



# Global Project Quality Infrastructure - India

## Reducing Technical Barriers to Trade, Enhancing Product Safety, Strengthening Consumer Protection

Quality Infrastructure (QI) describes the system that ensures that user quality expectations and regulatory requirements are met. Well-functioning and internationally coherent national quality infrastructures are important in a world of global value chains. They reduce time, costs, and business uncertainty for firms.

The **Global Project Quality Infrastructure (GPQI)** of the German Federal Ministry for Economic Affairs and Energy (BMWi) facilitates political and technical dialogues with partner countries. Its goal is to reduce technical barriers to trade, enhance product safety, and strengthen consumer protection. The dialogues focus on opportunities and challenges related to standardisation, conformity assessment and accreditation, and market surveillance. They include relevant line ministries, regulators, public agencies, accreditation and standards bodies, industry associations, companies, technical and scientific institutions. The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH – the German Agency for International Cooperation – has been commissioned by BMWi to support the implementation of GPQI in Brazil, China, India and Mexico.



Partner countries of GPQI: Brazil (Brasília), China (Shanghai and Beijing), India (Delhi) and Mexico (Mexico City); Head Quarter: Germany (Berlin)

### The project in India

The Federal Ministry for Economic Affairs and Energy and the Indian Ministry for Consumer Affairs, Food & Public Distribution (MoCA&PD) have established the **Indo-German Working Group on Quality Infrastructure** to strengthen bilateral collaboration. The GIZ project team of the Indian country component of GPQI supports the implementation of the mutually agreed annual work plan of the Working Group. The work plan reflects key areas of the economic relations between both countries. It covers topics ranging from automotive, electric vehicle and charging infrastructure, machinery safety, Industry 4.0, IT security and data protection to market surveillance.



Germany is amongst India's most important partners for trade, investment and technology. The Indo-German Working Group has been playing a significant role in further strengthening the ties by providing a platform for sharing technical knowledge and intensifying dialogue on standardisation, conformity assessment, and product."

Surina Rajan, Director General, Bureau of Indian Standards (BIS)

The project has enhanced interaction among German and Indian stakeholders, including with the Bureau of Indian Standards. Based on this, there is a growing orientation towards international standards like ISO/IEC in India. Over all, the project is immensely supporting the development of standards, technical regulations and conformity assessment procedures across sectors."

Thomas Fuhrmann, Managing Director, TÜV Rheinland India Pvt. Ltd.

Implemented by

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH

“With the help of the project, the interaction among key stakeholders has been stimulated. We are guided to relevant Indian authorities to address concerns. I see that our industry inputs are considered more and more by Indian regulators.”

Manojkumar Belgaonkar, Head of Quality and Project Management,  
Siemens India

“We benefit from the project by receiving important information on technical market access conditions. We are able to build a good network for the exchange of experience and information concerning the Indian market and technical regulations. Our work in this project shall lead to a significant improvement of the legal certainty for our members' activities.”

Irina Messerschmidt, Hermann Wegner, Thomas Noll Mechanical  
Engineering Industry Association (VDMA)

## GPQI-India at a glance

150

Involved partners & stakeholders

100+

Average monthly advisory services for partners & stakeholders

11

Expert workshops on  
1. Market surveillance  
2. Electromobility  
3. Industry roundtables

500

Participants in expert exchanges

9 Topics Covered:  
automotive, electromobility & charging infrastructure, machinery safety, pressurised equipment, Industry 4.0, IT security & data protection, electrical & electronics equipment energy, medical devices

21

Indian policies and technical regulations commented

1. Indian National Strategy for Standards
2. Indian White Paper on data protection
3. Rules based on revised Bureau of Indian Standards (BIS) Act 2016
4. National Automotive Policy
5. Electric vehicle charging standards
6. Automotive standards on emission and safety

32

Supported adoption of ISO standards in India for machinery safety

General | From June 2017 to present

“The Indo-German Working Group on Quality Infrastructure supports trade among Indian and German industry through an enhanced mutual understanding of regulations, standards and conformity assessment procedures. We look forward to a continuation of this forum and the supporting GPQI project.”

Anupam Kaul, Principal & Head – QMS, Institute of Quality,  
Confederation of Indian Industry (CII)

“The project has helped to level the playing field for machinery safety in India. For the first time, comparable standards were introduced. This is actually a game changer since this opens up complete new market segments in India”.

Heinrich Bruellau, COO, Schmersal India Pvt. Ltd.

### Imprint

Global Project Quality Infrastructure  
Country Component India  
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH  
B5/2, 4th Floor, Safdarjung Enclave, New Delhi 110029, India

+91 11 4949 5353  
qi-india@giz.de  
[www.giz.de/en/worldwide/32230.html](http://www.giz.de/en/worldwide/32230.html)

Registered offices Bonn and Eschborn:  
Friedrich-Ebert-Allee 36+40  
53113 Bonn, Germany

Dag-Hammarskjöld-Weg 1-5  
65760 Eschborn, Germany

### URL Reference

For any content of external websites referred to in this publication the respective provider shall always be responsible.

GIZ is responsible for the content of this publication.

August 2018

Commissioned by



Federal Ministry  
for Economic Affairs  
and Energy

# ACHIEVEMENTS



**ANALYSING**  
policies, regulations  
and disseminating  
information



**Published:** study on  
the Indian Quality  
Infrastructure landscape

Companies have greater  
compliance clarity, saving them  
time and costs.

Firms know better how to become  
involved in Indian standards  
development.

A forum to share common experiences on technical  
barriers to trade has been established.

**Organised:** expert exchanges



Understanding of standards development and  
reference models in Industry 4.0 are being enhanced  
by expert exchanges seeing German and European  
firms and regulations in action.

**Arranged:** delegation visits to  
Germany and India for policy  
makers & regulators



**NETWORKING**  
between industry and  
regulators for direct  
exchange



**DEVELOPING**  
solutions for technical  
and regulatory  
challenges



**Researched:** Technical  
challenges of German  
companies in India and  
solutions

Challenges concerning automotive, machinery, medical  
spare parts, electrical equipment were identified and  
solutions proposed.



**Proposed:** Orientation  
towards international  
standards

India's integration into global value chains, and  
consideration of international standards in the  
machinery and automotive and electromobility  
industry were supported.

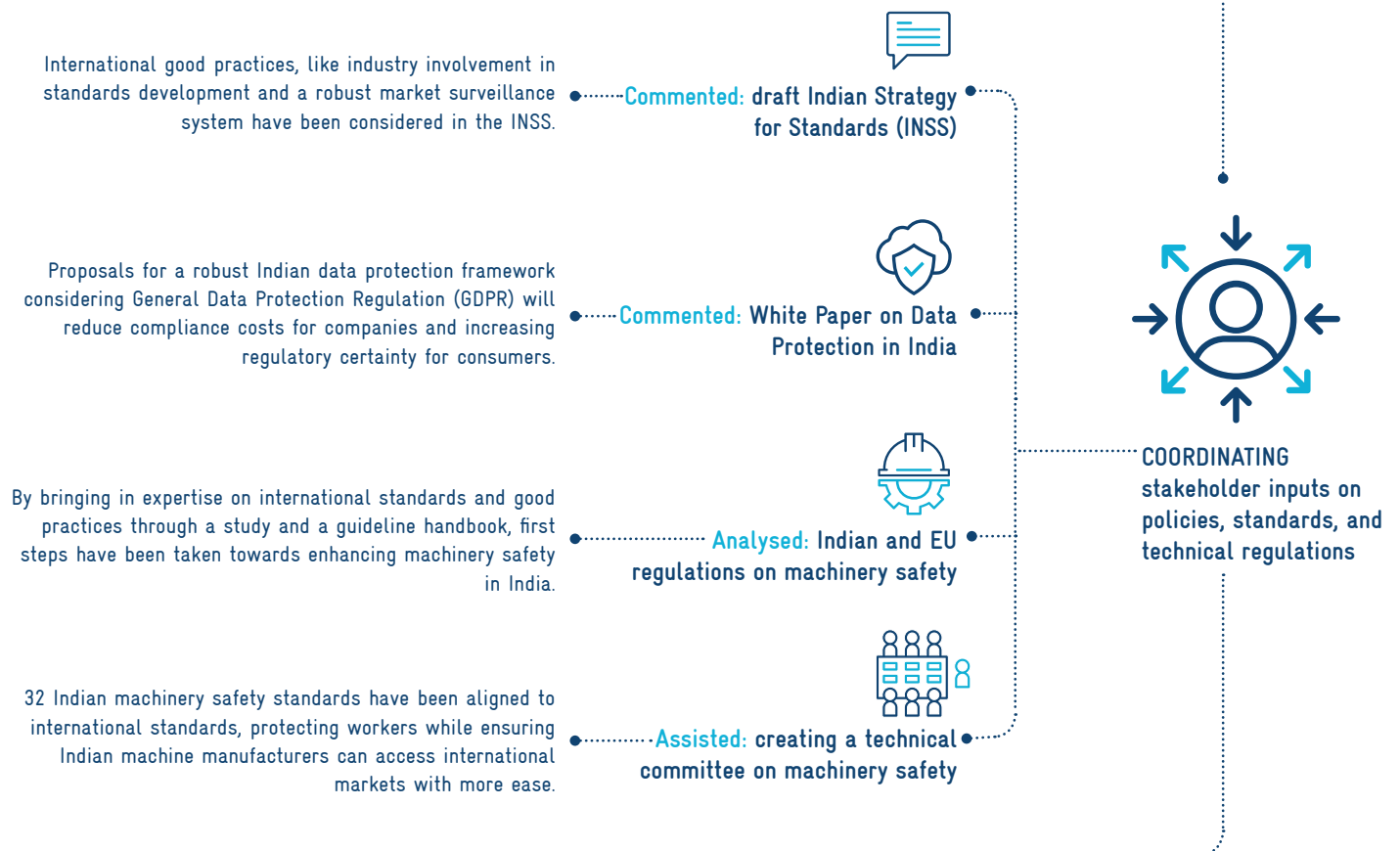


**Informed:** Implications  
of implementation of  
technical regulations on  
short notice

Complications arising through new regulations for  
power semiconductor converters were pinpointed.  
Industry benefited when their implementation was  
deferred by the Indian government.

Regulatory compliance has become easier through  
timely information on upcoming regulations.

Challenges related to regulations for energy efficient  
electric motors were identified and solutions proposed  
which will prevent the same regulatory challenges  
from reoccurring.



**LOOKING AHEAD**  
for trends, opportunities  
and new cooperation  
areas



**Supported:** developing an approach to standardisation in India for Industry 4.0

Standardisation needs are being identified that prepare the ground for new technologies such as Industry 4.0 and Artificial Intelligence (AI).

Indian regulators have signalled openness to using elements of the Reference Architecture Model Industry 4.0.



**Initiated:** cooperation on electromobility standards

German and Indian standards bodies took up joint leadership role at IEC for the development of international electric vehicle standards.

India is considering its electric vehicle charging using elements of the Combined Charging System (CCS). Using CCS will improve electric vehicle and component trade between India and Germany.



**Facilitated:** expert exchanges on creating a robust Indian market surveillance and data protection system to protect consumers

A better understanding of EU risk-based approaches has been achieved among regulators.

Firms have been supported on how to comply to the new EU General Data Protection Regulation (GDPR).