

Water Utility	<p>KARACHI WATER AND SEWERAGE BOARD</p> <p>Address : Block-D 9th Mile Karsaz, Karachi, Pakistan Telephone : (92-21) 923 1882, 923 1883 Fax : (92-21) 923 1814, 923 1815 E-mail : water@cyber.net.pk Head : Brig. Muhammad Bahram Khan, Managing Director</p> <p>The Karachi Water and Sewerage Board (KWSB) is a semi-autonomous body formed in 1983. It manages the water supply and sewerage of Karachi, a city with a population of 10,947,000 people.</p>								
General Data About Water Utility	<p>Connections : 1,283,200 Staff : 8,162 Annual O&M Costs : US\$38,840,820 Annual Revenue : US\$38,840,820 Annual Capital Expenditure : US\$ 8,389,220 Source of Investment Funds : 100% government grant</p>								
Water Resources Management	<p>The Indus River provides about 93% of the city's water supply and the Hub River provides nearly all the remainder, although the supply from this river varies greatly. Groundwater from shallow wells along the alluvial bed of the Malir River also provides a small quantity—less than 1% of the city's water supply. The quality of water from these sources is good and only filtration and chlorination are required before distribution. The National Authority on the Water Distribution of Indus River has been requested to increase the share of Karachi by another 2.5 million m³/day.</p>								
Tariff Structure	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Category</th> <th>Tariff Rate</th> </tr> </thead> <tbody> <tr> <td>Residential</td> <td>Monthly rate is PRs26 (US\$0.43)–787 (US\$12.93) for houses with a ground floor area of 60–2,500 square yards. Each additional floor is charged at 50% of the ground floor rates.</td> </tr> <tr> <td>Flats/Apartments</td> <td>Monthly rate is PRs34 (US\$0.56)–1,141 (US\$18.75) for flats with covered areas of 500 to more than 5,000 square feet.</td> </tr> <tr> <td>Bulk Supply (Metered)</td> <td>Domestic: PRs44/1,000 gallons (US\$0.159/m³) Industrial: PRs73/1,000 gallons (US\$0.264/m³) Commercial: PRs73/1,000 gallons (US\$0.264/m³)</td> </tr> </tbody> </table> <p><i>Notes:</i></p> <ol style="list-style-type: none"> This tariff structure has been in effect since 1 July 2001. Billing is biannual for unmetered consumers and monthly for metered consumers. Only about 0.3% of connections have working meters. Connection fee is US\$2.50 with 2 years advance charges and a security deposit. Sewerage charges are 32.7–37.4% of the water tariff for residential houses, 25.0–37.8% for flats, and 25% for others. 	Category	Tariff Rate	Residential	Monthly rate is PRs26 (US\$0.43)–787 (US\$12.93) for houses with a ground floor area of 60–2,500 square yards. Each additional floor is charged at 50% of the ground floor rates.	Flats/Apartments	Monthly rate is PRs34 (US\$0.56)–1,141 (US\$18.75) for flats with covered areas of 500 to more than 5,000 square feet.	Bulk Supply (Metered)	Domestic: PRs44/1,000 gallons (US\$0.159/m ³) Industrial: PRs73/1,000 gallons (US\$0.264/m ³) Commercial: PRs73/1,000 gallons (US\$0.264/m ³)
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Policy and Regulation	<p>In September 2002, KWSB prepared a draft water policy that includes development of alternative sources, recycling of wastewater, reduction in water losses, asset renewal and expansion, improved services and revenue collection, and cost recovery. Elected bodies at the local and provincial levels work with the provincial government in deciding policy issues and tariff structures. Tariffs, which are regulated by the provincial government, are based on social and political factors rather than cost recovery.</p>								
Wastewater and Sanitation	<p>About 50% of the city population are connected to sewers. Some 5% still use septic tanks. Industries are required to treat their sewage to meet national environmental quality standards before discharging it into city sewers, but only the tanneries in Korangi have installed a treatment plant. About 315 million gallons of sewage is produced daily in the city, of which about 30% are treated by the KWSB sewage treatment plants. The balance is drained to the sea untreated. Investments in sanitation over the last 5 years have mainly been on rehabilitation and expansion of existing trunk and interceptor sewers; upgrading of two treatment plants and installation of a new treatment plant were completed in 1998. Total expenditure during 1997–2001 amounted to US\$10.48 million.</p>								