

Disaster Risk Reduction Technology in FUJITA

3rd Japan-India Workshop on Disaster Risk Reduction 2019

Fujita Corporation

18 March 2019

Introduction of Fujita Corporation

◆ Fujita Corporation

Established : December 1, 1910
 Sales(2017) : 4.0 Billion US\$
 President and CEO : Yoji Okumura
 Number of employees : 3,050
 (As of April 1, 2018)

HQs address : 4-25-2 Sendagaya,
 Shibuya-ku Tokyo, 151-8570 Japan

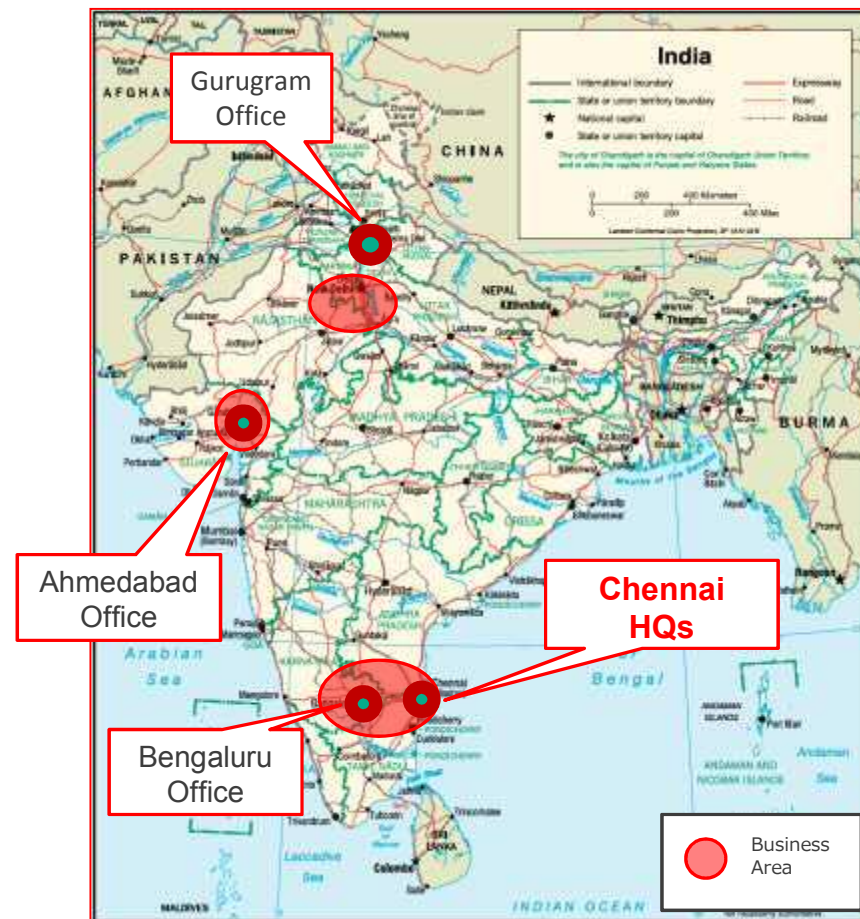
◆ Overseas Branches / Offices

Developed in 13 regions around the world

Shanghai, Hong Kong, Manila, Seoul,
 Hanoi, Ho Chi Minh, Mexico, Bangkok,
 Taipei, Dubai, India, Yangon, Kuala
 Lumpur, Singapore, Doha etc.

◆ Region and base of activities in India

India HQs opened in Chennai in 2007
 Currently working by adding 3 offices



High-rise condominium

Seismic Isolation Technology

- Place: Osaka Pref.
- Story: **37 F, PH 1F**
- Height: **124m**
- Finish: Jul., 2007

Fire resisting in middle story used as bicycle parking area



Solution and services provided by Fujita

- ▼ Design consulting
- ▼ Device evaluating including manufacturing, performance testing
- ▼ Construction(install) consulting

KOKANKYO Engineering Corp.(EAE) , a subsidiary of Fujita, has worked in collaboration with Chinese manufacture Wuxi FUYO Co. LTD to jointly develop various types of Rubber Bearings, with Chinese manufacture Shanghai Research Institute of Material to jointly develop viscous dampers.

These products have been certified by the Japanese Minister of Land, Infrastructure, Transport and Tourism, Japan. They have excellent quality as well as cost performance and has been widely used in Japan and overseas.



Precast Reinforced Concrete Technology

Residential high-rise buildings can be built using reinforced concrete construction, which has excellent heat and sound insulation properties.

By using ultrahigh strength concrete for columns with a compressive strength of 120 MPa, we can construct a smaller cross-section to increase usable living space.

The precast concrete construction method, in which components are made in a factory, achieves higher quality and shorter construction time.

By using these technologies, Fujita has been constructing high-rise residential buildings up to 208m high in Tokyo.

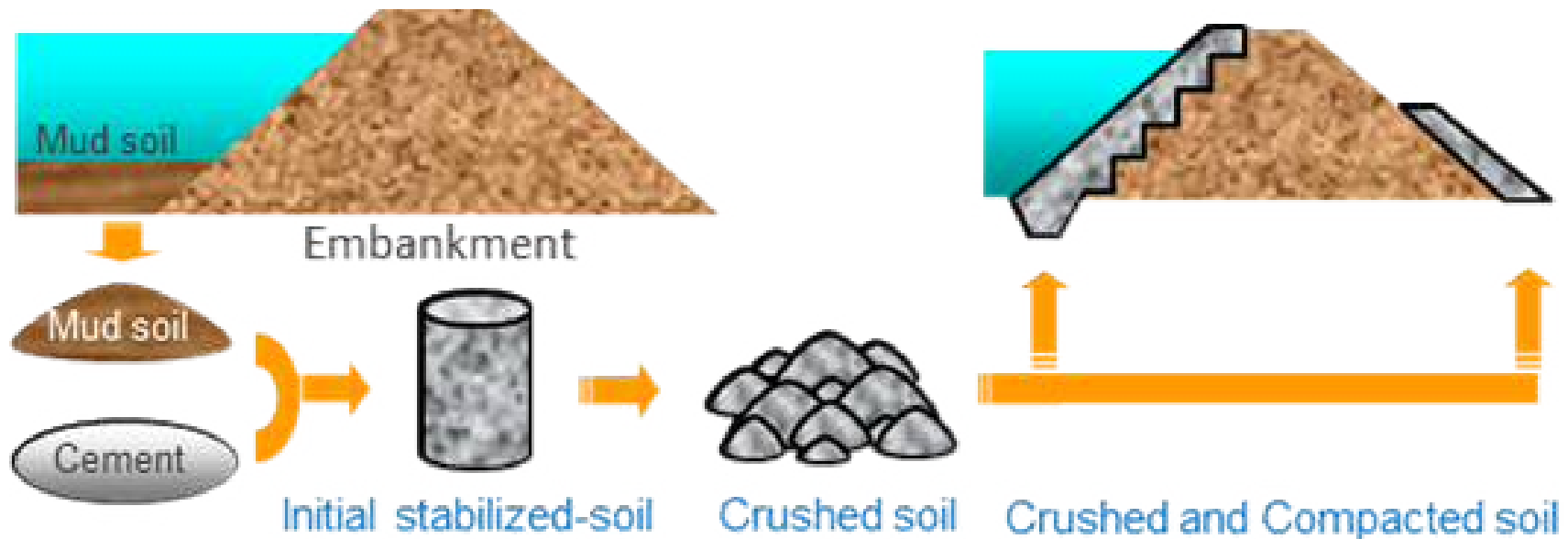


Rehabilitation Technique for Fill-type Dam

Old fill-type dams have two related problems

- embankment soil \Rightarrow difficult to procure
- mud soil \Rightarrow difficult to remove

Capable of achieving the rehabilitation of embankment and the removal of muddy soil from reservoir at the same time.



Tele-operated Robot for Backhoe Shovels

Robo Q is a portable robot installed in the driver's seat of backhoe shovels that can be operated by remote control from a safe place.

The tele-operated robot is easy to transport and can be attached to any commercially available backhoe shovels.



Tele-operated robot
for backhoe shovels
(Robo Q)



Remote operation

◆ Thank you for Attention !!



Fujita Corporation

**Fujita Engineering India Pvt. Ltd.
/ Fujita Corporation India Office**

Masataka Ota (GM)

Mobile: +91-(0)44-6555-5024

Ryoji Mukai (GM/Marketing)

Mobile: +91-(0)89-3986-5570

Fujita Corporation in Tokyo

Kenichiro Yamaura

Mobile: +81-(0)80-5903-8038

4-25-2, Sendagaya Shibuya-ku,

Tokyo, 151-8570 JAPAN

URL <http://www.fujita.com/>