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ISLAMABAD, WEDNESDAY, MARCH 20, 2024

PART II

Statutory Notifications (S. R. O.)

GOVERNMENT OF PAKISTAN
MINISTRY OF ENERGY
(Power Division)

[NATIONAL ENERGY EFFICIENCY AND CONSERVATION AUTHORITY]

NOTIFICATION

Islamabad, the 14th March, 2024

S. R. O. 412(I)/2024.—In exercise of the powers conferred by section 21 read with sub-section (3) of section 4 and clause (u) of section 7 of the National Energy Efficiency and Conservation Act, 2016 (XXX of 2016), the National Energy Efficiency and Conservation Board, in consultation with the National Energy Efficiency and Conservation Authority, makes the following regulations, namely:—

PART-I

DEFINITIONS

1. **Short title and commencement.**—(1) These regulations shall be called the National Energy Efficiency and Conservation (Pakistan Energy Labels for Motors) Regulations, 2023.

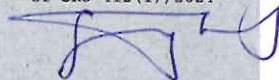
(2) These regulations shall come into force at once.

1009(1—23)

Price: Rs. 40.00

[7375(2024)/Ex.Gaz.]

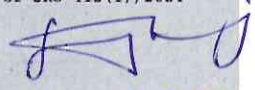
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National Energy Efficiency &
Conservation Authority (NEECA)
Ministry of Energy (Power Division)
Government of Pakistan, Islamabad

2. Definitions.—(1) In these regulations, unless there is anything repugnant in the subject or context,—


- (i) “Act” means the National Energy Efficiency and Conservation Act, 2016 (XXX of 2016);
- (ii) “applicant” means any local manufacturer, assembler, or importer of motors;
- (iii) “application” means an application made by an applicant, in hard or electronic form, in accordance with the provisions of these regulations and shall, where the context so permits, include the documents in support of such application;
- (iv) “assigned IE efficiency” means an efficiency class (IE-code) that may be assigned to certain second hand motors without a requirement for additional testing prior to sale;
- (v) “authorization” means an authorization granted by the Authority for the use of Pakistan energy labels for motors;
- (vi) “brake motor” means motor with an integrated brake which forms an integral part of the inner motor construction and can neither be removed nor supplied by a separate power source during the testing of the motor efficiency;
- (vii) “continuous duty operation” means the capability of an electric motor with an integrated cooling system to operate at nominal load without interruption below its rated maximum temperature rise;
- (viii) “designated officer” means any officer of the Authority designated as such by the Managing Director of the Authority from time to time to perform certain functions as per these regulations;
- (ix) “energy efficient” means product is compliant to minimum energy performance standards and bearing Pakistan energy label;
- (x) “exclusions” means the type of motors not covered under the regulations and specified in Schedule-III.
- (xi) “IE” means the efficiency classes (IE-code) of AC motors, as defined in IEC 60034-30-1;

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- (xii) "IEC standard" means an international standard that is published by the international electrotechnical commission denoted by the letters "IEC" and identifying number and/or letters;
- (xiii) "importer" means any person who is authorized to make import of motors;
- (xiv) "minimum efficiency" means the lowest efficiency a motor must achieve at either 75% or 100% rated load, at 100% rated voltage, without tolerances;
- (xv) "minimum energy performance standards (MEPS)" means the minimum energy performance standards as approved by the Authority and endorsed and adopted by PSQCA;
- (xvi) "Model" means the model or range of one model for the product of one particular brand, to which a single set of test report is applicable and where each of the models has the same physical characteristics, energy consumption or efficiency and performance characteristics;
- (xvii) "motor or new motor" means a motor that has not been used in an application other than when under test or for demonstration prior to sale;
- (xviii) "NEECA" means National Energy Efficiency and Conservation Authority established under the National Energy Efficiency and Conservation Act, 2016 (XXX of 2016);
- (xix) "Pakistan energy label" means a security sticker as defined and approved by the Authority as per Schedule-V and generated through the product registration system or issued by the Authority on the basis of the Star rating commonly known as energy star rating. The star rating is calculated from the star rating band as per the Schedule-VII;
- (xx) "phase" means the type of configuration of the mains electrical supply;
- (xxi) "pole" means the total number of magnetic north and south poles produced by the rotating magnetic field of the motor. The number of poles determines the base speed of the motor;
- (xxii) "product" means the electric motors to be registered under these regulations;

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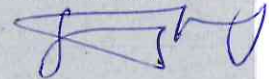


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- (xxiii) "product information" means the information and steps which the manufacturers and importers have to take as specified in Schedule-IV;
- (xxiv) "PSQCA" means the Pakistan Standards and Quality Control Authority established under the Pakistan Standards and Quality Control Authority Act, 1996 (VI of 1996);
- (xxv) "rated quantity or value" means a quantity or value assigned, generally by a manufacturer, for a specified operating condition of a machine;
- (xxvi) "registered" means that the individual model has been granted an approved registration by the Authority;
- (xxvii) "registration number" means a dedicated number allocated by the Authority for the respective motor model;
- (xxviii) "schedule" means schedule to these regulations;
- (xxix) "scope" means the type of motors covered under the regulation and specified in Schedule-III.
- (xxx) "second hand motor" means any motor that is not a new motor;
- (xxxi) "seller" means a person who sells the product to any person within Pakistan whether directly or through some online process;
- (xxxii) "squirrel cage motor" means an electric motor with no brushes, commutators, slip rings or electrical connections to the rotor;
- (xxxiii) "technically equivalent" means a test method that has been demonstrated to produce identical results as the specified test method; and
- (xxxiv) "tolerance" means the maximum allowable variation in test measurement result of any given motor compared to the declared value on the rating plate or in any other documentation associated with the motor. No additional tolerance will be allowed beyond that associated with the testing and specified in the relevant standard except where specified in any subsequent administrative instructions issued by the Authority.

(2) All other terms, words and expressions used, but not defined in these regulations, shall have the same meanings as are assigned to them in the Act or any other enabling rules and regulations.

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PART-II

GRANT OF AUTHORIZATION OR REGISTRATION

3. (1) No person, manufacturer or importer shall sell or purchase any motor which is not energy efficient and not compliant to MEPS.

(2) In order to ensure that only energy efficient motors are sold in the market, these motors shall bear Pakistan energy label for motors.

4. **Application for grant of registration or authorization.**— (1) An applicant desiring registration shall make application to the Authority for registration or authorization to use or affix the Pakistan energy labels for motors on the product.

(2) The applicant shall sign-up and login through the product registration system, link to which has been given on the Authority's website or an applicant can submit an application as per format provided in the Schedule-I. The contents and format of application form provided in the Schedule-I may be updated by the Authority on as and when required basis.

(3) The application with one time company registration fee, product registration fee, product model registration or renewal and label fee shall be submitted in the form of a non-refundable payee account demand draft in favor of the Authority or online payment channels as prescribe in the Schedule-II.

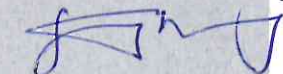
(4) For registration, the product shall meet the MEPS as prescribed by the Authority.

(5) The online or downloaded application form shall be duly filled in by giving correct and appropriate information, list of retailers or dealers with their contact details and addresses for the labelled products in different cities and required supporting documents as mentioned in the application form as provided in Schedule-I.

(6) The contents of the application with the required set of information as set out in Schedule-I, submitted by the applicant, shall be reviewed by the Authority's technical evaluation committee and thereafter as per the recommendation of the said committee, the decision as to the registration or otherwise of the product shall be given by the Authority.

(7) The applicant shall be solely responsible for ensuring the accuracy of the information displayed on the label or any public claim for label level and quality of product and use of label only for approved product's model.

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(8) The motors sought to be registered should conform to all the requirements of IEC 60034-30-1 or technically equivalent, as applicable to participate in Pakistan energy labeling program.

(9) PSQCA shall provide test report issued by an accredited laboratory or labs enlisted by the Authority for the particular models of the product for which grant of Pakistan energy label is required.

(10) The test reports shall be reviewed by the technical section or officials nominated by the Authority to ensure its compliance with the energy performance or IE rating or star rating classification specified in the Schedule-VII and accordingly star rating for the particular model of the product would be endorsed and registered manually or through the product registration system.

(11) In case there are changes in the energy efficiency parameters of the product or any other information on the label, then a fresh application shall be submitted and it will be processed accordingly.

(12) The liability of applicant for the authenticity of label will continue till those labeled products are available in the market.

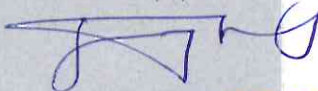
(13) The result of evaluation shall be communicated to the applicant within fifteen working days after the approval or rejection by the Authority's technical evaluation committee nominated by the Authority and an authorization certificate to use the Pakistan energy label stickers shall be issued accordingly for the respective models through the product registration system or manual mode. In case of rejection, reasons for such rejection shall also be communicated to the applicant.

(14) The validity of the registration of model shall be for two years (from the date of registration) and thereafter, the applicant shall be required to get the registration re-issued in the manner provided herein for new registration.

5. **Design and specifications of Pakistan energy label.**—(1) The design and related information regarding Pakistan energy labels for motors shall be as per Schedule-V. The design of the label may be updated by from time to time as and when required by the Authority.

(2) The Authority shall embed security features in the label to enable verification of the authenticity of the labelled product. The security features shall be verifiable through modern technologies such as QR Code scanning.

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PART-III
MONITORING

6. (1) For the purposes of monitoring, the Authority may seek information regarding all the registered products including the details of production, import and sales of the registered product.

(2) The Authority may, from time to time, either through its designated officers or third party firm or any designated agency shall carry out random monitoring to verify the compliance in using the Pakistan energy labels for the registered products by the manufacturers, assemblers, or importers.

(3) The following may be the considerations for the verification or monitoring of the registered products, namely:—

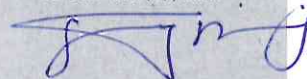
- (i) pattern or design of label;
- (ii) validity of authorization of label users;
- (iii) label contents;
- (iv) manner of display of label; and
- (v) verification test.

(4) In case, during the course of monitoring, any contravention of the provisions of the Act or other rules and regulations is observed, further action into the matter shall be taken in accordance with the provisions of Part IV of these regulations.

PART-IV
CANCELLATION OF REGISTRATION OR PENALTIES

7. **Non-conformance of Pakistan energy label use:**— (1) If Pakistan energy label used or affixed on the product is found to be not conforming to the pattern or design, the way of use as approved by the Authority or the label is found misleading to the consumers or retailers or violation of energy consumption against notified standards, the Authority shall within fifteen days of coming to know of the violation, cause the designated officer to seek an explanation from such person (herein after referred to as the said person).

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(2) The designated officer shall issue an explanation to the said person to explain the occurrence of the violation within a period of fifteen days from the receipt of the explanation.

(3) Where the said person admits the violation without offering an excuse, the registration of the product in question shall be cancelled and the said product shall be prohibited from sale in the market.

(4) Where the said person admits the violation but maintains that there were valid reasons for such violation, he shall submit a written and reasonably detailed explanation of the reasons for such violation within a period of fifteen days.

(5) The Authority shall examine the explanation referred to in sub-regulation (4) within fifteen days of receipt thereof and shall, if so requested, allow the said person an opportunity of being heard in person or through his authorised representative.

(6) If the Authority accepts the explanation, it shall record the reasons for acceptance and shall order the matter closed.

(7) If the Authority rejects the explanation, it shall record the reasons for rejection of the response and shall pass an order regarding cancellation of the registration of the product. Beside the cancellation of registration, the Authority may also direct for withdrawal of all the stocks from the market immediately and it may also recommend imposition of fine as determined by the Board as per Schedule-VI.

(8) The decision of the Authority under sub-regulation (7) shall forthwith be communicated to the said person.

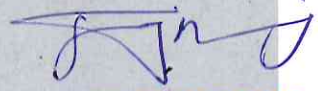
(9) The Authority may also communicate its decision as to cancellation of registration of the product to the relevant offices of Customs for prohibiting the import of such products which are in non-conformance of Pakistan energy label use in accordance with these regulations.

8. Complaints related to performance testing or test-reports:—

(1) The testing required for verification shall be got conducted through an accredited lab or labs enlisted by the Authority for this purpose at the expense of the manufacturer or importer.

(2) For any random verification, the Authority shall carry out risk based sampling in the market and the monitoring team shall pick the product

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samples from the manufacturer or distributor or retailer for verification test. The cost of the samples shall be borne by the manufacturer, assembler, importer, or retailer applicable as per nature of complaint. If the registered product's model fails to pass the verification test, the registered company or firm of the model shall be issued a show cause notice. However, on request of such registered company or firm, the Authority may get the second check testing of the model at the registered company's or firm expense.

(3) In case of the second verification test, the Authority shall pick three samples of the same model from the market and test the samples. The cost of these three samples shall be borne by the manufacturer, assembler, importer, or retailer, as the case may be, as per nature of complaint. The Authority shall inform the registered company or firm of the model about the date of second check testing to witness.

(4) The manufacturer, seller or importer shall be responsible for providing due assistance to the Authority's monitoring team.

(5) In case of failure of performance test results as compared to the results of test conducted at the time of model registration under these regulations, the Authority shall pass an order regarding cancellation of the registration of the product. Beside the cancellation of registration, the Authority may also direct for withdrawal of all the stocks from the market immediately and it may also recommend imposition of fine as determined by the Board as per Schedule-VI.

(6) The Authority may also communicate its decision as to cancellation of registration of the product to the relevant offices of Customs for prohibiting the import of such products which fail performance testing in accordance with these regulations.

PART-V

COMPLAINTS

9. (1) Any consumer of a registered product may lodge a complaint before the Authority, if the product is not in conformity with the approved specifications or standards or it does not bear the requisite label thereon.

(2) Upon receipt of the complaint, the Authority may cause the designated officer for issuing an explanation to the seller or manufacturer or importer of the product to show cause within fifteen days as to why further action in terms of the provisions of Part IV of these regulations may not be taken

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against him. If considered necessary, the designated officer may make site inspections or get the product tested through the accredited laboratory at the expense of the seller or manufacturer or importer against whom the complaint was lodged.

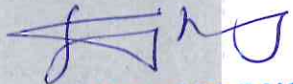
(3) An opportunity of hearing may also be provided by the designated officer to the parties.

(4) Upon receipt of the response to the explanation issued under sub-regulation (2) or after making site inspection or testing of the product, the designated officer may make recommendations as to the decision of the complaint and may recommend to the Authority either for dismissal of the complaint or for taking further action in terms of Part IV of these regulations.

(5) The decision upon such complaint shall be given by the Authority within sixty days of the lodging of the complaint.

(6) Any person aggrieved by the decision of Authority may file an appeal before the Energy Conservation Tribunal in accordance with the provisions of the Act.

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SCHEDULE-I
[See regulations 4(2), 4(5) and 4(6)]

Pakistan Energy Labeling Scheme Registration Form

for Grant of Authorization to use "Pakistan Energy Label for Motors"
To be filled in by the applicant

1. Country of Applicant and Product Category

1. Initiation	Country where applicant is applying for registration
	Select type of product you wish to register (<i>Electric Motor</i>)
	Do you wish to register a NEW motor or a SECOND HAND motor?

(A) FORM FOR NEW MOTOR CATEGORY

1. Information for New Motors Registration

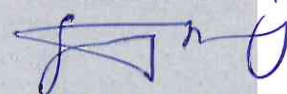
NEW MOTOR REGISTRATION	
1. Applicant	Company Name
	Trading name
	NTN number
	Title/Role of applicant
	Contact person name
	Contact person title
	Alternate contact person name
	Alternate contact person title
	Postal address
	Town/city
	Province
	Country
	Postal code
	Contact phone
	Contact mobile
	Contact fax
Contact email	
2. General Product Details	Manufacturers name
	Country of manufacture
	Brand name
	Year model(s) first manufactured or imported
	Model number(s)
(If registering a family of models (see Note 2), list all model names and numbers	

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	covered by this application.)		
	Does this model or family replace or supplement another registered model with the same specifications?	Yes	No
	If yes, state model(s)		
	Is the date of manufacture permanently marked on the rating plate in a non-encrypted format?	Yes	No
	If yes, provide an example of the date format		
	If no, provide details on how to determine (from the serial number or other permanent markings for this model) the date of manufacture		
	Website address for further details *		
3. Specific Product Details	Single or three-phase		
	Rated Power output (kW)		
	Rated Voltage (V)		
	Rated input frequency (Hz)		
	Number of Poles		
	The Rated Speed (rpm)		
	Motor Duty rating		
	Mounting code of IEC 60034-7 *		
	Frame code of IEC 60072 *		
	Enclosure protection rating to IEC 60034-5 (IP code) *		
	Motor design: (TEFC, ODP, other) *		
	Motor winding insulation to IEC 60034-1	Yes	No
4. Test Details	Test method		
	Test Laboratory		
	(Add another laboratory)		
	Accreditation body		
	Test laboratory accreditation code		
	Test report number		
	Test report date		
	(Upload test report)		
5. Performance Claim	Efficiency at 100% rated load: %		
	Efficiency at 50% rated load: %		
	International Efficiency class (IE) at 100% rated load		
	Does this model comply with MEPS?		
	MEPS not applicable (provide details)		

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2. Specify the information about deposited non-refundable Fees payable to NEECA

Company Registration Fees:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

Product/Appliance Registration Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

Model Registration Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

Renewal Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

3. Estimated production per annum of product/appliance of Model for which the application is submitted?

4. The following documents should be attached with the application

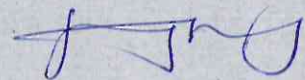
- (a) Company Brochure
- (b) Product Brochure/catalogue
- (c) Product Test Report issued by an Accredited Lab
- (d) Original Demand Draft(s)/ Pay Order(s)

Signature: _____

Name: _____

Designation: _____

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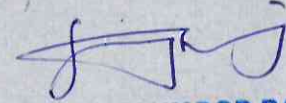
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Date: _____

(Stamp of the firm/company)

(B) FORM FOR SECOND HAND MOTOR CATEGORY**1. Information for Second Hand Motors Registration**

SECOND HAND MOTOR REGISTRATION		
1. Applicant	Company Name	
	Trading name	
	NTN number	
	Title/Role of applicant	
	Contact person name	
	Contact person title	
	Alternate contact person name	
	Alternate contact person title	
	Postal address	
	Town/city	
	Province	
	Country	
	Postal code	
	Contact phone	
Contact mobile		
Contact fax		
Contact email		
2. General Product Details	Manufacturers name	
	Country of manufacture	
	Brand name	
	Year model(s) first manufactured	
	Model number(s)	
	(If registering a family of models (see Note 2), list all model names and numbers covered by this application.)	
	Does this model or family replace or supplement another registered model with the same specifications?	Yes No
	If yes, state model(s)	
	Is the date of manufacture permanently marked on the rating plate in a non-encrypted format?	Yes No
	If yes, provide an example of the date format	
	if no, provide details on how to determine (from the serial number or other permanent markings for this model) the date of manufacture	
Website address for further details *		

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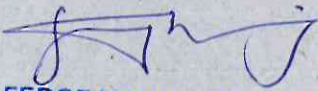
3. Specific Product Details	Single or three-phase		
	Rated Power output (kW)		
	Rated Voltage (V)		
	Rated input frequency (Hz)		
	Number of Poles		
	The Rated Speed (rpm)		
	Motor Duty rating		
	Mounting code of IEC 60034-7 *		
	Frame code of IEC 60072 *		
	Enclosure protection rating to IEC 60034-5 (IP code) *		
	Motor design: (TEFC, ODP, other) *		
	Motor winding insulation to IEC 60034-1		Yes No
4. Test Details*	<i>If registration is based on a test report, complete the following section: If not, proceed to the following section.</i>		
	Test method		
	Test Laboratory		
	(Add another laboratory)		
	Accreditation body		
	Test laboratory accreditation code		
	Test report number		
	Test report date		
(Upload test report)			
5. Performance Claim	Efficiency at 100% rated load according to test report:	%	
	Efficiency at 50% rated load according to test report:	%	
	International efficiency class (IE code) at 100% rated load according to test report:		
	Does this model comply with MEPS?		Yes No
	MEPS not applicable (provide details)		
6. Alternative Method*	<i>If registration is based on the alternative method in 'Notification of Minimum Performance and Labelling Regulation for electric Motors', complete the following section</i>		
	International efficiency class (IE code) shown on nameplate		
	% Efficiency shown on nameplate		
7. Performance Claim	Claimed International efficiency class (IE code):		
	Does this model comply with MEPS?		Yes No
	MEPS not applicable (provide details)		

2. Specify the information about deposited non-refundable Fees payable to NEECA

Company Registration Fees:

Demand Draft/ Pay Order No: _____

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Dated: _____

for Amount Rs.: _____

 Product/Appliance Registration Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

 Model Registration Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

 Renewal Fee:

Demand Draft/ Pay Order No: _____

Dated: _____

for Amount Rs.: _____

3. Estimated production per annum of product/appliance of Model for which the application is submitted?
- _____

4. The following documents should be attached with the application

- (a) Company Brochure
 (b) Product Brochure/catalogue
 (c) Product Test Report issued by an Accredited Lab
 (d) Original Demand Draft(s)/ Pay Order(s)

Signature: _____

Name: _____

Designation: _____

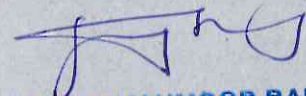
Date: _____

(Stamp of the firm/company)

Notes:-

- (1) Items marked * may be optional
 (2) Families of models

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Two or more models are in the same family of models if they:

- (a) be of the same brand; and
- (b) have the same frame size; and
- (c) have the same characteristics for each of the following:
 - (i) number of poles;
 - (ii) the duty type, as specified in clause 4 of IEC 60034-1, assigned in accordance with clause 5 of IEC 60034-1;
 - (iii) rated output power (in kilowatts); and
- (d) rely on a single test report.

(3) Requirements for test reports

The Authority shall check the performance of products against the regulatory requirements by commissioning tests on samples conducted by laboratories holding current accreditation in accordance with ISO/IEC 17025 to undertake tests according to IEC 60034-1 Ed. 13.0 and IEC 60034-2-1 Ed. 2.0 2014. The results of these tests shall determine whether products comply with the regulations.

Therefore, registrants are advised to minimise the risk that their products are deemed to be non-compliant by providing test reports from similarly accredited laboratories with experience in testing to the IEC test method. Although test reports from other entities enlisted by the Authority are acceptable for registration, registrants should note that the test report itself does not indemnify the registrant from action if a product is subsequently found by the Authority to be non-compliant.

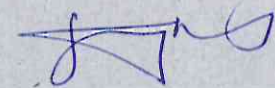
SCHEDULE-II

[See regulation 4(3)]

FEE STRUCTURE

Sr. No	Fee Type	Fee in Pak Rs.
(1)	(2)	(3)
1	Company/Firm Registration Fee (One Time)	100,000/-
2	Product Registration Fee (One Time)	Nil
3	Model Registration/Renewal Fee (2 Years)	As per table below
4	Pakistan Energy Label / Security Sticker Fee	As per table below

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Type of Motor	Model Registration Fee	Pakistan Energy Label/ Security Sticker Fee
New 3 Phase > 5kW	7,000	0
Second Hand 3 Phase > 5kW	500	0
New 3 Phase < 5kW	350	20
Second Hand 3 Phase < 5kW	500	0
Single Phase	350	20

Note: For the companies/importers which are going to register with the Authority within one year of notification of the regulations, the company/firm registration fee shall be waived off. The fee prescribed in column (3) of the table above shall have to be submitted by the companies or firms which shall register with the Authority after one year of notification of these regulations. The Authority may revise the fee subject to change in market price of testing, labeling, and other associated expenses.

SCHEDULE-III

[See regulations 2(x) and 2(xxix)]

Scope & Exclusions

Scope

The regulation applies to the import and offer for sale of three-phase squirrel cage induction motors designed to operate at 50 Hz or 60 Hz, with:-

- a rated output power greater than or equal to 0.12 kW and less than or equal to 1,000 kW; and
- a rated voltage of up to 1000 volts alternating current; and
- 2, 4, 6 or 8 poles; and
- a continuous duty rating.

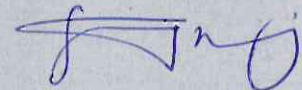
The regulation also applies to the import and offer for sale of single-phase squirrel cage induction motors of all types designed to operate at 50 Hz or 60 Hz with a rated output power greater than or equal to 0.12 kilowatts.

Exclusions

The following motors are excluded from the regulation:

- Motors specified to operate wholly immersed in a liquid;
- Motors that cannot operate as a motor if separated from the driven unit, even if a temporary end shield or a drive end bearing is fitted;
- Motors specified to operate exclusively:
 - at altitudes exceeding 4,000 meters above sea-level;
 - where ambient air temperatures exceed 60°C;
 - in maximum operating temperature above 400°C;

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- (iv) where ambient air temperatures are less than -30°C for any motor or less than 0°C for a motor with water cooling;
 - (v) where the water coolant temperature at the inlet to a product is less than 0°C or exceeding 32°C ;
 - (vi) Motors intended for use in explosive atmospheres and certified as "Ex eb" increased safety motors, as defined in IEC EN 60079-7:2015 (other explosion-protected motors certified as "Ex ec", "Ex tb" or "Ex tc" are however included in the scope of this regulation)
- (d) Brake motors;
- (e) Motors that can run at two or more discrete speeds by using switchgear to reconfigure the connection of the motor's winding or windings to the supply (multi-speed motors). Motors that run at different speeds by means of variable voltage or variable frequency controllers are not excluded;
- (f) A high slip motor designed primarily to provide torque, often at or near 100 per cent slip (torque motor).

SCHEDULE-IV

[See regulation 2(xxiii)]

Product Information

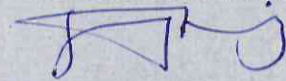
1. For regulated single-phase and three-phase new motors information in points I-XI below shall be visibly displayed on:

- (a) The rating plate of the motor (where the size of the rating plate makes it impossible to mark all the information referred to in point 1, only the nominal efficiency (η) at full rated load and voltage (U_N) shall be marked);
- (b) The technical documentation of motors;
- (c) The technical documentation of products in which motors are incorporated;
- (d) Free access websites of the manufacturers of motors;
- (e) Free access websites of manufacturers of products in which motors are incorporated.

2. In technical documentation the information listed in points I-XI below shall be provided in the order stated. The exact wording used in the list does not need to be repeated. It may be displayed using graphs and/or figures and/or symbols rather than text.

- I. The nominal efficiency at 75% and 100%, of rated load and voltage (U_N);
- II. The efficiency level: IE1, IE2, IE3 or IE4 if meeting the relevant efficiency levels in Annex 1.
- III. The year of manufacture;
- IV. The manufacturer's name or trade mark, commercial registration number and place of manufacturer;

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- V. The product's model number;
- VI. The number of poles of the motor;
- VII. The rated power output(s) or range of rated power output (kW);
- VIII. The rated input frequency(s) of the motor (Hz);
- IX. The rated voltage(s) or range of rated voltage (V);
- X. The rated speed(s) or range of rated speed (rpm);
- XI. information on the range of operating conditions for which the motor is specifically designed:-
 - (a) altitudes above sea-level;
 - (b) ambient air temperatures, including for motors with air cooling;
 - (c) water coolant temperature at the inlet to the product;
 - (d) maximum operating temperature;
 - (e) potentially explosive atmospheres.
 - (f)

3. For tailor-made motors with special mechanical and electrical design manufactured on the basis of client request, the information listed in points 1 to 11 does not need to be published on motor manufacturer's free access website.

4. For regulated second hand the original nameplate shall be used with no additional information required.

Where a name plate has been lost or is damaged to the point where performance information cannot be read, registration shall not be allowed without a full test being undertaken and a new nameplate added. Registration shall then be allowed according to the process for new motors.

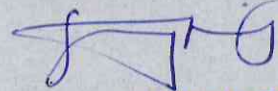
SCHEDULE-V

[See regulations 2(xix) and 5(1)]

Pakistan Energy Label / Security Sticker

1. Upon successful registration but prior to sale of a motor, the Pakistan Energy Label or Security sticker to be issued by NEECA must be attached adjacent to the nameplate for the following motors:-
 - (a) New three-phase motors with ratings $\geq 0.12\text{kW}$ and $\leq 5\text{kW}$
 - (b) All second hand motors with ratings $\geq 0.12\text{kW}$ and $\leq 1000\text{kW}$
 - (c) All new single-phase motors with ratings $\geq 0.12\text{kW}$
2. This security sticker must remain in place until the motor has been collected by, or delivered to, the customer

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SCHEDULE-VI
[See regulations 7(7) and-8(5)]
Penalties for Non-Compliance

Sr No.	Non-Compliance Related to	Penalties(Rs.)
(1)	(2)	(3)
1	Pattern/design of label	100,000
2	Validity of authorization of label users	100,000
3	Label contents	200,000
4	Manner of display of label	150,000
5	Verification test failure	1,500,000
6	Manufacture/assemble, sale and import without getting registered	2,000,000

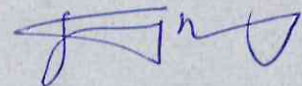
SCHEDULE-VII
[See regulations 2(xix) and 4(10)]
Star Rating Band

Table 1: New Three-Phase New Motors with ratings $\geq 0.12\text{kW}$ and $\leq 5\text{kW}$

	Phase 1 1 January 2024	Phase 2 1 July 2025	Phase 3 1 January 2027
	Mandatory Registration & Labeling	Mandatory Registration & Labeling	Mandatory Registration & Labeling
Label Category			
	Motors registered as IE4 or above	Motors registered as IE4 or above	Motors registered as IE4 or above
	Motors registered as IE3	Motors registered as IE3	Motors registered as IE3
	Motors registered as IE2	Motors registered as IE2	Motors registered as IE2
2 Star	Motors registered as IE1	Motors registered as IE1	Not used
1 Star*	Registered only	Not used	Not used

* 1 Star will be equivalent to the MEPS

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Table 2: New Three-Phase New Motors with ratings > 5kW and ≤ 1000kW

	Phase 1 1 January 2024	Phase 2 1 July 2025	Phase 3 1 January 2027
MEPS	the efficiency of a motor may not be below IE1	the efficiency of a motor may not be below IE2	All items as Phase 2
	Mandatory Registration & Labeling	Mandatory Registration & Labeling	
Label Category	Motors registered as IE4 or above	Motors registered as IE4 or above	
	Motors registered as IE3	Motors registered as IE3	
	Motors registered as IE2	Motors registered as IE2	
2 Star	Motors registered as IE1	Not used	
1 Star	Not used	Not used	
* 1 Star will be equivalent to the MEPS			

Table 3: All Second Hand Motors supported by test reports with ratings ≥ 0.12kW and ≤ 1000kW

	Phase 1 1 January 2024	Phase 2 1 July 2025	Phase 3 1 January 2027
MEPS	No MEPS	the efficiency of a motor may not be below IE1	the efficiency of a motor may not be below IE2
	Mandatory Registration & Labeling*	Mandatory Registration & Labeling	Mandatory Registration & Labeling
Label Category	Motors registered as IE4 or above	Motors registered as IE4 or above	Motors registered as IE4 or above
	Motors registered as IE3	Motors registered as IE3	Motors registered as IE3
	Motors registered as IE2	Motors registered as IE2	Motors registered as IE2
2 Star	Motors registered as IE1	Motors registered as IE1	Not used
1 Star	Registered only	Not used	Not used
* 1 Star shall be equivalent to the MEPS			

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Table 4: All Second Hand Motors with assigned IE efficiencies with ratings $\geq 0.12\text{kW}$ and $\leq 1000\text{kW}$

	Phase 1 1 January 2024	Phase 2 1 July 2025	Phase 3 1 January 2027
MEPS	No MEPS	the assigned efficiency of a motor may not be below IE"0"	the assigned efficiency of a motor may not be below IE1
	Mandatory Registration & Labeling*	Mandatory Registration & Labeling	Mandatory Registration & Labeling
Label Category			
	Not used	Not used	Not used
	Motors registered as assigned IE3 (nameplate IE5)	Motors registered as assigned IE3 (nameplate IE5)	Motors registered as assigned IE3 (nameplate IE5)
	Motors registered as assigned IE2 (nameplate IE4)	Motors registered as assigned IE2 (nameplate IE4)	Motors registered as assigned IE2 (nameplate IE4)
2 Star	Motors registered as assigned IE1 (nameplate IE3)	Motors registered as assigned IE1 (nameplate IE3)	Motors registered as assigned IE1 (nameplate IE3)
1 Star	Registered only	Motors registered as assigned IE"0" (nameplate IE2)	Not used

* 1 Star shall be equivalent to the MEPS

Table 5: New Single-Phase Motors with ratings $\geq 0.12\text{kW}$

	Phase 1 1 January 2024	Phase 2 1 July 2025	Phase 3 1 January 2027
	Mandatory Registration & Labeling*	Mandatory Registration & Labeling	Mandatory Registration & Labeling
Label Category			
	Motors registered as IE4 or above	Motors registered as IE4 or above	Motors registered as IE4 or above
	Motors registered as IE3	Motors registered as IE3	Motors registered as IE3
	Motors registered as IE2	Motors registered as IE2	Motors registered as IE2
2 Star	Motors registered as IE1	Motors registered as IE1	Not used
1 Star	Registered only	Not used	Not used

* 1 Star shall be equivalent to the MEPS

[No. IND/GAZETTE/REGULATION/MOTOR/2403-001.]

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