



BACKGROUND INFORMATION U.S. STANDARDS DIRECTORY

U.S.–India Standards and Conformance Cooperation Program (SCCP)

www.StandardsPortal.org/us-indiasccp

PETROLEUM EQUIPMENT (ICS 75.180)

Introduction

Petroleum equipment includes all equipment for the petroleum and natural gas industries, including exploratory, drilling and extracting equipment, processing equipment, and volumetric/measurement equipment.

Feedback from Indian stakeholders in the government and private sector

Activities of GOI ministries in the area of petroleum equipment indicate that the Indian government places a high priority on developments in the sector. Based on feedback from CII, petroleum equipment is an important sector within Indian industry.

Indian standards and regulatory developments

To ANSI's knowledge, there are not currently any draft Indian Standards (IS) pertaining to petroleum equipment in progress. The full list of relevant Indian Standards may be found in [BIS' online catalog](#).

The Indian [Petroleum and Natural Gas Regulatory Board \(PNGRB\)](#) has publicly stated an ambitious goal of developing hundreds of regulations for the petroleum industry (including petroleum equipment) over the next several years. PNGRB has indicated that, to the extent possible, it would like to base these regulations on existing standards that are used by the domestic and international petroleum industry. More information on PNGRB's regulatory authority is available from the PNGRB website (<http://www.pngrb.gov.in/> - click on "About PNGRB" and then "Regulations").

Concentration of Indian SMEs in industry sector

According to the Indian [Ministry of Micro, Small and Medium Enterprises](#), it is estimated that Indian micro and small enterprises account for 39% of the manufacturing output and 33% of the total export of the country. In the petroleum equipment sector specifically, however, there is not a significant concentration of Indian SME's.

Bilateral U.S. – India trade flows

According to the [U.S. Census Bureau's Foreign Trade Statistics](#), the following table lists the total value of Indian exports to the U.S., and U.S. exports to India for the last three years:

Total Petroleum Equipment Sector	2006	2007	2008
U.S. Exports to India	\$136.6 million	\$271.2 million	\$336.3 million
India Exports to U.S.	\$18 million	\$10.2 million	\$13.1 million

The data reflects a steady increase in U.S. exports, with a corresponding decrease in Indian exports for the last three years.

The U.S. Commercial Service listed one element of the petroleum equipment sector – oil and gas field machinery, as a leading sector for U.S. export and investment for 2008¹. According to the India Country Commercial Guide, the outlook for the upstream oil and gas sector is extremely positive, mainly due to the widening gap between demand and supply.

Relationship to U.S. Gross Domestic Product (GDP)

In addition to the trade data listed above, ANSI has prepared information on the contribution of the oil & gas sector to the total U.S. GDP. Information was available through 2007, and data for 2005-2007 is listed in the table below².

	2005	2006	2007
Total U.S. GDP	\$12.4 trillion	\$13.1 trillion	\$13.8 trillion
Value Oil & Gas sector	\$150.5 billion	\$160.6 billion	\$164.7 billion
% of Total U.S. GDP (oil & gas extraction)	1.211%	1.218%	1.193%

Priority placed on standardization within the U.S. sector

The U.S. is highly active in standardization for petroleum equipment. The U.S. holds the secretariat on ISO TC67 (materials, equipment, and offshore structures for petroleum, petrochemical and natural gas industries). In addition, the U.S. also participates on ISO TC58 (gas cylinders), and ISO TC109 (oil and gas burners). U.S.-based standards developers such as the American Petroleum Institute (API), Underwriters Laboratories (UL), CSA America, and ASME are active in developing standards for petroleum equipment, and many of these organizations also offer testing and certification services for petroleum equipment.

¹ India Country Commercial Guide, 2008, U.S. Commercial Service
(http://www.buyusainfo.net/docs/x_5005650.pdf)

² U.S. Bureau of Economic Analysis (<http://www.bea.gov>)