

INDIA WATER REPORT Jan 2011

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General Provision

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INTRODUCTION

India is the second most populous country in the world. Geographically, it forms the core of the asian subcontinent and has varied terrain ranging from deserts in the west to housing the wettest place on earth – Cherapunji in the east. It is the seventh-largest country in the world, with a total land area of 1,269,219 sq mi. India measures 1,997 mi from north to south and 1,860 mi from east to west. It has a land frontier of 9,445 mi and a coastline of 4,671 mi.

India is bounded to the southwest by the Arabian Sea, to the southeast by the Bay of Bengal and the Indian Ocean to the south. The territorial waters of India extend into the sea to a distance of 13.8 mi measured from the appropriate baselines. The country is fed by a network of rivers, mostly emerging from the Himalayan mountain ranges marking the northern border. Seven major rivers along with their numerous tributaries make up the river system of India. Most of the rivers pour their waters into the Bay of Bengal; however, some of the rivers whose courses take them through the western part of the country and towards the east of the state of Himachal Pradesh empty into the Arabian Sea. Parts of Ladakh, northern parts of the Aravalli range and the arid parts of the Thar Desert have inland drainage. All major rivers of India originate from one of the three main watersheds:

1. The Himalaya and the Karakoram ranges (North and east India)

2. Vindhya and Satpura ranges and Chotanagpur plateau in central India (Central and south India)

3. Sahyadri or Western Ghats in western India (Western India)

The river systems of the north and eastern India India are perennial and have flowing water throughout the year. They originate in the glaciers of the Himalayn ranges and do not depend on the annual monssons for water. The river systems of the west and central region depend on the monsoons for their water and water availability in these varies from year to year and season to season. Apart from these natuarla sources of fresh water, India is also abundantly fed by annual rainfall phenomena – Monsoons. The monssons occur in the country from april every year to end of October and bring water to the whole country. Other sources of water are the ground water reserves, lakes and precipication in the form of snow, dew etc. Despite adequate resources of water, India faces a demand supply mismatch and an impending water crisis.

DEMAND – SUPPLY SITUATION

India is home to 17 percent of the world population while it has only 2.1 percent of the geographic reach. As per the Ministry of Water resources, the total availability of water from all river basins is 1869.35 cu km per year. Of this, the toal usable water is 1170 cu km. The total demand for water is 470 m³ per person per year. The total water availability is 1170 m³ per person per year but actual supply of clean usable water is a fraction of the figure. The table below illustrates the demand supply mismatch and the projections of demand going forward.

Ground Water levels in Ind Per Capita Water Availabil Natural Runoff(surface+Gr	ty		690 cu km 1170m3/pers 1869 cu km	on/yr			
Total Utilisable Water Reso Total Demand	ource		1122 cu km 470 m3/perso	on/year			
FACTORS AFFECTING D 2000 figures 2025 projection 2050 projection	EMAND		Population	1007 1389 1583	Growth (GDP) 463 1763 6735	% Urban Pc 28 37 51	pulation
DEMAND ESTIMATES	2000 2025 2050	Total 680 833 900	Irrigation	605 675 637	Domestic 34 66 92	Industrial 42 101 161	
Values given in BCM Billio	n Cu m						

Water Withdrawl	%age
Irrigation	90
Industrial	5
Domestic	5

INVESTMENT OPPORTUNITIES

The government of India is working towards resolving the situation. Its has allocated 27.6 billion US dollars towarsd the water and sanitation projects in the 11 five year plan. 55% of the investments foreseen under the 11th Plan are to be financed by the central government, 28% by state governments, 8% by "institutional financing" such as HUDCO, 8% by external agencies and 1.5% by the private sector. Local governments are not expected to contribute to the investments. Most of the funding is for projects small and big, targeted towards developing new infrastructure and upgrading existing ones to bring it up to world standards and be able to meet the needs of the growing population as well as the economy. The government is also encouraging public private partnership and innovative forms of project completion like B.O.T - Build, Operate and Transfer; community involvement, international participation etc. Following a list of current and propsed projects in various regions of the country.

PROJECTS				
				Cost(
			. .	\$
	State	Key Players	Country	Million)
Chembarabakkam Water		Tamil Nadu Urban Finance and Development Corporation,		
Treatment Plant	Tamil Nadu/Chennai	Degremont, Anand	France	\$32.12
UMPP Reverse Osmosis		Coastal Gujarat Power Limited, A		ψυ2.12
sea water Plant	Gujarat	Asia	1	\$15.47
				\$115.5
Minjur Desalination Plant	Tamil Nadu/Kattupalli	IVRCL, Befesa	Spain	5
Adityapur Industrial				•
Water Supply Scheme	Jharkhand	IL&FS, Govt of Jharkhand		\$
Gujarat Solid Waste and Composting	Gujarat	World Bank, Gujarat Urban Development Corporation		
Bihar Panchayat	Gujarat	Development Corporation	-	
Strengthening Project	Bihar	IBRD, Gol, Govt Of Bihar	-	
Emergency Tsunami		, ,		\$682.6
reconstruction Project	Tamil Nadu	IBRD/IDA Gol Govt Of TN		0
Andhra Pradesh Water				\$988.9
Sector Improvement	Andhra Pradesh	IBRD/IDA Gol Govt Of AP	-	7 ¢407 5
Dam Rehabilitation and Improvement	Central Government	IBRD/IDA Gol, Min of WR	_	\$437.5 0
Gujarat Urban	Central Government	IBRD/IDA Gujarat Urban	-	\$300.0
Development Program	Gujarat	Development Authority	_	φ000.0 0
Orissa Water Sector]			
Improvement-Mahanadi		IBRD/IDA Gol, Dept of Water		\$300.0
Basin	Orissa	resources, Orissa	-	0
	Tandal			\$435.0
TNUDP - 3 Andhra Pradesh	Tamil Nadu	IBRD/IDA Gol	-	0
Municipal Development				\$350.0
Project	Andhra Pradesh	IBRD/IDA Gol	-	ψ000.0 0
- ,				•

India National Cyclone		IBRD/IDA Department of		\$319.0
Risk Mitigation	Central Government	Economic Affairs	-	ψ313.0 0
Integrated Coastal Zone				\$285.6
Management Private Infrastructure	Central Government	IBRD/IDA Gol	-	7 ¢4 coo
Finace Project	Central Government	IBRD/IDA IL&FS	_	1,600\$1, 00.
Punjab Rural Water	Central Covernment	IDRONDATED O		\$261.4
Supply and Sanitation	Punjab	IBRD/IDA Gol Govt of Punjab	-	0
Andhra Pradesh Rural				¢400.0
Water Supply & Sanitation	Andhra Pradesh	IBRD/IDA Govt of AP	_	\$180.0 0
Karnataka RWSS - 2	Anuma i radesh	IDICD/IDA GOVI OF AF	-	\$180.0
additional financing	Karnataka	IBRD/IDA Gol Govt of Karnataka	-	0
Uttranchal Rural Water				\$224.0
Supply & Sanitation Capacity building for	Uttranchal	IBRD/IDA Govt of Uttranchal	-	0
Industrial Pollution		IBRD/IDA Ministry of		
Management	Central Government	Environment	-	\$75.39
		IBRD/IDA Karnataka Urban		
Karnataka Urban Water Sector Improvement	Karnataka	Infrastructure Developmental		¢51 52
Rajasthan Water Sector	Kamalaka	Finance Corp	-	\$51.53
Restructuring Project	Rajasthan	IBRD/IDA Govt of Rajasthan	-	\$19.00
	-			\$200.0
Urban Poverty Reduction	Madhya Pradesh	ADB Govt of MP	-	0
Rajasthan Urban Infrastructure				\$483.0
Development	Rajasthan	ADB Govt of Rajasthan	-	0
Uttranchal Urban				\$350.0
Uttranchal Urban Development	Uttranchal	ADB, Govt of Uttranchal	-	\$350.0 0
Uttranchal Urban Development North Eastern Region		ADB, Govt of Uttranchal ADB, Gol, Government of	- England	0
Uttranchal Urban Development	Uttranchal Central Government	ADB, Govt of Uttranchal	- England	
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure	Central Government	ADB, Govt of Uttranchal ADB, Gol, Government of England	- England	0 \$231
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program		ADB, Govt of Uttranchal ADB, Gol, Government of	- England	0
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment	Central Government Bihar	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar	- England -	0 \$231 \$150
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program	Central Government	ADB, Govt of Uttranchal ADB, Gol, Government of England	- England -	0 \$231
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant	Central Government Bihar	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka	- England - -	0 \$231 \$150
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project	Central Government Bihar West Bengal Karnataka	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel	-	0 \$231 \$150 \$24 \$112
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project	Central Government Bihar West Bengal Karnataka Maharashtra	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka	- England - - - Japan	0 \$231 \$150 \$24 \$112 \$62
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed -	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel	-	0 \$231 \$150 \$24 \$112 \$62 \$128
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed -	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	-	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed -	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel	-	0 \$231 \$150 \$24 \$112 \$62 \$128
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed -	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	-	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - - Proposed -	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	-	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$128 \$1,361 \$12 \$12 \$87
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - Nagar Dams Project - Proposed - Nagar Project - Proposed - Nagar Project	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	- - Japan - - - - - - - - - -	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$1,361 \$12 \$87 \$287
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - Nagarjuna Sagar Project - Proposed - New Delhi Sewer Project Ganges River Clean-up	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	-	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$128 \$1,361 \$12 \$12 \$87
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - New Delhi Sewer Project Ganges River Clean-up Sardar Sarovar Dam	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir New Delhi	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	- - Japan - - - - - - - - - -	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$128 \$128 \$128 \$12
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - Nagarjuna Sagar Project - Proposed - New Delhi Sewer Project Ganges River Clean-up	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	- - Japan - - - - - - - - - -	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$1,361 \$12 \$87 \$287
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - Nagarjuna Sagar Project - Proposed - New Delhi Sewer Project Ganges River Clean-up Sardar Sarovar Dam Project	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir New Delhi -	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp Tata Steel Govt of AP Govt of India Govt of India Govt of India Govt of India Govt of India Govt of India	- - Japan - - - - - - - - - -	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$128 \$128 \$128 \$12
Uttranchal Urban Development North Eastern Region Urban Development Bihar Urban Infrastructure Development program Haldia Water Treatment Plant Vrishabhavati Valley Project Ghatagar Dams Project - Proposed - - Proposed - - Proposed - Nagarjuna Sagar Project - Proposed - Nagarjuna Sagar Project - Proposed - New Delhi Sewer Project Ganges River Clean-up Sardar Sarovar Dam Project	Central Government Bihar West Bengal Karnataka Maharashtra Maharashtra Maharashtra Orissa Andhra Pradesh Lakshadweep Jammu&Kashmir New Delhi	ADB, Govt of Uttranchal ADB, Gol, Government of England ADB, Govt of Bihar IDFC, Govt of WB Govt of Karnataka Nissho Iwai Corp, Patel Engineering, Fuji Corp	- - Japan - - - - - - - - - -	0 \$231 \$150 \$24 \$112 \$62 \$128 \$128 \$128 \$128 \$128 \$128 \$128 \$12

IOC Treatment Plant	-	IOC, L&T	-	\$51
UPWSRP	Uttar Pradesh Kerala, Madhya Pradesh, Tamil Nadi,	IDA, Gol, Govt of UP	-	\$149
DRIP	Orissa	World Bank	-	

In absolute terms India receives almost twice as much development assistance for water, sanitation and water resources management as any other country, according to data from the Organisation for Economic Co-operation and Development. India accounts for 13 per cent of commitments in global water aid for 2006-07, receiving an annual average of about US\$830 million, more than double the amount provided to China. India's biggest water and sanitation donor is Japan, followed by the World Bank. The Asian Development Bank and Germany are other important external partners in water supply and sanitation. India accepts bilateral aid from five countries (the United Kingdom, the United States, Russia, Germany and Japan). A further 22 bilateral donors channel aid through nongovernmental organisations, United Nations agencies or multilateral institutions such as the European Union, the Asian Development Bank etc. Apart from international agencies and finanical instituions, India also has a robust domestic financial sector which also provides funds for projects. The government also utilises various schemes and grants and subsidies as a means of spurring invetsment in the sector.

AGENCIES INVOLVED

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International	
EBRD	European bank of Reconstruction and Development
ADB	Asian Development Bank
JICA	Japan International Cooperation Agency
WB	World Bank
IBRD	International Bank of Reconstruction & Development
IDA	International Development Agency
IFC	International Finance Corporation
MIGA	Multilateral Investment Guarantee Agency
JBIC	Japan Bank of International Cooperation
UNDP	United Nations Development Agency
USAIDS	United States Agency for International Development
FMO	Netherland Development Finance Company
OECF	Overseas Economic Cooperation Fund
IMF	International Monetory Fund
KfW	Kreditanstalt fur Wiederaufbau
AfD	Agency Francais de Development
EC	European Commission
ICEF	India-Canadian Environmental Facility

Domestic	
FCI	Finance Commission of India
IDFC	Infrastructure Development Finance Corporation
IL&FS	Infrastructure Leasing & Financial Services Ltd
HDFC	Housing Development & Finance Corporation
CBI	Central Bank of India
SBI	State Bank of India
BoB	Bank of Baroda
IFCI	Infrastructure Finance Corporation of India
MOWR	Ministry of Water Resources
MOUD	Ministry of Urban Development
MoEF	Ministry of Envirnoment and Forests
RBI	Reserve Bank of India
CII	Confederation of Indian Industry
FICCI	Federation of Indian Chambers of Commerce and Industry
ASSOCHAM	Association of Chambers of Commerce
ICC	Indian Chambers of Commerce

The areas with the most potential for investment within the water sector are:

- 1. Hydro-energy
- 2. Hydro-informatics
- 3. Infrastructure design
- 4. Management consulting
- 5. Purification and filtration
- 6. Reclamation, recycle and reuse
- 7. Water Distribution

List of Infrastructure and Energy companies in India

Name	Address	Website	Region/ State
IVRCL Patel Engineering	Mihir - 8-2-350/5/A/24/1B, Road Number 2, Banjara Hills, Hyderabad AP Patel Estate, Jogeshwari W, Mumbai 400102, Maharashtra	<u>www.ivrcl.com</u> www.patelengineer ing.in	National National
Jain Irrigation Systems Ltd Larson and Toubro	L&T House, Ballard Estate, P.O Box 278, Mumbai 400001, Maharashtra	<u>www.jains.com</u> www.larsontoubro. com	National National
Ramky GE	Ramky Group, Gulmohar Avenue, Rajbhavan Road, Somajiguda, Hyderabad 500082, AP	www.ramky.com www.ge.com/in	National Global
Jindal Water Infrastructure Limited	Jindal ITF Centre, 28 Shivaji Marg, New Delhi 110015 76 Institutional Area, Sector 32, Gurgaon	<u>www.jindalaquaso</u> <u>urce.com</u>	National South East
Punj Lloyd ION India	122001, Haryana Ion House, Dr. E. Moses Road, Mahalaxmi, Mumbai 400011, Maharashtra	www.punjlloyd.com	Asia
Membranes India		www.membranesin dia.com	National
Chembond Chemicals	Chem Bond Center, EL 71, MDIC, Navi Mumbai 400710, Maharashtra A-161, Sarita Vihar, Near Apollo Hospital, New	www.chembond- drew.com	National
H2O India Lanxess India Henkel India	Delhi 110076	www.H20india.com	National
A&P Intergrated Water Systems	8-13-25/2, Svl Complex, Main Road, Old Gajuwaka, Visakhapatnam – 530026	<u>anvizag@lycos.co</u> <u>m</u>	Regiona I
Acsion Chemicals and Systems Pvt Ltd	179-A, 3rd Floor, Kilokari Maharani Bagh, Ashram, Jeewan Nagar, New Delhi – 110014	acsion@vsnl.net	Regiona I
Genpure Technologies HCC Infra	13/10,2nd Floor,W.E.A. Saraswathi Marg,Karol Bagh New Delhi-110005 Hincon House, LBS Marg, Vikhroli (W) Mumbai – 400083	corpcomm@hccin dia.com energy.helpdesk@ relianceada.com	Delhi Regiona I
Reliance Infra Subhash Projects Sadbhav Engineering GMR Infrastructure	IBC Knowledge Park, Phase 2, "D" Block, 9th Floor, 4/1, Bannerghatta Road, Bangalore - 560 029,		

Karnataka

GVK Infrastructure Alstom Projects India Adani Enterprises Anant Raj Industries

> Gammon house Veer Savarkar Marg, Prabhadevi, Mumbai - 400025

Gammon India Grindwell Norton JaiPrakash Associates www.gammonindia .com

National