Business Initiatives and Opportunities in India in the water sector

Surbhi Sharma
Director EIRC
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• Euro-India Research Centre (EIRC) is a research and management consulting firm based in Bengaluru

• Assist Europe and India in collaboration and partnerships in research and technological development on European Commission’s Framework Programmes and other international, national and regional programmes

• Our services include:
  – Developing Partnerships, Project Management Consultancy, EU FP Awareness Raising, Dissemination & communication, Liaising and Networking & Training & Workshops

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• Focus on the Technology sector between Europe and India / Spain and India.

• Focus on improving the reach & competitiveness of the companies
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  • Networking
  • International expansion
  • Collaborations with Europe

Our services include:

• Advisory services:
  □ Business Strategy Development,
  □ Quality Management and deployment,
  □ Market Entry Strategy
  □ Local Market Knowledge for customisation

• Market Research
Current work in the Water sector

• 3 mid to Large scale projects in Water Sector with European companies in India which are getting executed in this financial year.

• Setting up a JV for a Spanish company.

• Negotiations on a Mega Plant in India.

• Mega Mld Plant in South Asia – Negotiations on

• Desalination Plant Opportunities for our clients

• Exploring a technology licensing agreement in this sector
Current Scenario of water sector in India
Current water Scenario In India

- 2.4 % of worlds area
- 16% of worlds population
- Only 4 % of fresh water available
- Main water resource precipitation (4000km³) + transboundary flows from upper riparian (500km³)
- Effective availability 1869km³
India Second largest water consuming country
Current water Scenario In India

- **Water scarcity Indicator**

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Per capita water availability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1951</td>
<td>361 Million</td>
<td>5177 cubic meters</td>
</tr>
<tr>
<td>2011</td>
<td>1.21</td>
<td>1544 cubic meters</td>
</tr>
</tbody>
</table>

- Reduction of 70% in 60 years
- Water stressed conditions availability <1700 Cubic meters
Challenges In water sectors

- Increasing water demands due to population pressure and urban sprawl
- Industrial growth
- Increasing irrigational and agricultural demands
- Water cycle imbalances and stress
- Over exploitation of water resources
- Water quality for various applications and availability
- Political and regulatory disputes
Indian Water Demand-Supply

Demand Vs Supply Curve in India 1992-2042

Supply

Demand

Billion cubic meter

FY1992 FY2002 FY2012 FY2022 FY2042
1) Where is this graph from?

2) According to this graph, the demand is less than the supply even in 2012, and till around 2040. If this is true, why are there Water shortages and scarcity in each town of India?

Windows User; 06/11/2012
Features of Indian water sector

- Demand and supply side create opportunities
- $30 billion is the size of Indian water market
- 107 $ million private equity in water and wastewater industry.
- Over a period of year investment doubled $107m from $54m in 2010
1) Where are these figures from? A Study? if yes, who has conducted the study?

2) The 30 Billion includes what all in the water sector?

3) Can we have a breakup of the 30 Billion into the various Waer segments (WWTPs, CETPs, STPs, Desalination, Water distribution, etc)
## Water Requirement by different sector

<table>
<thead>
<tr>
<th>Sector</th>
<th>2010</th>
<th>2025</th>
<th>2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation</td>
<td>688</td>
<td>910</td>
<td>1072</td>
</tr>
<tr>
<td>Drinking water</td>
<td>56</td>
<td>72</td>
<td>102</td>
</tr>
<tr>
<td>Industry</td>
<td>12</td>
<td>23</td>
<td>63</td>
</tr>
<tr>
<td>Energy</td>
<td>5</td>
<td>15</td>
<td>130</td>
</tr>
<tr>
<td>Others</td>
<td>52</td>
<td>72</td>
<td>80</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>813</td>
<td>1093</td>
<td>1447</td>
</tr>
</tbody>
</table>

Data from Ministry of Water Resources. All the values in Million KM³
Opportunity segments in Indian water Sector

- **Municipal:**
  - Water supply and sanitation
  - Treatment and Purification
  - Pumping and water transportation
  - Waste water treatment and recycling

- **Industrial/Building/Institutional:**
  - Hotels, hospitals, shopping malls, Apartment complexes
  - Process water treatment
  - Waste water treatment and recycling

- **Residential:**
  - Home Purifiers
  - Bottled Water
Drinking water Sector Bottling Industry

- Synonym: Bisleri
- Bisleri first bottled water marketed by Parle in India
- More than 200 brands available in India
- Major national and international players includes: Coca-cola, Pepsi, Nestle, Mount Everest, Manikchand, Kingfisher, Himalayan etc.
- Bottled water has penetrated deep in rural areas
- No Longer a luxury, readily available
Major drivers

- Increased Health Consciousness
- The deteriorating quality of water, and increased disposable
- As per the report, the sale of bottled water grew from $189 million (USD) in 2003 to $599 million in 2008, a growth rate of 216 per cent and likely to be 500 percent in 2013
- India is being seen as one of the fastest growing bottled water markets in the world.
- India ranked third for water pollution
- Reduced the availability of potable water
- Heightened scope for water market
- Overall Indian water and wastewater market valued over 9 billion Euros
- Treatment market being the most attractive segment at 1 billion Euro
1) In India, what are the main contaminants for water pollution?

2) the 2nd bullet - does it read right? "from Agricultural farm"?

3) Please convert the Crores into Euros
Indian and International Players in market

Indian Companies scoring over equipment Prices

Scope for hi-tech water treatment plants design and technology

Opportunities for SMEs

- in installation/ commissioning and servicing of water treatment plants
- huge unbranded water purifier market of filters, UV and RO systems
- Design and engineering consulting for water projects
Investment in the Sector

11th Plan investment Summary in Water Sector

- Center: 29%
- State: 67%
- Private: 4%
### Water Supply Sector

**Urban water supply investment requirement period 2012-31**
- Water supply sector: INR 3.2 trillion
- O&M Cost: INR 5.46 Trillion
- Overall: 8.67 Trillion

**JNNURUM Investments 2007-12**
- 536 INR Billion
- Stipulates priority to private participation

**UIDSSMT investments 2007-12**
- 60 INR Billion

**ARWSP investments 2007-12**
- 130 INR Billion
Opportunity across the value Chain

- Water
  - Fresh/ground water collection
  - Fresh/ground Treatment
  - Desalination Plant

- Distribution & Supply
  - Supply To Municipality
  - Supply to Industries

- Sewage & Sanitation
  - Waste water collection, treatment and Disposal

- Others
  - Irrigation
  - Water purification
  - Bottled water
  - Bore wells

Developer → O&M → Equipment Supply
Market Structure

- **Market Share**
  - **Large Player (15)**: 30% (600-650 USD Million)
  - **Medium Players (200-250)**: 50% (1000-1050 USD Million)
  - **Small Players (600-650)**: 20% (400-450 USD Million)

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EU-India STI Cooperation Days
8-9 November 2012
Hyderabad

Catalyst for Euro India Research
## Major Player in Indian water Sector

### International
- Acciona Agua
- Befesa-Acqua
- Cascal
- Hydro-comp
- Manila Water
- Metito Berlinwasser
- NWSC
- Ranhill
- Salcon
- Suez
- Veolia

### Domestic
- Infrastructure Leasing and Financial Services (IL&FS) Water
- Ion Exchange
- IVRCL Ltd.
- Jain Irrigation
- Jamshedpur Utilities & Services Company (JUSCO) Ltd.
- Jindal Water Infrastructure Limited
- JMC Projects
- L&T Ltd.
- Mahindra Infrastructure Developers
- Nagarjuna Construction Company Ltd.
- Pratibha Industries
- Ramky Infrastructure
- Shriram EPC
- SPML Limited
- Tatva Global Water Technologies
- Vishwa Infraprojects
Thank You

surbhi@euroindiaresearch.org