



LAWS OF MALAYSIA

ACT 71 WEIGHTS AND MEASURES ACT 1972 [REPRINT -1999] Incorporating latest amendment - Act A825/1992

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Long Title & Preamble

An Act to establish units of measurement and standards of mass and measure based on the International System of Units, to regulate weights and measures and instruments for weighing and measuring and to make provisions for matters connected therewith and ancillary thereto.

BE IT ENACTED by the Duli Yang Maha Mulia Seri Paduka Baginda Yang di-Pertuan Agong with the advice and consent of the Dewan Negara and Dewan Rakyat in Parliament assembled, and by the authority of the same, as follows:

PART I - PRELIMINARY

Section 1. Short title, application and commencement.

(1) This Act may be cited as the Weights and Measures Act 1972.

(2) Without prejudice to subsection (3), this Act shall apply to the whole of Malaysia.

(3) Subject to subsection (4), this Act shall come into force on such date as the Minister may, by notification in the Gazette, appoint.

(4) The Minister may appoint different dates for the coming into force of this Act for different States in Malaysia or for different provisions of this Act or for different classes of undertakings or transactions or for different classes of movable or immovable properties:

Provided that the Minister shall in any case bring all the provisions of this Act into force for all States in Malaysia before the expiration of ten years from the date of the publication of this Act.

Section 2. Interpretation.

(1) In this Act unless the context otherwise requires-

"Chief Inspector", "Deputy Chief Inspector" and "Inspector" means respectively the Chief Inspector of Weights and Measures, the Deputy Chief Inspector of Weights and Measures and the Inspector of Weights and Measures appointed under section 26;

"Custodian" means the Custodian of Weights and Measures appointed under section 25;

"instrument for weighing or measuring" means any instrument or machine for measuring in terms of length, area, volume, capacity, time, weight or number and in the case of an instrument for weighing, includes the weights used in connection therewith;

[Am. Act A754:s:3 ,Am. Act A825:s:2]

"International System of Units" means the metric system of units of measurements as described in section 3 (2) and the abbreviation "SI Units" wherever referred to in this Act shall be recognised as reference to such International System of Units;

"Malaysian Primary Standards" means the Malaysian Primary Standards of mass and measure referred to in section 6 (2);

"Minister" means the Minister having charge of weights and measures;

"premises" includes any shop or stall, and any vehicle, vessel, building, structure or place, whether opened or closed, used for trade;

[Am. Act A754:s.3]

"public weighing or measuring instrument" means any instrument for weighing or measuring which is made available for use by the public, and for the use of which a charge is made;

[Am. Act A754:s.3]

"Secondary Standards" means the Secondary Standards of mass and measure referred to in section 7;

"stamp of verification" means a mark for use as evidence of the approval of any weight or measure or instrument for weighing or measuring as fit for use, whether applied by impression, casting, engraving, etching, branding, affixing or otherwise;

[Am. Act A754:s.3]

"Tertiary Standards" means the Tertiary Standards of mass and measure referred to in section 8;

"Working Standards" means the Working Standards of mass and measure referred to in section 9.

(2) For the purpose of expressing the weight of any thing at any place in Malaysia the weight of such thing shall be deemed to be in the same term as its mass at that place.

(3) The stamping of any weight or measure or instrument for weighing or measuring referred to in this Act means the application by an Inspector of Weights and Measures of a stamp of verification on such weight or measure or instrument for weighing and measuring pursuant to section 14. Such application of a stamp of verification may be made by such means or in such manner as the Minister may by regulations prescribe and in this Act unless the context otherwise requires the expression "stamp" with its grammatical variations shall be construed accordingly.

[Not yet in Force]

"licensed company " means the company to which a licence is granted by the Minister under subsection 26A(1);

[Ins. Act A1180:s.2]

Section 3. International System of Units.

(1) The only units of measurement to be used throughout Malaysia shall be the units known as the International System of Units.

(2) The International System of Units shall comprise of-

(a) the base units set out in Part 1 of the First Schedule;

[Am. Act A754:s.4]

(b) the supplementary and derived units set out in Part 2 of the First Schedule; and

(c) the units which may be used in conjunction with the base and supplementary and derived units as set out in Part 3 of the First Schedule.

[Am. Act A754:s.4]

(3) The Minister may after consulting the Custodian of Weights and Measures from time to time by notification in the Gazette amend, vary, alter or make any addition to or deletion from the First, Second and Third Schedules.

[Am. Act A754:s.4]

Section 4. Multiples and submultiples of the International System of Units.

Multiples and submultiples of each of the units of the International System of Units shall be an integral power of ten (positive or negative) as set out in Part 4 of the First Schedule.

Section 5. Measurements to be in the International System of Units.

(1) All measurements shall be made by reference to any of the International System of Units or their multiples or submultiples or both such units and their multiples or submultiples.

(2) No other units of measurement and their multiples or submultiples shall be used.

Section 6. Malaysian Primary Standards of mass and measure.

(1) For the purpose of deriving the values of the units of the International System of Units, the Minister shall, as occasion may require, procure or cause to be prepared and maintained national standards of mass and measure of such units of the International System of Units as set out in Part I of the First Schedule and these

national standards of mass and measure shall be verified and certified by such means and in such manner as may be prescribed by the Minister.

[Am. Act A522:s.3]

(2) After the verification and certification of the national standards of mass and measure mentioned in subsection (1), such national standards shall be the Malaysian Primary Standards of mass and measure by reference to which in Malaysia all standards of mass and measure shall be maintained.

(3) The Malaysian Primary Standards of mass and measure shall be kept in the custody of the Custodian of Weights and Measures who shall ensure their security in a manner to be prescribed by the Minister.

Section 7. Secondary Standards of mass and measure.

(1) The Minister shall, as occasion may require, procure or cause to be prepared and maintained Secondary Standards of mass and measure, consisting of such weights and measures as set out in the Second Schedule and these Secondary Standards of mass and measure shall be verified and certified from the Malaysian Primary Standards in such manner as may be prescribed by the Minister.

[Am. Act A522:s.4]

(2) The Secondary Standards shall be kept in the custody of the Custodian of Weights and Measures who shall ensure their security in a manner to be prescribed by the Minister.

PART II - UNITS OF MEASUREMENT

Section 8. Tertiary Standards of mass and measure.

(1) The Minister shall procure or cause to be prepared and maintained such copies of the Secondary Standards as he may think fit and such copies of the Secondary Standards shall be verified and certified as Tertiary Standards of mass and measure in such manner as may be prescribed by the Minister.

[Am. Act A522:s.5]

(2) The Tertiary Standards shall be kept in the custody of such persons and in such a manner as may be prescribed by the Minister.

[Am. Act A522:s.5]

Section 9. Working Standards of mass and measure.

(1) The Minister shall, as occasion may require, procure or cause to be prepared and maintained Working Standards of mass and measure in such form as may be recommended either generally or specifically by the Custodian of Weights and Measures.

(2) The Working Standards shall be verified by reference to the Tertiary Standards and such verification shall be made by the Custodian of Weights and Measures who shall issue a certificate to that effect and shall cause an indelible mark to be made on such Working Standards.

(3) (a) The Working Standards shall be kept in the custody of the Inspectors of Weights and Measures and shall be used for the inspection, verification and authentication of all weights and measures and instruments for weighing and measuring as required under this Act.

(b) The Working Standards may also be kept in the custody of such other persons and used for such other purposes as the Minister may by notification in the Gazette determine.

Section 10. Verification of Malaysian Primary Standards, Secondary Standards, Tertiary Standards and Working Standards.

(1) The Minister shall from time to time as may appear to him expedient cause the value of each of the Malaysian Primary Standards to be verified and certified by such means and in such manner as he may direct.

[Am. Act A522:s.6]

(2) The Secondary Standards, the Tertiary Standards and the Working Standards shall be compared and verified at intervals to be prescribed by the Minister.

[Am. Act A522:s.6]

(3) The comparison and verification of Secondary Standards, Tertiary Standards and Working Standards shall be carried out by the Custodian of Weights and Measures in the manner to be prescribed by the Minister and on being satisfied of the accuracy of the Secondary Standards or the Tertiary Standards or the Working Standards as the case may be, the Custodian of Weights and Measures shall issue certificates of such verification and such certificates shall be retained by the persons who have custody of the relevant Secondary Standards or the Tertiary Standards or the Working Standards as the case may be.

[Am. Act A522:s.6]

(4) All Secondary Standards, all Tertiary Standards and all Working Standards which have been duly verified and certified shall, for all purposes, be conclusively deemed to be true and accurate and judicial notice shall be taken of every such standard.

[Am. Act A522:s.6]

(5) The Minister may at any time, on the advice of the Custodian of Weights and Measures, cancel any Secondary Standard or any Tertiary Standard or any Working Standard and shall by notification in the Gazette direct that such cancelled standard shall no longer be used for purposes of this Act.

[Am. Act A522:s.6; Am. Act A825:s.3]

PART III - WEIGHTS AND MEASURES FOR TRADE PURPOSES

Section 11. Meaning of "use for trade".

(1) For the purposes of this Act, the expression "use for trade" means, subject to subsection (2), use in Malaysia in connection with, or with a view to, a transaction for-

(a) the transferring or rendering of money or money's worth in consideration of money or money's worth;

(b) the making of a payment in respect of any toll or duty; or

[Am. Act A754:s.4]

(c) the making of payment in respect of any work done, or services rendered, or for the purpose of determining wages due,

[Am. Act A754:s.5]

where-

(i) the transaction is by reference to quantity or is a transaction for the purposes of which there is made or implied a statement as to the quantity;

and

(ii) the use is for the purpose of the determination or statement of that quantity.

(2) The foregoing subsection shall not apply where the determination or statement is a determination or statement of the quantity of goods required for despatch to a destination outside Malaysia and the transaction is not a sale by retail.

(3) Any weighing or measuring instrument which is made available in Malaysia for use by the public whether on payment or otherwise shall be treated for the purposes of this Part as an instrument for weighing or measuring for use for trade whether or not it would apart from this subsection be so treated.

Section 12. Units of measurement, weights and measures lawful for use for trade.

(1) No person shall-

(a) use for trade any unit of measurement of length, area, volume or mass or weight which is not included in the First Schedule; or

(b) use for trade, or have in his possession for use for trade, any linear, square, cubic or capacity measure which is not included in the Second Schedule or any weight which is not so included.

[Am. Act A522:s.7]

(2) Save as may be prescribed and subject to any regulations made under section 29-

(a) a linear measure specified in Part 1 of the Second Schedule may be marked in whole or in part with divisions and subdivisions representing any shorter length or lengths;

(b) no capacity measure specified in Part 4 of the said Second Schedule shall be used for trade by means of any division or subdivision marked thereon as a capacity measure of any lesser quantity.

[Am. Act A522:s.7]

(3) Any person who contravenes any of the foregoing provisions of this section shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringgit or to imprisonment for a term not exceeding three years or to both. Any weight or measure or instrument for weighing or measuring used or in any person's possession for use in contravention of any of those provisions shall be liable to be forfeited.

[Am. Act A825:s.4]

Section 13. Marking of weights and measures with denomination.

(1) Every weight for use for trade except where the small size of the weight renders it impracticable, shall have the denomination of such weight marked on the top or side thereof in legible figures and letters by the manufacturer:

Provided that where the small size of a weight renders it impracticable to mark such a weight, a certificate shall be supplied by the manufacturer in respect of such weight and the certificate shall be produced to the Inspector on his request and shall contain sufficient particulars to enable the identification and denomination of such weight to be established.

(2) Every measure of capacity for use for trade shall have the denomination thereof marked on the outside of such measure in legible figures and letters by the manufacturer.

(3) A weight or measure not in conformity with this section shall not be stamped with such stamp of verification as is mentioned in section 14.

Section 14. Stamping and verification of weights and measures, etc., and issue of certificates of verification.

(1) Subject to subsection (5) every weight and measure and instrument for weighing or measuring for use for trade shall be verified and stamped by an Inspector with a stamp of verification and a certificate of verification shall be issued by such Inspector at the time of stamping every such weight or measure or instrument for weighing or measuring:

Provided that where the small size of weight renders it impracticable for the Inspector to stamp such weight with his stamp of verification, he may, on being satisfied with the identity and denomination of such weight, dispense with such stamping and issue a certificate of verification.

(1A) Any person requiring any weight, measure or instrument for weighing or measuring to be verified and stamped or authenticated shall submit the weight, measure or instrument for weighing or measuring to an Inspector who shall test the weight, measure or instrument for weighing or measuring by means of such Working Standards and testing equipment as he considers appropriate or, subject to any conditions which may be prescribed, by means of other equipment which has already been tested and which the Inspector considers suitable for the purpose.

[Am. Act A754:s.6]

(2) Every person who has in his possession for use for trade any weight or measure or instrument for weighing or measuring shall retain in his possession the certificate of verification issued in respect thereof and shall produce the same for inspection whenever required to do so under the provisions of this Act.

(3) Every weight and measure and instrument for weighing or measuring which has been stamped and verified under subsection (1) shall be authenticated within such intervals as the Minister may prescribe.

(4) Any verification and stamping or authentication of any weight or measure or instrument for weighing or measuring under this section shall be carried out in such manner as the Minister may prescribe.

[Am. Act A754:s.6]

(4A) There shall be charged in respect of any verification and stamping or authentication of any weight or measure or instrument for weighing or measuring under this section such fee as may be prescribed.

[Am. Act A754:s.6]

(4B) Any testing, or verification and stamping or authentication of any weight or measure or instrument for weighing or measuring under this section shall be carried out at such time and place as the Chief Inspector may determine:

[Am. Act A754:s.6]

Provided that in determining the time and place under this subsection the Chief Inspector shall take into consideration the following conditions:

- (a) where any weight or measure or instrument for weighing or measuring is of such a character that it is not capable of being readily or conveniently submitted to an Inspector for testing, or verification and stamping, or authentication, such Inspector shall, upon the written request of the person in possession of such weight or measure or instrument for weighing or measuring and upon the payment of the prescribed fees, attend at the premises where such weight or measure or instrument is located to do the testing, verification and stamping, or authentication; and
- (b) the Chief Inspector shall not fix a place for testing, verification and stamping, or authentication which would result in a person desiring to avail himself of the facility afforded having to travel unreasonable distances.

[Am. Act A754:s.6]

(5) An Inspector shall not verify, stamp, certify or authenticate any weight or measure or instrument for weighing or measuring where-

- (a) such weight or measure or instrument for weighing or measuring is not in conformity with section 12 (1) and (2);
- (b) such weight or measure or instrument for weighing or measuring presents unusual features which do not conform with such pattern or specifications as the Custodian of Weights and Measures may by order published in the Gazette prescribe generally for weights or measures or instruments for weighing or measuring;
- (c) such weight or measure or instrument for weighing or measuring contravenes any of the provisions of this Act or the regulations made thereunder; or
- (d) such weight or measure or instrument for weighing or measuring does not have the approval of the Custodian of Weights and Measures under subsection (5A).

[Am. Act A825:s.5]

(5A) The Custodian of Weights and Measures may approve any weight or measure or instrument for weighing or measuring for use for trade where its pattern or specification has not been prescribed by the Custodian by order published in the Gazette and such weight or measure or instrument for weighing or measuring shall be verified, stamped, certified or authenticated by an Inspector in the manner provided in subsection (1) and the procedure set out by the Custodian.

[Am. Act A825:s.5]

(6) Any person who uses or has in his possession for use for trade any weight, measure or instrument for weighing or measuring not verified, stamped, certified or authenticated as required by this section shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringggit or to imprisonment for a term not exceeding three years or to both, and such weight, measure or instrument for weighing or measuring shall be liable to be forfeited.

[Am. Act A825:s.5]

Section 14A. Stamping of weights and measures; assistance to Inspector, etc.

(1) Where a person submits any weight or measure or instrument for weighing or measuring for verification and stamping or authentication, the Inspector may require the person to provide him with such assistance in connection with the testing of the weight or measure or instrument for weighing or measuring as the Inspector reasonably considers it necessary for the person to provide and shall not be obliged to proceed with the test until the person provides such assistance.

(2) Where any weight or measure or instrument for weighing or measuring which has been verified and stamped or authenticated under section 14 after it has been installed at the place where it is to be used for trade is to be dismantled and reinstalled, whether at the same or some other place, it shall not be used for trade after being so dismantled and reinstalled until it has again been verified and stamped or authenticated.

(3) If an Inspector is of the opinion that the weight or measure or instrument for weighing or measuring submitted for verification is intended for use for trade for a particular purpose for which it is not suitable, he may refuse to verify and stamp or authenticate it until the question as to whether it is suitable for the purpose has been referred to the Custodian whose decision shall be final.

(4) An Inspector may, at the request of any person, inspect any weight or measure or instrument for weighing or measuring not used for trade.

[Ins. Act A754:s.7]

Section 14B. Weighing or measuring by means of a public weighing or measuring instrument.

(1) No person shall attend to any weighing or measuring by means of any public weighing or measuring instrument unless he holds a certificate from any Deputy Chief Inspector certifying that he has sufficient knowledge for the proper performance of his duties.

(2) Any person refused such a certificate by the Deputy Chief Inspector may appeal against such refusal to the Chief Inspector who may, if he thinks fit, direct the Deputy Chief Inspector to grant the certificate.

(3) Any person who contravenes, or who causes or permits any other person to contravene, subsection (1) shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding one thousand ringgit or to imprisonment for a term not exceeding six months or to both, and such weighing or measuring instrument shall be liable to be forfeited.

(4) If a person certified to attend to weighing or measuring by means of any public weighing or measuring instrument-

(a) without reasonable cause fails to carry out the weighing or measuring on demand;

(b) without reasonable explanation carries out the weighing or measuring inaccurately;

(c) fails to deliver to the person demanding the weighing or measuring or to his agent a statement in writing of the weight or other measurement; or

(d) fails to maintain a record of the weighing or measuring including the time and date of the weighing or measuring and, in the case of the weighing of a vehicle, such particulars of the vehicle and of any load on the vehicle as will identify that vehicle and that load,

he shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding one thousand ringgit or to imprisonment for a term not exceeding six months or to both, and such weighing or measuring instrument shall be liable to be forfeited.

(5) If, in connection with any public weighing or measuring instrument-

(a) any person certified to attend to weighing or measuring by means of such an instrument delivers a false statement of any weight or other measurement found, or makes a false record of any weighing or measuring; or

(b) any person commits any fraud in connection with any, or any purported, weighing or measuring by means of such instrument,

he shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding three thousand ringgit or to imprisonment for a term not exceeding two years or to both, and such weighing or measuring instrument shall be liable to be forfeited.

(6) If, in the case of a weighing or measuring of any animal, vehicle, article, thing, liquid or substance carried out by means of any public weighing or measuring instrument, the person bringing the animal, vehicle, article, thing, liquid or substance for weighing or measuring, on being required by the person attending to the weighing or measuring to give his name, address and identity card number, fails to do so or gives a name, address or identity card number which is incorrect, he shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five hundred ringgit or to imprisonment for a term not exceeding three months or to both.

(7) The person making any public weighing or measuring instrument available for use (in this section referred to as "the responsible person") shall retain for a period of not less than six months any record of any weighing or measuring by means of that instrument made by any person certified to attend to the weighing or measuring.

(8) An Inspector may require the responsible person to produce any such record as is mentioned in subsection (7) for inspection at any time during the six months as aforesaid.

(9) If the responsible person fails to retain any such records as is mentioned in subsection (7) in accordance with that subsection or fails to produce it in accordance with subsection (8) he shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding one thousand ringgit or to imprisonment for a term not exceeding six months or to both.

(10) If any person wilfully destroys or defaces any such record as is mentioned in subsection (7) before the expiration of six months from the date when it was made, he shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding three thousand ringgit or to imprisonment for a term not exceeding two years or to both.

[Ins. Act A754:s.7]

Section 14C. Revocation of certificate issued under section 14B.

Any person granted a certificate under section 14B (1) may have his certificate revoked by the Chief Inspector if the person issued with the certificate is convicted of any offence under this Act, provided that no such revocation shall be made without first giving the aggrieved person an opportunity to be heard by the Chief Inspector.

[Ins. Act A754:s.7]

Section 15. Lead or pewter weights.

(1) A weight made of lead or pewter or of any mixture thereof shall not be verified and stamped with a stamp of verification or certified or authenticated under section 14 nor shall such weight be used for trade:

Provided that this subsection shall not apply where such weight is wholly and substantially cased with brass, copper or iron and legibly marked "cased".

(2) Nothing in this section shall prevent the insertion into a weight of such plug of lead or pewter as is bona fide necessary for the purpose of adjusting the weight and affixing thereon the stamp of verification.

Section 16. Use or possession of unjust weights, etc.

Any person who uses or has in his possession for the use for trade any weight, measure or instrument for weighing or measuring which is not in conformity with section 12 (1) and (2) or which is false or unjust shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringgit or to imprisonment for a term not exceeding three years or to both, and such weight or measure or instrument for weighing or measuring shall be liable to be forfeited.

[Am. Act A825:s.6]

Section 17. Use or possession of false weight or measure, etc., to defraud.

Whoever is in possession of any weight or measure or instrument for weighing or measuring which he knows to be false and intending that the same may be fraudulently used or having fraudulently used such weight or measure or instrument for weighing or measuring shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five thousand ringgit or to imprisonment for a term not exceeding four years or to both. Any weight or measure or instrument for weighing or measuring used or in any person's possession for use in contravention of this section shall be liable to be forfeited.

[Am. Act A825:s.7]

Section 18. Penalty on manufacture, sale and repair of false weights etc.

(1) No person shall-

- (a) make or sell or attempt to sell or expose for sale any false or unjust weight or measure or instrument for weighing or measuring;
- (b) sell or attempt to sell or expose for sale any weight or measure or instrument for weighing or measuring which is not verified and stamped or certified, or authenticated as specified in section 14;
- (c) make or repair for gain or sell or attempt to sell or expose for sale any weight or measure or instrument for weighing or measuring unless he is licensed in that behalf in accordance with section 27; or
- (d) make or sell or attempt to sell or expose for sale any weight or measure or instrument for weighing or measuring for use for trade where such weight or measure or instrument presents unusual features which do not conform with such pattern or specifications as the Custodian of Weights and Measures may be order published in the Gazette prescribe generally for weights or measures or instruments for weighing or measuring, unless such weight or measure or instrument for weighing or measuring has been approved by the Custodian under section 14 (5A) and has been verified, stamped, certified or authenticated in accordance with the procedure provided therein.

[Am. Act A825:s.8]

(2) Any person contravening any of the provisions of this section shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringgit or to imprisonment for a term not exceeding three years or to both.

[Am. Act A825:s.8]

(3) Any person who makes, sells or attempts to sell, or exposes for sale or repairs any weight or measure or instrument for weighing or measuring which he knows to be false in order that the same may be used as true or knowing that the same is likely to be used as true shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five thousand ringgit or to imprisonment for a term not exceeding four years or to both.

[Am. Act A825:s.8]

(4) Where an offence is committed under subsection (2) or (3), any weight or measure or instrument for weighing or measuring relating to such offence shall be liable to be forfeited.

Section 19. Penalty for trading without the necessary instrument for weighing or measuring.

Where in any trade the transaction or dealing in relation thereof is to be determined by weight or measure and the trader in respect of such trade is not in possession of an instrument for weighing or measuring necessary for such trade, the trader shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five hundred ringgit.

[Am. Act A754:s.8]

Section 20. Forgery or counterfeiting of certificate or stamp on weights, measures or instruments for weighing or measuring.

(1) Any person who forges or counterfeits any certificate issued or any stamp used for stamping under this Act in respect of any weight or measure or instrument for weighing or measuring, or wilfully increases or diminishes a weight or measure or instrument for weighing or measuring so stamped, shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding five thousand ringgit or to imprisonment for a term not exceeding four years or to both.

(2) Any person who has in his possession for use for trade any weight or measure or instrument for weighing or measuring stamped under this Act but subsequently found to be false shall be deemed, until the contrary be proved, to have wilfully increased or diminished or otherwise tampered with such weight, measure or instrument for weighing or measuring.

(3) Any person who has in his possession without any lawful excuse or who uses as genuine any certificate or stamp which he knows or has reason to believe to be a counterfeit or forgery of any certificate issued or any stamp used for stamping under this Act shall be guilty of an offence and shall, on conviction be liable to a fine not exceeding five thousand ringgit or to imprisonment for a term not exceeding four years or both.

[Am. Act A825:s.9]

Section 20A. Offence in connection with stamping instrument.

(1) Subject to subsection (2), any person who, not being an Inspector-

- (a) marks in any manner any plug or seal or plate designed for use for the reception of a stamp of verification;
- (b) except as permitted by or under this Act, in any way alters or defaces any stamp of verification;
- (c) forges or counterfeits any stamp of verification;
- (d) removes any stamp of verification and affixes or attaches it to any other weight or measure or instrument for weighing or measuring;
- (e) makes any alterations to any weight or measure or instrument for weighing or measuring after it has been stamped such as to make it false or unjust; or
- (f) severs or otherwise tampers with any wire, cord or other thing by means of which a stamp of verification is attached to the weight or measure or instrument for weighing or measuring,

shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringgit or to imprisonment for a term not exceeding three years or to both.

[Am. Act A825:s.10]

(2) It shall not be an offence for any person licensed by the Chief Inspector as a manufacturer or repairer of weights or measures or instrument for weighing or measuring who does anything described in subsection (1) (a), (b) and (f) in the course of any adjustment or repairs of weights or measures or instruments for weighing or measuring.

[Am. Act A754:s.9]

Section 21. Evidence as to possession.

Whenever any weight, measure or instrument for weighing or measuring is found in the premises of any person or in the possession of any person carrying on trade, any such person shall, unless the contrary is proved, be presumed for the purpose of this Act to have such weight or measure or instrument for weighing or measuring in his possession for use for trade.

Section 22. Offence committed by a servant.

Where an offence under this Act or any regulations made thereunder is committed by a servant, the master in the course of whose employment the servant who commits the offence is employed shall also be guilty of the offence unless the said master proves to the satisfaction of the Court:

- (a) that he used due diligence to secure compliance with this Act or any regulations thereunder; and
- (b) that the offence was committed without his knowledge, consent or connivance.

Section 23. [Repealed by Act A754:s.10].

Section 24. [Repealed by Act A522:s.9].

PART IV - ADMINISTRATION

Section 25. Custodian of Weights and Measures.

- (1) The Minister may appoint a person or body of persons to be Custodian of Weights and Measures for the purpose of carrying into effect the provisions of this Act.
- (2) The Custodian shall be appointed on such terms and conditions of service as the Minister may by the instrument of appointment determine.
- (3) The Minister may by regulations prescribe the duties and powers of the Custodian.

Section 25A. Custodian to advise Minister.

The Custodian of Weights and Measures shall advise the Minister on all matters related to the International System of Units, calibration, verification and testing of weights or measures or instruments for weighing or measuring, systems of measurement and other matters related to metrology.

[Ins. Act A825:s.11]

Section 26. Chief Inspector, Deputy Chief Inspectors and Inspectors.

(1) The Minister may appoint a Chief Inspector of Weights and Measures and such number of Deputy Chief Inspectors of Weights and Measures and Inspectors of Weights and Measures as are necessary for the carrying into effect the provisions of this Act.

[Am. Act A522:s.10]

- (2) The Chief Inspector shall be the principal Inspector of Weights and Measures and shall have the general supervision and all the powers and discretion of an Inspector under this Act.
- (3) The powers and discretion vested in the Chief Inspector and the duties required to be discharged by him may be exercised and discharged by any Deputy Chief Inspector.
- (4) The Minister may from time to time give the Chief Inspector directions of a general character and not inconsistent with the provisions of this Act and the Chief Inspector shall give effect to such directions.

PART IV - ADMINISTRATION

Section 26A. Licence to carry out the duties of an Inspector or to provide services.

[Not yet in Force]

(1) The Minister may grant a licence to a company nominated by the Government of Malaysia under this section:

- (a) to perform any of the functions of an Inspector; or
- (b) to provide services in relation to the testing, verification, stamping, authentication or certification of any weight or measure or instrument for weighing or measuring for the purposes of Part III.

(2) Without prejudice to the generality of subsection (1), every licence issued under this section shall set out the following matters:

- (a) the functions to be performed or the services to be provided by the licensed company;
- (b) the performance standards to be complied with by the licensed company;
- (c) the duration of the licence;
- (d) the consideration payable by the company for the granting of the licence; and
- (e) such other matters or conditions as the Minister thinks fit.

[Ins. Act A1180:s.3]

Section 26B. Fees collected by licensed companies.

[Not yet in Force]

Notwithstanding any provision of this Act or the Financial Procedure Act 1957 [Act 61], all fees for the performance of any function or provision of any service by the licensed company shall be collected by, and form part of the revenue of, the licensed company.

[Ins. Act A1180:s.3]

Section 26C. Submission of memorandum for any change in existing fees.

[Not yet in Force]

(1) The licensed company may submit to the Minister a memorandum containing proposals for any change in the existing fees prescribed under regulations made under section 29 which relate to the performance of any of its functions or the provision of any service, for the approval of the Minister.

(2)The Minister shall consider the memorandum within six months of receiving the memorandum.

(3) The Minister may approve or reject the proposals in the memorandum.

(4)The Minister may approve the proposals, subject to such modifications as he deems fit.

(5) Where the Minister rejects the proposals, the licensed company may, if there is a change in the circumstances relating to the proposals, apply to the Minister for a review, but such application shall be made before the expiration of thirty days from the date the company is notified of the Minister 's rejection.

(6)The Minister shall consider the application referred to in subsection (5) within three months of receiving the application.

[Ins. Act A1180:s.3]

Section 26D. Minister to amend regulations in respect of fees.

[Not yet in Force]

Where the Minister approves the memorandum, with or without any modification, he shall as soon as practicable amend the regulations in respect of the existing fees to provide for the changes in the fees.

[Ins. Act A1180:s.3]

Section 26E.General duties of licensed companies.

[Not yet in Force]

(1)The licensed company shall ensure that the services provided by it meet the performance standards as set out in the licence.

(2)The licensed company shall have due regard to the efficiency, economy and safety of operation in respect of the services provided by it.

[Ins. Act A1180:s.3]

Section 26F. Inspectorial power of the Chief Inspector.

[Not yet in Force]

The Chief Inspector or any person authorized by him may, for the purposes of ensuring compliance by the licensed company of this Act, any regulations made thereunder and the conditions of its licence, enter upon any of the premises occupied by the licensed company -

- (a) to inspect the state of such premises;
- (b) to examine and test any standard or equipment used by the licensed company in performing its duties or providing its services under this Act;
- (c) to observe the performance of the duties or the provision of services by the licensed company;
- (d) to inspect any record and document related to the duties performed or services provided by the licensed company; and
- (e) to request and obtain any information relating to the duties performed and services provided by the licensed company.

[Ins. Act A1180:s.3]

Section 26G. Suspension or revocation of licence on breach of condition of licence.

[Not yet in Force]

(1) Where the Chief Inspector is satisfied that the licensed company is contravening, or has contravened and is likely again to contravene, any of the conditions of its licence, the Chief Inspector may give notice in writing to the licensed company requiring it to comply with that condition within the period prescribed in the notice.

(2) If on the expiry of the period prescribed in such notice the licensed company fails to comply with the condition mentioned in the notice, the Chief Inspector shall submit to the Minister a report of such non-compliance by the licensed company and the report shall be in such form as the Chief Inspector considers appropriate.

(3) Where, after considering the report from the Chief Inspector, the Minister is satisfied that the contraventions were, or the apprehended contraventions are, of a serious nature or affected or likely to affect public interest or safety and that the licensed company has refused to take or has not taken all such steps as appear to be necessary to the Minister for the purpose of securing compliance with the condition in question, the Minister may give notice to the licensed company stating that he proposes to suspend or revoke, as the case may be, its licence and such notice shall also —

- (a) set out the condition of the licence which the licensed company has contravened and the acts or omissions which constitute such contravention; and
- (b) specify the period (not being less than thirty days from the date of the notice) within which the licensed company may make representations with respect to the proposed suspension or revocation, as the case may be.

(4) After the expiry of the period specified in the notice and after considering any representation made by the licensed company, the Minister shall decide whether to proceed with the proposed action or to take no further action.

(5) A notice shall be given by the Minister to the licensed company of his decision and the decision shall take effect from the date on which the notice is served on the company.

(6) The decision of the Minister under this section shall be final and conclusive.

[Ins. Act A1180:s.3]

Section 26H. Suspension or revocation of licence for breach of this Act or regulations.

[Not yet in Force]

(1) Where the Chief Inspector is satisfied that the licensed company has contravened any provision of this Act or any of the regulations made thereunder, he shall submit to the Minister a report of such breach or non-compliance by the licensed company.

(2) Where, after considering the report from the Chief Inspector, the Minister is satisfied that the contravention was of a serious nature or affected or likely to affect the public interest or safety, he shall give notice to the licensed company stating that he proposes to suspend or revoke, as the case may be, its licence and such notice shall also —

(a) set out the provision of this Act or the regulations made thereunder which the licensed company has contravened and the acts or omissions which constitute such contravention; and

(b) specify the period (not being less than thirty days from the date of the notice) within which the licensed company may make representations with respect to the proposed suspension or revocation, as the case may be.

(3) After the expiry of the period specified in the notice and after considering any representation made by the licensed company, the Minister shall decide whether to proceed with the proposed action or to take no further action.

(4) A notice shall be given by the Minister to the licensed company of his decision and the decision shall take effect from the date on which the notice is served on the company.

(5) The decision of the Minister under this section shall be final and conclusive.

[Ins. Act A1180:s.3]

Section 27. Licensing.

(1) The Chief Inspector shall be the authority to issue licences to make, sell or repair weights or measures or instruments for weighing or measuring.

[Am. Act A522:s.11]

(2) A licence issued under this section shall be subject to any terms and conditions as may be prescribed in such a licence.

(3) The Chief Inspector may refuse to issue a licence under this section or may revoke any licence already issued or add to, vary or remove any conditions in a licence.

(4) Any person aggrieved by the decision made by the Chief Inspector under this section may within thirty days of the notification of such decision appeal to the Minister whose decision shall be final.

(5) The Minister may prescribe the form of licence to be issued under this section and the books or records to be kept in relation thereto.

[Not yet in Force]

Section 27. Licence to make, sell or repair weights or measures or instruments for weighing or measuring.

[Subs. Act A1180:s.4]

Section 27A. Power of prosecution.

Any prosecution in respect of an offence under this Act or any regulations made thereunder may be conducted by an Inspector.

[Ins. Act A754:s.11]

Section 28. Power to inspect weights and measures, etc., and to enter premises.

(1) Any Inspector may, at all reasonable hours, exercise the following powers, that is to say:

(a) enter any premises for the purposes of inspecting, verifying and stamping or authenticating any weight or measure or any instrument for weighing or measuring, or for the purposes of ascertaining whether any offence under this Act or any regulations made thereunder has been committed;

[Am. Act A754:s.12]

(b) seize and detain any weight, measure or instrument for weighing or measuring, or stamp or stamping

instrument, which is used in the commission of any offence under this Act or any regulations made thereunder.

[Am. Act A754:s.12]

(c) seize and detain any goods, records or documents which he has reason to believe is required to be produced as evidence in any proceedings under this Act or any regulations made thereunder;

[Am. Act A754:s.12]

(d) seal in any manner any weight, measure or instrument for weighing or measuring which is used, or which is reasonably suspected of being used, in the commission of any offence under this Act or any regulations made thereunder;

[Am. Act A754:s.12]

(e) examine any certificates, documents or papers, including books, reports, records, shipping bills and bills of lading or any data entered or recorded by any system of mechanical or electronic data processing or by any other information storage device where there are reasonable grounds to believe that it contains any information, relevant to the enforcement of this Act or any regulations made thereunder and make copies thereof or extracts therefrom;

[Am. Act A754:s.12]

(f) with the assistance of any police officer, stop and detain any motor vehicle or other conveyance that the Inspector has reasonable grounds to believe is fixed with any weights or measures or instruments for weighing or measuring, or carrying weights, measures or instruments for weighing or measuring or goods which he has reason to believe is required to be produced as evidence in any proceedings under this Act or any regulations made thereunder or is equipped with a device that is used or designed to be used for trade purposes and-

(i) where necessary, for the purposes of making an inspection under subparagraph (ii), require the operator of that motor vehicle or other conveyance to proceed with the motor vehicle or other conveyance to an appropriate place where such inspection may be made; and

(ii) inspect any such weight, measure or instrument for weighing or measuring of such goods or devices found in or upon that motor vehicle or other conveyance;

[Am. Act A754:s.12]

(g) examine all certificates of verification, records and documents relating to any such weight, measure or instruments for weighing or measuring, or certificate issued under section 14B.

[Am. Act A754:s.12]

(2) Any person who neglects or refuses to produce for an inspection under this section any weights, measures and instruments for weighing or measuring or any certificates of verification in his possession or in his premises or refuses to permit the Inspector under this section to examine the same or any of them or obstructs the Inspector from entering the premises or otherwise obstructs or hinders the Inspector from acting under this section shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding four thousand ringgit or to imprisonment for a term not exceeding three years or to both.

[Am. Act A825:s.12]

Section 28A. Forfeiture of instrument for weighing or measuring, etc.

(1) Any weight or measure or instrument for weighing or measuring seized pursuant to this Act shall be liable to forfeiture.

(2) The court trying any person accused of an offence under this Act or any regulations made thereunder may at the conclusion of the trial, whether he is convicted or not, order that weight or measure or instrument for weighing or measuring seized from that person be forfeited.

(3) Where there is no prosecution with regard to any weight or measure or instrument for weighing or measuring seized in exercise of any powers conferred under this Act, the same shall be taken and deemed to be forfeited at the expiration of one calendar month from the date it was seized unless a claim thereto is made before that date in the manner hereinafter set forth.

(4) Any person asserting that he is the owner of any weight or measure or instrument for weighing or measuring seized under this Act and that the same are not liable to forfeiture may personally or by his agent authorised in writing by him give written notice to the Deputy Chief Inspector of his claim.

(5) On receipt of a notice under subsection (4), the Deputy Chief Inspector shall refer the notice to the Chief Inspector who may, after such enquiry as may be necessary, direct that such weight or measure or instrument for weighing or measuring be released or forfeited or refer the matter to the court for decision.

(6) The court to which the matter is referred shall issue a summons requiring the person asserting that he is the owner of the weight or measure or instrument for weighing or measuring and the person from whom it was seized to appear before it and upon his appearance or default to appear, due service of the summons being proved, the court shall proceed to the examination of the matter and on proof that an offence under this Act or any regulations made thereunder has been committed and that such weight or measure or instrument for weighing or measuring was the subject matter or was used in the commission of such offence, shall order the same to be forfeited or may, in the absence of such proof, order the release of such weight or measure or instrument for weighing or measuring to the person entitled to it.

(7) Any weight or measure or instrument for weighing or measuring forfeited or deemed to be forfeited under this Act shall be disposed of in accordance with the direction of the Chief Inspector.

[Ins. Act A754:s.13]

Section 28B. Protection of Inspectors, etc., for putting Act in force.

No action or prosecution shall be brought, instituted or maintained in any court against the Chief Inspector, Deputy Chief Inspector, any Inspector or police officer for or on account of or in respect of any act ordered or done for the purposes of carrying into effect this Act or any regulations made thereunder and no suit or prosecution shall lie in any court against any other person for or on account of or in respect of any act done or purporting to have been done by him under order, direction or instruction of the Chief Inspector, Deputy Chief Inspector, any Inspector or police officer given for any such purpose as aforesaid:

Provided that, that order, direction or instruction was given or the act was done in good faith and in a reasonable belief that it was necessary for the purpose intended to be served thereby.

[Ins. Act A754:s.13]

PART V - GENERAL

Section 29. Regulations.

(1) The Minister may make regulations for the purpose of carrying into effect the provisions of this Act.

(2) In particular and without prejudice to the generality of the foregoing power to make regulations, such regulations may provide for all or any of the following:

(a) prescribing the procurement, preparation, maintenance, certification, verification, comparison and authentication of the Malaysian Primary Standards, Secondary Standards, Tertiary Standards and Working Standards;

[Am. Act A522:s.12]

(b) prescribing the place, manner of custody and the security of the Malaysian Primary Standards, Secondary Standards, Tertiary Standards and Working Standards;

[Am. Act A522:s.12]

(c) prescribing the limits of error which may be tolerated in respect of weights or measures or instruments for weighing or measuring;

(d) prescribing the manner in which the Malaysian Primary Standards, Secondary Standards, Tertiary Standards or Working Standards are to be marked and certified for identification;

(e) prescribing-

(i) the duties of the Chief Inspector, Deputy Chief Inspectors and Inspectors;

- (ii) the tests to be applied for the purpose of ascertaining the accuracy and efficiency of weights and measures and instruments for weighing or measuring and the limits of error to be allowed on verification or inspection; and
 - (iii) the type of stamp to be used by an Inspector in the stamping of weights and measures and instruments for weighing or measuring for use for trade and the manner of such stamping;
- (f) prescribing the fees to be charged in connection with-
- (i) licences issued under section 27;
 - (ii) testings and verification of weights and measures and instruments for weighing or measuring;
 - (iii) the issue of any certificate under this Act; and
 - (iv) any other service provided by an Inspector;
- [Am. Act A754:s.14]
- (g) prescribing forms, books, registers or cards to be used under this Act;
- (ga) limiting the purposes and transactions for which certain weights, measures or instruments for weighing or measuring may lawfully be used;
- [Am. Act A754:s.14]
- (gb) prescribing the accuracy class of certain weights, measures or instruments for weighing or measuring to be used for trade;
- [Am. Act A754:s.14]
- (gc) prohibiting the use of any particular kind of weights, measures or instruments for weighing or measuring either absolutely or except in compliance with the conditions set out in any regulations made under this Act;
- [Am. Act A754:s.14]
- (gd) prescribing the classes of weights to be used on certain kinds of weighing instruments;
- [Am. Act A754:s.14]
- (ge) providing for the registration, periodic inspection of public weighing or measuring instruments and generally providing for their supervision and control;
- [Am. Act A754:s.14]
- (gf) prescribing the procedures for application, tests and examinations to be taken for the issuance, of certificates to attend to any public weighing or measuring instrument;
- [Am. Act A754:s.14]
- (gg) prescribing the offences under this Act or any regulations made thereunder which may be compounded, the procedure to be followed and the forms to be used in compounding;
- [Am. Act A754:s.14]
- (gh) prescribing the manner in which packages should be marked with any particulars, statement or any other requirement in relation to any weight or measure;
- [Am. Act A825:s.13]
- (gi) prescribing the denomination of weights in which certain goods may be packed or sold;
- [Am. Act A825:s.13]
- (h) prescribing for any other matter required to be prescribed by this Act or generally for the better carrying into effect of the purpose or provisions of this Act.

Section 30. Permissible margin of errors.

(1) Any weight or measure or instrument for weighing or measuring shall not have a greater error than the limits of error prescribed by regulations made under this Act.

(2) Any weight or measure or instrument for weighing or measuring which is within the prescribed limits of error shall be deemed to be just and true for all purposes of this Act.

Section 31. Powers of exemption and making of regulations to remove difficulties.

(1) Notwithstanding anything in this Act, the Minister may, if he considers it necessary or expedient in the national or public interest, by order exempt, either absolutely or subject to any condition which may be prescribed in the order, any class of undertakings or transactions or any class of movable or immovable properties from any or all of the provisions of this Act.

(2) The Minister may by regulations make such provisions as he may consider necessary or expedient for the purpose of removing any difficulties occasioned by the coming into force of this Act or any of its provisions and any such regulations may be made so as to have effect as from the commencement of this Act or any of its provisions.

Section 32. Transitional provisions.

(1) Where any or all of the provisions of this Act have come into force in respect of any State in Malaysia or any class of undertakings or transactions or any class of movable or immovable properties the Minister may, from time to time by notification in the Gazette, permit the continuance of the use of such units of measurement or such weights or measures or instruments for weighing or measuring as may be specified in the notification in respect of the State in Malaysia, class of undertakings or transactions or class of movable or immovable properties as the case may be in addition to the use of the units of the International System of Units and the weights and measures specified in the Second Schedule for such period not exceeding five years from the date of the publication of the notification as the Minister may determine:

Provided that the Minister shall not determine a period in any notification made pursuant to this subsection such that the date of the expiry of the period will be inconsistent with the proviso to section 1 (4).

(2) Where a notification is made by the Minister permitting the continuance of the use of any units of measurement, or any weights or measures or instruments for weighing or measuring pursuant to subsection (1), the use of such units of measurement or weights or measures or instruments for weighing or measuring in the manner and during the period specified in that notification shall have legal force and validity and nothing in Part III of this Act shall subject a person to a penalty for such use.

Section 33. Conversion.

(1) For purpose of expressing the values of the units of the International System of Units in terms of the values of other units of measurement, Part 1 of the Third Schedule shall have the effect of determining the rates by which the values of such units of the International System of Units as specified therein may be converted into the values of such other units of measurement as set opposite them respectively in the said Part.

(2) For the purpose of expressing the values of other units of measurement in terms of the values of the units of the International System of Units, Part 2 of the Third Schedule shall have the effect of determining the rates by which the values of such other units of measurement as specified therein may be converted into the values of such units of the International System of Units as set opposite them respectively in the said Part.

(3) [Deleted by Act A754:s.15].

Section 34. Reference of units of measurement in written law.

(1) In respect of any written law (other than those specified in the Fourth Schedule) made before the coming into force of any of the provisions of this Act, any reference to units of measurement contained in such law shall be construed by reference to the appropriate units of the International System of Units in accordance with the rates of conversion set out in the Third Schedule.

(2) Without prejudice to the provisions of subsection (1), the Yang di-Pertuan Agong may by order published in the Gazette provide for the adaptation, alteration, conversion or modification of any provisions contained in any written law in order to replace reference to units of measurement contained therein by reference to the units of

the International System of Units in accordance with the rates of conversion set out in the Third Schedule or in such approximation thereto as the Yang di-Pertuan Agong may consider necessary or desirable.

Section 34A. Compounding.

The Chief Inspector may compound such offences against this Act or any regulations made thereunder as may be prescribed as offences which may be compounded, by collecting from the person reasonably suspected of having committed the offence a sum of money not exceeding the maximum fine to which the person would have been liable.

[Ins. Act A754:s.16]

Section 35. Repeal and savings.

(1) The laws specified in the Fourth Schedule and all subsidiary legislations made thereunder shall be repealed and such repeal shall take effect on such date or dates and to such extent as the Minister may by order published in the Gazette prescribe.

(2) Notwithstanding the making of an order pursuant to subsection (1) to repeal any of the laws specified in the Fourth Schedule or any subsidiary legislations made thereunder any authority or person exercising, immediately before the commencement of this Act or any of its provisions, functions corresponding to those conferred on the Custodian, Chief Inspector, Deputy Chief Inspector, or Inspector by this Act, shall in respect of the area in which that authority or person was empowered to exercise such functions continue to do so until the Minister by notification in the Gazette otherwise directs.

FIRST SCHEDULE

S.I. UNITS OF MEASUREMENTS

PART 1 THE BASE UNITS

Quantity	Unit Symbols	Name of Units
Length	m	metre
Time	s	second
Mass	kg	kilogram
Electric Current	A	ampere
Thermodynamic temperature	K	kelvin
Amount of Substance	mol	Mole [Am Act A522:s.13]
Luminous intensity	cd	candela

PART 2 SUPPLEMENTARY AND DERIVED UNITS

Quantity	Unit Symbols	Name of Units
Plane angle	rad	radian
Solid angle	sr	steradian
Area	m ²	square metre
Volume	m ³	cubic metre
Angular velocity	rad/s	radian per second
Angular acceleration	rad/s ²	radian per second squared
Velocity	m/s	metre per second
Acceleration	m/s ²	metre per second squared
Frequency	Hz	hertz
Rotational frequency	s ⁻¹	reciprocal second
Linear density	kg/m	kilogram per metre
Mass density (density)	kg/m ³	kilogram per cubic metre
Momentum	kg.m/s	kilogram metre per second
Angular momentum	kg.m/s ²	kilogram metre squared per second
Moment of inertia	kg.m ²	kilogram metre squared
Force	N	newton
Moment of force	N.m	newton metre
Pressure, stress	Pa	pascal
Viscosity: kinematic	m/s ²	metre squared per second
dynamic	Pa.s	pascal second
Surface tension	N/m	newton per metre
Work, energy	J	joule
Power	W	watt
Impact strength	J/m ²	joule per square metre
Temperature	oC	degree Celsius
Temperature interval	K, oC	kelvin, degree Celsius
Quantity of heat	J	Joule
Linear expansion co-efficient	K ⁻¹	reciprocal kelvin
Heat flow rate	W	watt
Heat flux density, irradiance	W/m ²	watt per square metre
Thermal conductivity	W/m.K	watt per metre kelvin
Co-efficient of heat transfer	W/m ² .K	watt per square metre kelvin
Heat capacity	J/K	joule per kelvin
Specific heat capacity	J/kg.K	joule per kilogram kelvin
Entropy	J/K	joule per kelvin
Specific entropy	J/kg.K	joule per kilogram kelvin
Specific energy, specific latent heat	J/kg.	joule per kilogram
Quantity of electricity, electric charge	C	coulomb

Volume density of charge, charge density	C/m ³	coulomb per cubic metre
Surface density of charge	C/m ²	coulomb per square metre
Electric field strength	V/m	volt per metre
Electric tension, potential difference electromotive force	V	volt,
Displacement (electric)	C/m ²	coulomb per metre squared
Electric flux, flux of displacement	C	coulomb
Electric capacitance	F	farad
Electric permittivity	F/m	farad per metre
Electric polarization	C/m ²	coulomb per square metre
Electric dipole moment	C.m	coulomb metre
Current density	A/m ²	ampere per square metre
Linear current density	A/m	ampere per metre
Magnetic field strength	A/m	ampere per metre
Magnetic potential difference	A	ampere
Magnetic flux density, magnetic induction	T	tesla
Flux of magnetic induction, magnetic flux	Wb	weber
Magnetic vector potential	Wb/m	weber per metre
Self inductance, mutual inductance	H	henry
Permeability	H/m	henry per metre
Electromagnetic moment, magnetic moment	A.m ²	ampere metre squared
Magnetization	A/m	ampere per metre
Magnetic polarization	T	tesla
Magnetic dipole moment	N.m ² /A	Wb.m Newton metre squared per ampere or weber metre
Resistance	W	ohm
Resistivity	W .m	ohm metre
Conductivity	S/m	siemens per metre
Reluctance	H ⁻¹	reciprocal henry
Permeance	H	henry
Impedance, reactance, modulus of impedance	W	ohm
Admittance, modulus of admittance, susceptance, conductance	S	siemens
Apparent power	VA	volt ampere
Reactive power	var	var
Diffusion co-efficient	m ² /s	square metre per second
Thermal diffusion co-efficient	m ² /s	square metre per second
Luminous flux	lm	lumen
Luminance	cd/m ²	candela per square metre
Illuminance	lx	lux
Activity of radionuclides	s ⁻¹	reciprocal second

PART 3

UNITS WHICH MAY BE USED IN CONJUNCTION WITH THE BASE UNITS AND SUPPLEMENTARY AND DERIVED UNITS

Quantity	Unit Symbols	Nature of Units
Time	min	minute
	h	hour
	d	day
	week	week
	month	month
	year	year
Mass	t	tonne
Length	carat	carat
	n mile	international nautical mile
Plane angle	g	grade
	"	second
	'	minute
	°	degree
Area	ha	hectare
	a	are
Volume	l	litre
Velocity	km/h	kilometre per hour
Rotational frequency	rev/min	revolution per minute
Pressure	bar	bar
Viscosity:		
kinematic	cSt	centistokes
dynamic	cP	centipoise
Work, energy	kWh	kilowatt hour
	eV	electron volt
Activity of radionuclide	Ci	curie

PART 4

MULTIPLES AND SUBMULTIPLES UNITS OF MEASUREMENTS

The names of the multiples and submultiples of the units of the measurements are formed by means of the following prefixes:

Factor by which the units multiplied	Prefix	Symbol
10 ¹²	tera	T
10 ⁹	giga	G
10 ⁶	mega	M
10 ³	kilo	k
10 ²	hecto	h
10	deca	da
10 ⁻¹	deci	d
10 ⁻²	centi	c
10 ⁻³	milli	m
10 ⁻⁶	micro	μ
10 ⁻⁹	nano	n
10 ⁻¹²	pico	p
10 ⁻¹⁵	femto	f
10 ⁻¹⁸	atto	a

[Am. Act A522:s.13; Act A754:s.17; P.U. (A) 392/85]

SECOND SCHEDULE

WEIGHT AND MEASURES FOR USE FOR TRADE

**PART I
LINEAR MEASURES**

Measures of -

20 metres
10 metres
3 metres
2 metres
1 metre
1 decimetre
1 centimetre

**PART 2
SQUARE MEASURES**

Any measures of, or of any multiple of, 1 square decimetre.

[Am. Act A522:s.14]

**PART 3
CUBIC MEASURES**

Any measures of, or of any multiple of, 1/4 cubic metre.

**PART 4
CAPACITY MEASURES**

Measures of -

Any multiple of 10 litres.

10 litres

5 litres
2.5 litres
2 litres
1 litre
500 millilitres
250 millilitres
200 millilitres
100 millilitres
50 millilitres
30 millilitres
25 millilitres
20 millilitres
10 millilitres
5 millilitres
2 millilitres
1 millilitre

**PART 5
WEIGHTS**

(a) For dealings in articles or things other than precious stones and pearls.

[Am. Act A754:s.18]

Weights of -

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 milligram

(b) For dealings involving precious stones and pearls.

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 carat (metric)
0.25 carat (metric)
0.2 carat (metric)
0.1 carat (metric)
0.05 carat (metric)
0.02 carat (metric)
0.01 carat (metric)

NOTE - 1 carat (metric) = 0.2g (exactly).

THIRD SCHEDULE

CONVERSION

PART 1 CONVERSION OF THE VALUES OF SI UNITS IN TERMS OF THE VALUES OF OTHER UNITS OF MEASUREMENT

SI Units	Other Units of Measurement
(a) LENGTH:	
1 km (kilometre)	= 0. 621371 mile
1 km	= 4. 97097 furlongs
1 km	= 0. 539612 nautical mile (U. K.)
1 km	= 0. 539957 (Int.) nautical mile
1 km	= 0. 621371 batu
1 m (metre)	= 0. 0497079 chain
1 m	= 1. 09361 yards
1 m	= 3. 28084 feet
1 m	= 4. 97097 link
1 m	= 3. 28084 kaki
1 m	= 1. 09361 ela
1 m	= 2. 18723 hasta
1 m	= 0. 546807 depa
1 m	= 2. 66916 chhek
1 m	= 0. 198839 perch (Pole)
1 m	= 0. 546807 fathom
1 cm (centimetre)	= 0. 393701 inch
1 cm	= 0. 266919 chhun
1 um (micrometre)	= 0. 0393701 milliinch (thou)
(b) AREA:	
1 km ² (kilometre squared)	= 0. 386102 square mile
1 ha (hectare)	= 3. 86102 x 10 ⁻³ square mile
1 ha	= 2. 47105 acres
1 ha	= 9. 88422 roods
1 ha	= 11. 9599 x 10 x 3 square yards
1 m ² (metre squared)	= 1. 19599 square yards
1 m ²	= 10. 7639 square feet
1 m ²	= 2. 47105 x 10 ⁻³ square chain
1 cm ² (centimetre squared)	= 0. 155000 square inch
1 mm ² (millimetre squared)	= 1. 97353 circular mils
(c) VOLUME:	
1 m ³ (metre cubed)	= 1. 30795 cubic yards
1 m ³	= 35. 3147 cubic feet
1 m ³	= 27. 4962 UK bushels
1 m ³	= 28. 3776 US bushels
1 m ³	= 3. 49157 hog heads
1 m ³	= 1. 74579 pipes
1 m ³	= 0. 872892 tun
1 dm ³ (decimetre cubed)	= 0. 264172 US gallon
1 dm ³	= 0. 219969 UK gallon
1 dm ³	= 2. 11338 US liquid pints
1 dm ³	= 1. 75976 UK pints
1 dm ³	= 0. 879878 UK quart
1 dm ³	= 0. 109984 peck
1 dm ³	= 7. 03903 gills
1 dm ³	= 3. 51950 pau
1 dm ³	= 0. 879878 cupak

1 dm ³	= 0. 219969 gantang
1 dm ³	= 1. 75975 leng
1 dm ³	= 0. 00343701 quarter
1 cm ³ (centimetre cubed)	= 0. 0610236 cubic inch
1 cm ³	= 0. 0351951 UK fluid ounce
1 cm ³	= 0. 281561 fluid drachim
1 mm ³ (millimetre cubed)	= 0. 0168936 UK minim
1 litre	= 0. 219969 UK gallon
1 ml (millilitre)	= 0. 0351951 UK fluid ounce
(d) MASS/WEIGHT:	
1 tonne	= 0. 984203 ton (long)
1 tonne	= 0. 413366 koyan
1 kg (kilogram)	= 5. 51155 x 10 ⁻³ bhara
1 kg	= 1. 10231 x 10 ⁻³ ton (short)
1 kg	= 0. 984203 x 10 ⁻³ ton (long)
1 kg	= 0. 0196841 hundredweight (cwt)
1 kg	= 0. 0220462 cental
1 kg	= 0. 0787364 quarter
1 kg	= 0. 157473 stone
1 kg	= 2. 20462 pounds
1 kg	= 1. 653466 kati
1 kg	= 0. 0165347 pikul
1 kg	= 0. 0685218 slug
1 g (gram)	= 0. 035274 ounce (avoir)
1 g	= 0. 564383 dram (dr.)
1 g	= 5. 000 carats (metric)
1 g	= 0. 257206 drachm (apoth)
1 g	= 0. 0321507 ounce (apoth)
1 g	= 0. 771617 scruple
1 g	= 0. 643017 pennyweight (dwt)
1 g	= 0. 0264554 tahil
1 g	= 0. 264554 chee
1 g	= 2. 64554 hun
1 g	= 26. 4554 li
1 g	= 15. 4324 grains
1 carat	= 3. 08647 grains

PART 2

CONVERSION OF THE VALUES OF OTHER UNITS OF MEASUREMENT IN TERMS OF THE SI UNITS

Other Units of Measurement	SI Units
(a) LENGTH:	
1 mile	= 1. 60934 km
1 International nautical mile	= 1852 m
1 telegraph nautical mile	= 1855. 32 m
1 furlong	= 0. 201168 km*
1 chain	= 20. 1168 m*
1 yard	= 0. 9144 m*
1 foot	= 0. 3048 m*
1 inch = 25. 4 mm*	= 2. 54 cm*
1 milliinch (thou.)	= 25. 4 μ m*
1 (UK) nautical mile	= 1. 85318 km
1 fathom	= 1. 8288 m*
1 link	= 0. 201168 m*
1 kaki	= 0. 3048 m*
1 batu	= 1. 60934 km

1 ela	= 0. 9144 m*
1 hasta	= 0. 4572 m*
1 chhun	= 3. 7465 cm*
1 chhek	= 0. 37465 m*
1 depa	= 1. 8288 m*
1 perch (Pole)	= 5. 0292 m*
(b) AREA:	
1 square mile	= 2. 58999 km = 258. 999 ha
1 acre	= 4,046. 86 m = 0. 404686 ha
1 rood	= 1,011. 71 m 2
1 square yard	= 0. 836127 m 2
1 square foot	= 0. 0929030 m = 929. 030 cm 2
1 square inch	= 645. 16 mm = 6. 4516 cm2
1 square chain	= 404. 686 m 2
1 circular mil	= 506. 707 um 2
1 jemba	= 4,046. 86 m 2
1 relung	=2,877. 77 m 2
1 depa	= 4. 04686 m2
(c) VOLUME:	
1 cubic yard	= 0. 764555 m 3
1 cubic foot	= 0. 023168 m 3
1 cubic inch	= 16. 3871cm 3
1 barrel (US) (for 3 petroleum)	= 0. 158987 m 3
1 bushel	= 0. 0363687 m 3
1 bushel (US) (dry)	= 0. 0352391 m 3
1 peck	= 9. 09218 dm 3
1 gallon	= 4. 54609 dm 3
1 gallon (US)	= 3. 78541 dm 3
1 quart	= 1. 13652 dm 3
1 pint	= 0. 568261 dm 3
1 gill	= 0. 142065 dm 3
1 gill (US)	= 0. 118294 dm 3
1 fluid ounce	= 28. 4131 cm 3
1 fluid ounce (US)	= 29. 5735 cm 3
1 fluid drachm	= 3. 55163 cm
1 fluid drachm (US) 3 (liquid)	= 3. 69669 cm 3
1 minim	= 59. 1939 mm3
1 minim (US)	= 61. 6115 mm 3
1 peck (US) (dry)	= 8. 80977 dm 3
1 pint (US)	= 0. 473176 dm 3
1 dry pint (US)	= 0. 550610 dm 3
1 quart (US)	= 0. 946353 dm 3
1 dry quart (US)	= 1. 10122 dm 3
1 pau	= 0. 284131 dm 3
1 cupak	= 1. 13652 dm 3
1 gantang	= 4. 54609 dm 3
1 leng	= 0. 568261 dm 3
1 hog head	= 286. 404 dm 3
1 quarter	= 290. 950 dm 3
1 pipe	= 572. 808 dm 3
1 tun	= 1,145. 616 dm
(d) MASS/WEIGHT:	
1 ton (long)	= 1,016. 05 kg = 1. 0165 tonne
1 hundredweight	= 50. 8023 kg
1 cental	= 54. 3592 kg
1 quarter	= 12. 7006 kg
1 stone	= 6. 35029 kg

1 pound	= 0. 45359237 kg*
1 ounce	= 28. 3495 g
1 dram	= 1. 77185 g
1 grain	= 64. 7989 mg = 0. 323995 carat
1 carat	= 0. 2 g
1 ounce(apoth)	= 31. 1035 g
1 drachm	= 3. 88793 g
1 scruple	= 1. 29598 g
1 pennyweight (dwt)	= 1. 55517 g
1 slug	= 14. 5939 kg
1 tahl	= 37. 7994 g
1 kati	= 0. 604790 kg
1 pikul	= 60. 4790 kg
1koyan	= 2,419. 16 kg
1 bhara	= 181. 437 kg
1 chee	= 3. 77994 g
1 hun	= 0. 377994 g
1 li	= 0. 0377994 g
1 ton (short)	= 907. 185 kg -27
1 atomic mass unit	= 1. 6605 x 10 ⁻²⁷ kg
International corn	= 27. 2155 kg bushel
1 tee	= 0. 0377994 g

NOTE -

Accuracy of values quoted.

Some of the factors relating common usage units and metric units can be expressed exactly and these are with asterisks. In other cases where the number does not terminate or only terminates after many digits, not more than 6 significant figures are quoted and the last figure given in the numeral which best represents the true value.

LIST OF AMENDMENTS

Amending law	Short title	In force from
Act A522	Weights and Measures (Amendment) Act 1981	24-7-1981
P.U.(A) 293/81	Weights and Measures (Repeal of Laws) Orders 1981	1-10-1981
P.U.(A) 392/85	Weights and Measures (Amendment of First and Third Schedules) Notification 1985	30-8-1985
Act A754	Weights and Measures (Amendment) Act 1990	23-2-1990
Act A825	Weights and Measures (Amendment) Act 1992	17-7-1992
Act A1180	Weights and Measures (Amendment) Act 2002	[Not yet in force]