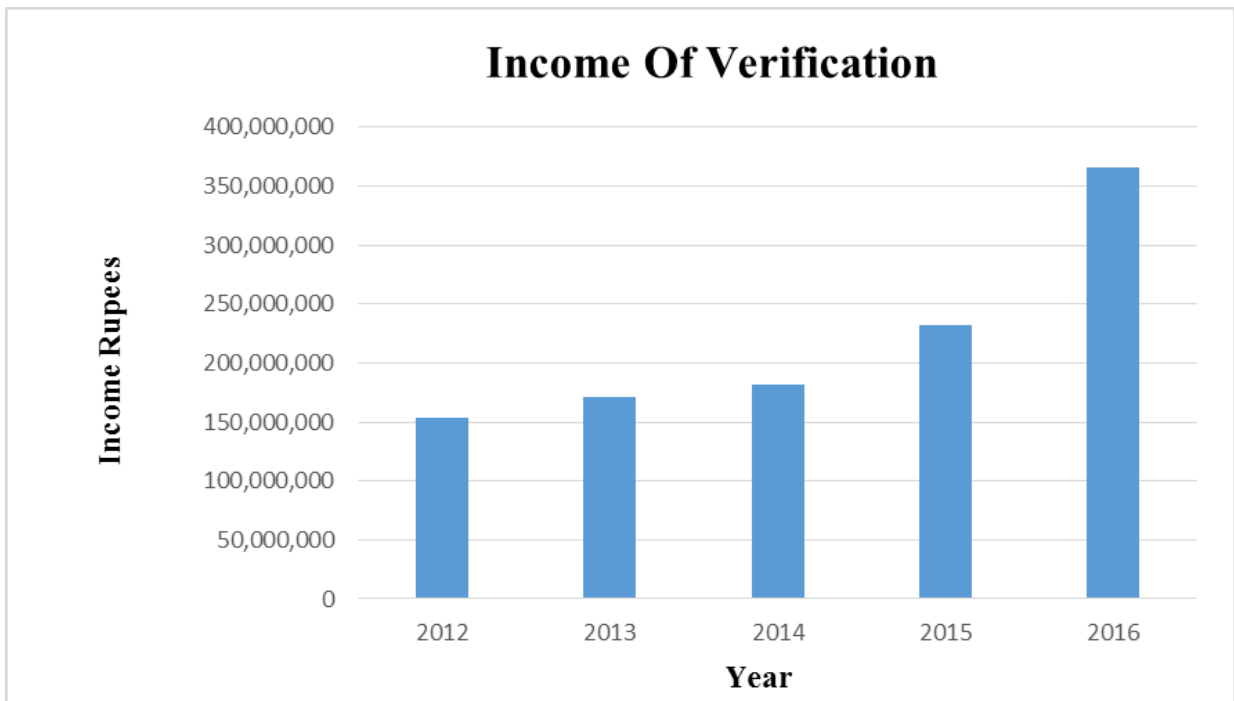
Month	Number of Raids		Fines in Rupees		Number of Cases Concluded	
	2015	2016	2015	2016	2015	2016
January	966	1,424	44,000	179,000	38	112
February	1,450	1,677	353,000	132,250	140	88
March	1,351	1,991	291,250	192,000	159	106
April	788	1,241	113,000	206,000	75	102
May	1,428	945	578,950	159,500	165	91
June	1,822	1,717	243,250	160,500	106	98
July	1,389	950	254,500	252,500	116	103
August	1,297	1,421	44,000	194,500	27	98
September	1,403	1,373	240,500	139,000	84	77
October	1,564	820	241,500	231,000	113	113
November	1,149	209	275,500	55,500	124	28
December	1,170	332	210,500	16,500	73	2
<b>Total</b>	<b>15,777</b>	<b>14,100</b>	<b>2,889,950</b>	<b>1,918,250</b>	<b>1,220</b>	<b>1,018</b>

**Representation of Verification Income on District Basis (table17)**

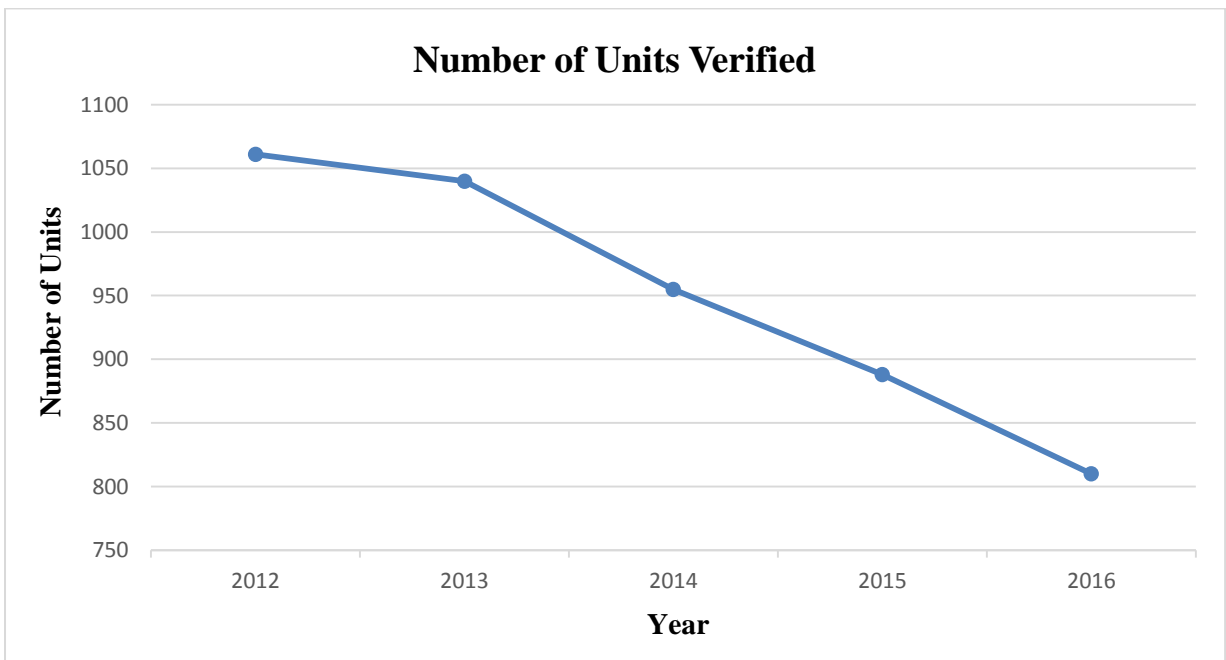
District	Verification Fees (Inclusive All Taxes) Received from each District (Data from 2012 to 2016)				
	2012	2013	2014	2015	2016
Colombo	52,421,030	54,804,753	58,536,277	86,693,931	130,712,937
Gampaha	9,757,194	10,089,060	12,950,324	16,271,296	27,545,201
Kalutara	6,424,545	8,223,616	6,855,189	7,978,818	11,474,642
	<b>68,602,769</b>	<b>73,117,429</b>	<b>78,341,790</b>	<b>110,944,045</b>	<b>169,732,780</b>
Kandy	10,676,131	10,957,540	11,139,456	14,012,409	21,620,097
Matale	3,356,682	3,554,203	3,795,006	4,520,843	7,988,421
Nuwara Eliya	4,381,269	4,718,840	5,266,936	5,587,098	8,584,030
	<b>18,414,082</b>	<b>19,230,583</b>	<b>20,201,398</b>	<b>24,120,350</b>	<b>38,192,548</b>
Galle	5,184,944	5,446,360	5,295,133	7,699,509	10,977,361
Matara	3,984,706	5,104,776	5,615,023	6,693,814	10,280,441
Hambantota	3,269,325	3,637,559	4,017,363	5,129,383	10,119,069
	<b>12,438,975</b>	<b>14,188,695</b>	<b>14,927,519</b>	<b>19,522,706</b>	<b>31,376,871</b>
Batticaloa	1,641,135	2,077,865	2,373,352	3,205,015	5,625,221
Ampara	3,685,419	4,261,071	4,694,333	5,006,882	7,769,257
Trincomalee	1,051,812	1,364,361	1,506,958	1,991,689	3,789,316
	<b>6,378,366</b>	<b>7,703,297</b>	<b>8,574,643</b>	<b>10,203,586</b>	<b>17,183,794</b>
Kununegala	8,908,809	9,793,590	11,990,847	13,817,069	23,779,336
Puttalama	3,753,050	4,070,122	4,511,899	5,743,748	9,201,545
	<b>12,661,859</b>	<b>13,863,712</b>	<b>16,502,746</b>	<b>19,560,817</b>	<b>32,980,881</b>
Anuradhapura	6,368,395	6,986,330	7,337,244	8,992,501	14,846,516
Polonnaruwa	3,381,004	3,904,425	3,816,287	4,717,437	8,266,819
	<b>9,749,399</b>	<b>10,890,755</b>	<b>11,153,531</b>	<b>13,709,938</b>	<b>23,113,335</b>
Badulla	4,965,166	5,397,394	6,509,075	8,148,777	11,924,573
Monaragala	3,347,371	3,735,449	3,784,969	4,638,176	8,090,344
	<b>8,312,537</b>	<b>9,132,843</b>	<b>10,294,044</b>	<b>12,786,953</b>	<b>20,014,917</b>
Ratnapura	10,549,366	14,936,592	11,800,266	8,539,852	12,504,982
Kegalle	4,206,030	4,674,750	5,363,518	7,355,280	10,555,329
	<b>14,755,396</b>	<b>19,611,342</b>	<b>17,163,784</b>	<b>15,895,132</b>	<b>23,060,311</b>
Mullativu	146,345	502,268	339,203	408,207	734,486
Mannar	244,381	267,220	328,231	370,549	667,173
Kilinochchi	272,196	403,751	372,175	461,692	982,477
Jaffna	1,343,656	1,673,487	2,117,287	2,778,039	5,033,464
Vauniya	805,293	910,873	956,032	1,317,567	2,201,828
	<b>2,811,871</b>	<b>3,757,599</b>	<b>4,112,928</b>	<b>5,336,054</b>	<b>9,619,428</b>
<b>Total</b>	<b>154,125,254</b>	<b>171,496,255</b>	<b>181,272,383</b>	<b>232,079,581</b>	<b>365,274,865</b>

**Verification Programme – 2016**  
**Representation of Number of Units on District Basis (table 18)**

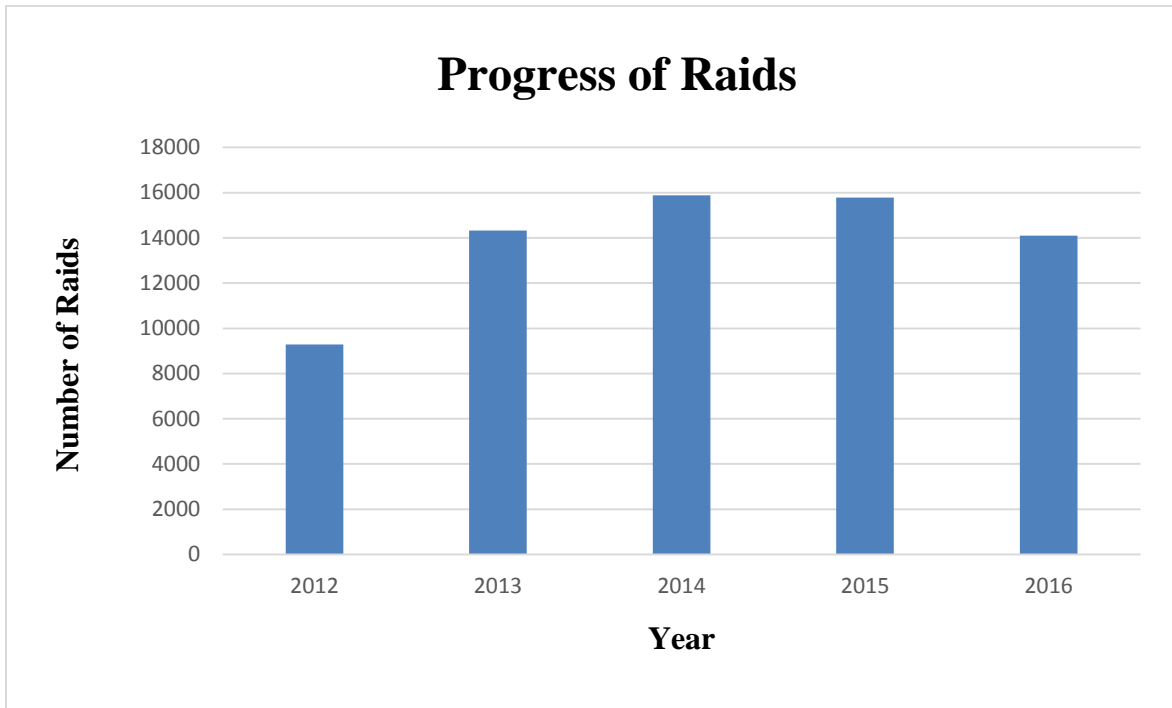
District	Number of Units Verified from 2012 to 2016				
	2012	2013	2014	2015	2016
Colombo	200,363	205,924	183,608	177,201	167,897
Gampaha	54,413	50,751	48,956	46,671	39,706
Kalutara	36,070	32,905	29,538	29,762	27,201
	<b>290,846</b>	<b>580,289</b>	<b>262,102</b>	<b>253,634</b>	<b>234,804</b>
Kandy	91,267	87,303	82,709	76,426	71,353
Matale	35,847	32,790	30,490	24,362	23,383
Nuwara Eliya	35,146	30,788	28,328	25,333	22,165
	<b>162,260</b>	<b>150,881</b>	<b>141,527</b>	<b>126,121</b>	<b>116,901</b>
Galle	48,351	46,537	40,472	37,758	34,061
Matara	40,908	37,060	37,916	33,401	30,289
Hambantota	34,027	30,171	29,049	27,902	26,954
	<b>123,286</b>	<b>113,768</b>	<b>107,437</b>	<b>99,061</b>	<b>91,304</b>
Batticaloa	23,837	26,644	29,353	27,639	29,510
Ampara	31,995	35,843	38,728	32,722	29,614
Trincomalee	12,676	12,805	13,098	12,285	12,037
	<b>68,508</b>	<b>75,292</b>	<b>81,179</b>	<b>72,646</b>	<b>71,161</b>
Kununegala	92,581	88,053	84,251	68,842	61,949
Puttalama	34,471	31,291	27,897	26,420	22,071
	<b>127,052</b>	<b>119,344</b>	<b>112,148</b>	<b>95,262</b>	<b>84,020</b>
Anuradhapura	48,676	42,546	37,158	35,569	32,028
Polonnaruwa	23,051	21,085	20,674	18,467	16,288
	<b>71,727</b>	<b>63,631</b>	<b>57,832</b>	<b>54,036</b>	<b>48,316</b>
Badulla	41,685	37,906	37,990	31,823	30,292
Monaragala	30,516	33,247	31,947	31,434	29,699
	<b>72,201</b>	<b>71,153</b>	<b>69,937</b>	<b>63,257</b>	<b>59,991</b>
Ratnapura	61,076	56,062	49,954	53,708	38,470
Kegalle	49,079	42,942	39,790	38,255	36,454
	<b>110,155</b>	<b>99,004</b>	<b>89,744</b>	<b>91,963</b>	<b>74,924</b>
Mullativu	1,614	3,028	2,527	2,401	2,098
Mannar	1,872	2,268	1,890	1,372	1,399
Kilinochchi	4,863	5,100	3,373	3,022	2,918
Jaffna	22,558	23,717	22,010	21,792	18,486
Vauniya	4,296	4,338	3,602	3,855	4,249
	<b>35,203</b>	<b>38,451</b>	<b>33,402</b>	<b>32,442</b>	<b>29,150</b>
<b>Total</b>	<b>1,061,238</b>	<b>1,040,211</b>	<b>955,308</b>	<b>888,422</b>	<b>810,571</b>



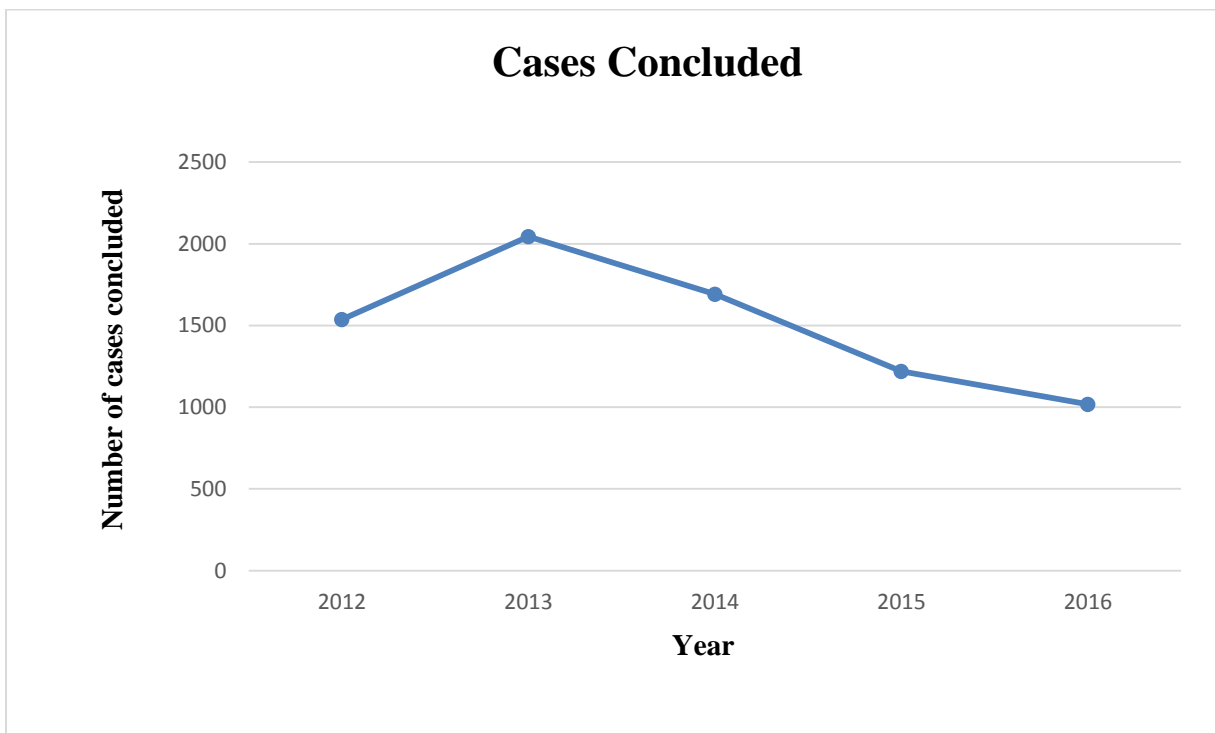
Graph 1



Graph 2



Graph 3



Graph 4

Performance Report 2016

**Awareness Programme – Progress in 2016** (table 19)

<b>District</b>	<b>Jan</b>	<b>Feb</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>Aug.</b>	<b>Sept.</b>	<b>Oct.</b>	<b>Nov.</b>	<b>Dec.</b>	<b>Total</b>
HQ Colombo	4	3	5	4	4	0	3	3	3	0	0	0	23
Colombo	8	8	7	5	5	5	4	3	4	4	2	1	56
Gampaha	3	6	3	5	0	2	3	3	2	7	5	7	46
Kalutara	3	3	4	2	3	2	3	3	1	2	3	2	31
Puttalama	2	3	3	3	3	3	2	2	5	0	0	0	26
Kurunegala	4	4	4	4	4	4	3	2	0	2	0	0	31
Kegalle	1	3	2	3	3	3	3	3	2	0	4	0	27
Ratnapura	0	4	3	3	2	2	3	3	3	1	2	4	30
Galle	2	5	3	2	3	4	2	0	3	3	3	3	33
Matara	3	3	3	3	3	3	1	2	3	2	2	2	30
Hambantota	0	0	3	5	3	4	3	3	4	0	0	3	28
Monaragala	3	3	3	2	5	5	4	3	0	0	0	0	28
Badulla	3	3	3	0	3	3	3	3	0	0	0	0	21
Nuwara Eliya	2	2	3	3	3	3	3	3	3	3	3	3	34
Kandy	3	3	4	4	4	3	3	2	3	0	0	0	29
Matale	4	4	3	2	2	2	2	2	6	3	2	0	32
Anuradhapura	4	2	1	4	4	2	2	2	2	2	4	2	31
Polonnaruwa	0	2	3	2	2	2	2	2	3	2	2	2	24
Trincomalee	1	1	2	1	0	0	2	0	2	0	2	0	11
Batticaloa	2	2	2	2	2	3	2	2	2	0	0	0	19
Ampara	2	3	2	15	0	0	2	4	2	1	1	1	33
Vaunia	0	0	3	2	2	3	1	1	0	0	0	0	12
Jaffna	2	3	2	2	3	1	2	4	4	4	6	7	40
Mullativu	0	1	1	1	1	1	1	1	1	1	1	1	11
Mannar	1	1	1	1	1	1	1	1	1	1	0	1	11
Kilinochchi	1	1	1	1	1	1	1	2	1	1	2	1	14
<b>Total</b>	<b>58</b>	<b>73</b>	<b>74</b>	<b>81</b>	<b>66</b>	<b>62</b>	<b>61</b>	<b>59</b>	<b>60</b>	<b>39</b>	<b>44</b>	<b>39</b>	<b>717</b>

\*The number of awareness programmes conducted in each month is tabulated above



**Quarterly Progress of Awareness Programmes – 2016**

Target number of programmes and actual number held (table 20)

District	January–March		April - June		July - September		October – Dec.	
	Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
HQ Colombo	11	12	11	8	11	9	11	0
Colombo	9	23	9	15	9	11	9	7
Gampaha	11	12	11	7	11	8	11	19
Kalutara	8	10	8	7	8	7	8	7
Puttalama	8	8	9	9	8	9	8	0
Kurunegala	11	12	11	12	11	5	11	2
Kegalle	8	6	9	9	8	8	8	4
Ratnapura	8	7	8	7	9	9	7	7
Galle	8	10	9	9	8	5	8	9
Matara	8	9	8	9	9	6	7	6
Hambantota	8	3	9	12	8	10	8	3
Monaragala	8	9	8	12	8	7	8	0
Badulla	8	9	9	6	8	6	9	0
Nuwara Eliya	8	7	8	9	8	9	7	9
Kandy	10	10	11	11	10	8	11	0
Matale	8	11	8	6	8	10	8	5
Anuradhapura	8	7	9	10	8	6	8	8
Polonnaruwa	7	5	6	6	7	7	6	6
Trincomalee	7	4	7	1	6	4	6	2
Batticaloa	7	6	7	7	6	6	6	0
Ampara	7	7	7	15	6	8	6	3
Vaunia	4	3	5	7	4	2	4	0
Jaffna	7	7	7	6	8	10	6	17
Mullativu	4	2	4	3	5	3	4	3
Mannar	4	3	4	3	5	3	4	2
Kilinochchi	5	3	4	3	4	4	4	4
<b>Total</b>	<b>200</b>	<b>205</b>	<b>206</b>	<b>209</b>	<b>201</b>	<b>180</b>	<b>193</b>	<b>123</b>

## Pattern Approval of Weighing Instruments – Year 2016

## Appendix 1

Index	Weighing Machine	Parameter Values of the Instrument					Manufacturer	Local Agent	Date of Approval
		Class	Max	Min	$e=d$	$T$			
1	Price Computing Scale with Pole PSIX (X;15CLS)	(III)	6 kg /15 kg	2 g/5 g	100 g	5.998 kg	Ximen Pinnacle Electrical Co. Ltd, 4FGuangxia Building, Torch High Tech Zone Xiamen, Fujian 361006, PR China. Tel. +86 592 57100858 Fax. +86 592 5710029	Lakrays (Pvt) Ltd, No. 336/5, 2nd Lane, Gajabamw, Makola North, Makola. Tel. 0113055626 Fax. 0112962225	21-Jan-16
2	Price Computing Scale PSIX (X;15BDS)	(III)	6 kg /15 kg	2g/5g	100 g	5.998 kg	Ximen Pinnacle Electrical Co. Ltd, 4FGuangxia Building, Torch High Tech Zone Xiamen, Fujian 361006, PR China. Tel. +86 592 57100858 Fax. +86 592 5710029	Lakrays (Pvt) Ltd, No. 336/5, 2nd Lane, Gajabamw, Makola North, Makola. Tel. 0113055626 Fax. 0112962225	21-Jan-16
3	Price Computing Scale Alpha ACS A9 (DH-686)	(III)	6kg/15 kg	2g/5g	40 g	-7.5 kg	WUYI DAHE ELECTRONICS CO., LTD, Wangda Road, Baihuashan Industry Zone, Wuyi, Zhejiang, China. Tel. 0086-579-87649588, Fax. 0579-876470999	Alpha Tec, D 55/78, Jayantha Weerasekara Mw, Colombo 10. Tel. 0712342023. Fax. 0112987411	11-Jul-16
4	Live Bird check weighing system Avery Weightronix E1205 (Special approval of 2 Scales)	(III)	150 kg	-	20 g	-	Avery Weightronix, Foundry Lane, Smethwick, West Midlands, England B662lp	Ceylon Grain Elevators PLC, (Member of the prima Group) 15, Rock House lane, Colombo 15.	21- Jul-16

**Class:** Class of the Instrument, **Max:** Maximum Capacity, **Min:** Minimum Capacity, **e:** Verification Scale Interval, **d:** Actual Scale Interval, **T:** Tare Weight

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Index	Weighing Machine	Parameter Values of the Instrument					Manufacturer	Local Agent	Date of Approval
		Class	Max	Min	$e=d$	$T$			
5	Bar Code Price Computing Printing Scale TM-30a	(III)	15 kg	5 g	100 g	-7.5 kg	Shanghai Dahua Scale Factory, No 1488, Jingiao Road, Shanghai, China. Tel. 0086-21-67221682, Fax. 008667221683, Email www.dahuascale.com	RCS2 Technologies (Pvt) Ltd, No. 02, Harmers Avenue, Wellawatta, Colombo 06. Tel 0112081343, Fax. 0112081347, Email. info@rcstotech.com	15-Aug-16
6	Bar Code Price Computing Printing scale SM-120LL	(III)	6kg /15kg	2g /5g	40 g	-5.998 kg	Shanghai Teraoka Electronic Co. Ltd, Ting Lin Industry Development Zone, Jin Shan Country, Shanghai 201505, China. Tel +86-021-57234888, Fax. +86-021-57234090	Digi Weigh System (Pvt) lotd, No.133, Pannipitiya Road, Battaramulla. Tel. 0112864913, Email cartec@sltnet.lk	29-Aug-16
7	Price Computing Scale WEIGHTECH Rolex 2D-15B	(III)	6kg /15kg	2g /5g	40 g	-3 kg	SCENT Company Limited, 12D, New skyland mansion, No. 157, Wusi Road, fuzhou, mFujian, China. Tel. 86-591-28362226/7/8, Fax. 86-591-2836-2220 Email sindy@scentchina.com	Weightec (Pvt) Liimited, No.257, Grandpass Road, Colombo 14. Tel. 0115036161, Fax. 011-2472628/9, Email. roshan@mt.edna.lk	13-Oct-16
8	Price Computing Scale WEIGHTECH Rolex 2P-15B	(III)	6kg /15kg	2g /5g	40 g	-3 kg	SCENT Company Limited, 12D, New skyland mansion, No. 157, Wusi Road, fuzhou, mFujian, China. Tel. 86-591-28362226/7/8, Fax. 86-591-2836-2220 Email sindy@scentchina.com	Weightec (Pvt) Liimited, No.257, Grandpass Road, Colombo 14. Tel. 0115036161, Fax. 011-2472628/9, Email. roshan@mt.edna.lk	18-Oct-16

**Class:** Class of the Instrument, **Max:** Maximum Capacity, **Min:** Minimum Capacity, **e:** Verification Scale Interval, **d:** Actual Scale Interval, **T:** Tare Weight

Index	Weighing Machine	Parameter Values of the Instrument					Manufacturer	Local Agent	Date of Approval
		Class	Max	Min	$e=d$	$T$			
9	Price Computing Scale NARITA 968 LED	(III)	6 kg/ 15 kg	2 g /5 g	40 g	-7.5 kg	Kaifeng Group Co. Ltd, Huku Industrial Zone, China. Tel. 0086-579-87018030, Fax. 0086-579-87065276	Way Lanka Weighing Machines Ltd, No. 78/1, Main Street, Battaramulla. Tel. 0112873345, Fax. 0112873344, e-mail. waylankaweighing@gmail.com	18-Oct-16
10	Weighbridge Indicator BILANCAI D70	(III)	50 t	500 kg	10 kg	-	Scoieta Cooperativa Bilanciai Campogalliano, 41011, Campogalliano (Modena) Italy, Via S, Ferrari 16. Tel: (0)59/893611, Fax: (0)59527079, cb@coopbilanciai.it	Lak Rays Private Ltd, No. 336/5, 2nd Lane, Gajaba Mawatha, Makola North, Makola. Tel.0113055626 0773361417 Fax. 0112962225	20-Oct-16
11	Price Computing Scale KANDU F-01	(III)	6 kg/ 15 kg	2 g / 5 g	40 g	-7.5 kg	Kunshan Lightever Electronic Scales Co. Ltd, No.508, Maanshan Road(Mid), Kunshan, Jiangsu, China 215300. Tel. 0086-51257597806 Fax. 0086-512-57503843 E-mail: sales@lightever.cn	Kandurata Marketing (Pvt) Limited. No.34, Station road, Badulla. Tel: 055-2229885	20-Oct-16

**Class:** Class of the Instrument, **Max:** Maximum Capacity, **Min:** Minimum Capacity, **e:** Verification Scale Interval, **d:** Actual Scale Interval, **T:** Tare Weight

Performance Report 2016

Index	Weighing Machine	Parameter Values of the Instrument					Manufacturer	Local Agent	Date of Approval
		Class	Max	Min	$e=d$	$T$			
12	Price Computing Scale UNIQUE ACS A1	(III)	15 kg	5 g	100 g	-7.5kg	Zhejiang Haoyu Industry & Trade Co. Ltd Guihua Road, Baihuashan Industry Zone, Wuyi, Jinhua, China. Tel: +8657987613686, Fax: +8657987613995 Email: nicole@zghaoyu.com	Matale Scale, 255/3 Main Street, Matale. (☎/ල.ම.ල/8/1/7/1/1/3093) code:21000, Tel:+94777479919 E-mail: husai_cg24@yahoo.com	27-Oct-16
13	Electronic platform Scale ZM201-H302-300kg×100g	(III)	300 kg	2 kg	0.1 kg	-150 kg	Avery Weigh - Tronix, Foundry Lane, Smethwick, West Midlands, England, B662LP. Tel: +44(0)8453667788 Fax: +44(0)1212248183, Email: info@awtxglobal.com	Ceylon Weighing Machines Limited, 257, Grandpass Road, Colombo 14. (PB 1302) Tel: +94112498200, Fax: +94122472628/9 Email: umas@edna.lk	03-Nov-16
14	Hanging Type Weighing Scale OCS-KS-SP Bluetooth	(III)	50 kg	200 g	0.01 kg	2 kg	Shanghai ToPay Industrial Co. Ltd, 1588, Gudai Road, Minhang District, Shanghai, China. Tel: 0086-021-59231679 Web: king.sheen.com	Apex Technologies (Pvt) Ltd, 15A, Hildon Place, Colombo 04. Tel: 0112507518/ 0773560560, email: info@apextech.lk	09-Nov-16

**Class:** Class of the Instrument, **Max:** Maximum Capacity, **Min:** Minimum Capacity, **e:** Verification Scale Interval, **d:** Actual Scale Interval, **T:** Tare Weight

## Pattern Approval of Fuel Dispensers – Year 2016

## Appendix 2

	Local Agent	Manufacturer	Fuel Dispenser Model	Application Received on	Test Date	Approved Date
01	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFK2224ASSP1 (Dual Nozzle, Dual pump, Four displays with printer Heavy Duty) Max 35 l/min, Min 3.5 l/min	2015.01.28	2015.07.15	2016.02.01
02	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFD2422ASSPL (Four Nozzles, Dual pump, Two displays with printer) Max 35 l/min, Min 3.5 l/min	2015.01.28	2015.06.30	2016.02.01
03	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFD2422AHHPL (Four Nozzle, Dual pump, Two displays with printer) Heavy Duty Max 70 l/min, Min 7 l/min	2015.01.28	2015.06.22	2016.02.01
04	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFK2224AHHPI (Dual Nozzle, Dual pump, Four displays, Heavy duty with printer) Max 70 l/min, Min 7 l/min	2015.01.28	2015.07.16	2016.02.01
05	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFE3622ASSSPL (Three Products Six Nozzles, Two displays with printer) Max 35 l/min, Min 3.5 l/min	2015.01.28	2015.07.07	2016.03.16
06	NPS Equipment (PVT) Ltd, No229/1, Kirula Road, Colombo 05.	Midco Limited, Metro Estate, Vidyanagiri Marg, Kalina, India	MIDCO-SFE3622ASSHPL (Three Products Six Nozzles, Two displays with printer) Max 35 l/min, Min 3.5 l/min (2 nos of nozzle) & 70 l/min, Min 7 l/min (one nozzle)	2015.01.08	2015.07.08	2016.03.17

Performance Report 2016

	<b>Local Agent</b>	<b>Manufacturer</b>	<b>Fuel Dispenser Model</b>	<b>Application Received on</b>	<b>Test Date</b>	<b>Approved Date</b>
07	Pan Asia Trading (PVT) Ltd, No 3B, De Fonseka Road, Colombo-05	Beijing SANKI Petroleum Technology Co. Ltd, China.	SANKI-SK52GF111B (One Nozzle, One Product, Two displays) Max 50 l/min, Min 5 l/min	2015.11.04	2015.11.30	2016.03.16
08	Pan Asia Trading (PVT) Ltd, No 3B, De Fonseka Road, Colombo-05	Beijing SANKI Petroleum Technology Co. Ltd, China.	SANKI-SK52GF111B(D) Heavy Duty (One Nozzle, One Product, Two displays) Max 70 l/min, Min 7 l/min	2015.11.04	2016.01.22	2016.03.16
09	Project Prospect (PVT) Ltd	Down 27, Milk Super Building, Vauxhall Street, Colombo 02	Korea EnE (MC2HSE-Heavy Duty) (Two Product, two Nozzles & four Displays with Printer) Max80 l/min, Min 8 l/min	2015.11.13	2016.02.26	2016.03.17
10	Project Prospect (PVT) Ltd	Down 27, Milk Super Building, Vauxhall Street, Colombo 02	Korea EnE (MC2SSE) (Two Product, two Nozzles & four Displays with Printer) Max45 l/min, Min 4.5 l/min	2015.11.13	2016.02.26	2016.03.17
11	Project Prospect (PVT) Ltd	Down 27, Milk Super Building, Vauxhall Street, Colombo 02	Korea EnE (MC1HSE-Heavy Duty) (One Product One Nozzle & Two Displays with Printer) Max80 l/min, Min 8 l/min	2015.11.13	2016.02.09	2016.03.16
12	Project Prospect (PVT) Ltd	Down 27, Milk Super Building, Vauxhall Street, Colombo 02	Korea EnE (MC1SSE) (One Product, One Nozzle & Two Displays with Printer) Max45 l/min, Min 4.5 l/min	2015.11.13	2016.02.03	2016.03.16

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	<b>Local Agent</b>	<b>Manufacturer</b>	<b>Fuel Dispenser Model</b>	<b>Application Received on</b>	<b>Test Date</b>	<b>Approved Date</b>
13	Colombo Agencies Ltd, Kotte Road, Ethul Kotte	TATSUNO Corporation, 2-6. Mita 3-Chome, Minato-ku, Tokyo, 108-8520, Japan. <b>Assembly Plant:</b> TATSUNO India (PVT) Ltd, Maharashta, India	TATSUNO – XE-SDA1111SD (One Products, One Nozzel Two display) Max. 45l/min, Min. 3 l/min	2016.05.18	2016.07.04	2016.08.31
14	Colombo Agencies Ltd, Kotte Road, Ethul Kotte	TATSUNO Corporation, 2-6. Mita 3-Chome, Minato-ku, Tokyo, 108-8520, Japan. <b>Assembly Plant:</b> TATSUNO India (PVT) Ltd, Maharashta, India	TATSUNO – XE-SDA1111HD (One Products, One Nozzel Two display- Heavy Duty) Max. 70l/min, Min. 3 l/min	2016.05.18	2016.07.13	2016.08.31
15	Coincorp (PVT) Ltd	HITACHI Automotive Systems Measurement Ltd, No.3-9-27, Tsurumi Chuo Yokohama City, Kanagawa Prefecture, Japan	TOKICO BA11SE-SN5S-Heavy Duty, One product one nozzle Two displays with printer Max.65 l/min, Min. 3 l/min	2015.12.12	2016.05.12	2016.12.19
16	Coincorp (PVT) Ltd	HITACHI Automotive Systems Measurement Ltd, No.3-9-27, Tsurumi Chuo Yokohama City, Kanagawa Prefecture, Japan	TOKICO BA11SA-SN5S One product, one nozzle Two displays with printer Max.40 l/min, Min. 3 l/min	2015.12.12	2016.05.11	2016.12.19



Performance Report 2016

	<b>Local Agent</b>	<b>Manufacturer</b>	<b>Fuel Dispenser Model</b>	<b>Application Received on</b>	<b>Test Date</b>	<b>Approved Date</b>
17	Coincrop (PVT) Ltd	HITACHI Automotive Systems Measurement Ltd, No.3-9-27, Tsurumi Chuo Yokohama City, Kanagawa Prefecture, Japan	TOKICO BA22SM-SN5S-Heavy Duty, Two products Two nozzles, Four displays with printer Max.65 l/min, Min. 3 l/min	2015-11.12	2016.06.24	2016.12.21
18	Coincrop (PVT) Ltd	HITACHI Automotive Systems Measurement Ltd, No.3-9-27, Tsurumi Chuo Yokohama City, Kanagawa Prefecture, Japan	TOKICO BA22SA-SN5S Two products Two nozzles, Four displays with printer Max.40 l/min, Min. 3 l/min	2015-11.12	2016.06.24	2016.12.21

**ANNUAL ACCOUNTS**  
**2016**

**Recurrent Expenditure - Consolidated Fund**

<b>Description</b>	<b>2015 Actual Expenditure Rs.</b>	<b>2016 Approved Estimate Rs.</b>	<b>2016 Revised Estimate Rs.</b>	<b>2016 Actual Expenditure up to December Rs.</b>
Personal Emoluments	93,814,100	99,800,000	99,800,000	97,816,951
Others	1,184,992	1,250,000	1,250,000	1,212,515
<b>Total Recurrent Expenditure</b>	<b>94,999,092</b>	<b>101,050,000</b>	<b>101,050,000</b>	<b>99,029,466</b>

**Capital Expenditure - Consolidated Fund**

<b>Object Code</b>	<b>Capital Expenditure</b>	<b>2015 Actual Expenditure Rs.</b>	<b>2016 Approved Estimate Rs.</b>	<b>2016 Revised Estimate Rs.</b>	<b>2016 Actual Expenditure to December Rs.</b>
2102	Furniture and Office Equipment	493,885	-	-	-
2103	Machinery	19,866,011	10,000,000	10,000,000	8,283,478
2104	Construction of building	200,000,000	200,000,000	200,000,000	122,554,198
	<b>TOTAL</b>	<b>220,359,896</b>	<b>210,000,000</b>	<b>210,000,000</b>	<b>130,837,676</b>

**Summary of Expenditure - Consolidated Fund**

<b>Description</b>	<b>2015 Actual Expenditure Rs.</b>	<b>2016 Approved Estimate Rs.</b>	<b>2016 Revised Estimate Rs.</b>	<b>2016 Actual Expenditure to December Rs.</b>
Recurrent Expenditure	94,999,092	101,050,000	101,050,000	99,029,466
Capital Expenditure	220,539,896	210,000,000	210,000,000	130,837,676
<b>Total</b>	<b>315,358,988</b>	<b>311,050,000</b>	<b>311,050,000</b>	<b>229,867,142</b>

**Muasurement Units, Standards and Services Department  
Income for the Year as at 31.12.2016**

<b>Source</b>	<b>Revenue Rs.</b>
Stamping Charges	324,572,573
Calibration Fees	2,509,340
Pattern Approvals	987,600
Stamp Fees	785,600
Interest on Fixed Deposit	1,523,750
Examination Fees	2,500
Training Fees	531,000
Others	120,584
<b>Total</b>	<b>331,032,947</b>

- ❖ 1/3<sup>rd</sup> of the total income is remitted to the treasury according to the Measurement Units, Standards and Services act. The income of the department comprises the revenue collected from verification, calibration, and pattern approvals. (Rs. 328,069,513)

## Measurement Units, Standards and Services Fund Summary of Expenditure

Description	2015 Actual Expenditure Rs.	2016 Approved Estimate Rs.	2016 Actual Expenditure to December Rs.
Recurrent Expenditure	34,098,766	55,061,000	48,464,918
Capital Expenditure	119,194,082	134,000,000	70,729,164
<b>Total</b>	<b>285,790,031</b>	<b>189,061,000</b>	<b>119,194,082</b>

## Measurement Units, Standards and Services Fund Statement of Expenditure for the Year as at 31.12.2016

Description of Expenditure		Value Rs.
1002	Payment of Overtime	947,517.52
1101	Travelling Expenses - Local	6,472,165.29
1102	Travelling Expenses - Foreign	3,004,018.42
1201	Purchased of Stationary	5,917,901.24
1202	Fuel and Lubricant	1,832,784.37
1203	Uniforms	64,000.00
1206	Mechanical and Electrical Equipment	-
1207	Other Supplies	131,530.00
1301	Repair of Vehicles, Plants, and Machinery	3,949,260.67
1303	Land and Building	576,139.65
1304	Others	56,082.00
1401	Transport Expenses	9,750.00
1402	Communication and Telephone	2,066,404.22
1403	Postage Charges	104,452.00
1404	Payments of Electricity Bill	6,343,871.18
1406	Municipal Tax	231,888.71
1407	Other Expenses	1,688,925.42
1408	Haring Charges	9,014,781.06
1409	Conducting Seminars and Exhibition	783,247.07
1507	Payment of Membership Fees	3,696,207.66
1903	Holiday Warrants	79,770.00
1905	Other Recurrent Expenses	1,494,221.12
1907	Training Fees - Local	-
2001	Repair of Building	-
2002	Repair of Machinery	1,809,038.45
2003	Repair of Vehicle	1,595,000.00
2102	Furniture and Office Equipment	9,487,339.30
2103	Machinery	44,803,374.59
2104	Construction of Building	11,396,019.59
2105	Land and Buildings	-
2401	Human Resources Development and Training	1,638,392.00
<b>Total Expenditure</b>		<b>119,194,081.53</b>