





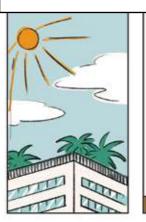


#### 'Madam, This is our metro!"

It was 5 years after I became the member of the project when I heard these words.



**Oriental Consultants** Global Co., Ltd.



I'm Reiko Abe. I'm the chairperson of Oriental

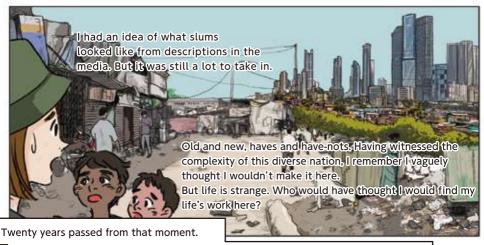








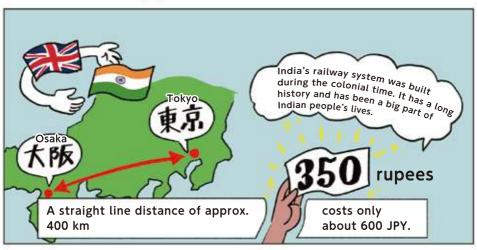


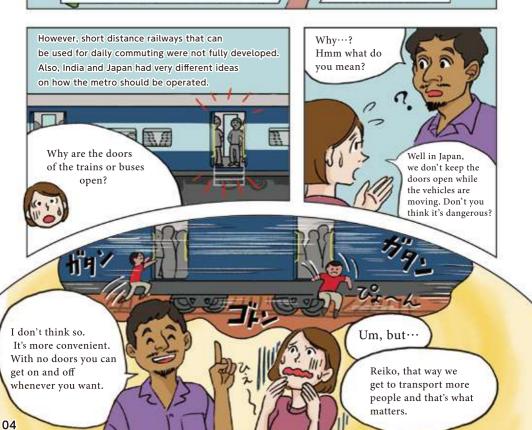


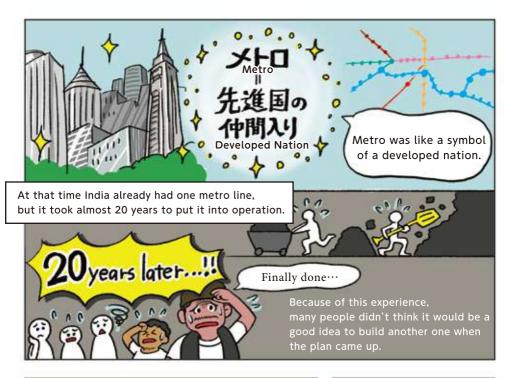
I was offered a position in India as a Chief Tunnel Engineer for a project to build a metro in Delhi. Although willing to take the responsibility, it also reminded me of the uneasy feeling I had 20 years ago.









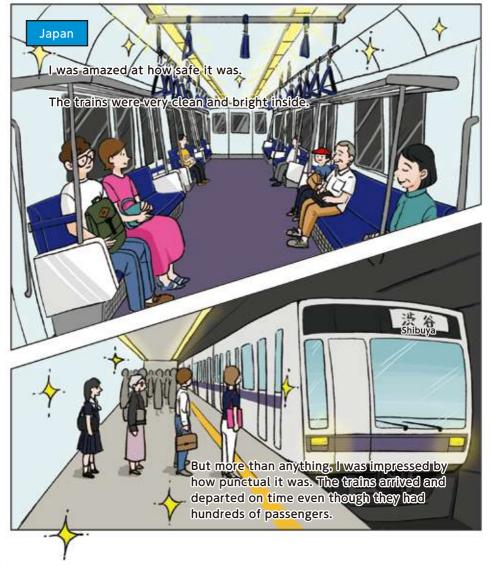




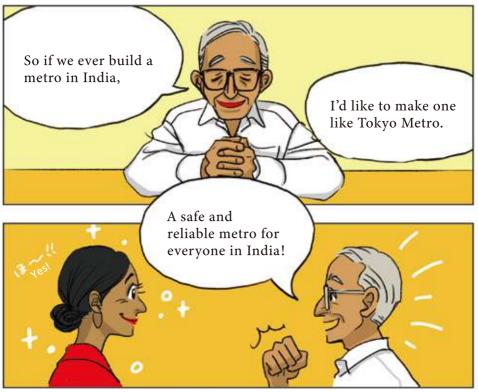












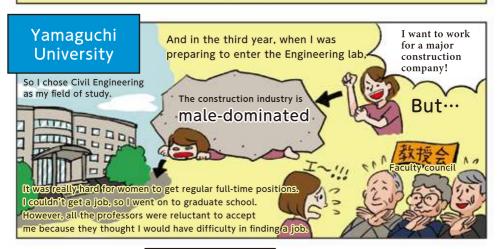
Moved by Mr. Sreedharan's determination and enthusiasm, they decided to choose Japan.



So when the time came to apply for university, I narrowed down the options for the courses that didn't have foreign language requirements.



I've always been interested in making tangible objects, but the first thing that came to my mind was to make large buildings.





























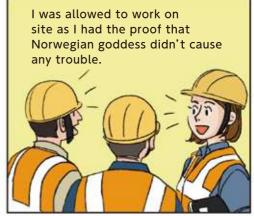












\*Bubble burst = Japan experienced a bubble economy in late 1980s in which real estate and stock market prices inflated to a soaring height. This price bubble burst in early 1990s and resulted in economic stagnation.

















A woman?? What's going on??

Oh my goodness! We have a female engineer boss from Japan!? No way! No woman is supposed to be at the tunnel construction site!





I didn't mean to trick them, but no one guessed that Reiko was a female name. I still remember the look on their faces when they first saw me!

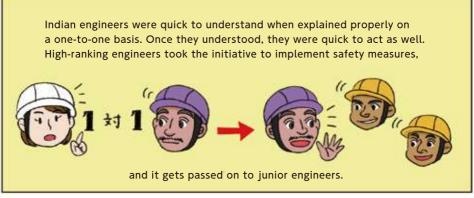


Though it was rare to have a female tunnel engineer, Mr. Sreedharan was in total acceptance and gave me full support.

I still remember Madam Abe in a helmet and work boots, working hard among Indian men.









It was considered normal that the 5-year construction plan gets delayed by 1-2 years.

The Delhi Metro Project was also delayed at first.

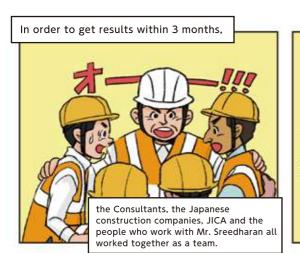
One day, a newly hired consultant manager came to visit Mr. Sreedharan.











They kept their promise. They did what others thought was impossible.

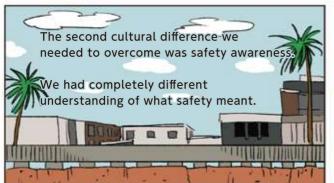


From that moment on, a sense of trust was formed between the Japanese and Indian teams, and it became easier to accept each other's ways of doing things.

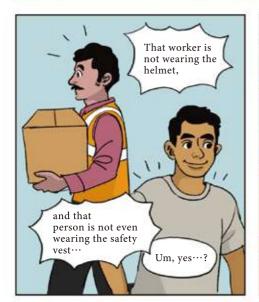


KOUKI = construction period



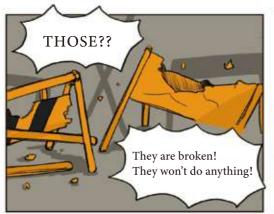


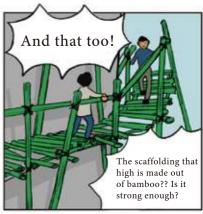


















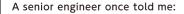








will they maintain it like they did with their PPE items?

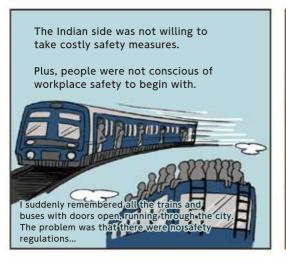


"Safety takes daily commitment"
Following these words, I went around the construction site every day.









It would be considered as business interruption to make people follow something that has no official direction.



And it was during the Delhi Metro construction when I got to hear those fateful words...



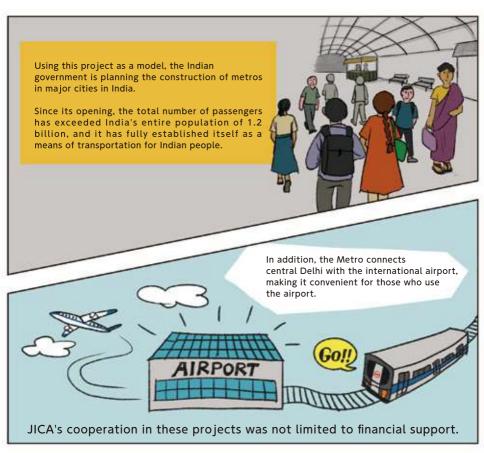














# Delhi Metro contributes not only to improving lives of people in Delhi but also to expanding opportunities for women in India





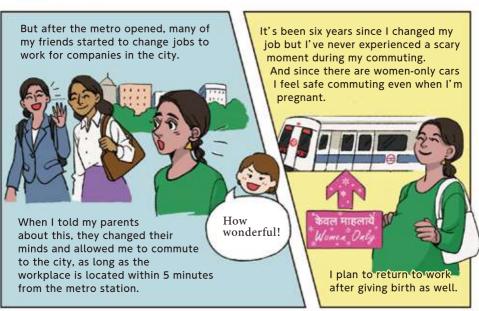


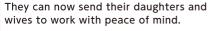




What does your family think about Delhi Metro?



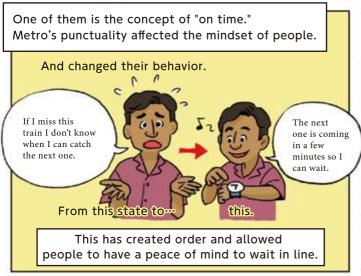




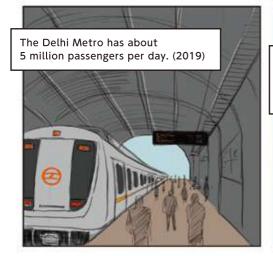












No matter how many and how good proposals there might be, it wouldn't do much if they were not received well or put into practice.

The Delhi Metro Project was made possible by mutual efforts of both India and Japan.

As I've spent my life overcoming challenges of being a woman, I consider the fact that I got to help expand women's career options to be one of my best accomplishments.





#### A few months later



















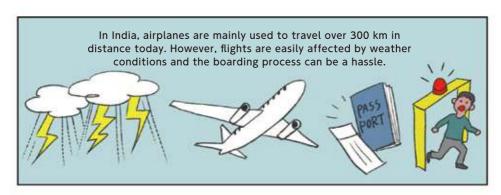


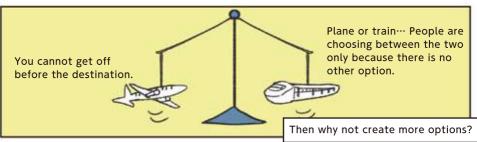


Through this project, I learned that Metro doesn't only make transportation more convenient, but also changes the way people live and feel.

Knowing all that pushed me to the next stage.











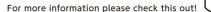
The Japan International Cooperation Agency (JICA) aims to promote international cooperation and provide assistance to developing countries, as a sole Japanese governmental agency in charge of Official Development Assistance (ODA) implementation. "Leading the World with Trust" as its vision, JICA, with its partners, will take the lead in forging bonds of trust across the world, aspiring for a free, peaceful and prosperous world where people can hope for a better future and explore their diverse potentials.

## The Role of JICA in Delhi Metro Project

As Delhi's population doubled, the number of cars and buses increased rapidly causing traffic congestion and serious air pollution. JICA came forward to provide support for the development of the Delhi Metro since its planning stage in 1995. The Delhi Metro started its operation in 2002, and about half of the total project cost was financed by ODA loans through JICA. They utilized Japanese energy-saving and safety technologies such as the energy-efficient braking system and On-Site Visualization during construction, as well as methods of operation such as operational know-how and passenger alignment.

The Delhi Metro is now firmly established as a means of transportation and is used by as many as 5.06 million people every day.







# The Social Changes Brought About by the Delhi Metro

Improved safe operations and vehicle maintenance

Introduced women-only cars

Use of "an energy-efficient braking system," a Japanese energy-saving technology

Installation of security cameras and emergency alarm systems in cars



Operates on time from early in the morning till late at night

First railway project registered with the UN under the Clean Development Mechanism (CDM)

Established a "clean" image by enforcing a rule prohibiting the disposal of garbage in the Metro

### About Delhi Metro

Delhi Metro is the largest and busiest rapid transit system in India connecting the country's capital region with satellite cities. The metro system is operated by Delhi Metro Rail Corporation (DMRC), a public sector company established by the Government of Delhi in May 1995. JICA has supported for the development of the Delhi Metro since its planning stage in 1995.



## **Correlation Diagram**



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Check out the Project History Book here

Collaboration with: Reiko Abe

Oriental Consultants Global Co., Ltd.

Delhi Metro Rail Corporation Ltd. (Delhi Metro)

Manga created by : birujiros

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This is a translated edition of the manga, which was created based on the Project History Book written by Reiko Abe, "Madam, This is Our Metro! - Female Civil Engineer in Charge of Subway Construction Quality and Safety Management in India".