

## *What is CNCRP Project?*

CNCRP is the Project for “Capacity Development on Natural Disaster-Resistant Technique of Construction and Retrofitting for Public Buildings in the People’s Republic of Bangladesh”

Bangladesh is suffered by Cyclone, Flood, Storm Surge and Tornado with high frequency as well as Earthquake disasters. To minimize damages due to a natural disaster, public organizations need to preserve the adequate function at a time of and after it, and public buildings having seismic-resistant shall be ensured.

Government of Bangladesh has prepared to adopt countermeasures of seismic resistant of the buildings through formulation of national policy/plan, such as National Plan for Disaster Management (NPDM) and Standing Order on Disasters (SOD). Public Works Department (hereinafter referred to as “PWD”) is one of the main organizations to promote seismic-resistant buildings. PWD needs the capacity development regarding seismic-resistant techniques. On consideration of the above, Government of Bangladesh requested Government of Japan for technical assistance to develop capacity of PWD engineers.

In earthquake disaster, especially, the most damage causes building collapsed in Bangladesh due to vulnerable design and inadequate construction of the buildings until now. This field should be solved, and the solution obviously contributes risk reduction.

We, JICA Expert Team (JET), have come in here Bangladesh to support the Capacity Development of PWD about dissemination of seismic-resistant buildings through CNCRP starting from 2011 March to 2015 February. In CNCRP, PWD and JET develops outputs as shown below figure to attain the Project Goal that is buildup the SAFE BUILDINGS.



The buildings which retrofit buildings enable to secure core function of disaster management after seismic shock, and it leads smooth rescue/relief and recovery. It means that indirect economic loss, such as opportunity loss, is reduced thanks to the retrofitting and its benefit is expected 2 to 5 times of the retrofitting cost.

Besides, new construction buildings in conformity with BNBC strengthen expects the damage ratio is reduced from 50 % to 10 % within at least 50 years. Therefore, direct economic loss, such as asset loss, is minimized and its benefit is expected 4 times of the additional construction cost to follow BNBC that consists of increasing concrete volume, longer work duration, etc. Also, it is remarkable that such proper buildings can save human lives against earthquake.

Considering the above, CNCRP shall compose of three steps.

**1st STEP:**

JET transfers the knowledge / techniques to PWD, and PWD and JET develops appropriate method from 2011 to 2014.

**2nd STEP:**

PWD and JET disseminate the above to relevant public engineers as well as public sectors from 2014 to 2015 through CNCRP.

**3rd STEP:**

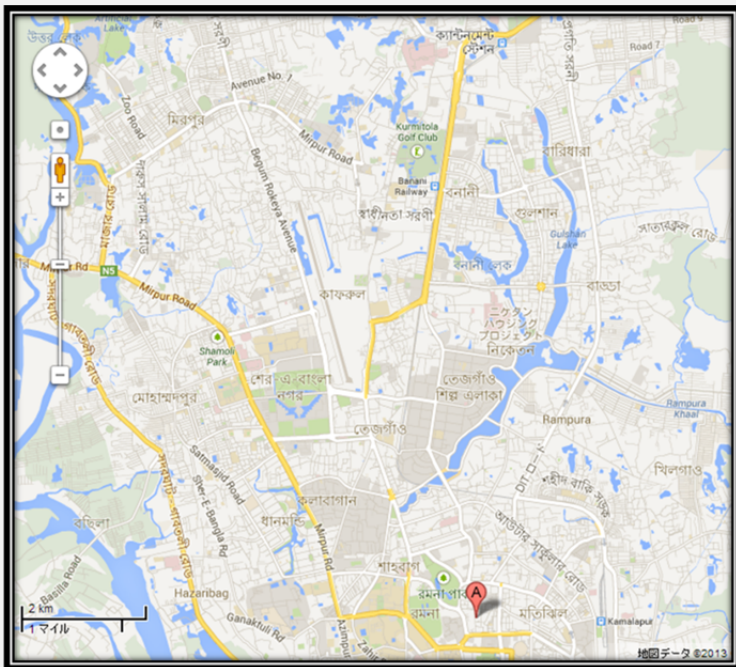
PWD walks ahead of the earthquake resistant techniques in order to increase the safe buildings in Bangladesh.

CNCRP, corroborating work by PWD and JET, contributes to establish SAFE SOCIETY in Bangladesh.

Yours Sincerely

Jun Matsuo

Deputy Team Leader of CNCRP



**We are always welcome  
you!**

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Project for Capacity Development on Natural Disaster Resistant  
Techniques of Construction and Retrofitting for Public Buildings

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