



Pakistan standards & Quality Control Authority (PSQCA)

**Ministry of Science & Technology
Government of Pakistan**



**Presentation
on
Pakistan standards & Quality Control
Authority (PSQCA)**

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1



Pakistan standards & Quality Control Authority (PSQCA)

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Government of Pakistan**



**NATIONAL QUALITY
INFRASTRUCTURE (NQI)
ORGANIZATIONS OF
PAKISTAN**



NATIONAL QUALITY INFRASTRUCTURE (NQI)

- NQI is the totality of institutional framework required to establish and implement standardization, metrology, accreditation and conformity assessment services that are necessary to provide acceptable evidence that products and services meet defined requirements as demanded by the authorities or the market place.



- **Pakistan Standards and Quality Control Authority (PSQCA)**
 - **Standards development**
 - **Conformity Assessment (Testing, Inspection and certification)**
 - **(Implementation of Technical Regulations)**
- **National Physical and Standards Laboratory (NPSL)**
 - **Metrology**
- **Pakistan National Accreditation Council (PNAC)**
 - **Accreditation**

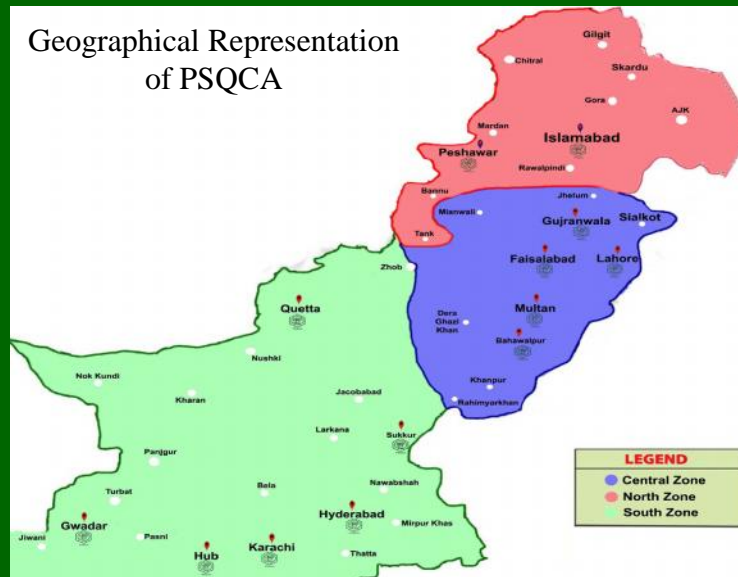
As per International Practices All of these organizations have to be under Federal Government and are presently Operating under the Administrative Control of Ministry of Science & Technology



PAKISTAN STANDARDS AND QUALITY CONTROL AUTHORITY (PSQCA)



Geographical Representation of PSQCA





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Government of Pakistan**



Establishment and Functions of PSQCA

PSQCA as a National Standard Body (NSB) ,established through an Act of Parliament (Act-VI of 1996).

The main functions of PSQCA is to formulate National Standards, Conformity Assessment, Testing of products, Metrology etc.

Enforcement of marks scheme National Standards under compulsory /voluntary certification marks scheme

Inspection and testing of products and services for their quality specifications and characteristics during use and import and export purposes

PSQCA advises the Government on standardization policies, programmes and activities to promote industrial efficiency and development, as well as for consumer protection.



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**Ministry of Science & Technology
Government of Pakistan**



International Membership / Liaison

The PSQCA, being the National Standard Body (NSB) is a member of :

- International Organization for Standardization (ISO),
- International Electro-technical Commission (IEC), and
- International Organization of Legal Metrology (OIML).

The PSQCA has full membership of following Regional Standards Bodies:

- Standards and Metrology Institute for Islamic Countries (SMIIC)
- South Asian Regional Standards Organization (SARSO)
- RISCAM (Ratification in process)

PSQCA is Designated as WTO -TBT Agreement National Enquiry Point (NEP) for implementation of Technical Regulations, Standards & Conformity Assessment Procedures vide Article No. 1.6 and Article No. 10 of TBT Agreement.



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Ministry of Science & Technology
Government of Pakistan



International Affiliation

International
Organization of
Legal Metrology



International
Organization of
Standardization
(P-Membership Status in 65
Technical Committees and Sub-
Committees of ISO & O-
Membership status in 131 T/Cs
& S/Cs)

International
Electro-technical
Commission



(P-Membership Status in 63 Technical
Committees and Sub-Committees of IEC
& O-Membership status in 10 T/Cs & S/Cs)



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Ministry of Science & Technology
Government of Pakistan



Regional Affiliation



South Asian Regional
Standards Organization



The Standards
and Metrology
Institute for the
Islamic Countries



Regional Institute for
Standardization,
Conformity Assessment,
Accreditation and
Metrology (RISCAM)



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Ministry of Science & Technology
Government of Pakistan



STANDARDS DEVELOPED /ADOPTED BY PSQCA

Adopted ISO/IEC/Others standards as Pakistan Standards	=	16058
Developed National Standards	=	6094
Total Technical Committees	=	181 Nos.
National Standards Committees	=	12 Nos.
Total No of Standards Developed/Adopted	=	22152

Note :

Some of the Standards have also been adopted / Harmonized from ASTM, ASME, OIML, BS,SARSO, SMIIC, Codex Alimentarius



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Ministry of Science & Technology
Government of Pakistan



WHO DEVELOPS STANDARDS

Technical Committees and National Standards Committees of experts from a wide range of representative interest groups work to formulate or revise standards.

Committee members represent:

- Consumer and end-user interests;
- Government: Federal and Provincial;
- Commercial and retail interests;
- Research, academic and testing organizations;
- Professional bodies;
- Manufacturers and industry.

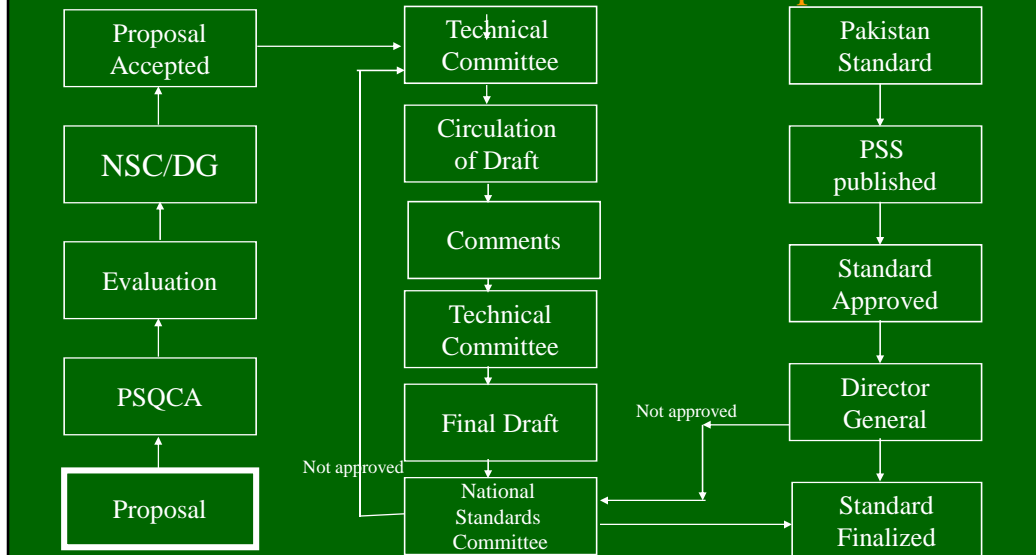


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Process of Pakistan Standards Development



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National Standards Committees of SDC, PSQCA

1. Agriculture & Food.
2. Civil Engineering.
3. Chemical.
4. Electronics
5. Electro technical.
6. Automobile
7. Mechanical.
8. Textile.
9. Weights and Measures.
10. Healthcare
11. Information/Communication Technology
12. Management System



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Government of Pakistan**



S No	Various Divisions/ NSCs	No. Of Technical Committees
1.	Agriculture & Food	22
2.	Civil Engineering	17
3.	Chemical Engineering	20
4.	Electronics	14
5.	Electro-technical	20
6.	Automobile	1
7.	Mechanical	30
8.	Textile	16
9.	Weight & Measures	15
10.	IT/ICT	7
11.	Health Care	4
12.	Management System	15
	TOTAL	181



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**Accredited Testing Facilities 2016
Quality Control Centre (South) PSQCA, Karachi**

S No	Name of Laboratory	No of Accredited Scope (parameters)
01	Building Material Laboratory	08
02	Microbiology Laboratory	07
03	Oil & Fat	03
04	Sugar Testing Laboratory	04
05	Water & Beverages Laboratory (Chemical)	10
	Total	32



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**Ministry of Science & Technology
Government of Pakistan**



Parameters To Be Accredited in 2017 2016 Quality Control Centre (South) PSQCA, Karachi

S. No	Name of Laboratory	No of Scope Parameters
01	Instrumentation Laboratory	06
02	Food Laboratory	04
03	Microbiology Laboratory	05
04	Oil & Fat	05
05	Water & Beverages Laboratory (Beverages Parameters)	02
	Total	22



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**Ministry of Science & Technology
Government of Pakistan**



Accredited Testing Facilities 2016 Quality Control Centre (North) PSQCA, Lahore

Total Parameters Accredited in Water Testing:	16
➤ Parameters Accredited in Bottled Drinking Water:	08
➤ Parameters Accredited in Natural Mineral Water:	08
Parameters to be Accredited:	22
➤ No. of Labs. to be Accredited:	05



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Ministry of Science & Technology
Government of Pakistan



Parameters To Be Accredited in 2017 2016 Quality Control Centre (North) PSQCA, Lahore

Name of Product	Parameters to be Accredited.	No. of Tests	Status.	Name of Lab.
* Edible Oil	Colour, FFA	02	Applied at PNAC	Chemical
* Water.	Enterococci, Feacal, TPC	03	Applied at PNAC	Microbiology
* Food.	Salmonela, Listeria	02	Applied at PNAC	Microbiology
* Steel Bars	Tensile Strength, Yield Strength, Reduction Area, Elongation	04	Applied at PNAC	Mechanical
Milk Powder	Total Ash, Protein, Fat	03	Extension	Chemical
Cement.	Compressive Strength, Water Consistency, Setting Time, Sieve Test, Mass / Density, Fineness	07	Extension	Cement
Cable.	Resistance	01	Extension	Electrical
TOTAL:-		22		



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Ministry of Science & Technology
Government of Pakistan



PSQCA's Global Affiliations

The PSQCA has signed MOU's & MRA's with international organizations for cooperation in Standardization, Quality Assurance/ Management, Product Certification and technical information.

- Mutual Recognition program between PSQCA and SASO, Kingdom of Saudi Arabia.
- Bilateral Agreement between PSQCA and BIS, India.
- MoU signed between PSQCA and ASTM International, USA.
- MoU signed between PSQCA and ANSI, USA.
- MoU signed between PSQCA and BSTI, Peoples Republic of Bangladesh.
- MoU signed between PSQCA and MSB, Mauritius.
- MoU signed between PSQCA and YSMO, Yemen.
- MoU signed between PSQCA and DIN Germany.
- Islamic Republic of Pakistan (PSQCA) and Turkish Standards Institution (TSE).
- Islamic Republic of Pakistan (PSQCA) and Institute of Standards and Industrial Research (ISRI).
- Islamic Republic of Pakistan (PSQCA) and State Committee for Standardization (Belarus).



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Ministry of Science & Technology
Government of Pakistan



LIST OF MOUs IN PROCESS

- Pakistan Standards and Quality Control Authority (PSQCA) and TISI, Thailand
- Pakistan Standards and Quality Control Authority (PSQCA) and (KATS), Korea
- Pakistan Standards and Quality Control Authority (PSQCA) and SIRIMQAS, Malaysia.
- Pakistan Standards and Quality Control Authority (PSQCA) and COSQC, Iraq
- Pakistan Standards and Quality Control Authority (PSQCA) and JSMO Jordan
- Pakistan Standards and Quality Control Authority (PSQCA) and SLSI, Sri Lanka
- Pakistan Standards and Quality Control Authority (PSQCA) and EOS, Egypt
- Pakistan Standards and Quality Control Authority (PSQCA) and SAC, China
- Pakistan Standards and Quality Control Authority (PSQCA) and CEN, European Standards
- Pakistan Standards and Quality Control Authority (PSQCA) and FSSAI, India
- Pakistan Standards and Quality Control Authority (PSQCA) and SASO, Saudi Arabia
- Pakistan Standards and Quality Control Authority (PSQCA) and DGSM Sultanate of Oman
- Pakistan Standards and Quality Control Authority (PSQCA) and Halal Industry Development Cooperation (HDC)
- Pakistan Standards and Quality Control Authority (PSQCA) and Emirates Authority for Standardization and Metrology (ESMA)



Pakistan standards & Quality Control Authority (PSQCA)

Ministry of Science & Technology
Government of Pakistan



Regulatory Domain of PSQCA

1. Enforcement/ Implementation of Mandatory Items as per CA Rules 2011 and PSQCA Act VI 1996. (*presently [108 Items](#) as notified by the Federal Government and same are also notified by the WTO Secretariat)
2. Registration of Inspection Bodies as per PSQCA Act 1996
3. Import / Export regulation as per trade policy order (restricted to the list of Mandatory Items)

*1759 Licensees as on date



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**Ministry of Science & Technology
Government of Pakistan**



STATUTORY PROVISIONS IN RESPECT OF COMPULSORY STANDARDS

Section-14: Powers to prohibit, manufacture, keeping in stock and sale of certain articles.- (PSQCA Act VI 1996)

(1) The Federal Government may, in consultation with the Authority and by notification in the official Gazette, prohibit, with effect from such date as may be specified in the notification, the manufacture, storage and sale of any article specified therein which does not conform to the Pakistan standard.

(2) The Federal Government may, by notification in the official Gazette, require any article which conforms to a particular Pakistan Standard to be marked with such distinctive mark as may be specified in the notification.



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**Ministry of Science & Technology
Government of Pakistan**



TECHNICAL REGULATION

Document which lays down product characteristics or their related processes and production methods, including the applicable administrative provisions, with which *compliance is mandatory*. It may also include or deal exclusively with terminology, symbols, packaging, marking or labeling requirements as they apply to a product, process or production method.

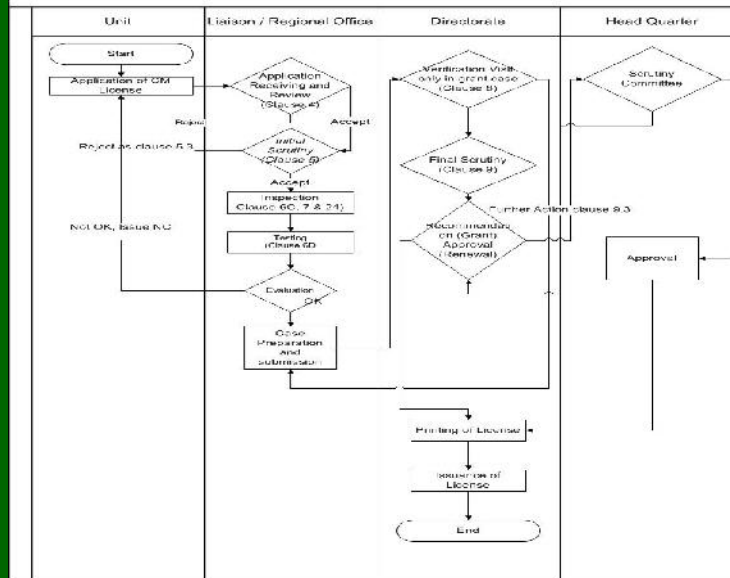
Reference: WTO-TBT Agreement



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Government of Pakistan



FLOW DIAGRAM OF CM LICENSE AS PER CA RULES 2011



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Government of Pakistan



Certification Domain of PSQCA

1. Voluntary Certification services (Product Certification) (on limited scale as it is purely on customers need and requirements
2. System certification



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Ministry of Science & Technology
Government of Pakistan



TBT-Agreement

This agreement is empowered by

Article 1: General Provision.- All products including Industrial and agricultural products, shall be subject to the provisions of this Agreement.

According to the TBT Agreement,

“**articles**” covered under PSQCA Act VI of 1996, Clause 2(c) is responsibility of PSQCA under Section- 8(ii) empowers for monitoring industrial processed products through conformity assessment procedure against standard(s)/technical regulation(s).



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Ministry of Science & Technology
Government of Pakistan



PSQCA Mandate

PSQCA is mandated to monitor the quality of the products through Conformity Assessment Procedure as per Pakistan Conformity Assessment Rules (PCA) under TBT Agreement.

Being a member of International Organizations PSQCA as per 1996 Act. Section 8(xvi) is responsible for “framing and publishing, amending, revising or withdrawal of the Pakistan Standards” in relation to any article, product, process.



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**Ministry of Science & Technology
Government of Pakistan**



National Quality Policy (NQP)

Pakistan National Quality Policy(NQP), has already been prepared and submitted to the Cabinet seeking its approval. Primary objectives of NQP are :

- a. Ensure that goods and services emanating from or traded in Pakistan are designed, manufactured and supplied in a manner that match the needs, expectations and requirements of the purchasers and consumers as well as those of the regulatory authorities in the local as well as in the export markets, and
- b. To contribute to safety around homes, public places and work places and help protect the environment within Pakistan.



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Government of Pakistan**



National Quality Policy NQP

NQP addresses various issues such as increased globalization and its demand on standard & technical regulations, trade as a driver for development and poverty reduction, definitions of the National Quality Infrastructure and Technical Regulation Framework.



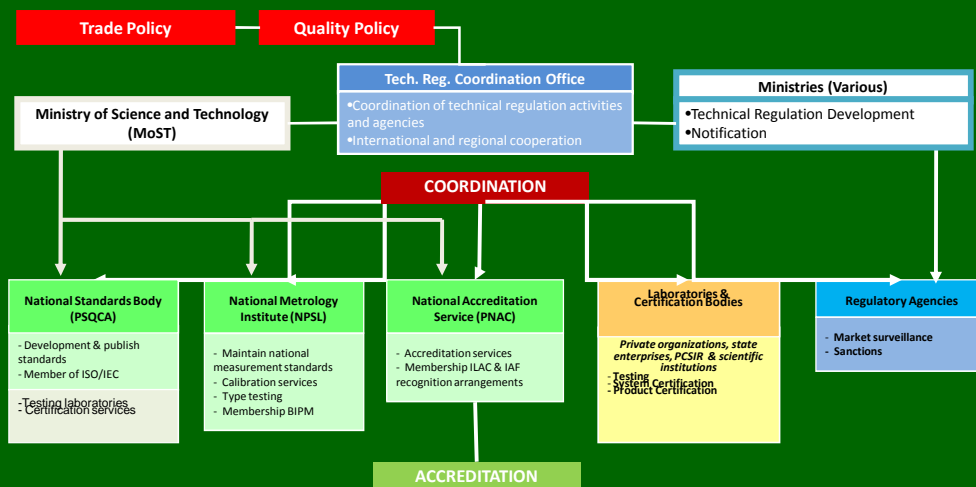
Main Challenges

1. Development and implementation of common Technical Regulation Framework

- Standards, metrology, accreditation → Federal
- Technical Regulations → Federal
- Implementation → Federal/Provincial
- Conformity assessment → Liberalized/Accredited

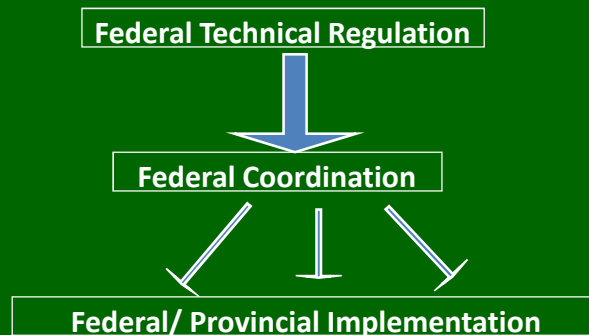


NQI and TR Interfaces





Technical Regulation coordination



33



PSQCA being the National Standard Body, is committed to provide trainings and capacity building on Standards, Technical Regulations and Conformity Assessment Procedures (testing, inspection and product certification) to other Federal/ Provincial Government Departments to Align standards/ Rules/Regulations in compliance with international agreements for the health and safety of public consumers.

Technical experts from Federal/ Provincial Governments should participate in the designated Technical Committee meetings Standards and also participate in the National Coordination Committee on Technical Regulations of PSQCA.



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**Ministry of Science & Technology
Government of Pakistan**



THANKS