



# TOSHIBA

Toshiba Water Solutions Group

## **Thought Leaders in Water & Wastewater Solutions**

# Toshiba Water Solutions Group Overview



1

Leading water and wastewater treatment firm with over 4 decades of experience

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2

Providing design, turnkey and O&M services  
Strong technical knowhow (engineering design)  
>90% revenues from turnkey services

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3

Strong pre-qualifications in the key opportunity areas  
Hydrocarbon segment, power, steel, municipal  
Experience in multiple industries across multiple geographies

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4

International company with offices in 5 countries  
India, Oman, Philippines, USA and Trinidad & Tobago  
Group company of Toshiba Corporation and Toshiba Infrastructure Systems & Solutions Corporation, Japan

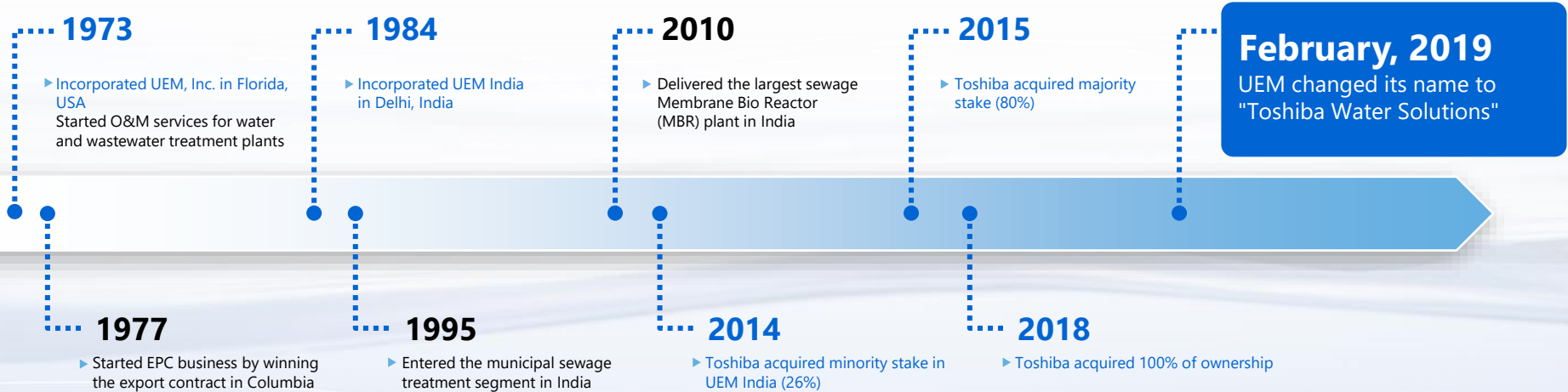
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5

Active in water and wastewater  
Completed over 400 installations in 35 countries

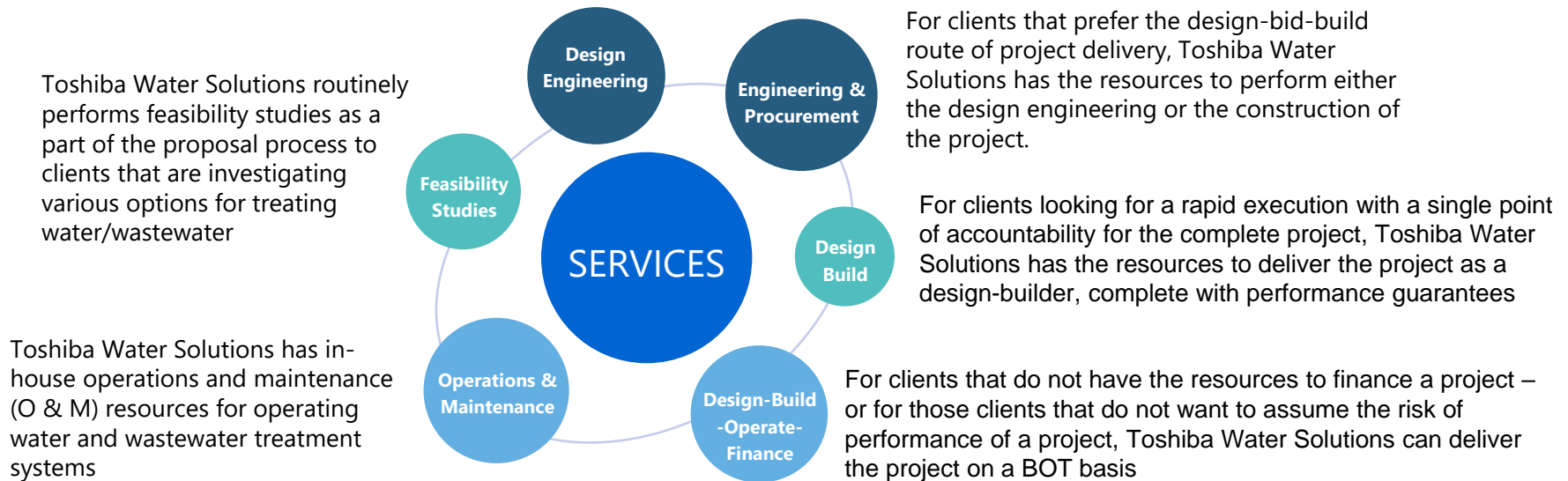
# History

## Over 40 years of experience in Wastewater Treatment



# Complete Solution Offering to Clients

- **Toshiba Water Solutions offers a wide range of services starting from the initial stage of engineering and design to construction and installation**
- **We understand that each client has different requirements and resources and to accommodate to that, Toshiba Water Solutions has developed the ability to deliver projects tailored to meet the needs of a diverse set of clients**



# Global Footprint with Local Expertise



## **Toshiba Water Solutions Private Limited (Georgia Branch)**

N3, Non-Residential Space,  
N72a, Kostava Street,  
Saburtalo District, Tbilisi,  
Georgia.



## **Toshiba Water Solutions Private Limited**

4th Floor, Pioneer Urban  
Square, Tower-D, Sector-62,  
Gurugram 122098, Haryana,  
India



## **Toshiba Water Solutions Private Limited (Oman Branch)**

CR No. 11209181  
PO Box-378, Postal Coe-  
325 Al Batinah-Liwa,  
Sultanate of Oman



## **Toshiba Water Solutions America Inc. U.S.A.**

2054 Vista Parkway Suite 400  
West Palm Beach Florida 33411  
United State of America



## **Toshiba Water Solutions America Inc.**

**Trinidad & Tobago**  
22 Crawford Street, Vistabella  
San Fernando, Trinidad &  
Tobago



## **Toshiba Water Solutions Private Limited (Philippine Branch)**

19/F Panorama Tower  
34th Street corner Lane A  
Bonifacio Global City  
Taguig City 1634 , Philippines

## Global Presence



- Denotes delivery centers / Office Location
- Denotes project experience

**6 offices around the world with project  
experience in 35 countries**



# Market Segments Served

**Toshiba Water Solutions has experience implementing solutions to diverse water and wastewater problems across a wide range of industries**

**Municipal Sewerage**

**Municipal Water Supply**

**Oil & Gas**

**Chemical**

**Petrochemical**

**Steel and Metal**

**Pulp & Paper**

**Power Plant**

**Automotive**

**Pharma**

**Food & Beverage**

**Textile & Tannery**

**Other industries**



# Municipal Sewage



## Technologies & Solutions to be offered

### • Various Biological treatment

**ASP** (Activated Sludge Process), **EAP** (Extended Aeration Process)

**MBBR** (Moving Bed Bio Reactor)

**SBR** (Sequential Batch Reactor)

**MBR** (Membrane Bio Reactor)

**BNR** (Bio Nutrient Removal)

### • Sludge Digestion and Power Generation

### • Ozonization System

(Disinfection, Deodour, Decolor, THMs Reduction)

### • SCADA System



#### India

182MLD STP

ASP with Sludge Digestion  
and Power Generation  
Completion 2004



#### India

74MLD STP

SBR with BNR  
Completion 2012



#### India

4.5MLD STP

MBR with BNR  
Completion 2010



#### India

Kerala Sustainable Urban  
Development Project  
107MLD STP, EAP  
Completion 2013



# Municipal Water Supply



## Technologies & Solutions to be offered

### • Various Treatment Process

Rapid Sand Filtration  
Slow Sand Filtration

### • Ozonization System

(Disinfection, Deodour, Decolor, Taste, THMs Reduction)

### • Desalination (Brackish Water, Sea Water)

### • SCADA System



#### **Trinidad**

87MLD Navet WTP  
Rapid Sand Filtration  
Completion 2001



#### **St. Lucia**

60MLD Theobaldt WTP  
Rapid Sand Filtration  
Completion 2007



#### **Guyana**

5-12 MLD WTP x 5  
(Lima, Vergenoegen, Covent Garden, Sophia, Ruimveld)  
Rapid Sand Filtration  
Completion 2010



# Oil & Gas, Chemical and Petrochemical



## Technologies & Solutions to be offered

### • Various Effluent Treatment

Produced Water

Hydrocarbon Effluent

PTA (Purified Terephthalic Acid) Effluent

Others

- Anaerobic Treatment, Aerobic Treatment
- Oil Separation (TPI/CPI, DAP)
- Recycling System (MF/UF, MBR, RO)
- High pH RO
- Zero Liquid Discharge System with Evaporator
- Desalination (Brackish Water, Sea Water)
- Demineralization / Deionization Plant



### **India**

6.6 MLD ETP  
For PTA Effluent  
Completion 2008



### **Thailand**

IRPL  
6 MLD ETP  
For PTA Effluent  
Completion 2008

# Power Plant



## Technologies & Solutions to be offered

- Effluent Treatment
- Recycling System (MF/UF, MBR, RO)
- High pH RO
- Zero Liquid Discharge System with Evaporator
- Raw Water Pre-Treatment
- Cooling Water Treatment (Side Stream Filtration)
- Desalination (Brackish Water, Sea Water)
- Demineralization / Deionization Plant



### India

NTPC Bongaigaon  
Pre-Treatment plant 122.5MLD  
Completion: On-going



### India

NTPC Nabinagar  
Pre-Treatment plant  
118MLD  
Completion: On-going



# Automotive



## Technologies & Solutions to be offered

### • Various Effluent Treatment

- Die-Casting Effluent
- Painting Effluent
- Plating Effluent
- Rubber Effluent

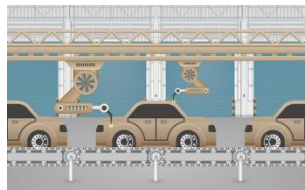
### • Oil Removal

### • Recycling System (MF/UF, MBR, RO)

### • High pH RO

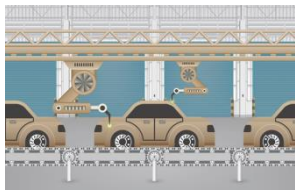
### • Zero Liquid Discharge System with Evaporator

### • Demineralization / Deionization Plant



#### India

Car Manufacturer  
6,000KLD WTP  
640KLD STP  
1,440KLD ETP  
Recycling system



#### India

Car Manufacture  
210KLD DI Plant  
(Resin based, 2 $\mu$ s/cm)  
242KLD ETP  
ZLD (Evaporation) System



#### India

Car parts Manufacture  
4.8KLD DI plant  
(EDI based, 1 $\mu$ s/cm)

# Thank you

## > Contact us

**Toshiba Water  
Solutions Private  
Limited**

### Head Office



4th Floor, Pioneer Urban Square,  
Tower-D, Sector-62, Gurugram  
122 098, Haryana, INDIA

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### Philippine Branch



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