

# Johkasou-STP

Johkasou Onsite Wastewater Treatment Plant from Japan

-Contribute for 'Swachh Bharat'-

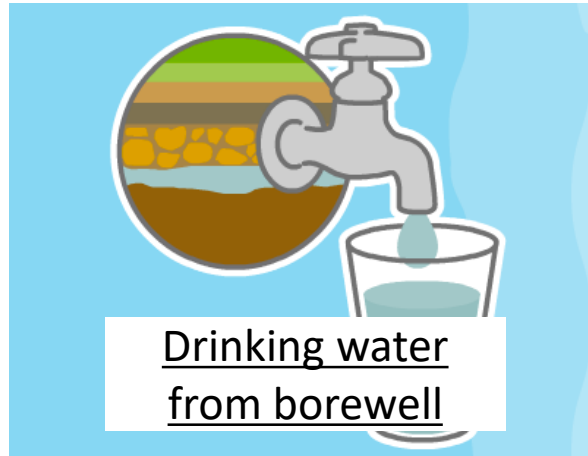
Treat wastewater at site & Reuse at site

PROTECT x CHANGE

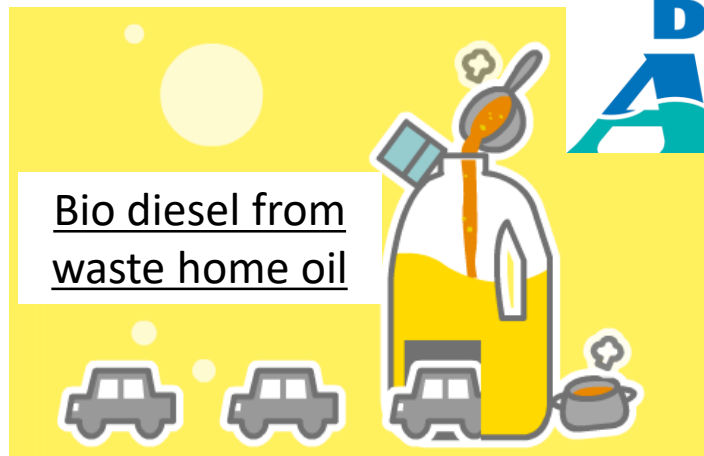


# Daiki-Axis Group

- In overseas, Daiki Axis focus on onsite treatment system for waste water by Johkasou-STP & drinking water from borewell etc



PROTECT x CHANGE



日本での歴史と進展を紹介する

# Japanese water treatment history\_ condition in 1960' to 1970'

- Japan was most polluted countries in the world in 1960' to 1970'





# Japanese water treatment history\_ condition in 1960' to 1970'

■ Four major pollution diseases occurred in Japan in 1960' to 70' and Three of four cases are water pollution



Minamata disease



Itai-itai disease



Aganogawa mercury poisoning



Yokkaichi asthma

# Impact of JOHKASOU act & product approval

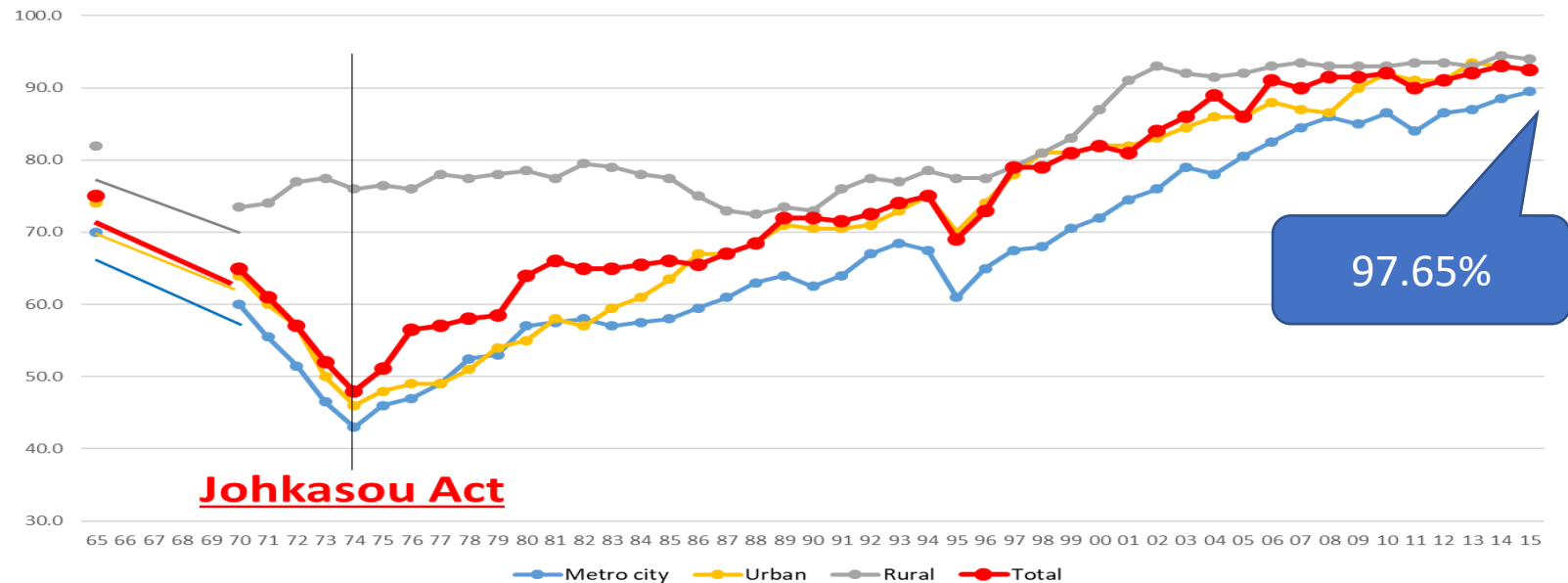
- After JOHKASOU-act, Japanese River, Lake & sea became clean gradually



Sumida River (Tokyo) in '70s

## ◆ Article in the JOHKASOU Act

- ① Johkasou installation (※mentioned in “National Building Code”)
- ② Operation/maintenance of Johkasou
- ③ **Approval of Johkasou models**
- ④ Johkasou business for Installation and Operation/Maintenance
- ⑤ Nationally qualified “Johkasou technicians”





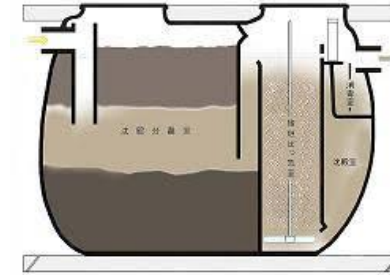
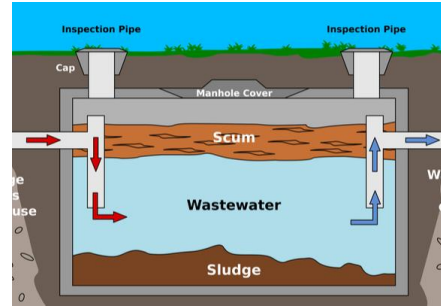
# Government activities

- Japan was most polluted countries in the world in 1960' to 1970'



# History of Onsite treatment in Japan

- Following flow is a decentralized STP history in Japan, along with these, Centralized STP also developed everywhere in Japan. And current movement is changing Centralized to Decentralized



Collection pit

Soak pit

Septic tank

Black Water  
Johkasou

Black & Gray  
Water  
Johkasou

~ 1 9 4 5

~ 1 9 5 5

~ 1 9 7 0

~ 1 9 8 0

N O W



## インドでの製品販売アプローチ

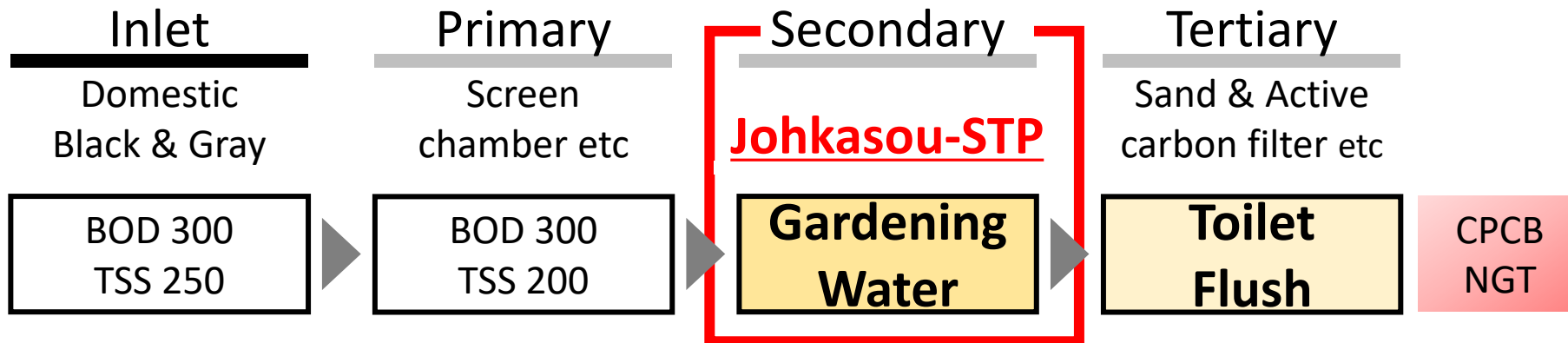
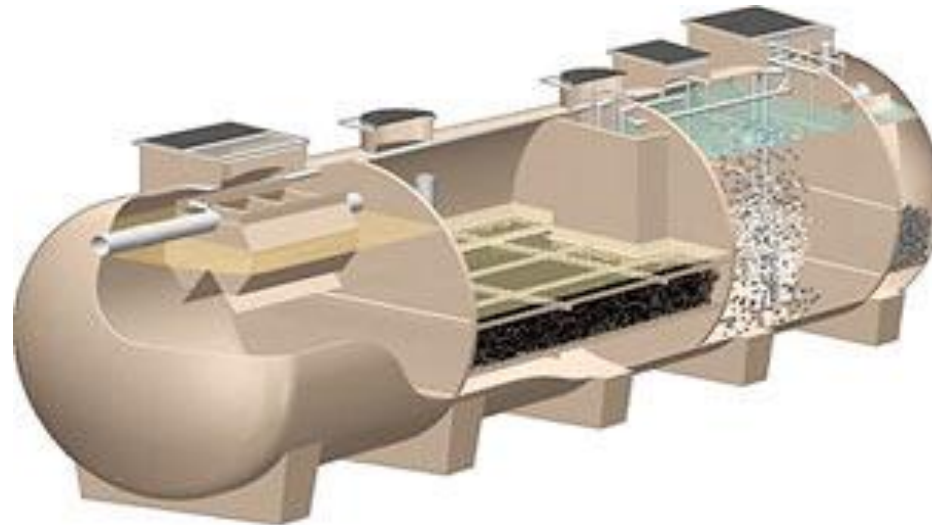
# 製品をビジュアルで見せる

- JOHKASOU is the Domestic wastewater treatment packaged STP developed in Japan and completely Factory made **Product**

Capsule Type: 1~25KLD



Cylinder Type: 20~75KLD





# 製品特徴を明確に提示する

■ Johkasou-STP is simple and easy installation, operation & maintenance product based on Japanese experiences

LOW energy consumption  
(50-75% less)

No need Operator  
(Auto work)

Quick Maintenance  
(Monthly 15 min)

Nitrogen Treatment

No Leak Smell  
No noisy Sound

No need Equalization Tank

LOW sludge generation  
(50% less)

1 day Installation  
(Plug in play)

Performance guarantee

Inlet Parameter		AI Outflow	AIJ Outflow	AIM Outflow
6 – 8	pH	6 – 8	6 – 8	6 – 8
300	BOD	<b>20</b>	<b>10</b>	<b>5</b>
450	COD	50	25	10
240	SS	30	20	5
80	Oil & Grease	10	10	5
50	T-N	45	<b>10</b>	<b>10</b>

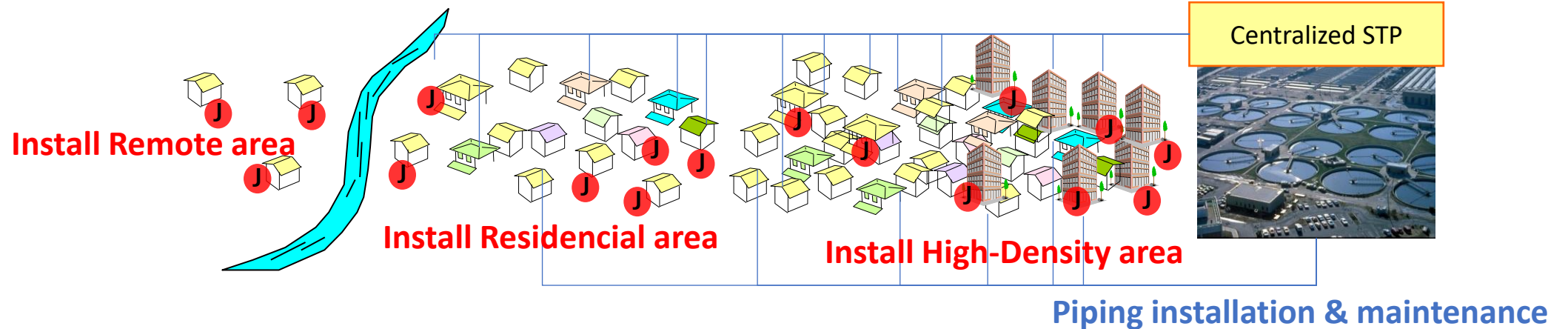
just with **Sand Filter AI-type** meet **CPCB/NGT standard**

# 現地に即したコンセプトを打ち出す

- Johkasou Basic concept is 'Treat at Site, Reuse at Site'.

Even High-density area, Johkasou treat wastewater at site and reduce pressure to Centralized STP

## 'Treat at site, reuse at site'



Remote Area

No need Piping & collect wastewater to Centralized STP

High-density Area

Reduce pressure to Centralized STP

Complementary to  
Centralized STP



# インドにおける実例を挙げ紹介する



## Centralized STP

Total CAPEX : 12crore

- STP (1 Location)

- **Piping 2.5km**

OPEX :

- 2 operators

- **Total 12.50kW**

## De-centralized STP

Total CAPEX : 3crore

- STP (6 Location)

- **Piping 0.2km**

OPEX :

- No operator

- **Total 1.75kW (Less transfer)**



# 実例をカテゴリー毎に列挙する（施工例：地上置き）





# 実例をカテゴリー毎に列挙する（施工例：アプローチロード）



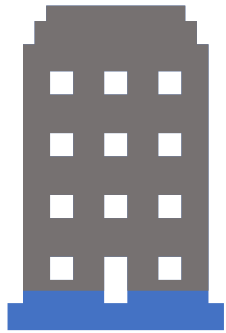


# 実例をカテゴリー毎に列挙する（施工例：グリーンカバー）

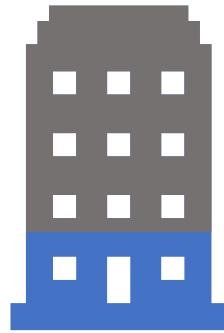


# メリットを提示する

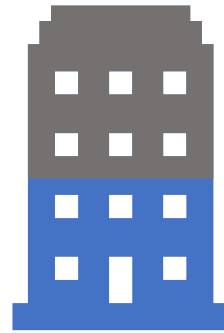
■ Johkasou-STP is easily add and increase capacity following construction schedule



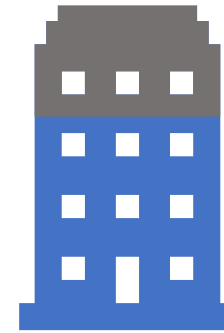
5%



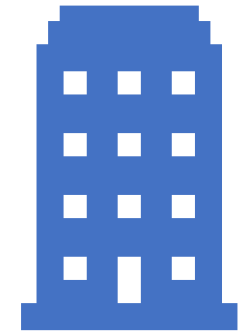
30%



50%



70%



100%

Johkasou STP

Johkasou

Install 1

Johkasou

Install 1

Johkasou

Johkasou

Install 2

Johkasou

Johkasou

Install 2

Johkasou

Johkasou

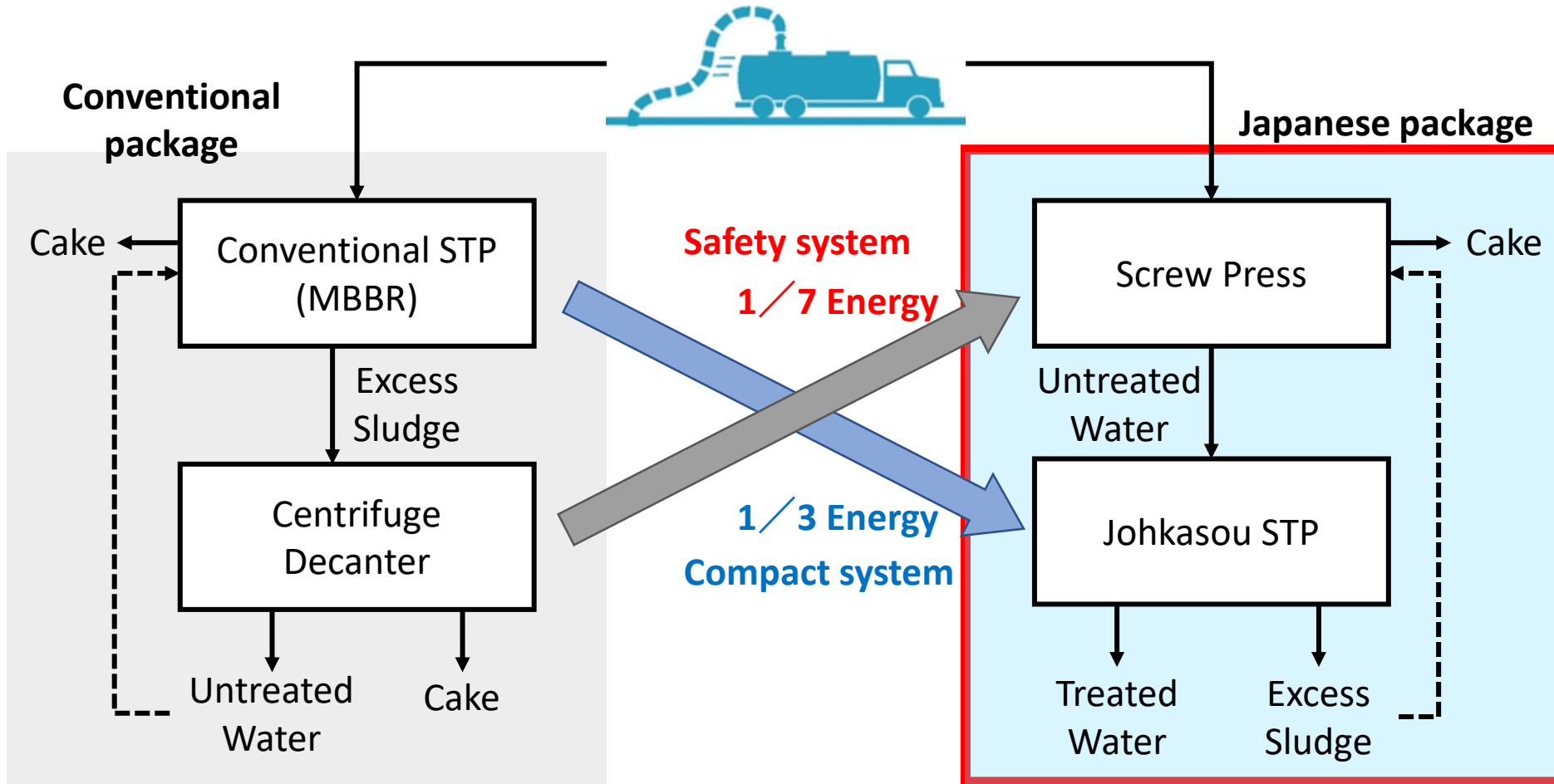
Johkasou

Install 3



# 拡張性を紹介する

- Fecal Sludge Treatment also need urgent solution in India. Daiki-Axis propose Japanese system : simple & easy operation



インドでの活動とブランディング

# インド第二工場が完成

■ Daiki Axis focus on onsite treatment system for waste water & drinking water also

**NCR Factory (November-2022)**



**Vapi Factory (December-2018)**



**Lanka Factory (October-2022)**



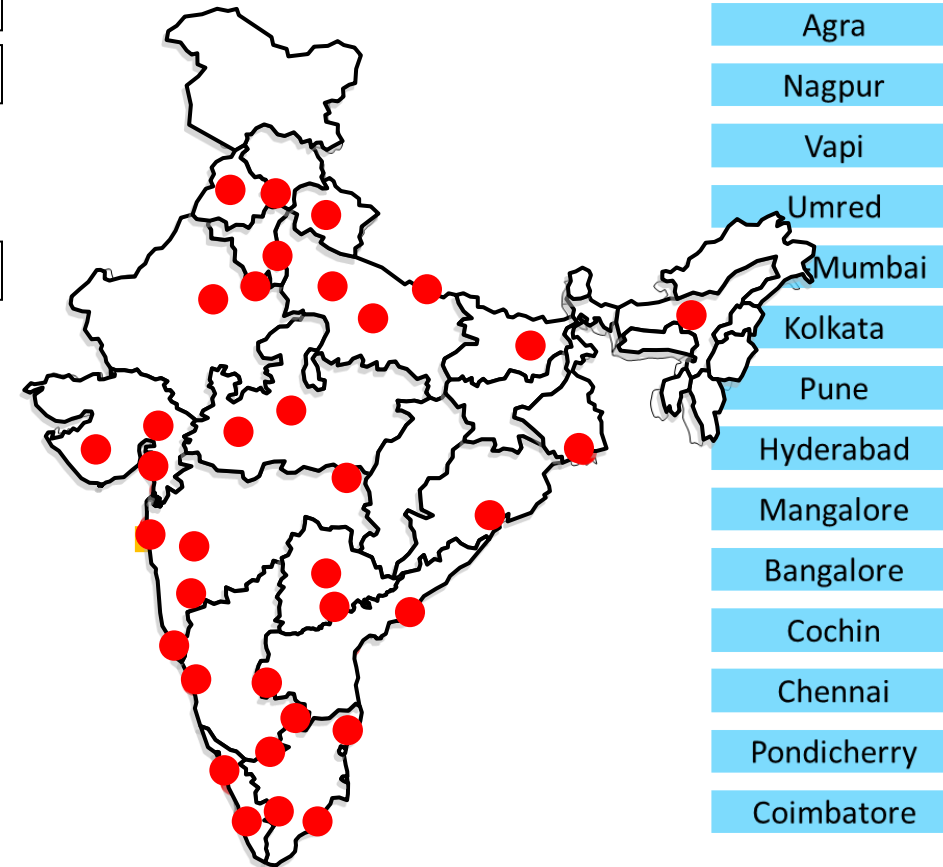
## Company Profile:

Establish:	July 12, 1958
Turnover:	Rs. 3,000cr
Employees:	800
Headquarter:	Matsuyama & Tokyo
Factory:	4 Factory in Japan
Office:	36 sales offices
Group Turnover:	Rs.28,000cr



# Daiki AXIS Group

■ Last 4 years including Covid period, we have installed more than 450 sites all over the India



- New Delhi
- Neemrana
- Ahmedabad
- Ghaziabad
- Vadodara
- Agra
- Nagpur
- Vapi
- Umred
- Mumbai
- Kolkata
- Pune
- Hyderabad
- Mangalore
- Bangalore
- Cochin
- Chennai
- Pondicherry
- Coimbatore



# 式典には企業でも政府でもトップクラスに参加してもらう

- HRCM Mr. Manohar Lal, Industry Minister Mr. Krishnan Gurjar & CPCB Chairman came for Factory Inauguration 4-November, 2022





# 工場内部

- Japanese system including automation and Indian localized manufacturing system, both Marge & Synergy are important for Indian setup

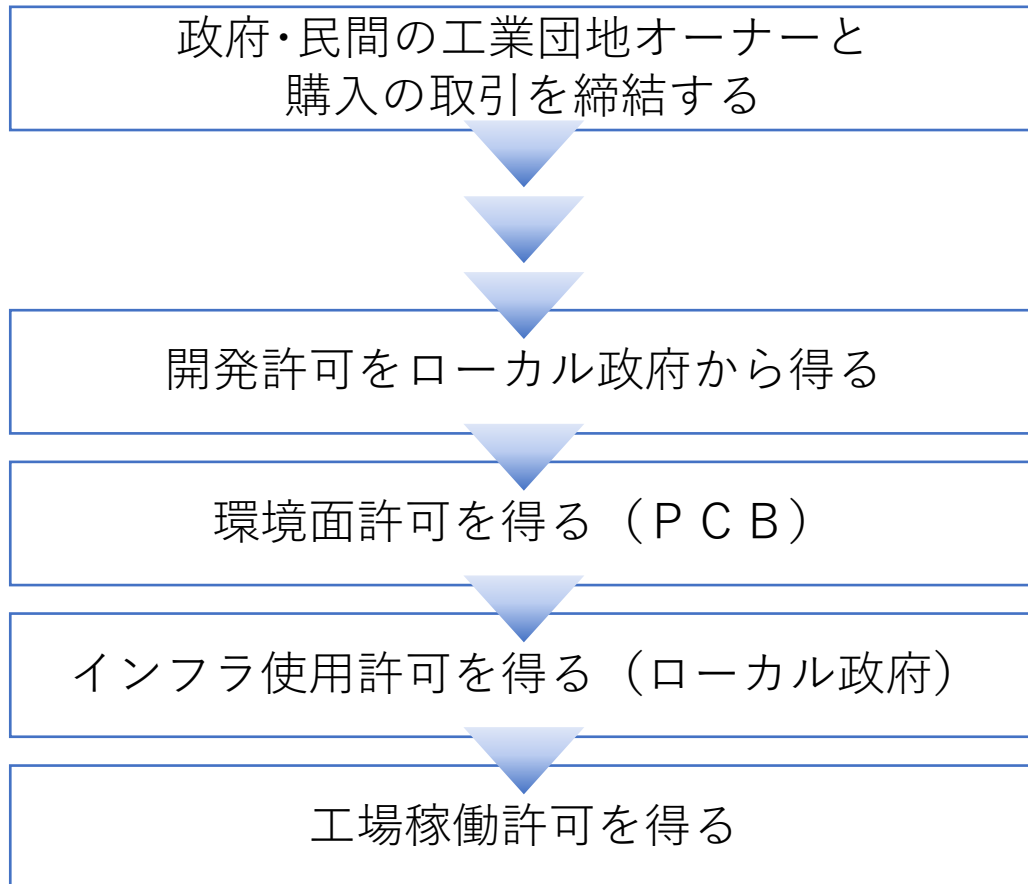




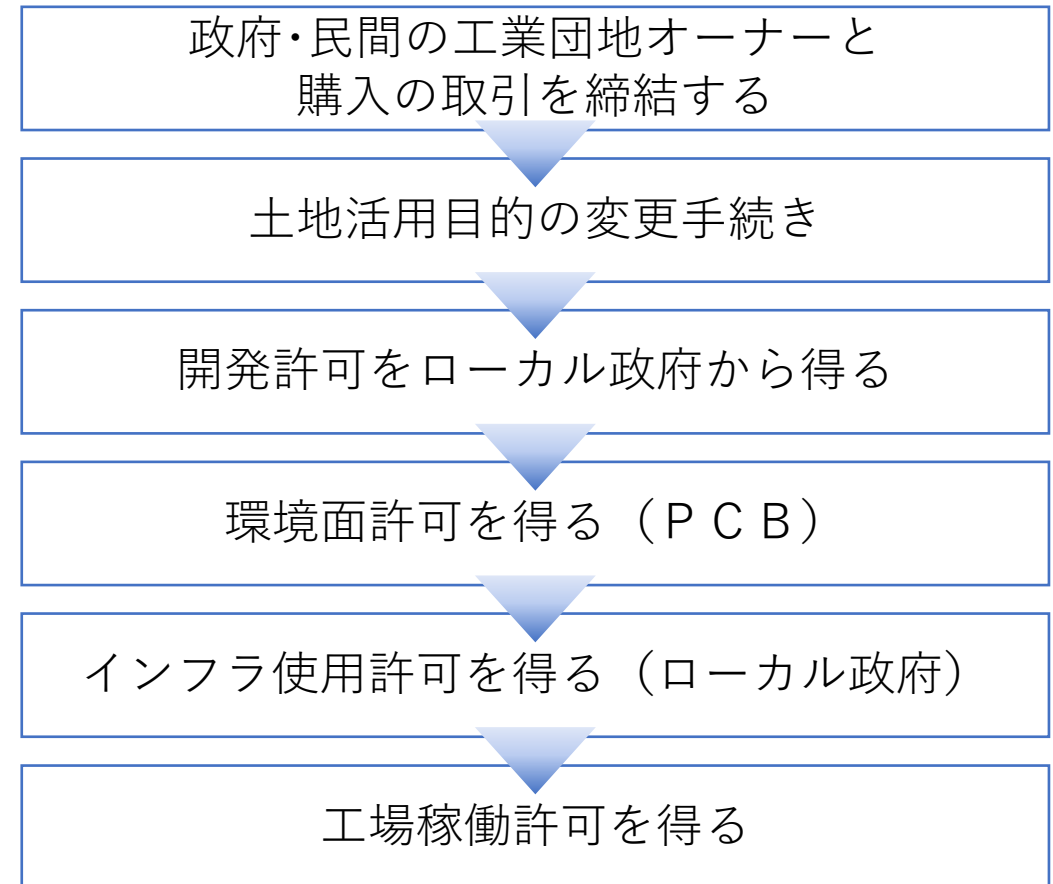
# 工場建設許可と進め方

- 工業団地を購入する場合には工場稼働までにおおよそ40の許可を得る必要があり、非工業団地に購入する場合、おおよそ70の許可が必要になります

## 工業団地に土地を賃貸・購入する



## 非工業団地に土地を賃貸・購入する



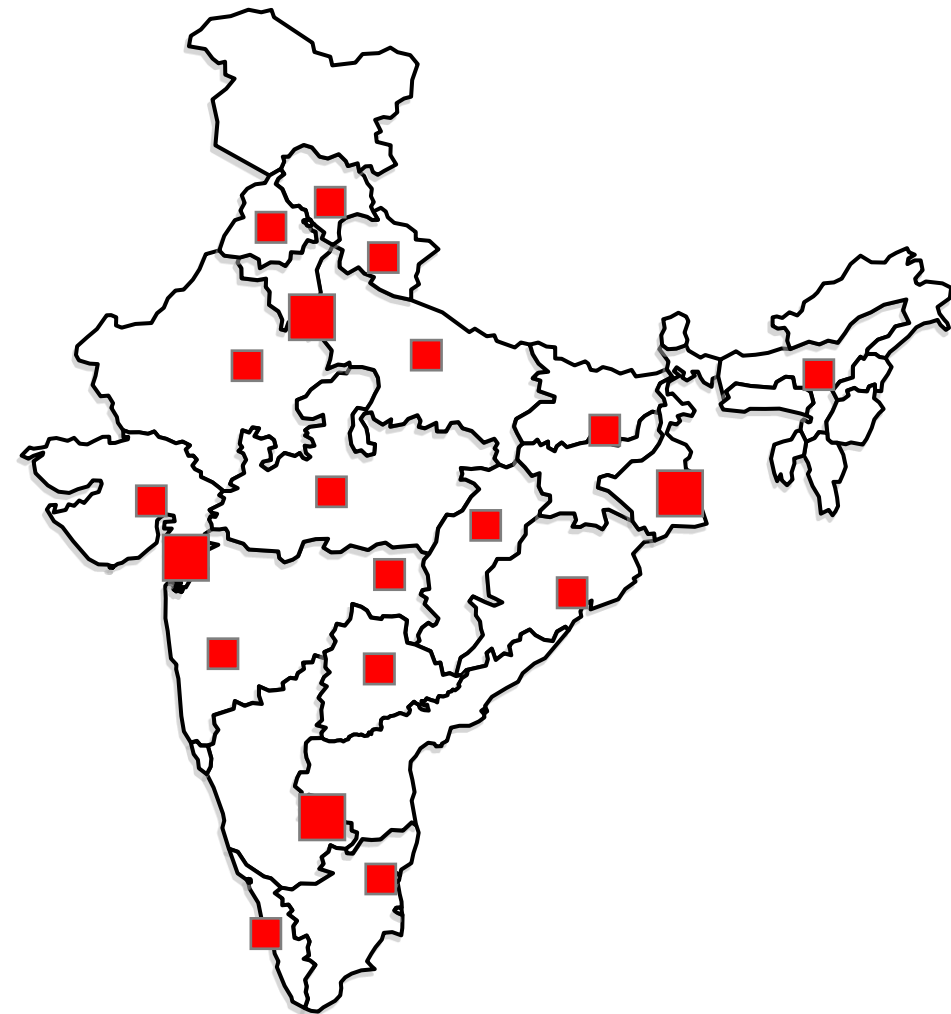
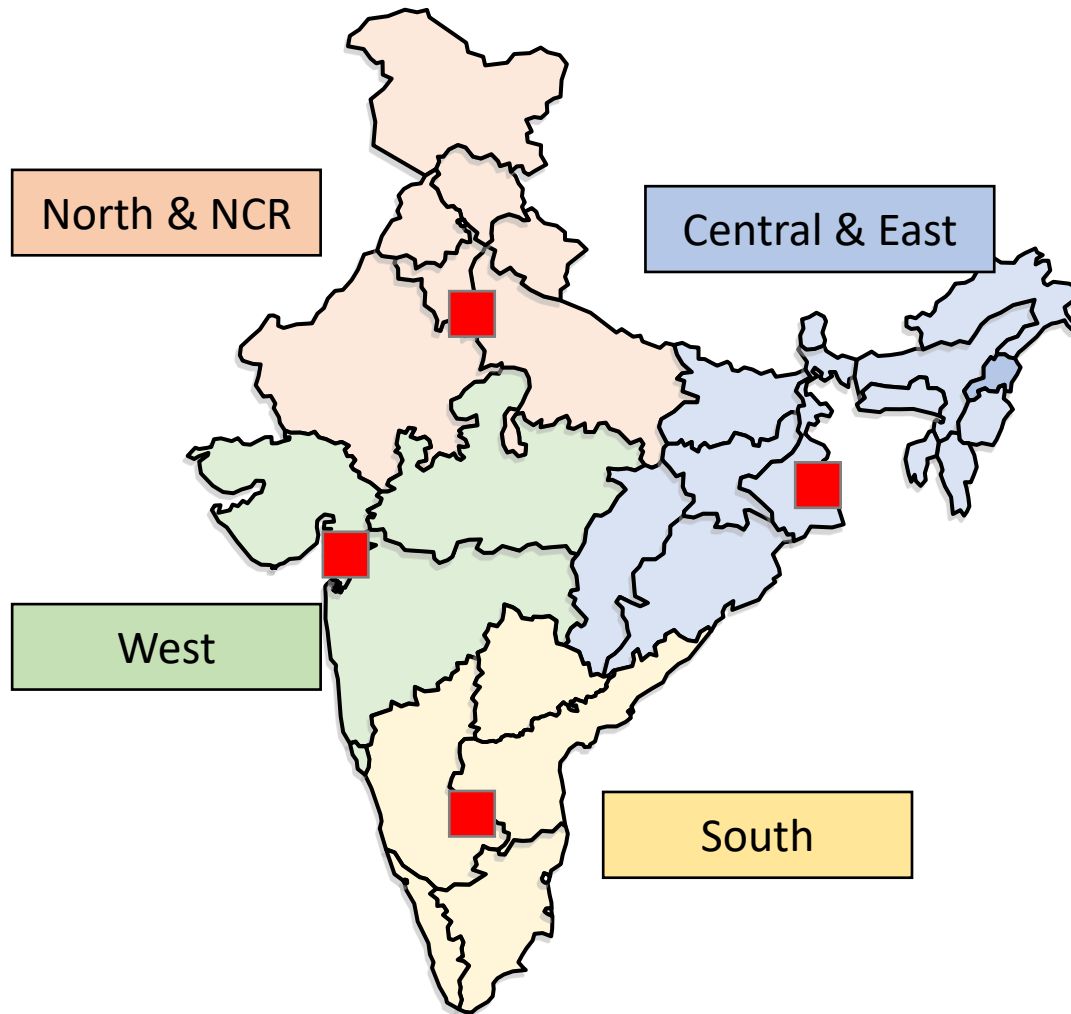
# 革新的技術を日本に期待している

- Daiki Axis India brought Johkasou concept in India and spread and educate it to India. Installed more than 450 Johkasou in India



# 将来的なプランを明示する

- Next 5 years, we will have factories each region, and in future, we plan to setup factories each states all over the India





## 将来的なプランを明示する

- Our mission & future plan is not dominate market, sustainable business from “Make in India” “Skill development program” “Standardized Installation & Maintenance”. It will make market more active and contribute Indian environment




# 製造販売のみではなくルール作りも進める

- Daiki Axis follow Indian Government program and start Skill development program for making water treatment professionals. Education will base up of water industry in India and save the environment





A dynamic background image showing a splash of clear blue water against a light blue gradient. The water is captured in mid-air, creating a sense of movement and freshness.

Daiki Axis India Pvt. Ltd.  
Director\_ Rio Waza  
+91-9702-60-6000(WhatsApp)  
+81-80-4636-9973(International)  
waza@daiki-axis.com

Thank you