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**PRODUCT CERTIFICATION SCHEME FOR ELECTRICAL EQUIPMENT****1. Objective:**

This procedure describes the criteria implemented by RACS as Notified Body of Emirates Authority of Standardization and Metrology (ESMA) to assure that **Electrical Equipment** intended for certification with ESMA are complying the relevant mandatory schemes and applicable standards.

Furthermore, this document identifies the steps taken by RACS Clients (manufacturers, traders, importers, retailers, business owners or any other client) to get their products/processes certified prior to its commercializing in the market and registered by through RACS Quality Certificates Issuing Services as ESMA Notified Body by issuing certificates of conformity in accordance with ESMA Regulations.

**2. Definitions:**

**ESMA:** Emirates Authority for Standardization and Metrology

**RACS:** RACS Quality Certificates Issuing Services

**Scheme:** Certification system related to specified products, to which the same specified requirements, specific rules and procedures apply.

**Certification:** Third-party attestation related to products, processes, systems or persons.

**Notified Body:** a conformity assessment body designated by ESMA to conduct conformity assessment process on products and processes in accordance with related schemes/standards/regulations mandated by ESMA.

**Conformity Certificate:** Formal document issued by RACS as notified body under approval of ESMA stating that certification is being granted for the product/process in accordance with applicable scheme/standards as per ESMA Requirements.

**3. Responsibility:**

It is the responsibility of RACS as ESMA Notified Body to establish and maintain the appropriate system to satisfy both ESMA and client's requirements in accordance to the notification system mandated by ESMA.

It is the responsibility of ESMA clients and RACS clients to provide all needed requirements as per ESMA Notification system to ensure their products compliance to the applicable schemes and standards.

**4. Introduction about RACS Notified Body to provide Certification:**

RACS is an accredited certification body and ESMA approved Notified Body under its notification system mandated by UAE Decree No. (35) of the year 2015 and UAE Cabinet Resolution No (36).

RACS is an authorized conformity assessment body by ESMA that it is technically competent to perform the specific tasks of certification to ESMA clients.

**5. Service Type:**

As per Scheme owner rules, RACS certifies Electrical–Equipment and issues Certificate of conformity under:

**Product Certification-Emirates Conformity Assessment Scheme (ECAS):** ECAS is a Product certification Scheme being implemented by the (ESMA) as mandated by the Federal Law 28 of 2001.

**Full Quality Assurance-Emirates Quality Mark (EQM):** EQM is a mark of conformity granted to the products that can demonstrate compliance with the relevant UAE National Standards, Regional and/or International Standards and are manufactured by an organization implementing an effective Quality Management System to ensure continuous compliance. The process of achieving the license to use the Emirates Quality Mark involves a comprehensive evaluation of the product as well as the quality system used by the manufacturer in production through testing, inspection.

Issuance of certificate of conformity by RACS as ESMA's Notified Body assures the compliance of products/production process with the requirements of the approved schemes, standards and others specified in the technical regulation by Emirates Authority for Standardization and Metrology (ESMA).

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**6. Scope of certified products by RACS–ESMA Notified Body: Refer to EGA/REC/30 Electrical Equipment Database (attached below) which covers the following scopes:**

Reference	Scope
1.1	<a href="#">LVE-Electrical Products</a>
1.2	<a href="#">LVE with EESL</a>
1.3	<a href="#">Cables and Wires</a>
1.4	<a href="#">Lighting Products</a>
1.5	<a href="#">Water Fixtures</a>
1.6	<a href="#">Hoverboards</a>
1.7	<a href="#">Automatic Doors and Windows</a>
1.8	<a href="#">Telecommunication Cables</a>
1.9	<a href="#">RoHS</a>
1.10	<a href="#">ECAS Ex</a>
1.11	<a href="#">Solar PV Systems</a>

**7. Mandatory Schemes, Applicable Standards and Requirements for Certification**

Mandatory schemes, applicable standards and requirements vary depending on the scope of certified products; Each equipment may have a distinct regulation as mandated by the scheme owner (ESMA) and therefore has different schemes, standards and requirements. Please see attached below for the complete list.



Electrical  
Equipment Data Bas

**7.1 Legal Agreements:**

- RACS/Ag/01: Certification Agreement
- RACS/Ag/03: Non-Disclosure Agreement
- RACS/Ag/10: General Conditions for Certification Services (signed 1 time by the client)

**7.2 Fees** as detailed in RACS Schedule of Fees (RACS/REC/46).

**8. Certification Procedures:**

Based on its role as ESMA Notified body, Procedure will be performed as follows:

**In general, RACS performs the following Conformity Assessment Procedures:**

**9.1. Preparatory Steps:**

- 9.1.1. **Application Form (Refer to table 9-A for the list of application forms below for each applicable scope)** shall be submitted by applicant to RACS, submission can be done via RACS convenient communication methods (mail, emails, hard copy, website, E-System).
- 9.1.2. Sales and Marketing Executive/Administrative Assistant will review it to check documents availability on a primary basis.
- 9.1.3. A **quotation (RACS/REC/20 Certification Quotation)** will be sent to the applicant by Head of Sales and Marketing Department; containing the scope of certification and fees related to each step of the certification process.
- 9.1.4. Payment shall be done by the applicant.

**9.2. Application Review**

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**9.2.1.** Upon acceptance of quotation by client, he is requested to sign the **General Conditions for Certification Services (RACS/Ag/10)**.

**9.2.2.** Application along with related supportive documents will be received by RACS Conformity Manager who shall assign one of RACS technical team members (Conformity Officer- (Evaluator or Conformity Officer)).

### **9.3. Application Evaluation**

**9.3.1.** Conformity Officer (Evaluator or Conformity Officer) shall perform conformity assessment (Evaluation) steps related to the certification scheme:

#### **Product Certification-Type Approval**

- Detailed documents review for all the documents
- Document review includes the checkup for Test Reports parameters and results, done by 3<sup>rd</sup> party Laboratory according to the specific technical regulations and applicable standards.
- Evaluation of product the eligibility of the product for certification to assure compliance according to applicable schemes and standards.

*Refer to EGA/REC/30 Electrical Equipment Database for additional notes for evaluation.*

Note: No. of samples to be selected for testing is defined by the specific technical requirements and as per scheme owner.

**9.3.2.** Evaluation outcome results:

- If the evaluation is pending for missing or invalid documents or other needed information to complete evaluation; additional supportive documents will be requested from the applicant.
- The evaluation includes Product Safety Verification through test reports provided on all safety test parameters requested by applicable scheme/standards, test reports shall be issued by 3<sup>rd</sup> party accredited laboratory sub-contracted according to the approved standards and applicable technical requirements.
- If test reports are not complying with standards; Evaluator/Conformity Officer requests rectification of the non-complying aspects, then based on applicant confirmation of rectification, collection of samples will be done to conduct the same laboratory tests again and for once.
- Evaluation will be repeated upon applicant re-submission of needed documents/information.
- Evaluation will be documented using an **Assessment Checklist (Refer to table 9-A for the list Assessment Checklists below for each applicable scope)**.

#### **Onsite Factory Assessment**

- Upon completion of required interventions, Conformity Officer in charge should contact the Applicant/Trader for any missing/lacking required documents to complete the process.
- The Conformity Officer in charge will also be the one to confirm the dates by completing the **Audit Schedule Form (RACS/REC/13)** of the Factory Assessment Dates/Audits as per the requirement of the standards and availability of the Conformity Officer and Auditee.
- The Conformity Officer in charge will do the **Audit Plan (RACS/REC/45)** as he confirmed the audit dates.
- Factory Assessment will commence once all the required documents have been evaluated, all necessary documents will be forwarded to the Conformity Officers who will be in charge with the Factory Assessment.
- During the Audit, the 1<sup>st</sup> Conformity Officer will be auditing Factory Compliance as per Quality Management System, while the 2<sup>nd</sup> Conformity Officer will be auditing as per the technical safety requirements of the standard for the product applied using the **Evaluation Report (RACS/REC/12)**. Additional Assessment Checklists may be required to be filled in by the Conformity Officer depending on the applicable standards of the product being certified. **(Refer to table 9-A for the list Assessment Checklists below for each applicable scope)**.
- On-Site Audit to the facility where the product is being manufactured to assure the quality management system adopted in full compliance with applicable standards and technical regulations.

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Once all corrective actions are fulfilled, the Conformity Officer will complete evaluation report (**RACS/REC/12**) summary in evaluation report and shall raise the final evaluation report with his recommendation to the Conformity Manager (or his delegates) for certification review step of the products/facility intended for certification, recommendation is either:

- ✓ Either recommending approval of certification by Issuance of Certificate of Conformity; or
- ✓ Recommending rejection of certification by issuing **Final Decision Letter (RACS/REC/71)**.

**9.4 Certification Review**

Conformity Manager or his delegates will perform certification review to verify Conformity Officer (Evaluator or Conformity Officer) recommendation by checking if assessment checklist/evaluation report content is found satisfactory along with complete review for the whole application and supportive documents, and then grant the final recommendation to the Certification Decision Committee. If the review and the certification decision are completed concurrently in the Decision Committee, they shall proceed with the decision after certification review is done.

**9.5 Decision of Certification:** Upon submission of this information, and as per the result of documents review and completing product evaluation process,

**9.5.1 Recommendation of approval of Product certification:** Product evaluation shows full compliance with applicable schemes/standards:

- Certification decision will be done by Decision Committee
- Granting the issuance of Certificate of conformity, recognized by scheme owner (ESMA)
- Certified Products will be listed in RACS **Certified Products Registry (RACS/REC/30)**.

**9.5.2 Recommendation of rejection of Product certification:** Product evaluation shows non-compliance with applicable schemes/standards, due to any reason preventing product from Certification:

- Rejection decision will be done by Decision Committee
- RACS will inform client/ESMA by an Official rejection statement (Letter of certification Status) by e-mail stating the reason of rejection

This is being documented by completing the Certification Decision Record;

**RACS/REC/99 Certification Decision for Product Certification-Documents Review and RACS/REC/100 Certification Decision for Onsite Audit.**

**Table 9.A Specific Forms**

*\*Assessment Checklist may differ depending on the product being evaluated, specific standards of each equipment may apply.*

Scope	Application Form	Assessment Checklists	
		Product Certification	Full Quality Assurance
<u><a href="#">LVE-Electrical Products</a></u>	<u><a href="#">EGA/REC/06</a></u>	<u><a href="#">EGA/REC/01</a></u>	<u><a href="#">EGA/REC/13</a></u> <u><a href="#">EGA/REC/14</a></u>
<u><a href="#">LVE with EESL</a></u>	<u><a href="#">EGA/REC/06</a></u>	<u><a href="#">EGA/REC/01</a></u>	
<u><a href="#">Cables and Wires</a></u>	<u><a href="#">EGA/REC/06</a></u>	<u><a href="#">EGA/REC/01</a></u>	<u><a href="#">EGA/REC/13</a></u> <u><a href="#">EGA/REC/14</a></u>
<u><a href="#">Lighting Products</a></u>	<u><a href="#">EGA/REC/06</a></u>	<u><a href="#">EGA/REC/01</a></u>	<u><a href="#">EGA/REC/13</a></u> <u><a href="#">EGA/REC/14</a></u>
<u><a href="#">Water Fixtures</a></u>	<u><a href="#">WFX/REC/02</a></u>	Refer to <u><a href="#">RACS/REC/01</a></u> <u><a href="#">QML</a></u>	
<u><a href="#">Hoverboards</a></u>	<u><a href="#">SCO/REC/01</a></u>		<u><a href="#">SCO/REC/16</a></u>
<u><a href="#">Automatic Doors and Windows</a></u>	<u><a href="#">ADW/REC/02</a></u>	<u><a href="#">ADW/REC/12</a></u>	
<u><a href="#">Telecommunication Cables</a></u>	<u><a href="#">DCC/REC/02</a></u>	Refer to <u><a href="#">RACS/REC/01</a></u> <u><a href="#">QML</a></u>	
<u><a href="#">RoHS</a></u>	<u><a href="#">RoHS/REC/02</a></u>	<u><a href="#">RoHS/REC/08</a></u>	
<u><a href="#">ECAS Ex</a></u>	<u><a href="#">IECEX/REC/02</a></u>	<u><a href="#">IECEX/REC/06</a></u>	<u><a href="#">IECEX/REC/05</a></u>
<u><a href="#">SOLAR PV</a></u>	<u><a href="#">EGA/REC/06</a></u>	<u><a href="#">PVS/REC/01</a></u> <u><a href="#">PVS/REC/02</a></u> <u><a href="#">PVS/REC/03</a></u>	<u><a href="#">EGA/REC/13</a></u> <u><a href="#">EGA/REC/14</a></u>

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		<a href="#">PVS/REC/04</a> <a href="#">PVS/REC/05</a>	
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**Table 9-B General Forms**

TITLE OF DOCUMENT	IDENTIFICATION
<b>Quality Master List</b>	RACS/REC/01
<b>Certification Agreement/RACS Quality- Client</b>	RACS/AG/01
<b>NDA/RACS Quality - Client/Subcontractor</b>	RACS/AG/03
<b>General Conditions for Certification Services</b>	RACS/AG/10
<b>List of Certified Products</b>	RACS/REC/30
<b>Schedule of Fees</b>	RACS/REC/46
<b>Certification Quotation</b>	RACS/REC/20
<b>Audit Schedule Form</b>	RACS/REC/13
<b>Audit Duration Plan</b>	RACS/REC/45
<b>Evaluation Report</b>	RACS/REC/12
<b>Certification Decision-Product Certification</b>	RACS/REC/99
<b>Certification Decision-Onsite Audit</b>	RACS/REC/100
<b>Final Decision Letter</b>	RACS/REC/71

**10. Uploading of Certificates in ESMA system:**

As a Notified Body, it is the responsibility of RACS to transfer the information to the scheme owner by uploading the Certificate of Conformity and other relevant documents in the scheme owner's (ESMA) online portal. The steps after the Certification Decision (only when recommendation is approved) are as follows;

- a) Upon receiving the approval of the Decision Committee, the file should be given back to the responsible Conformity Officer.
- b) The CO shall communicate with the Accounts Department to arrange for the payment in ESMA portal.
- c) When the payment is posted, the CO shall be able to retrieve the certificate no. and QR code from ESMA portal.
- d) The Conformity Officer shall assign a Conformity Assistant to prepare the draft certificate. Along with this, the Conformity Officer shall provide correct and accurate information to the Conformity Assistant.
- e) The draft certificate should be sent to the client for their confirmation. Once it is confirmed, final certificate shall be shared to the client.
- f) The Conformity Assistant should then upload the certificate in ESMA portal including the product list that should contain the necessary information such as model no., barcode, brand name, product description, country of origin, report no., applicable standard, etc.

**Notes for clients:**

- For some scopes where it is required to have a quality system available, clients seeking to be certified for any of their (products or services or facility/process) to schemes and applicable standards through RACS are requested to implement relevant Quality System including documentation in a way to meet all requirements of this standard and all relevant specific standards depending on the nature of service (certified product & process).
- Client seeking extension or renewal of certification scope shall as well submit the application form specifying the extension or renewal of the Certification scope.
- Whenever applicable, additional certification requirements per certification schemes: Legal & Quality documents (such as Client Quality Manual) and supportive documents (records and checklists used by applicant), are to be attached to the application form.

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**PRODUCT CERTIFICATION SCHEME FOR ELECTRICAL EQUIPMENT****11. Renewal:****Product Certification**

Validity of certificate is one year, Certificate of Conformity (CoC) should be renewed 2 months prior expiry.

**Full Quality Assurance Certification**

Validity of certificate is three years and shall be renewed two months prior to expiry.

**12. Process Map:**

Product Certification:



Product  
Certification.pdf

Full Quality Assurance:



Full Quality  
Assurance.pdf

**13. Market Monitoring:**

RACS will be conducting Market Surveillance campaigns in the local markets to assure continuous compliance of certified products and inform Scheme owner on the immediate basis on the non-conformity products to take the appropriate action.

**14. Sampling Procedure:** Please refer to RACS/SOP/21 Sampling Procedures.

**15. Acceptance of Conformity Assessment Results:** Please refer to RACS/SOP/23 Pre-Certification Procedures

**16. Outsourcing of the conformity assessment activities:** Please refer to RACS/SOP/06-Sub-contractors Qualifications & Competence Evaluation Criteria

**17. Complaints and Appeals:** Please refer to RACS/SOP/07 Complaints Handling Procedure

**18. Licensing and Control of the Mark:** Please refer to RACS/SOP/01 Procedure of Control the Use of RACS Quality License, Certificate and Mark of Conformity & Scheme Owner's Certificates and Mark of Conformity

**19. Surveillance:** Please refer to RACS/SOP/24 Post Certification Procedures.

**20. Non-conforming products:** Please refer to RACS/SOP/24 Post Certification Procedures

**21. Reporting to the scheme owner-**Please refer to RACS/SOP/39 Dissemination of Significant Information to the Scheme Owner and Other Concerned Parties.

**22. Subcontracting of the operation of the scheme-**Please refer to the relevant scheme.

**23. Marketing-**Please refer to RACS/SOP/72 Marketing Policies and Procedures.

**24. Fraudulent claim of certification-** Please refer to RACS/SOP/01 Procedure of Control the Use of RACS Quality License, Certificate and Mark of Conformity & Scheme Owner's Certificates and Mark of Conformity.

**25. References:**

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- ISO/IEC 17065, Conformity Assessment - Requirements for bodies certifying Products, Processes and services.
- ISO/IEC 17021, Conformity Assessment — Requirements for bodies Providing audit and Certification of management systems.
- ISO 9001:2015 Quality Management Systems
- GAC Document: FAD- 4.0: Supplementary accreditation requirements for Product Certification Bodies.
- R307: General Requirements Accreditation of ISO /IEC 17065 Product Certification Bodies
- IAF Mandatory Document: Determination of Audit Time of Quality and Environmental Management System.
- ISO/IEC 17000, Conformity Assessment — Vocabulary and general principles.
- ISO/IEC 17020, Conformity Assessment— Requirements for the operation of various types of bodies performing inspection.
- ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories.
- ISO17067, in combination with ISO Guide 28 and ISO Guide 53
- ISO/IEC 17030, Conformity Assessment — General requirements for third-party marks of conformity.
- ISO Guide 23:1982 Methods of indicating conformity with Standards for third-Party certification Systems
- ISO Guide 27:1983 Guidelines for corrective action to be taken by a certification body in the event of misuse of its mark of conformity
- General Requirements for Notified Bodies issued by Emirates Authority for Standardization and Metrology (ESMA).
- RACS Quality Manual RACS/QM/01
- All controlled QMS records-Please refer to RACS/REC/01-Quality Master List.

**Revision History:**

Date	Revision #	Description of Changes
<b>June 14, 2016</b>	00	Initial
<b>Nov 14, 2016</b>	01	Modify. Related forms to include specific list of RACS' Records & SOPs related to the document. Modify List of reference to include the last updated one. Modification to integrate SASO to be applicable for both ESMA and SASO Scope of certification.
<b>May 1, 2017</b>	02	Removed irrelevant standards in the references: GAC document: FAD-12: Supplementary accreditation requirements for Halal Certification Bodies, in addition to applicable scheme and Standards R105: Requirements when referring to A2LA Accredited Status R334: Specific Requirements: HALAL Certification Body Program. UAE. GSO 2055-2 Halal products- Part two: General Requirements for Halal Certification Bodies. Added relevant standards in References: The Emirates Scheme to control Non-Ducted Room Air Conditioners Central Commercial Air Conditioners Window and Split Air Conditioners, No. 34 of year 2014 and UAE Scheme No 17 of the year 2016 The Emirates Scheme to control Electric Storage Water Heater, No. 3 of year 2013 (Module H) No. 12 of year 2014 The Emirates Scheme to control Clothes Washing Machines, No. 10 of year 2013 The Emirates Scheme to control refrigerators, chillers and freezers No 36 of the year 2013. Added the correct and relevant documents for the scope in Related Forms EGA/REC/09 Electrical Products EESL Certificate Template (Previous RACS/REC/85)
<b>February 22, 2018</b>	03	Remove Self -Assessment Checklist in the procedure and replace it to Application form as it has been merged.
<b>June 5, 2018</b>	04	Change from Managing Director to Decision Committee in 9.4. Replaced Operations Manager to Head of Sales and Marketing. Replace Administrative Assistant to Sales and Marketing Executive/Administrative Assistant. Added RACS/Ag/10 General Conditions for Certification Service

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<b>September 2, 2018</b>	RACS/PCS/21/Rev00	Changed the reference number from RACS/SOP/37 to RACS/PCS/21. Added references to be inclined with ISO 17067. Changed Process Map; added reference documents.
<b>October 1, 2018</b>	RACS/PCS/21 to RACS/PCS/10 Rev00	Restructuring of SOPs for all Electrical products.
<b>August 5, 2020</b>	RACS/PCS/10 Rev01	-Add the Solar PV System in the list of Product under this scope.

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