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PART I

Preliminary

1.-(1) This Act may be cited as the National Metrology Act.

(2) This Act shall come into force on a day to be appointed by the Minister by Order published in the Gazette.

2. In this Act, unless the context otherwise requires,

“accuracy” means the degree of conformity with such one or more working, secondary, or national reference or international standards as the context demands;

“authorized denomination” means the denomination of a weight or measures specified in the Fourth Schedule;

“authorized units of measurement” means the units of measurement specified in the Third Schedule;

“Bureau” means the Belize Bureau of Standards established by the Standards Act, Cap. 294;

“container” includes anything in or by which an article is cased, enclosed, contained or packed;

“Director” means the Director of Standards appointed under section 4 of Standards Act, Cap. 294 and includes a Weights and Measures Inspector;

“equipment” means a weight, measure, or a weighing or measuring instrument or sub-assembly of a weighing or measuring instrument;
“importer” means the person by whom or on whose behalf the package, container, or weighing or measuring equipment is entered for customs purposes on importation;

“initial verification” means the verification of a new or repaired weight, measure or weighing or measuring instrument prior to being placed in service;

is or to be, used as a standard for determining the accuracy of a secondary standard;

“packer” means, in relation to a pre-package, the person who placed the goods in the container included in the pre-package;

“pattern approval” means the approval by the Director of a specific model of a weighing or measuring instrument for its intended use, after one or more instruments have been tested in accordance with the prescribed requirements;

“pre-package” means a container containing goods together with the container in a case where,

(a) the goods are placed for sale in the container otherwise than in the presence of a person purchasing the goods; and

(b) none of the goods can be removed from the container without opening it;

“prescribed” means prescribed by Regulations made by the Minister under this Act;

“prescribed mark of verification” means a mark prescribed by Regulations made by the Minister under this Act;

“Specified Standards laboratory” means the national standards laboratory of any country or an international standards laboratory specified by the Minister for the purposes of this Act by Order published in the Gazette;

“Specified Standards laboratory” means the national standards laboratory of any country or an international standards laboratory specified by the Minister for the purposes of this Act by Order published in the Gazette;
“trade” means any contract, bargain, sale or dealing referred to in section 10 of this Act and includes the packing in Belize of any article in a container for purposes of sale;

“weight” means a body of determinate mass for use within a weighing instrument;

“weighing instrument” means an instrument for the measurement of mass or weight;

“Working Standard” means an object, being a copy of, or equivalent to, a Secondary Standard, which,

(a) has been calibrate and certified to the satisfaction of the Bureau by reference to one or more Secondary Standards; and

(b) is, or is to be, used as a standard for the purpose of determining the accuracy of measuring instruments other than National Reference or Secondary Standards.

PART II

Legal and Standard Units of Measurement

3.—(1) The International System of Units as set out and defined in the First Schedule, including the base, supplementary, the symbol applicable thereto, shall be the legal units of measurement of Belize.

(2) For the purposes of this Act, the multiples and submultiples of the unit of measurements referred to in subsection (1) of this section, are and shall be determined by the application of the prefixes set out and defined in the Second Schedule.

(3) The abbreviation “SI” shall be officially and judicially noticed and recognised in Belize as a legal reference to the International System of Units.
4.-(1) The British Imperial System of units as defined in Part II of the Third Schedule, are and shall be authorized units of measurement and may also be used concurrently with the International System of Units.

(2) The Minister may, by Order publish in the Gazette, appointed a day from and after which the System of Units referred to in Part II of the Third Schedule shall cease to have legal force and validity in Belize, and the Minister may appoint different days for different undertaking or class of understanding specified in the Order.

(3) Notwithstanding subsection (1) of this section, the Minister may, by Order published in the Gazette, provide for the continued application in Belie of the American system of weights and measurements until such time as the Minister may appoint different days for different undertaking or class of undertaking on which the said weights and measurements shall cease to have legal effect in Belize.

5.-(1) For the purposes of this Act, the Minister shall procure and cause to be maintained National Reference Standards and from time to time such standards of other units of measurement as may be considered by him necessary.

(2) Every standard of any unit of measurement procured under subsection (1) of this section, shall be the equivalent of a unit of measurement defined in the First Schedule of in Part II of the Third Schedule or any multiple or submultiple of any such unit of measurement, and shall be made of such materials and in such manner as to be, as far as practicable, proof against mechanical and atmospheric agencies and other sources of error.

6.-(1) Every standard of any unit of measurement procured under section 6 of this Act, shall be calibrated and certified at a specified standards laboratory before such standard is brought into use in Belize.

(2) The Minister may, by Order published in the Gazette, declare that a standard of any unit of measurement which has been procured and verified under this section shall be brought into use in Belize and such standard shall, upon the commencement of such Order, become a National Reference Standard and shall for all purposes be deemed to be true and accurate.
(3) The Minister shall, at least once after every ten years, cause such National Reference Standards as he deems necessary to be verified at a specified standards laboratory.

(4) Where any National Reference Standard is sent out of Belize for purposes of Verification, the Minister shall, in its absence, cause a Secondary Standard of that unit of measurement to be verified by comparison with such National Reference Standard and authenticated in such manner as the Minister may direct, and thereafter placed in the custody of the Director, and such Secondary Standard shall, during such time as the National Reference Standard is out of Belize, be deemed to be a National Reference Standard.

7.–(1) The Minister may, for the purposes of this Act, cause such copies as he may consider necessary of any National Reference Standard to be made in such manner and to be of such material, form and specification as he may prescribe or Secondary Standards.

(2) Every Secondary Standard of any unit of measurement shall be kept and preserved in such manner as may be prescribed, at the office and in the custody of the Director, who shall, at least once every five years, cause such Standard to be compared with the National Reference Standard of that unit of measurement, and if necessary, to be corrected, adjusted or calibrated.

(3) The Minister may, at anytime by Order published in the Gazette, cancel any Secondary Standard and any standard so cancelled shall thereupon cease to be, or to used as, a Secondary Standard.

(4) The Director may from time to time for the purposes of this Act procure such copies as may be necessary of the Secondary Standards of any unit of measurement, and every such copy shall be made in such manner and shall be of such materials, form and specifications as may be prescribed for that purpose.

(5) The Director shall cause every such copy of a Secondary Standard to be verified, and if found to be correct, to be authenticated, in the prescribed manner, and every copy so authenticated shall be a Working Standard for the purposes of this Act, and shall be deemed until the contrary is proved, to be true and accurate.
8.-(1) Every Working Standard in the custody of the Director, a Weights and Measures Inspector or any other agency to which custody has been assigned, shall be verified at least once every two years by comparison against a Secondary Standard of that unit of measurement.

(2) In the event of damage of a Working Standard, such standard shall not be used unless it has been compared with a Secondary Standard of that unit of measurement and found to be true and accurate, and authenticated by the Director in the prescribed manner.


10. The Director shall be the custodian of National Reference Standards, Secondary Standards and Working Standards.

PART III

Use of Authorised Units of Measurements, Weights and Measuring Equipment

11. Every contract, bargain, sale or dealing made or had in Belize whereby any work, goods, wares, merchandise, or other thing is or are to be done, sold, hired, delivered, carried, measured, computed, paid for, or agreed to, by a unit of measurement, shall be made and had according to any one of the authorized units of measurement specified in the Third Schedule.

12. All fees and duties whatsoever charged or collected in Belize shall be based on the authorized units of measurement specified in the Third Schedule.

13. The packing in Belize of any article or container for the purposes of sale shall be done according to any one of the authorized units of measurement specified in the Third Schedule.
14. The provisions of section 12 of this Act, shall not apply to goods which are intended for dispatch to a destination outside Belize.

15. All weighing and measuring equipment for use in trade in Belize shall be in the authorized units of measurement specified in the Third Schedule.

16.–(1) No weight or measure other than a weight or measure of an authorized denomination specified in Part 1 or Part II of the Fourth Schedule shall be used for purposes of any trade.

(2) No person shall use for the purposes of any trade, or have in his possession for use in any trade,

(a) any weight which purports to be of an authorized denomination, unless the denomination is indelibly marked on the top or side thereof in legible figures and letters;

(b) any measure of length or volume which purports to be of a denomination equivalent to an authorized denomination, unless the denomination is marked indelibly on the outside thereof in legible figures and letters;

(c) nothing in this section shall be deemed to require the marking of a denomination of any weight, if the small size of such weight renders such marking impracticable.

17. No person shall use for the purposes of any trade, or have in his possession for use in any trade, any weighing or measuring instrument which does not bear a stamp indicating the maximum weight or measure, as the case may be, which may be weighted or measured by means of such instrument.

18. No person shall sell or expose for sale any weight or measure or weighing or measuring instrument which has not been verified and stamped by a Weights and Measures Inspector with the prescribed mark of verification.
19. No person shall use a weight, measure or weighing or measuring instrument which instrument has not been verified and stamped by a Weights and Measures Inspector with the prescribed mark of verification for purposes of trade.

20.—(1) Every person who in any shop, warehouse, store, market or public place sells any goods by weight or measure, whether on his own behalf or on behalf of the owner of such goods, shall on demand make by the person to whom the goods are to be delivered,

(a) if the goods are sold by weight, weight the goods in a weighing instrument in the presence of that person;

(b) if the goods are sold by volume or capacity, measure the goods in a measure of volume or capacity in the presence of that person; or

(c) if the goods are sold by linear measure, measure the goods using a measure of length in the presence of that person.

(2) The provisions of subsection (1) of this section, shall not apply to the sale of pre-packaged goods.

PART IV

Verification, Inspection and Stamping of Weighing and Measuring Equipment.

21.—(1) All weighing and measuring equipment for use in trade and for any of the purposes prescribed in subsection (2) of this section, shall be,
subject to in-service verification in accordance with requirements prescribed by the Minister by Order published in the Gazette;

subject to verification after repair or modification.

(2) Weighing and measuring equipment for use by and in the Government shall include the following,

(a) specific prescribed weighing or measuring equipment for use in the field of public health;

(b) specific prescribed weighing or measuring instruments for use in the sale of electricity and water;

(c) specific prescribed weighing or measuring equipment for use in industry, engineering or any other field.

22.—(1) The Director shall fix the time and the place for each district or area which a Weights and Measures Inspector shall examine and verify weights and measures and weighing and measuring instruments weighing and measuring instruments.

(2) Public notice of the time and place fixed under subsection (1) of this section for the examination and verification of weights and measures and weighing and measuring instruments shall be given by the Director by notice in two consecutive issues of the Gazette, a newspaper in general circulation in Belize, and on a radio and television network operating within Belize.

(3) Every Weights and Measures Inspector shall at the time and place fixed under subsection (1) of this section, attend and,

(a) examine in the prescribed manner every weight or measure which is produced for that purpose and compare it with a Working Standard of that weight or measure; and
(b) examine and test in the prescribed manner every weighing or measuring instrument which is produced for that purpose.

(4) Nothing in subsection (1) of this section, shall be deemed to prevent a Weights and Measures Inspector from examining, comparing or testing any weight or measure or weighing or measuring instrument which is produced for examination at any time or place other than the time or place fixed under that subsection.

(5) No Weights and Measures Inspector shall examine any weight or measure or weighing or measuring instrument under this section, except upon payment of the prescribed fee.

23.—(1) A Weights and Measures Inspector who, upon examination under section 23 of this Act, finds any weight or measure or weighing or measuring instrument to be correct, and otherwise in all respects to comply with the provisions of this Act and of any Regulations made thereunder, shall stamp such weight, measure or instrument in the prescribed manner with the prescribed mark of verification.

(2) No Weight and Measures Inspector shall stamp with a mark of verification any weight or measure or weighing or measuring instrument which is not correct or which does not comply with any provisions of this Act or any applicable Regulations.

(3) No Weights and Measures Inspector shall stamp any weight or measure with a mark of verification,

   (a) unless such weight or measure is of an authorized denomination; and

   (b) unless he has tested it by comparison with a Working Standard of that weight or measure.

24. Every weight or measure or weighing or measuring instrument which has been duly stamped by a Weights and Measures Inspector under this Act with the prescribed mark of verification shall, unless it is found thereafter to be false or incorrect, be a legal weight, measure or instrument, as the case maybe, in any part of Belize.
25.—(1) All weights, measures and weighing and measuring instruments used for purposes of trade and in the fields specified in section 22 (2) of this Act, shall be subject to pattern approval on the payment of the prescribed fee, by the Director in accordance with the specification and limits of error as may be specified by Regulations made by the Minister under this Act.

(2) Where on a subsequent examination of any weight, measure or weighing or measuring instrument which has been approved earlier by the Director it is found to be defective, the Director shall have the power to cancel such earlier approval and notify any affected person of such cancellation.

PART V

Quantities, Pre-packed Products and dealing in Measuring Equipment.

26.—(1) No person shall sell any goods by weight or measure unless he does so by net weight or measure.

(2) Subject to the provisions of section 28 (2) of this Act, any person who, in selling or purporting to sell any goods by weight or other measurement or by number, delivers or causes to be delivered to the buyer a lesser quantity than that purported to be supplied or than that which corresponds with the price charged, shall be guilty of an offence.

27.—(1) The net weight or measure marked on a container of pre-packaged goods shall be subject to the tests and limits prescribed by Order made by the Minister in the Gazette.

(2) No person shall sell or expose for sale any goods in a container or pre-package by weight or by measure unless such goods comply with the limits specified in the Fifth Schedule.

(3) Subject to such exemptions as may be prescribed by the Minister by Order in the Gazette, no person shall sell any pre-packaged goods by weight or measure unless the net weight or the net measure is marked
on the container in the prescribed manner in terms of authorized units of measurement specified in the Third Schedule.

(4) Any person who supplies, sells or exposes for sale, goods in a container or pre-package which is so made, formed or filled as to be misleading as to the nature, weight or capacity of the contents thereof shall be guilty, of an offence.

(5) It shall be the duty of any person who is an importer, or a packer of pre-packaged goods, to ensure that such pre-package is marked in the prescribed manner with,

(a) a statement of the quantity contained in terms of authorized units of measurement specified in the Third Schedule;

(b) the name and address of the manufacturer, or the packer or the importer, or a mark which enables the manufacturer or the packer or the importer to be readily ascertained and identified.

28.—(1) No person shall sell, manufacture or repair any weight or measure or any weighing or measuring instrument except under the authority of a licence issued by the Director under this section.

(2) Every person who wishes to obtain a licence under subsection (1) of this section,

(a) to repair any weight, measure or weighing instrument shall,

(i) demonstrate to the satisfaction of the Director his ability or the ability of persons employed by him to repair the type of weight, measure or weighing or measuring instrument which he seeks to repair; and

(ii) be in possession of such equipment, tools and other facilities as may be required for the proper execution of such repair;

Prohibition of sale, manufacture or repair of any weight, measure, without licence.
(b) to manufacture any weight, measure or weighing or measuring instrument shall,

(i) demonstrate to the satisfaction of the Director, his ability or the ability of persons employed by him to manufacture the type of weight, measure or weighing or measuring instrument which he seeks to manufacture;

(ii) be in possession of such equipment, tools and other facilities as may be required for the manufacture or assembly of such weight, measure or weighing or measuring instrument; and

(iii) submit to the Director for pattern approval such drawings and samples as may be required of such weight, measure or weighing and measuring instrument which he intends to manufacture.

(3) No licence to sell, manufacture or repair weights, measures, and weighing and measuring instruments shall be issued to any person except upon payment of the prescribed fee.

(4) Every licence issued by the Director under this section shall be in the prescribed form, and subject to such conditions as may be attached thereto, shall be in force until such date as may be specified in the licence.

(5) The Director may revoke any licence issued under this section if the holder of the licence is convicted of an offence under this Act.

(6) Regulations maybe made, prohibiting persons licensed under this section from demanding or accepting, in respect of the repair or adjustment of weights, measures, and weighing and measuring instruments, fees in excess of such maximum fees as may be prescribed by such Regulations.
PART VI

Powers and Functions of the National Metrological Service.

29.—(1) It shall be the duty of the Bureau of Standards to perform the duties and functions of the National Metrology Service.

(2) The Director of the Bureau of Standards appointed under section 4 of the Standards Act, Cap. 294, shall be the Director of the National Metrology Service for the purposes of this Act.

(3) The Minister may, on the advice of the Director, appoint an officer of the Bureau of Standards to be the Chief Inspector of Weights and Measures and such other officers to be Weights and Measures Inspectors (herein referred to as “Inspectors”)

(4) The Director may delegate any or all powers conferred on him under this Act to the Chief Inspector of Weights and Measures or to an Inspector.

30.—(1) No Inspector shall use any Working Standard for the purpose of testing any weight or measure at any time after the expiry of a period of two years from the date on which that standard was last stamped as correct under section 7 of this Act.

(2) No Inspector shall use for the purposes of this Act a weighing or measuring instrument which is provided for his use unless that instrument has been verified in the prescribed manner.

31.—(1) No Inspector shall derive any profit from or be employed in the making or selling of weights or measures or weighing or measuring instruments.

(2) Subject as hereinafter provided, no Inspector shall repair, alter or adjust any weight or measure or weighing or measuring instrument:

(3) Where the Director is satisfied that it is desirable that an Inspector should be allowed to adjust weights and measures and weighing and
measuring instruments within an area or any district as the case may be, the Director may authorize that Inspector to act in that area or district as adjuster of weights and measures and weighing and measuring instruments.

(4) No Inspector who is authorized under subsection (2) of this section to act as an adjuster of weights and measures and weighing and measuring instruments shall adjust any weight or measure or weighing or measuring instrument except upon payment of the prescribed fee.

32. All fees paid under this Act shall be credited to the account of the Bureau of Standards.

33. Every Inspector shall keep a register in the prescribed form and shall enter such particulars as may be prescribed relating to the performance of his duties under this Act and shall at such times as may be prescribed transmit the register to the Director for examination.

34. Every person designated as an Inspector shall Forthwith on his being designated give security in such sum as may be prescribed for the due discharge of the duties of his office, for the due payment of all fees received by him under this Act and for the safety of the Working Standards and stamps and other appliances under his custody and control.

Provided that the Minister may waive the requirement of provision of security as provided in this section.

35. The Director or the Chief Weights and Measures Inspector or any Inspector may at any reasonable time enter any factory, shop, store, warehouse, shed, land, vehicle or premises in which any weight or measure or weighing or measuring instrument is or is suspected to be kept or used for the purpose of any trade, or any article or goods are offered or exposed for sale and may,

(a) search for, or require the person for the time being in charge thereof to produce for inspection, all or any weights and measures and weighing and measuring instruments kept therein;
(b) inspect any weight or measure which is found therein or produced for examination, and compare it with a Working Standard of that weight or measure;

(c) inspect and test any weighing or measuring instrument which is found therein or produced for examination;

(d) seize and detain for the purpose of a prosecution for an offence under this Act or any other written law any weight or measure or weighing or measuring instrument which is found upon comparison or test to be incorrect, or which appears to have been, or likely to be, used in contravention of any provision of this Act or such other written law;

(e) inspect and weigh or inspect and measure, any article or goods which are therein kept, or offered or exposed for sale, in order to ascertain whether the provisions of this Act are being complied with in respect of such article or goods, and seize and detain any article or goods in respect of which or in relation to which a contravention of any provision of this Act has been or is suspected to have been committed;

(f) require the production of all books, accounts, or documents relating to goods therein and inspect and copy any of those books, accounts or documents; or

(g) take such samples of any goods and articles therein as may reasonably be required by him for the proper performance of his duties.

PART VII

Offences and Penalties

36. Any person who uses for any trade or have in his possession for use in any trade, any weight or measure which is unmarked with its denomination shall be guilty of an offence and shall on summary
conviction be liable to a fine not exceeding one thousand dollars or to imprisonment for a term not exceeding three months or to both such fine and imprisonment.

37. Any person who sells or exposes for sale any weight or measure or weighing or measuring instrument which has not been stamped by an Inspector with the prescribed mark of verification shall be guilty of an offence and shall on summary conviction be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

38.—(1) Any person who uses for the purposes of any trade or has in his possession for use in any trade, any weight or measure or weighing or measuring instrument which has not in the period of twelve months preceding such time been stamped by an Inspector with the prescribed verification mark shall be guilty of an offence and shall be liable on summary conviction to a fine not exceeding three thousand dollars or to imprisonment not exceeding six months or to both such fine and imprisonment.

(2) Any person who contravenes the provisions of section 22 of this Act, in respect of weighing and measuring equipment for use in the fields specified in subsection (2) of that section is guilty of an offence and is liable on summary conviction to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

39. Any person who,

   (a) forges or counterfeits any stamp or mark provided under this Act for the by Inspectors in stamping weights or measures or weighing or measuring instruments; or

   (b) makes, uses sells, exposes for sale, utters or otherwise disposes of any weight or measure or weighing or measuring instrument bearing any stamp or mark which he knows to be false, forged or counterfeited; or
(c) removes any mark which has been stamped by an Inspector on any weight or measure or weighing or measuring instrument and inserts such mark on any other weight, measure or weighing or measuring instrument; or

(d) increases or diminishes a weight or measure which has been stamped or certified by an Inspector under this Act, or tampers with a weighing or measuring instrument which has been so stamped, or uses, sells, exposes for sale, utters for sale, keeps in his possession for use in a trade or otherwise disposes of any weight or measure which he knows to be so increased, diminished or false, or any weighing or measuring instrument which he knows to be tampered with;

is guilty of an offence and is liable on summary conviction to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

40. Any person who uses for the purpose of any trade, or has in his possession for use in any trade, any weight or measure or weighing or measuring instrument which is not correct, is guilty of an offence and is liable on summary conviction to fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

41. Any person who, in any place or area by any means whatsoever, whether direct or indirect, makes any false, incorrect or untrue declaration or statement knowing the same to be false, incorrect or untrue as the case may be, in relation to the number, quantity, measure, gauge or weight of any goods or articles in connection with their purchase, sale, weighing or a measurement, or in the computation of any charges for services rendered on the basis of weight or measure, or who sells, or causes to be sold, or delivers or causes to be delivered, to a purchaser anything by weight or measure short of quantity demanded of or represented by the seller, is guilty of an offence and shall, on summary conviction, be liable
to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

42. Any person who supplies, sells or exposes for sale any goods in a container or pre-package which is so made, formed or filled as to be misleading as to the nature, weight or capacity of the contents, shall be guilty of an offence and shall on summary conviction be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

43. Whosoever uses any false weight or measure of capacity, or uses any weight or any measure of length or capacity representing it to be a different weight or measure from what it is, is guilty of an offence and shall on summary conviction be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

44. Any person who is an importer or a packer of pre-packaged goods,

(a) who imports or packs pre-packaged goods in contravention of the requirements of section 27(2) of this Act;

(b) who fails to mark in authorized units on any pre-packaged goods the number and net weight measure it contains; or

(c) who fails to indicate the name and address of the manufacturer or the importer or to mark enabling identification of such name and address;

is guilty of an offence and shall on summary conviction be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

45. Any person who sells or exposes for sale a pre-package or container of pre-packaged goods of which the number, the net weight or measure is not marked on the pre-package or the container in terms of units specified in the Third Schedule is guilty of an offence and shall, on summary
conviction, be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

46. Any person who,

(a) except under the authority of a licence issued in that behalf under this Act manufacturers or repairs any weight or measure or weighing or measuring instrument; or

(b) being the holder of such licence, commits a breach of any condition lawfully inserted in the licence;

is guilty of an offence and shall, on summary conviction, be liable to a fine not exceeding one thousand dollars or to imprisonment for a term not exceeding three months or to both such fine and imprisonment.

47. Any person who refuses to produce a weight or measure or weighing or measuring instrument when required to do so by the Director, the Chief Weights and Measures Inspector or an Inspector lawfully acting in accordance with this Act or who resists or obstructs that person in the lawful exercise of his duties is guilty of an offence and shall, on summary conviction, be liable to a fine not exceeding three thousand dollars or to imprisonment for a term not exceeding six months or to both such fine and imprisonment.

48. Any Inspector who commits a breach of any provision of Part VI, or of any Regulations relating to the examination, verification or stamping of weights or measures or weighing or measuring instrument is guilty of an offence and shall, on summary conviction, be liable to a fine not exceeding one thousand dollars or to imprisonment for a term not exceeding three months or to both such fine and imprisonment.

49. Any person who commits a breach of any provision of this Act or any Regulations made thereunder shall, where no penalty is expressly provided for such breach, be guilty of an offence and be liable to a fine not exceeding five thousand dollars or to a term of imprisonment not exceeding one year, or to both such fine and imprisonment.
50. Any court may, on the conviction of any person of an offence under this Act relating to any weight or measure or weighing or measuring instrument, make an order declaring that such weight or measure or weight or measuring instrument shall be forfeited, and every weight or measure or weighing or measuring instrument which is so forfeited shall be disposed of in such manner as may be prescribed by Regulations.

51. For the purposes of this Act, any weight or measure or weighing or measuring instrument which is found in the possession of any person who carries on any trade shall be deemed, until the contrary is proved, to be in the possession of that person for use in trade.

52. No prosecution shall be instituted against a person for an offence under this Act except by or with the written consent of the Director of the Director of Public Prosecutions.

53. Where an offence under this Act is committed by an agent or servant of a manufacturer or trader, such offence shall be deemed to have been committed by that manufacturer or trader unless he proves that the offence was committed without his knowledge.

54. Where an offence under this Act is committed by a body of persons, whether corporate or unincorporated, then,

(a) if the body of persons is a body corporate, every person who at the time of the commission of the offence was a director, secretary or other officer of that body corporate; or

(b) if the body of persons is a body other than a body corporate, every person who at the time of the commission of the offence was a member of that body shall be deemed to be guilty of the offence until he proves that the offence was committed without his knowledge or consent or that he exercised due diligence to prevent the commission of the offence.
PART VIII

Miscellaneous

55. (1) The Director, Deputy Director, an Inspector or other person authorised by the Director may request the assistance of a police officer in uniform in the enforcement of the provisions of this Act.

(2) A police officer who is requested to give assistance under subsection (1) of this section, shall give such assistance.

56.−(1) The Minister may make Regulations for the more effectual working of this Act in respect of the following,

(a) the exemption in whole or in part from the provisions of this Act of any undertaking or class of undertaking specified in the Regulations;

(b) the verification and stamping of weights, measures, weighing or measuring instruments, including the prohibition of stamping in cases where the nature denomination, material or principles of construction of the weight, measure, weighing or measuring instrument appears likely to facilitate the perpetration of fraud;

(c) the tests to be applied for the purpose of ascertaining the accuracy and efficiency of weights, measures, and weighing or measuring instruments;

(d) the limits of error to be allowed on verification and to be tolerated either generally or in respect to any trade;

(e) the fees that may be paid for examining, verifying or stamping with a stamp of verification any weight, measure, and weighing or measuring instrument;

(f) the manner in which the value expressed in terms of any weight or measure other than in terms of standard mass or measures may be converted;
(g) the enabling of Inspectors to carry out their duties under this Act;

(h) the enforcement of the requirements that relate to weighing or measuring equipment for use for purpose of trade;

(i) the materials and principles of construction of weighing or measuring equipment which are used for the purpose of trade;

(j) the purpose for which particular types of weighing or measuring equipment may be used in trade;

(k) the manner for erecting, sitting or using weighing or measuring equipment for the purposes of trade;

(l) the quantities in which prescribed pre-packaged goods may be sold;

(m) the prescribing of anything that is by this Act authorized or required to be prescribed; and

(n) the carrying out of the provisions of this Act.

(2) Regulations made by the Minister under this section shall be published in the Gazette and shall come into operation on the date of such publication or on such later date as may be specified in the Regulations.

57. The Minister may, by Order published in the Gazette, amend the Schedules of this Act by adding or removing any unit of measurement specified therein.

58.—(1) If any dispute arises between an Inspector and any other person as to the meaning or construction of any regulation or as to the methods to be adopted in testing any weight, measure or weighing or measuring instrument, such dispute shall, be brought to the attention of the Director by either party.
(2) The Director shall consider and investigate the matter and make a decision which decision shall be final and conclusive on question of fact.

59. A certificate, purporting to be issued by the Director or the Chief Weights and Measures inspector, regarding the condition of any examined weight, measure or weighing or measuring instrument shall, without further proof be admissible in evidence in any court of competent jurisdiction and shall be *prima facie* proof of the facts stated therein.

60. The Weights and Measures Act, Revised Edition 2000 is hereby repealed.
FIRST SCHEDULE
NATIONAL METROLOGY ACT

Classes of Units
[Section 3 and 6]

PART I
BASE UNIT

<table>
<thead>
<tr>
<th>Physical Quality</th>
<th>Name of Unit</th>
<th>Unit Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Metre</td>
<td>m</td>
<td>The unit for the measurement of length equal to 1650163.73 wavelengths in vacuum of the radiation corresponding to the transition between the levels (2p_{10}) and (5d_5) of the Krypton-86 atom.</td>
</tr>
<tr>
<td>mass</td>
<td>Kilogram</td>
<td>Kg</td>
<td>The unit for the measurement of mass of the international prototype of the kilogram established in the year 1889 by the Conference of weights and Measures deposited at the International Bureau of Weights and Measures.</td>
</tr>
<tr>
<td>time</td>
<td>Second</td>
<td>s</td>
<td>The unit for the measurement of time, being the duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium-133 atom.</td>
</tr>
<tr>
<td>Electric current</td>
<td>Ampere</td>
<td>A</td>
<td>The unit for the measurement of electric current, being that constant current, which, if maintained in two straight parallel conductors of infinite length, of negligible circular cross-section and placed one metre apart in vacuum, would produce between these two conductors a force equal to 2</td>
</tr>
<tr>
<td>Physical Quantity</td>
<td>Name of Unit</td>
<td>Symbol</td>
<td>Definition</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------</td>
<td>--------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>thermodynamic temperature</td>
<td>Kelvin</td>
<td>k</td>
<td>The unit for the measurement of thermodynamic temperature, being the fraction 1/273.16 of the thermodynamic temperature of the triple point of water</td>
</tr>
<tr>
<td>luminous intensity</td>
<td>Candela</td>
<td>cd</td>
<td>The unit of measurement of luminous intensity, being the luminous intensity, in a given direction of a source which emits monochromatic radiation of frequency 540x10^{12} hertz having a power flux in that direction of 1/683 watt per steradian.</td>
</tr>
<tr>
<td>Amount of substance</td>
<td>mole*</td>
<td>mol</td>
<td>The unit for the measurement of the amount of substance of a system which contains as many elementary entities as there are atoms in 0.012 kilogram of carbon 12.</td>
</tr>
</tbody>
</table>
PART II

SUPPLEMENTARY UNITS

<table>
<thead>
<tr>
<th>Physical Quantity</th>
<th>Name of Unit</th>
<th>Unit Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plane angle</td>
<td>Radian</td>
<td>rad</td>
<td>The unit for the measurement of plane angle, being the angle with its vertex at the centre of a circle and subtended by an arc of the circle that is equal in length to its radius.</td>
</tr>
</tbody>
</table>

*Note: When the mole is used, the elementary entities must be specified and may be atoms, molecules, ions, electrons, the particles or specified groups of such particles.*

<table>
<thead>
<tr>
<th>Physical Quantity</th>
<th>Name of Unit</th>
<th>Unit Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>solid angle</td>
<td>steradian</td>
<td>Unit Symbol</td>
<td>the unit for the measurement of solid angle, being the angle with its vertex at the centre of a sphere and subtended by an area on the spherical surface equal to that of a square with sides equal in length to the radius.</td>
</tr>
</tbody>
</table>
### PART III

**SI DERIVED UNITS EXPRESSES IN TERMS OF BASE UNITS**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit</th>
<th>Symbol</th>
<th>Expression in terms of other units</th>
<th>Expression in terms of SI base units</th>
</tr>
</thead>
<tbody>
<tr>
<td>area</td>
<td>Square metre</td>
<td>m²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>volume</td>
<td>cubic metre</td>
<td>m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>speed, velocity</td>
<td>metre per second</td>
<td>m/s, ms⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acceleration</td>
<td>metre per second squared</td>
<td>m/s², ms⁻²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>wave number</td>
<td>1 per metre</td>
<td>m⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>density, mass density</td>
<td>kilogram per cubic metre</td>
<td>Kg/m³, kgm⁻³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit</th>
<th>Symbol</th>
<th>Expression in terms of other units</th>
<th>Expression in terms of SI base units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current density</td>
<td>ampere per square metre</td>
<td>A/m², Am⁻²</td>
<td></td>
<td></td>
</tr>
<tr>
<td>magnetic field</td>
<td>ampere per meter</td>
<td>A/m, Am⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>strength concentration</td>
<td>mole per cubic metre</td>
<td>mol/m³, mol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(of amount of substance)</td>
<td>cubic meter per kilogram</td>
<td>m³/kg, m³kg⁻¹</td>
<td></td>
<td></td>
</tr>
<tr>
<td>specific volume luminance</td>
<td>candela per square metre</td>
<td>cd/m², cdm²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PART IV

**SI DERIVED UNITS WITH SPECIAL NAMES**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit Name</th>
<th>Symbol</th>
<th>Expression in terms of other units</th>
<th>Expression in terms of SI base units</th>
</tr>
</thead>
<tbody>
<tr>
<td>frequency</td>
<td>hertz</td>
<td>Hz</td>
<td>-</td>
<td>s⁻¹</td>
</tr>
<tr>
<td>force</td>
<td>newton</td>
<td>N</td>
<td>-</td>
<td>Mkgs⁻²</td>
</tr>
<tr>
<td>pressure, stress</td>
<td>pascal</td>
<td>Pa</td>
<td>N/m²</td>
<td>m⁻¹kgs⁻²</td>
</tr>
<tr>
<td>Quantity</td>
<td>SI Unit Name</td>
<td>Symbol</td>
<td>Expression in terms of other units</td>
<td>Expression in terms of SI base units</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------</td>
<td>--------</td>
<td>------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Energy, work quantity of heat</td>
<td>joule</td>
<td>J</td>
<td>Nm</td>
<td>m²kgs⁻²</td>
</tr>
<tr>
<td>power</td>
<td>watt</td>
<td>W</td>
<td>J/s</td>
<td>m²kgs⁻³</td>
</tr>
<tr>
<td>Quantity of electric charge</td>
<td>coulomb</td>
<td>C</td>
<td>-</td>
<td>SA</td>
</tr>
<tr>
<td>Electric potential, volts, potential difference, electro-motive force</td>
<td>volt</td>
<td>V</td>
<td>W/A</td>
<td>m²kgs⁻³A⁻¹</td>
</tr>
<tr>
<td>capacitance</td>
<td>farad</td>
<td>F</td>
<td>C/V</td>
<td>m⁻²kg⁻¹A⁻¹s⁴</td>
</tr>
<tr>
<td>electric resistance</td>
<td>ohms</td>
<td>Y</td>
<td>V/A</td>
<td>m²kgs⁻³A²</td>
</tr>
<tr>
<td>conductance</td>
<td>Siemens</td>
<td>S</td>
<td>A/V</td>
<td>m⁻²kg⁻¹s³A²</td>
</tr>
<tr>
<td>Magnetic flux</td>
<td>weber</td>
<td>Wb</td>
<td>Vs</td>
<td>M²kgs⁻²A⁻¹</td>
</tr>
<tr>
<td>Magnetic flux density</td>
<td>tesla</td>
<td>T</td>
<td>Wb/m²</td>
<td>Kgs⁻²A⁻²</td>
</tr>
<tr>
<td>Inductance</td>
<td>Henry</td>
<td>H</td>
<td>Wb/A</td>
<td>M²kgs⁻²A²</td>
</tr>
<tr>
<td>Luminous flux</td>
<td>Lumen</td>
<td>lm</td>
<td>-</td>
<td>cdsr</td>
</tr>
<tr>
<td>Illuminance</td>
<td>Lux</td>
<td>lx</td>
<td>Lm/m²</td>
<td>m⁻²cdsr</td>
</tr>
<tr>
<td>Absorbed dose, specified energy imparted, kerma</td>
<td>Gray</td>
<td>Gy</td>
<td>J/kg</td>
<td>m⁻²s⁻²</td>
</tr>
<tr>
<td>Absorbed dose index</td>
<td>Degree</td>
<td>°C</td>
<td>-</td>
<td>k</td>
</tr>
<tr>
<td>Celsius temperature</td>
<td>Celsius</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## PART V

### EXAMPLES OF SI DERIVED UNITS EXPRESSED BY MEANS OF SPECIAL NAMES AND BASE UNITS

<table>
<thead>
<tr>
<th>Quantity</th>
<th>SI Unit Name</th>
<th>Symbol</th>
<th>Expression in terms of SI base Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>dynamic viscosity</td>
<td>pascal second</td>
<td>Pas</td>
<td>( \text{m}^{-1}\text{kgs}^{-1} )</td>
</tr>
<tr>
<td>moment force</td>
<td>Metre newton</td>
<td>Nm</td>
<td>( \text{m}^2\text{kgs}^{-2} )</td>
</tr>
<tr>
<td>surface tension</td>
<td>Newton per metre</td>
<td>N/m</td>
<td>( \text{kgs}^{-2} )</td>
</tr>
<tr>
<td>Power density, heat flux density, inadiance</td>
<td>Watt per square metre</td>
<td>W/m</td>
<td>( \text{kgs}^{-3} )</td>
</tr>
<tr>
<td>Heat capacity, entropsyh</td>
<td>Joule per Kelvin</td>
<td>J/K</td>
<td>( \text{m}^2\text{kgs}^{-2}\text{k}^{-1} )</td>
</tr>
<tr>
<td>Specific heat capacity, entropsyh</td>
<td>Joule per kilogram</td>
<td>J/(kg.K)</td>
<td>( \text{m}^2\text{s}^{-2}\text{K}^{-1} )</td>
</tr>
<tr>
<td>Specific entropy</td>
<td>Kelvin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific energy</td>
<td>Joule per kilogram</td>
<td>J/kg</td>
<td>( \text{m s}^{-2} )</td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>Watt per metre</td>
<td>W/(mK)</td>
<td>( \text{mkgs}^{-3}\text{K}^{-1} )</td>
</tr>
<tr>
<td>Energy density</td>
<td>Joule per cubic metre</td>
<td>J/m³</td>
<td>( \text{m}^3\text{kgs}^{-2} )</td>
</tr>
<tr>
<td>Electric field strength</td>
<td>Volt per metre</td>
<td>V/m</td>
<td>( \text{mkgs}^{-3}\text{A}^{-1} )</td>
</tr>
<tr>
<td>Electric charge density</td>
<td>Coulomb per cubic metre</td>
<td>C/m³</td>
<td>( \text{m}^2\text{As} )</td>
</tr>
<tr>
<td>Electric flux density</td>
<td>Coulomb per square metre</td>
<td>C/m²</td>
<td>( \text{m}^2\text{As} )</td>
</tr>
<tr>
<td>Permittivity</td>
<td>Farad per metre</td>
<td>F/m</td>
<td>( \text{m}^3\text{kgs}^{-4}\text{s}^{4}\text{A}^{2} )</td>
</tr>
<tr>
<td>Permeability</td>
<td>Henry per metre</td>
<td>H/m</td>
<td>( \text{m} \text{kgs}^{-2}\text{A}^{-2} )</td>
</tr>
<tr>
<td>Molar energy</td>
<td>Joule per mole</td>
<td>J/mol</td>
<td>( \text{m}^2\text{kgs}^{-2}\text{mol}^{-1} )</td>
</tr>
<tr>
<td>Molar entropy, molar heat capacity</td>
<td>Joule per mole</td>
<td>J/(mol.K)</td>
<td>( \text{m}^2\text{kgs}^{-2}\text{k}^{-1}\text{mol}^{-1} )</td>
</tr>
<tr>
<td>Exposure (X and Y rays)</td>
<td>Coulomb per kilogram</td>
<td>C/kg</td>
<td>( \text{Kg}^{-1}\text{As} )</td>
</tr>
<tr>
<td>Absorbed dose rate</td>
<td>Gray per second</td>
<td>Gy/s</td>
<td>( \text{M}^{-3}\text{s}^{-3} )</td>
</tr>
</tbody>
</table>
### PART VI

#### PERMITTED UNITS

<table>
<thead>
<tr>
<th>Physical Quantity</th>
<th>Name of Unit</th>
<th>Unit Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>time</td>
<td>minute</td>
<td>min</td>
<td>$1 \text{ min} = 60 \text{s}$</td>
</tr>
<tr>
<td></td>
<td>hour</td>
<td>h</td>
<td>$1 \text{ h} = 60 \text{min}$</td>
</tr>
<tr>
<td></td>
<td>day</td>
<td>d</td>
<td>$1 \text{ d} = 24 \text{ h}$</td>
</tr>
<tr>
<td></td>
<td>week</td>
<td>wk</td>
<td>$1 \text{ wk} = 7 \text{ d}$</td>
</tr>
<tr>
<td></td>
<td>calendar year</td>
<td>yr</td>
<td>$1 \text{ yr} = 365 \text{ d}$ or $366 \text{ d (leap year)}$</td>
</tr>
<tr>
<td>plane angular</td>
<td>Degree</td>
<td>$^\circ$</td>
<td>$1^\circ = \pi/180$ radian</td>
</tr>
<tr>
<td>measure</td>
<td>Minute</td>
<td>$'$</td>
<td>$1'$ = 1/60</td>
</tr>
<tr>
<td></td>
<td>second</td>
<td>$''$</td>
<td>$1'' = 1'/60$</td>
</tr>
<tr>
<td>Volume of</td>
<td>Litre</td>
<td>L</td>
<td>$1 \text{ L} = 1 \text{dm}^3$</td>
</tr>
<tr>
<td>capacity</td>
<td>tonne</td>
<td>t</td>
<td>$1 \text{ t} = 1,000 \text{ kg}$</td>
</tr>
<tr>
<td>mass</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pressure</td>
<td>bar standard</td>
<td>Bar</td>
<td>$1 \text{ Bar} = 100 \text{ kpa}$</td>
</tr>
<tr>
<td></td>
<td>atmosphere</td>
<td>atm</td>
<td></td>
</tr>
<tr>
<td>area</td>
<td>are</td>
<td>a</td>
<td>$1 \text{ a} = 100 \text{m}$</td>
</tr>
<tr>
<td></td>
<td>hectare</td>
<td>ha</td>
<td>$1 \text{ ha} = 10,000 \text{m}^2$</td>
</tr>
<tr>
<td>temperature</td>
<td>degree celsius</td>
<td>$^\circ\text{C}$</td>
<td>$1^\circ\text{C} = 1\text{k}$ (temperature interval)</td>
</tr>
<tr>
<td>marine and aerial</td>
<td>nautical mile</td>
<td>knot</td>
<td>$1 \text{ nautical mile} = 1825 \text{m}$</td>
</tr>
<tr>
<td>navigation</td>
<td></td>
<td></td>
<td>$1 \text{ knot} = 1 \text{nautical mile per hour}$</td>
</tr>
</tbody>
</table>
PART VII

UNITS USED WITH SI IN SPECIALIZED SCIENTIFIC FIELDS

<table>
<thead>
<tr>
<th>Name of Unit</th>
<th>Unit Symbol</th>
<th>Value in SI Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electron volt</td>
<td>eV</td>
<td>$1 \text{eV} = 1.60219 \times 10^{-19} \text{J}$</td>
</tr>
<tr>
<td>unified atomic mass</td>
<td>u</td>
<td>$1 \text{u} = 1.66057 \times 10^{-27} \text{kg}$</td>
</tr>
<tr>
<td>astronomical unit</td>
<td>AU</td>
<td>$1 \text{AU} = 149597.87 \times 10^6 \text{m}$</td>
</tr>
<tr>
<td>parsec</td>
<td>pc</td>
<td>$1 \text{pc} = 30857 \times 10^6 \text{m}$</td>
</tr>
<tr>
<td>angstrom</td>
<td>A°</td>
<td>$1 \text{A°} = 10^{-10} \text{m}$</td>
</tr>
<tr>
<td>barn</td>
<td>b</td>
<td>$1 \text{b} = 10^{28} \text{m}^2$</td>
</tr>
<tr>
<td>curie</td>
<td>Ci</td>
<td>$1 \text{Ci} = 3.7 \times 10^{10} \text{s}^{-1}$ (Exactly)</td>
</tr>
<tr>
<td>gal</td>
<td>Gal</td>
<td>$1 \text{Gal} = 4.54609 \text{dm}^3$</td>
</tr>
<tr>
<td>metric carat*</td>
<td>-</td>
<td>$1 \text{metri carat} = 200 \text{mg}^*$</td>
</tr>
<tr>
<td>rontgen</td>
<td>R</td>
<td>$1 \text{R} = 2.58 \times 10^8 \text{Ckg}^{-1}$</td>
</tr>
</tbody>
</table>
# SECOND SCHEDULE

**NATIONAL METROLOGY ACT**

International System Units.

*Section 3*

**PREFIXES * FOR MULTIPLES AND SUBMULTIPLES OF BASE, SUPPLEMENTARY AND DERIVED UNITDS OF MEASUREMENT**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>exa</td>
<td>E</td>
<td>$10^{18}$</td>
</tr>
<tr>
<td>peta</td>
<td>P</td>
<td>$10^{12}$</td>
</tr>
<tr>
<td>tera</td>
<td>T</td>
<td>$10^{12}$</td>
</tr>
<tr>
<td>giga</td>
<td>G</td>
<td>$10^9$</td>
</tr>
<tr>
<td>mega</td>
<td>M</td>
<td>$10^0$</td>
</tr>
<tr>
<td>kilo</td>
<td>k</td>
<td>$10^3$</td>
</tr>
<tr>
<td>hector</td>
<td>h</td>
<td>$10^2$</td>
</tr>
<tr>
<td>deca</td>
<td>da</td>
<td>$10^1$</td>
</tr>
<tr>
<td>deci</td>
<td>d</td>
<td>$10^{-1}$</td>
</tr>
<tr>
<td>centi</td>
<td>c</td>
<td>$10^{-2}$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>milli</td>
<td>m</td>
<td>$10^{-3}$</td>
</tr>
<tr>
<td>micro</td>
<td>h</td>
<td>$10^{-6}$</td>
</tr>
<tr>
<td>nano</td>
<td>n</td>
<td>$10^{-9}$</td>
</tr>
<tr>
<td>pico</td>
<td>p</td>
<td>$10^{-12}$</td>
</tr>
<tr>
<td>femto</td>
<td>f</td>
<td>$10^{-15}$</td>
</tr>
<tr>
<td>atto</td>
<td>a</td>
<td>$10^{-18}$</td>
</tr>
</tbody>
</table>

*Note: Not to be confused with the carat to expressed the fineness of gold or other*
THIRD SCHEDULE

NATIONAL METROLOGY
Authorized Units for Use in Trade.

[Sections 2, 4, 5, 6, 12, 13, 16, 28, and 46]

PART I

THE INTERNATIONAL SYSTEM OF UNITS AND OTHER
METRIC UNITS

1.1 MEASUREMENT OF LENGTH

1.1.1 SI UNITS

Kilometre (km) = 1 000 metres

Meter (m) = as defined in Part 1 of the First Schedule

Millimetre (mm) = 1/1 000 meters

Micrometre (µm) = 1/1 000 000 meters

1.1.2 OTHER METRIC UNITS

Nautical mile = 1 852 metres

Centimetre = 1/100 metres
1.2 MEASUREMENT OF AREA

1.2.1 SI UNITS

Square metre ($m^2$) = as defined in Part III of the First Schedule

Square kilometre (km) = 1 000 000 square metres

Square millimetre ($mm^2$) = 1/1 000 000 th of square metre

1.2.2 OTHER METRIC UNITS

Hectare (ha) = 10 000 square metres

Are (a) = 100 square metres

Square centimetre = 1/10 000th of a square metre

1.3 MEASUREMENT OF PLANE AND SOLID ANGLE

1.3.1 PLANE ANGLE

Radian (rad) = as defined in Part II of the First Schedule

Degree (°) = $\pi/180$ radians

Minute (′) = $\pi/60$

Second (″) = $\pi/60$

1.3.2 SOLID ANGLE

Steradian (sr) = as defined in Part III of the First Schedule
1.4 MEASUREMENT OF SPEED

1.4.1 SI UNITS

Metre per second (m/s) = as defined in Part III of the First Schedule

1.4.2 OTHER METRIC UNITS

Kilometer per hour = 10/36 metres per second

1.5 MEASUREMENT OF VOLUME OR CAPACITY

1.5.1 SI UNITS

Cubic metre = as defined in Part III of the First Schedule

1.5.2 OTHER METRIC UNITS

Hectoliter (hL) = 100 litres

Litre (L) = 1/1 000th of a cubic metre

Cubic centimetre ((cm)³) = 1/1 000 000 th of a cubic metre

Decilitre (dL) = 1/10 th of a litre

Centiliter (cL) = 1/100 th of a litre

Millilitre (mL) = 1/1 000th of a litre
1.6 MEASUREMENT OF MASS

1.6.1 SI UNITS

Kilogram (kg) = as defined in Part 1 of the First Schedule
Gram (g) = 1/1000 th of kilogram
Milligram (mg) = 1/1000 000 th of a kilogram
Microgram (hg) = 1/1000 000 000 th of a kilogram

1.6.2 OTHER METRIC UNITS

Tonne (t) = 1 000 kilogram
Metric carat = 1/5 th part of a gram

1.7 MEASUREMENT OF DENSITY (MASS DENSITY)

1.7.1 SI UNITS

Kilogram per cubic metre = as defined in Part III of the First Schedule

1.7.2 OTHER METRIC UNITS

Tonne per cubic metre = 1 000 kilograms per cubic metre
1.8 MEASUREMENT OF FORCE

1.8.1 SI UNITS

Megapascal (MPa) = 1 000 000 pascals
Kilopascal (kPa) = 1 000 pascals
Pascal (Pa) = as defined in Part IV of the First Schedule

1.10 MEASUREMENT OF LINER DENSITY OF TEXTILES

1.10.1 OTHER METRIC UNITS

Tex (tex) = the mass in grams of one kilometre of yarn
1 g/1 km = 10^6 kg/m
Millitex (mtex) = 1/1 000 th of a tex
Decitex (dtex) = 1/10 th of a tex
Kilotex (Ktext) = 1 000 tex

1.11 MEASUREMENT OF TIME AND FREQUENCY

1.11.1 TIME

Minutes (min) = 60 s
Hour (h) = 60 mins
Day (d) = 24 h
Week = 7 d

Year = 365 d or 366 d (leap year)

1.11.2 FREQUENCY

Gigahertz (GHz) = 1 000 000 000 hertz

Megahertz (MHZ) = 1 000 000 hertz

Kilohertz (kHz) = 1 000 hertz

Hertz (Hz) = as defined in Part IV of the First Schedule

1.12 MEASUREMENT OF TEMPERATURE

1.12.0 SI UNITS

Kelvin (k) = as defined in Part I of the First Schedule

1.12.2 OTHER METRIC UNITS

1.12.1 SI UNITS

Kelvin (k) = as defined in Part I of the First Schedule

1.12.2 OTHER METRIC UNITS

Degree Celsius (°C) = one Kelvin (K)
The Celsius temperature scale is defined by the following equation:

1. \[ T - T_0 \]

(i) \( t \) temperature in degree Celsius.

(ii) \( T \) temperature in kelvins

(iii) \( T_0 \) 273.15 K.

1.13 MEASUREMENT OF ENERGY AND POWER

1.13.1 ENERGY, WORK AND QUANTITY OF HEAT

Joule (J) = as defined in Part IV of the First Schedule –

Kilojoule (kJ) = 1 000 joules

Megajoule (MJ) = 1 000 000 joules and all other multiples and sub-multiples as defined in the Second Schedule

Watthour (Wh) = \( 3.6 \times 10^3 \) joules

Kilo watthour (kWh) = 1 000 watthour

Electron volt (ev) = The energy acquired by an electron in passing through a potential difference of 1 volt in vacuum.
1.13.2 POWER ENERGY FLOW RATE AND HEAT FLOW RATE

Milliwatt (mW) = 1/1,000 of a watt

Watt (W) = as defined in Part IV of the First Schedule

Kilowatt (kW) = 1,000 watts

Megawatt (MW) = 1,000,000 watts and all other multiples and sub-multiples as defined in the Second Schedule

1.14. SPECIFIC ENERGY

1.14.1 SI UNITS

Kilojoules per kilogram (kJ/Kg) = 1,000 joules per kilogram

Joule per kilogram (J/Kg) = 1 joule per kilogram

1.14.2 OTHER UNITS

Joule per gram (J/g) = 1/1,000 th joules per kilogram

1.15 ELECTRIC CURRENT

1.15.1 SI UNITS

Ampere (A) = as defined in Part I of the First Schedule
Milliampere (mA) = 1/1,000 th of ampere
Microampere (A) = 1/1,000,000 th of ampere

1.16. ELECTRIMOTIVE FORCE AND POTENTIAL DIFFERENCE
1.16.1 SI UNITS

Kilovolt (kV) = 1,000 volts
Volt (V) = as defined in Part IV of the First Schedule
Millivolt (mV) = 1/1,000 th of a volt
Microvolt (μV) = 1/1,000,000 th of a volt

1.17 ELECTRIC CAPACITANCE
1.17.1 SI UNITS

Henry (H) = as defined in Part IV of the First Schedule
Millihenry (mH) = 1/1,000 th of a henry
Microhenry (μH) = 1/1,000,000 th of a henry

1.18 ELECTRIC RESISTANCE
1.18.1 SI UNITS

Megaohm (MU) = 1,000,000 ohms
Kiloohm (KU) = 1,000 ohms
<table>
<thead>
<tr>
<th>Unit</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohm (U)</td>
<td>as defined in Part IV of the First Schedule</td>
</tr>
<tr>
<td>Milliohm (MU)</td>
<td>1/1 000 th of an ohm</td>
</tr>
<tr>
<td>Microohm (iU)</td>
<td>1/1 000 th of an ohm</td>
</tr>
<tr>
<td>Coulomb (C)</td>
<td>as defined in Part IV of the first Schedule</td>
</tr>
<tr>
<td>Milicoulomb (mC)</td>
<td>1/1 000 th of a coulomb</td>
</tr>
<tr>
<td>Microcoulomb (iC)</td>
<td>1/1 000 000 th of a coulomb</td>
</tr>
<tr>
<td>Amperehour (Ah)</td>
<td>36000 coulombs</td>
</tr>
<tr>
<td>Candela (cd)</td>
<td>as defined in Part I of the First Schedule</td>
</tr>
<tr>
<td>lux (lu)</td>
<td>as defined in Part IV of the first Schedule</td>
</tr>
</tbody>
</table>

1.19.1 SI UNITS

1.19.2 Other units

1.20 LUMINOUS INTENSITY

1.20.1 SI UNITS

1.21 ILLUMINATION

1.21.1 SI UNITS
1.22 LUMINOUS FLUX

1.22.1 SI UNITS

Lumen (lm) = as defined in Part IV of the First Schedule

1.23 ACTIVITY

1.23.1 SI UNITS

Becquerel (Bq) = as defined in Part IV of the First Schedule

Millibecquerel (mBq) = 1/1 000 of a Becquerel

1.24 ABSORBED DOSE

1.24.1 SI UNIT

Gray (Gy) = as defined in Part IV of the First Schedule

Milligray (mGy) = 1/1 000 of a gray

1.25 EXPOSURE

1.25.1 SI UNITS

Coulomb per kilogram (C/kg) = as defined in Part IV of the First Schedule
PART II

THE BRITISH IMPERIAL SYSTEM OF UNITS

1. MEASUREMENT OF LENGTH

Yard = 0.9144 metre

Mile = 1760 yards

Furlong = 220 yards

Chain = 22 yards

Foot = 1/3rd of a yard

Inch = 1/26th of a yard

2. MEASUREMENT OF AREA

Square mile = 640 acres

Acre = 4840 square yards

Rood = 1210 square yards

Perch or square pole = 121/4 square yards

Square inch foot = 1/144th of a square
3. MEASUREMENT OF VOLUME OR CAPACITY

3.1 VOLUME IN GENERAL

Cubic yard = a volume equal to that of a cube each edge of which measures 1 yard

Cubic foot = 1/27\textsuperscript{th} of a cubic yard

Cubic inch foot = 1/1728\textsuperscript{th} of a cubic foot

3.2 LIQUID MEASURE

Gallon = the space occupied by 10 pound weight of distilled water of density 0.998859 gram per millilitre weighed in air of density 0.001217 grams per millilitre against weights of density 8.136 grams per millilitre

Quart = ¼ gallon

Pint = ½ quart

Gill = ¼ pint

Fluid ounce = 1/20 pint

Fluid drachm = 1/8 fluid ounce

Minim = 1/60 fluid drachm

Bushel = 8 gallons
3.3 MEASUREMENT OF MASS OR WEIGHT

Ton = 2240 pounds

Hundred weight = 112 pounds

Quarter = 28 pounds

Stone = 14 pounds

Pound = 0.453 592 37 kilogram

Kilogram

Ounce = 1/16 pound

Dram = 1/16 ounce

Grain = 1/7000 pound

Ounce troy = 480 grains
FOURTH SCHEDULE

NATIONAL METROLOGY ACT
Weights and Measures Lawful for Use in Trade
[Sections 2 and 17]

PART I

THE INTERNATIONAL SYSTEM OF UNITS AND OTHER METRIC UNITS

1.1 LINEAR MEASURES

Measure of - 100 metres
50 metres
30 metres
20 metres
10 metres
5 metres
3 metres
2 metres
1 metres
1 centimetre
1 millimetre
1 micro metre
1.2 SQUARE MEASURES

Measures of, or any multiple of, square decimetre.

1.3 CUBIC MEASURES

Measure of, or any multiple of 1, the cubic decimetre $= 0.001 \text{m}^3$

1.4 CAPACITY MEASURES

Measures of 10 litres or any multiple of 10 litres:
- 5 litres
- 2 ½ litres
- 2 litres
- 1 litre
- 500 millilitres
- 250 millilitres
- 200 millilitres
- 100 millilitres
- 50 millilitres
- 25 millilitres
- 20 millilitres
- 10 millilitres
- 5 millilitres
1.5 WEIGHTS

1.5.1 Weights of –

50 kilograms
20 kilograms
10 kilograms

5 kilograms
2 kilograms
1 kilogram

500 grams
200 grams
100 grams
50 grams
20 grams
10 grams

5 grams
2 grams
1 gram
500 milligrams
200 milligrams
100 milligrams

50 milligrams
20 milligrams
10 milligrams
5 milligrams
2 milligrams
1 milligrams

1.5.2 weights of –

500 carats (metric)
200 carats (metric)
100 carats (metric)

50 carats (metric)
20 carats (metric)
10 carats (metric)

5 carats (metric)
2 carats (metric)
1 carat (metric)
0.5 carats (metric)

0.25 carats (metric)
0.2 carats (metric)
0.1 carat (metric)

0.05 carats (metric)
0.02 carats (metric)
0.01 carat (metric)
2.1 LINEAR MEASURES

Measures of –
100 feet
66 feet
50 feet
33 feet
20 feet
10 feet
8 feet
6 feet
5 feet
4 feet

1 yard \(=\) \(1/10^{th}\) of an inch
2 feet \(=\) \(1/16^{th}\) of an inch
1 foot \(=\) \(1/32\) of an inch
6 inches \(=\) \(1/64\) of an inch
1 inch \(=\) \(1/100^{th}\) of an inch
\(=\) \(1/128^{th}\) of an inch
\(=\) \(1/256^{th}\) of an inch
\(=\) \(1/1000^{th}\) of an inch
2.2 SQUARE MEASURES

Measures of, or any multiple of, 1 square foot

2.3 CUBIC MEASURES

Measures of, or any multiple of $1/4$ cubic yard.

2.4 CAPACITY MEASURES

Measures of –

1 gallon or any multiple of 1 gallon
½ gallon

1 quart
1 pint
½ pint
8 fluid ounces
6 fluid ounces
4 fluid ounces
1 fluid ounce or sub-multiples of 1 fluid ounce

4 fluid drachms
2 fluid drachms
1 fluid drachm

60 minims
30 minims
10 minims
1 bushel
½ bushel
1 peck
2.5 WEIGHTS

2.5.1 Weights of -

56 pounds
50 pounds
28 pounds
20 pounds
14 pounds
10 pounds
7 pounds
5 pounds
4 pounds
2 pounds
1 pound
8 ounces
4 ounces
2 ounces
1 ounce
8 drams
4 drams
2 drams
1 dram
½ dram
100 grains
50 grains
30 grains
20 grains
10 grains
5 grains
3 grains
2 grains
1 grain
0.5 grains
0.3 grains
0.2 grains
0.1 grains
0.05 grains
0.03 grains
0.02 grains
0.01 grains

2.5.2 Weights of –

500 ounces troy
400 ounces troy
300 ounces troy
200 ounces troy
100 ounces troy

50 ounces troy
40 ounces troy
30 ounces troy
20 ounces troy
10 ounces troy

5 ounces troy
4 ounces troy
3 ounces troy
2 ounces troy
1 ounces troy
1. Maximum permissible error on net quantity declared by weight or volume

(a) The maximum permissible error, in excess or in deficiency, in the net quantity by weight or volume of any commodity, is specified in the table below:

**TABLE 1**

Maximum permissible errors on net quantity declared by weight or by volume-

<table>
<thead>
<tr>
<th>SI Declared quantity</th>
<th>Maximum permissible error in excess or deficiency As percentage of declared quantity</th>
<th>g or ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 50</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>50 to 100</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>100 to 200</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

THE SUBSTANTIVE LAWS OF BELIZE

REVISED EDITION 2011
(iv) 200 to 300 9

(v) 300 to 500 3

(vi) 500 to 1 000 15

(vii) 1 000 to 10 000 1.5

(viii) 10 000 to 15 000 150

(ix) more than 15 000 1.0 ..

(b) The maximum permissible error specified as a percentage shall be rounded off to the nearest one-tenth of a g or ml, for declared quantities less than or equal to 1 000g or ml, and to the next whole g or ml for declared quantities above 1 000g or ml.

Maximum permissible error, in excess or in deficiency, in the net quantity declared in terms of length, area or number of any commodity is specified in Table II below,
<table>
<thead>
<tr>
<th>SI No.</th>
<th>Quantity declared or in deficiency</th>
<th>Maximum permissible error in excess or in deficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>( ) in units of length</td>
<td>2% of declared quantity up to 10 meters and thereafter 1% of declared quantity</td>
</tr>
<tr>
<td></td>
<td>( ) in units of area</td>
<td>4% of declared quantity up to 10 sq. meters and thereafter 1% declared quantity</td>
</tr>
<tr>
<td></td>
<td>( ) by number</td>
<td>2% of declared quantity</td>
</tr>
</tbody>
</table>