

FIRST RESPONDER'S TRAINING MAKATI DRRM ACADEMY PROJECT

FINAL REPORT
AUGUST 2020



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GREETINGS

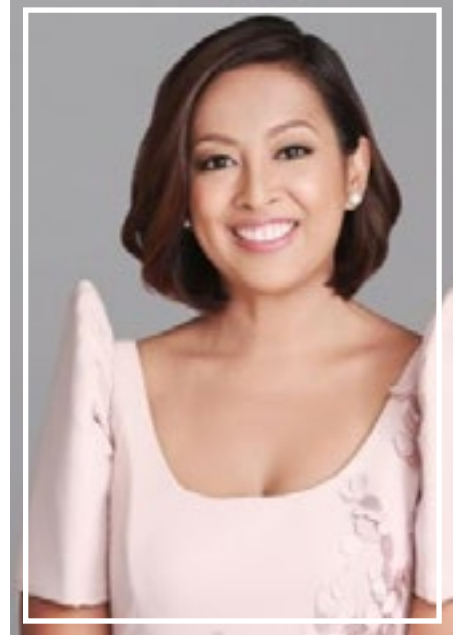
MAKATI

On behalf of the city government of Makati, I would like to convey our heartfelt thanks to CityNet Yokohama and the City of Yokohama for your constant support for the initiatives of our city through the Makati Disaster Risk Reduction and Management Office (DRRMO), particularly in promoting disaster preparedness among our Makatizens.

Your support has been vital in the timely and efficient conduct of activities under the Makati DRRM Academy Project since its inception in 2017.

It is my fervent hope that our collaboration in resilience building will continue to thrive and further pave the way to sustainable and inclusive development.

- Mar-len Abigail S. Binay, Mayor, City of Makati



YOKOHAMA

The city of Makati is one of the fastest growing cities in the Philippines. As the city became urbanized and developed, disasters become more complex and diverse. Therefore, it is very important to enhance the capacity development for the first responders.

The city of Yokohama has followed the same path in the past. Yokohama Fire Bureau (YFB) learned its skills from the Japan Ground Self-Defense Force and established Japan's first rescue team specializing in saving lives in response to complex and diverse disasters.

Since then, we have enhanced and strengthened our educational system by establishing a Yokohama Fire Academy (YFA), and have been training first responders for 44 years. For the Makati DRRM Academy Project, we hope to contribute to the improvement of Makati City's DRRM by sharing the human resource development know-how accumulated by YFA.

We also hope that the City of Makati will expand its DRRM and mitigation efforts to other countries and cities in the near future.

- Hiroshi Sakamoto, Head of Fire Academy, Yokohama Fire Bureau



MESSAGE FROM **MAKATI DRRMO**

Over the years of building the city's response system, we recognized that there is a need to continuously enhance the capacity of our responders and increase the awareness of our citizens. With this need for an official training institution, the dream of Makati DRRM Academy is born. Envisioned to transform Makati City as a globally competitive force in disaster risk reduction and management, the Makati DRRM



Academy will be comprised of a training facility, DRRM museum and the DRRM Office in a state-of-the-art building and facilities with green features designed for all stakeholders in the City.

With such a formidable goal and with little experience in this matter, we requested much needed assistance from CITYNET Yokohama who came to our rescue and threw us a lifeline. CITYNET Yokohama has been very helpful in coordinating and helping us overcome the language barrier and in providing guidance and advise for project management. Through their guidance, we have come to work with experts from City of Yokohama and PlusArts.

The City of Yokohama, through the Yokohama Fire Bureau and Academy, Crisis Management Office and International Affairs Bureau, shared their vast experience and best practices in disaster management, and their well-developed curriculum for responders and community members. PlusArts generously shared their expertise in disaster education and research-based DRR learning exhibit design. What you hold in your hand is the tip of this iceberg, a glimpse from the years of hard work and valuable support from CITYNET Yokohama, City of Yokohama and PlusArts.

To our dearest partners, we express our deepest gratitude for your consistent and reliable support and earnest commendation for the release of this publication. We look forward to the day that the Makati DRRM Academy will open its doors. When that day comes, we invite you to come and see the fruit of our partnership and share with us the knowledge and experience that have made you stronger.

-Richard Raymund R. Rodriguez, Makati DRRM Officer

MESSAGE FROM THE HEAD OF CYO

It is my pleasure to be engaged with CYO and to learn about the Makati DRRM Academy Project. The amount of interest and work that Makati DRRM Office has put in for this progress is extraordinary and I find this very important for the metropolis like Makati where millions of people work each day. This initiative needs to be hailed as a model example of how the city is trying to ensure the safety and comfort of its citizens through a sustainable practice by educating the public on the potential hazards and making appropriate preparations for it.

It is also important for Yokohama Fire Bureau to engage in such international cooperation activities as it not only makes them understand global contexts but by sharing skills and technology, it will enhance their own understanding of dealing with complex disasters and learn tactics from Makati that may be useful in Yokohama as well.

An educational facility such as the Makati DRRM Academy is critical in the current global context where disasters including health crisis are becoming more unpredictable and affects the entire nation. Therefore, the knowledge and skill sharing under this project will enable the first responders on both sides to realize their new potentials for dealing with the disasters. When these professional skills acquired through mutual learning is transformed into learning products for the general public through the academy, it will accelerate the understanding of disaster prevention, mitigation and response at the public level as well.

I very much look forward to the outcomes of this project to develop a model academy through which people in Makati and from elsewhere can enhance their knowledge to make each household more resilient against disasters. I would like to express my gratitude for all personnel from Makati, Yokohama and Plus Arts who are diligently engaged in this noble cause and wish all the success for your endeavors.

- Nobuyuki Onozaki, Head of CityNet Yokohama Project Office



MESSAGE FROM YFB

The first thing YFB personnel learn at the YFA is the common idea of "safety, reliability and promptness". The main focus of the initial part of the international cooperation project has been to have a "common understanding" of the basics of the firefighting activities.

The project made us realize that the way we deal with emergencies in Makati and Yokohama are different. It was important for us to share what we value in Yokohama which is considering safety first in order to protecting squad members. The first responders from both cities have gained much understanding of each other's values and the way of doing the training thus strengthening the role of being a firefighter.

By mastering the basic techniques, the SAR personnel can think and apply the skills to next level. In the future, we would like to make full use of online and other tools to provide advice on how to build a better training system.

- Project Division and Training Division, Yokohama Fire Bureau

OVERVIEW

PROJECT BACKGROUND

Makati is a highly urbanized economic center of the Philippines. Its rapid urban development has also brought various challenges that the city government is trying to address. Among them, strengthening of the city's Disaster Risk Reduction Management (DRRM) is one of the top priorities.

As a result, the City Government of Makati is planning a comprehensive training institution. is planning to establish a comprehensive training institution with environmentally sustainable features and experiential learning facilities designed to cater and provide opportunities for all stakeholders in the City providing disaster risk reduction and management (DRRM) knowledge and skills. As the Makati DRRM Academy will be the first of its kind in the Philippines, it is envisioned to transform Makati into a globally competitive force in the DRRM field and provide activities for Makatizens in making resilience a way of life.



Foreseen services for the implementation of this project will be delivered in two phases:

PHASE 01

- Feasibility Study
- Basic Design
- Detailed Design for Architectural-Engineering Design
- Basic Design and Detailed Design for Exhibitions
- Basic Training of First Responders of Makati



PHASE 02

- Monitoring for Architectural-Engineering Design as well as for Exhibition Design
- Construction, Branding and Preparing Services for HR Development, including staff training

There are two main components of this project:

- 1) Development of infrastructure and facilities
- 2) Training of the first responders or Makati DRRMO

In conjunction with the proposed establishment of the Academy, a Memorandum of Understanding (MOU) between the City Government of Makati's Disaster Risk Reduction and Management Office (DRRMO), NPO Plus Arts, a Kobe based organization specializing in DRR, and CityNet Yokohama Project Office (CYO) was signed in 2018. CYO and Plus Arts will coordinate the project with Makati to develop the facilities that the Academy needs.

The Academy is expected to house the Makati DRRM Office, a training facility, and an experiential learning facility for the public as well as elementary to high school students, businesses, and other LGUs and national government agencies. It will also house the Rescue Base and the City's emergency operations center.

A Memorandum of Understanding (MOU) between the City of Makati, City of Yokohama and Citynet Yokohama Office was also signed last 2018 for the development of capacity building and DRR educational materials. The national government of the Philippines is in charge of managing the fire brigades through the Bureau of Fire Protection (BFP) for the entire country. In addition to the MakSAR, Makati City has other support units such as fire brigades in its barangays.*1 Citynet Yokohama Office and DRRMO, in partnership with the Yokohama Fire Bureau, will provide necessary training to the Makati Search and Rescue (SAR) - the center of Makati City's disaster response and will be cascaded down to the barangays.

However, many firefighters other than BFPs have not received appropriate education or training related to firefighting. Therefore, through this project, a series of hands-on training programs are being conducted in both the Philippines and Japan to develop leaders who can train and instruct MakSAR team members to have a central role in disaster response. This training will result in sustainable capacity building for all the team members.

ACTIVITIES IN THIS PROJECT (AS OF MAY 2020)

DATES	MAIN THEME	CONTENTS
Stage 1 (August 2018)	Assessment	Problem Identification
Stage 2 (September 2018)	Goal Setting	Specific Visions for DRR Achievement Goals
Stage 3 (December 2018)	Training I	Practical Training
Stage 4 (October 2019)	Follow-Up	Confirmation of Retention Rate and Localization
Stage 5 (March 2020)	Training II	ToT for SAR (Online Training)

*1 Barangays are the smallest local self-governing unit of cities and municipalities in the Philippines. Each barangay has its own budget and fire brigade.

CURRENT STATUS

The project has assessed and evaluated the capabilities of the local teams and then set clear goals for each training session. Throughout the project stages, there is continuous evaluation during every training.

Initial observation of the simulation training results indicate improvement in time for the MakSAR team to rescue victims from the second floor of a building using ladders and ropes while extinguishing fires on the first floor. This “Basic Firefighter Training” greatly improved the skills and speed of MakSAR. Careful guidance and follow-up have led to the reliable technical transfer of skills and knowledge. While the project is still ongoing, these achievements indicate excellent progress and success as a result of the training sessions.



SPECIFIC OUTPUTS OF THE CAPACITY BUILDING TRAININGS

- i. MakSAR leaders learn correct training skills and methods from YFB
- ii. Disseminate knowledge gained to other MakSAR team members in Makati
- iii. Localization of training to suit local conditions and the creation of manuals
- iv. Level of retention and on-site proficiency for response checked by YFB
- v. Correct only points that do not conform to the basics and may significantly interfere with future firefighting activities
- vi. Establishment of an educational firefighting system



OBJECTIVES

- Establishment of a technical training program for disaster risk reduction through capacity building activities
- Support the capacity building process of DRRM trainers
- Actively share knowledge and conduct research for advancing disaster risk reduction

MAJOR ACTIVITIES

STAGE 1: ASSESSMENT

TRAINING IN MAKATI, AUGUST 2018

ASSESSMENT OF CURRENT STATUS FOR FIREFIGHTING CAPABILITIES IN MAKATI

To understand the initial firefighting capabilities of MakSAR, YFB dispatched officials as experts to observe two training sessions, “Disaster Relief Training” and “Shelter Management Training”, held at Makati City Hall. The training evaluated MakSAR through two scenarios. The first scenario was prep drill by Makati, and the second was on-the-spot training, “Basic Firefighting Training”, requested by YFB.



Based on the results, YFB completed the following assessment:

- i. About 45 minutes elapsed before the end of the training, and there were still challenges regarding command, tactics, equipment handling and safety management.
- ii. "Entry into the fire scene"*2 was carried out before "water discharge activities" that should be performed immediately, despite the training scenario was based on the assumption of a fire.
- iii. There are risks in the handling and climbing of ladders. There is also room for improvement in the methods of rescuing people who are not unconscious.

Based on these points, YFB conducted a demonstration in “Stage 2” to compare the content of the activities, evaluate training proficiency, and consider future policies.

Due to differences in climate, geography, and culture between Yokohama and Makati, it is difficult to transfer YFB's exact skills to the next level. Therefore, YFB decided to examine how to conduct basic training that would be widely applicable. Makati expressed a desire to learn both technical skills and how to convey this knowledge to a wide range of stakeholders.

*2 Training to search and rescue people left in a burning building by searching for and rescuing them from the inside of the building.

STAGE 2: GOAL SETTING

TRAINING IN YOKOHAMA, SEPTEMBER 2018

OBSERVATION OF COMPREHENSIVE DRR TRAINING AND EVACUATION CENTRE MANAGEMENT DRILLS

This training was held in Yokohama following the completion of Stage 1. Based on the assessments and at the request of Makati, participants took part in the “Comprehensive DRR Training”. This operational training for the evacuation center and disaster response focused on enhancing community-based DRR. It identified the issues that needed to be addressed to create a comprehensive camp management policy in Makati. It included training on the management of the evacuation centre and disaster response headquarters in Yokohama, as well as Yokohama City’s specific training, focused on enhancing Community Based Disaster Risk Reduction (CBDRR) in local communities. It identified the issues that needed to be addressed to create a comprehensive disaster management policy in Makati.

1. Activities

- i. Accumulate knowledge on DRR policies and systems, including a training curriculum
- ii. Comprehending examples from Yokohama’s successful cases in managing its evacuation center

2. Outputs

- i. Reviewing of evacuation center management
 - Consideration of introducing local resident-led evacuation center management
 - Consideration of the concept of stockpiling (from the perspective of preventing prolonged shelter management)
 - Consideration of introducing follow-up training
- ii. Development of curriculum

3. Assessment

Shelter management was first identified as one of the topics to be studied; however, both Makati and YFB identified the need to explore management methods of the disaster response headquarters first.

The establishment of a curriculum level for MakSAR training was concurrently studied by comparing two cities regarding the capacity development for MakSAR.

Through this visit, the overall direction of the DRRM policy in Makati City was established and the objectives of this project were clarified. YFB also recognized the need to localize the “Yokohama Model” to suit local conditions, considering the differences in systems and other factors.



STAGE 3: TRAINING I

TRAINING IN YOKOHAMA, DECEMBER 2018

TRAINING OF TRAINERS FOR MAKATI SAR (HANDS-ON TRAINING)

During the goal setting exercise in Stage 2 held in Japan, a draft roadmap was created to educate trainers who possess proper firefighting technical skills and necessary leadership. This time, CYO invited MakSAR team leaders to Yokohama Fire Academy (YFA) as future trainers to instruct them in basic firefighting skills and instruction techniques.

1. Activities

- i. Basic firefighting training by YFA instructors (Practical skills, classroom lectures)
- ii. Observation of the operations in fire station (Short training, static rope rescue by Rescue Team (YR), Inspection for fire suppressions at the special nursing home, etc.)
- iii. Handling of static rope and equipment by SR team (Practical skills)
- iv. Observation of rescue team test
- v. Observation of in-house trainings by local fire stations

2. Outputs

- i. Basic firefighting training
 - Understanding of introducing safety management during training and activities
 - Understanding of introducing basic firefighting tactics
 - Understanding of introducing fire courtesy
 - Understanding of introducing troop action
 - Introduction of “confirming teammates through vocal communication” in the local language (Tagalog)
- ii. Accuracy, Speed, and Safety of Firefighting Activities
 - Reduction in training time

3. Assessment

Based on the assessment in Stage 1, MakSAR team members learned basic firefighting activities and tactics, as well as practical skills. They focused on learning firefighting and rescue methods by using hoses, ladders and other important firefighting equipment.

YFB also provided instruction to MakSAR team leaders regarding “safety management” to conduct their activities more accurately, quickly and safely. This will not only save the lives of the citizens of Makati but also protect themselves in the actual disaster site. Furthermore, this training provided opportunities to develop the skills of instructors and human resources, which was a great achievement for both Makati and Yokohama.

On the other hand, team leaders are expected to communicate this knowledge to each of the MakSAR team members. For this purpose, it is also necessary to dispatch the same instructors from YFB to the field in Makati at an early stage to provide direct instruction to the rest of the MakSAR team members.





STAGE 4: FOLLOW-UP

TRAINING IN MAKATI, OCTOBER 2019 TRAINING OF TRAINERS FOR MAKATI SAR (PRACTICAL TRAINING)

During the training in Japan on “Stage 3” at YFA, MakSAR learned about basic firefighting tactics, safety management, and necessary skills for firefighter training leaders. This session focused on assessing and reinforcing training results, followed up with assessments for the next training.

1. Activities

- i. Reviewing of learning outcomes from the basic firefighting training and its retention rate, technical guidance (Practical skills)
- ii. Confirmation of learning outcomes the Rapid Intervention Training (“RIT”) and its retention rate, technical guidance (Practical skills)
- iii. Confirmation of training instruction methods (Practical skills)
- iv. Evaluation of entry into fire scene and survivor search training (Practical skills)
- v. Technical guidance for handling equipment (Practical skills, Classroom lecture)
- vi. Assessing the status of firefighting capabilities (Including fire vehicles and equipment)

2. Outputs

- i. Overall Training
 - Introduction to safety management and preparation of procedure manuals
 - Learning the process to draft a standardized training manual
 - Reviewing the introduction of short-time training and sharing field experience
- ii. Organization, System and Human Resource Development
 - Reviewing the introduction procedures to improve discipline
 - Introduction of physical strength measurements to assess the capabilities of team members
 - Reviewing enhancement of equipment, etc.
 - Setting up a leadership role in charge of training in each team





3. Assessment

It was confirmed that the safety management and basic firefighting skills that were transferred to each team leader in “Stage 3” in December 2018 correctly conveyed the necessary skills to team members from the leaders. As a result, all four SAR teams were able to complete the basic firefighting demonstration training in less than 10 minutes. However, there were still some gaps among team members in terms of accuracy and speed. Therefore, each team member as well as their leaders were instructed on a case-by-case basis to narrow down the technical problems and correct them. Before the next training, YFB encouraged and requested SAR to set up new goals for further improvement (e.g. completing the demo training in less than 6 minutes).

Throughout this assessment, YFB identified some differences between Makati and Yokohama because SAR adopted the U.S. method regarding “Entry into Fire Scene” and “Survivor Search”. However, it is also confirmed that there were no major problems, so YFB decided to formulate the content of future training based on this assessment.

STAGE 5: TRAINING II

ONLINE VERIFICATION OF TRAINING TACTICS, MARCH 2020

During the training on “Stage 4” in Makati, YFB assessed the “entry into fire scene” and “survivor search” training. Due to time constraints associated with the spread of COVID-19 that occurred in the second half of 2019, YFB could only confirm the retention rate for basic firefighting training among MakSAR team members and progress on the issues that YFB addressed in “Stage 4”. Also, due to the entry restrictions to the Philippines, it was necessary to change the training program and program delivery from on-site training to on-line training consisting of two parts.

The first step was to review Makati’s training by checking training videos submitted by Makati. The second step was to evaluate the actual training via live streaming of the activity and give feedback to the team members on the spot.

1. Activities

- i. Confirmation for the learning effect of the Basic Firefighting Training (Practical skills)
- ii. Breathing Apparatus Handling Training (Practical skills)

2. Outputs

- i. Overall Training

Achieved target times in both training sessions:

- Target time within 6 minutes for basic firefighting training was achieved (all teams)
- Target time within 90 seconds for breathing apparatus handling training was partly achieved (about 1/4 of all team members)

- ii. Organization, System and Human Resource Development

- Drafting of a safety management manual
- Drafting a manual for handling emergency ladders
- Identifying issues for each team and consider sharing knowledge management among all teams
- Purchasing replacements of ranger ropes





3. Assessment

The target time for the basic firefighting training in which YFB addressed MakSAR at “Stage 4” was 6 minutes. The time spent for the training from arrival at the scene to descend a survivor to the ground after the rescue was 3 minutes 20 seconds, and the entire training from arrival at the scene to returning the various equipment to the fire truck was 5 minutes and 35 seconds, which indicated that their training performance was very good. The “handling of ladders” and the “vocal volume” when doing the activity has been greatly improved. In the “breathing apparatus handling training”, the selected member of MakSAR was able to accomplish the task in 72 seconds from putting on the fire gear to carrying the breathing apparatus on his back. This was also less than the targeted time of 90 seconds.

On the other hand, however, there were some aspects where the emphasis was too much on speed and too little on safety and certainty. Considering the result, Yokohama Fire Bureau (YFB) pointed out that it is necessary to check the items in their safety management operation and incorporate them into the training manual. MakSAR training has been conducted only once since the last training in October 2019 due to difficulties in securing a training place for RIT training.

To enhance the training content, the future goals are to maintain the current speed and focus on four points below:

- Safety confirmation;
- Confirming teammates through vocal communication;
- Instruction process;
- Information sharing.

It was agreed that these points should be reinforced since some of the MakSAR team members have not yet learned how to carry, extend, and wind fire hoses smoothly and how to discharge water thoroughly.

THE PROJECT IN NUMBERS

KEY PROJECT STATISTICS

Number of training days in Yokohama	7
Number of training days in Makati	4
Number of technical visit days in both cities	6
Cumulative total numbers of MakSAR participants for the training sessions	147



CONTENT OF TRAINING IN MAKATI AND YOKOHAMA

Training Sessions	Practical Skills		
		Basic Firefighting Training	8
		Breathing Apparatus Handling Training	2
		Training for Static Rope Handling Skills by Yokohama Super Ranger (SR)	1
		Rapid Intervention Training (RIT) * ³	1
		Entry Into Fire Scene and Survivor Search	1
		Instruction On Hose Handling and Rope Work	1
		Confirmation of Training Instruction to Team Members by MakSAR Leaders	1
	Observations	Underground Entry Procedures	1
		Static Rope Handling Skills	1
		Survivor Search Training	1
		Crane Truck Operation	1
		Test for Rescue Team * ⁴	1
		Correspondence to Plunge and Lack of Oxygen Training	1
		Alternant and Inspection	1
		Training by the Fire Brigade and Yokohama Ranger (YR) in FS	1
		Inspection for Fire Suppressions * ⁵	1
		Combustion Experiment by Using Fire Control Box * ⁶	1

*3 Rapid Intervention Training (RIT) to rescue members who are unable to escape from the fire scene.

*4 To measure the standards of the basic competencies that a rescuer should possess.

*5 In the event of a fire in the building, firefighting equipment (sprinkler system, etc.), water sources for firefighting (location of fire hydrants and fire water tanks) and even the firefighting activities policy must be surveyed in advance to make it easier for actual firefighting activities.

*6 A simple box is used as a building to learn how a fire occurs, including changes in flames and smoke.

CONTENT OF TRAINING IN MAKATI AND YOKOHAMA

Training Sessions	Classroom	Training Instruction Methods	1
		Safety Management	1
		Basic Firefighting Tactics	1
	Lectures	Private Fire Brigade Operations	1
	Policy Meetings (excluding regular meetings)		5
External Skills Development Course		Advanced Level of DRRM Training ^{*7}	1
Technical Visits		Disaster Relief Training	2
		Evacuation Centre Management Training	2
		Disaster Response Headquarters Operation Training in Yokohama	1
		Regional Disaster Prevention Base (Stockpiles and Emergency Hydrants)	1
		Large-Scale High-Rise Building Inspection	1
		Makati Command Centre and Meteorological Observatory	1
Others ^{*Incl. Courtesy Call}			

^{*7} This is a training program in which the City of Yokohama shares advanced examples of DRR with people who oversee DRR in their town and community associations.



WAY FORWARD



Halfway through the project, Makati SAR has made remarkable progress in basic firefighting skills. In addition, MakSAR has drastically improved its ability to perform these activities through the handling training of various equipment such as breathing apparatus and ladders. In addition, their mastery of safety management will help protect the lives of the MakSAR members and ensure their safety.

This ability to accurately acquire skills through repeated training and to quickly and safely perform firefighting and rescue operations helps MakSAR team members reach the scene of a disaster as quickly as possible and save lives.

“Basic Firefighting Training” is the most basic firefighting tactic. Thus, it can be applied to many disaster situations. To achieve these abilities, it is necessary to promote the "standardization of firefighting activities" so that every MakSAR team member can perform the same actions.

Based on the training sessions, classroom exercises and technical visits that have been conducted in both cities, Makati City will be developing a standardized manual to maintain and further improve the skills of MakSAR in the future.

With these acquired skills, more advanced training programs such as “Entry into Fire Scene and Survivor Search” and rescue operation on the upper floors were planned to be conducted. However, due to the COVID-19 pandemic this year, face-to-face training will be difficult to conduct for the time being.

Therefore, as in "Stage 5", CYO will continue to conduct online-based training by utilizing a variety of tools or ICT, cooperating with the City of Yokohama as well as the City of Makati. Complex disasters such as floods or large-scale earthquakes that could occur during a pandemic pose new challenges for Asian cities that face a variety of disaster risks. CYO will also continue to move forward to overcome these dual challenges and improve city-level DRR in the Asia-Pacific region.

LIST OF MAKATI PARTICIPANTS

PROJECT MANAGEMENT TEAM

PROJECT DIRECTOR:	Mr. Richard Raymund R. Rodriguez
ASSISTANT PROJECT DIRECTOR:	Ms. Liza Velle B. Ramos
TRAINING MANAGER:	Ms. Fleda Rose L. Castro
LEAD TECHNICAL STAFF:	Ms. Ruth Jeanne J. Aguas
PROJECT COORDINATOR:	Ms. Joyce Ann H. Santos
ADMINISTRATIVE ASSISTANT:	Ms. Mary Lou D. Triste

TRAINING OF TRAINERS ON COMMUNITY-BASED EVACUATION AND CAMP MANAGEMENT

1 – 7 September 2018 | Yokohama, Japan

1. Mr. Rabboni T. Saipudin (Emer. Services Section Head, Makati Social Welfare Dept.)
2. Dr. Geoffrey M. Felipe (HEMS Coordinator, Makati Health Department)
3. Ms. Liza Velle B. Ramos (Research & Planning Div. Head, Makati DRRMO – Research and Planning Division)
4. Ms. Ruth Jeanne J. Aguas (Project Development Officer)
5. Ms. Fleda Rose L. Castro (Training Section Head, Makati DRRMO – Training Section)

TRAINING OF TRAINERS FOR FIRST RESPONDERS STAGE 3

2 – 12 December 2018 | Yokohama, Japan

1. Mr. Anthony T. Melendres (Search and Rescue Section Head)
2. Mr. Richard A. Tupaz (Alpha Team Leader)
3. Mr. Andrew M. Reyes (Bravo Team Leader)
4. Mr. Joel P. Carandang Charlie Team Leader
5. Mr. Richard V. Perez (Delta Assistant Team Leader)
6. Ms. Fleda Rose L. Castro (Training Section Head/Training Manager)
7. Ms. Angelica J. Montaus (Training Assistant/Coordinator)
8. Ms. Karen Ava G. Borromeo (Makati DRRM Academy Project Management Team/Course Monitor)

TRAINING OF TRAINERS FOR FIRST RESPONDERS PHASE 3 March 07, 2020 (Saturday) Dry-run / pre-recorded video of the scenario

SEARCH AND RESCUE PERSONNEL TEAM ALPHA

1. TL Andrew Reyes
2. Ma. Jennelyn Tomas
3. Citosted Gapay
4. Jaime Cordero
5. Micoh Adriane Ranchez
6. Darnel Baliola
7. Alejandro Perez

TEAM BRAVO

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5. Antonio Ching
6. Christopher Daro
7. Michael Antony Madamba

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1. Angelica Montaus
2. Karen Ava Borromeo
3. Ma. Teresa Reyes

OTHER DRRMO PERSONNEL (SUPPORT)

VIDEOGRAPHER

1. Roger Pagpaguitan

INFO AND WARNING PERSONNEL

1. Ryan Felipe

ADMIN SECTION

1. Shekainah Santos
2. Princess Marynold Vicuña
3. Kenneth Joy Miranda

Recording with Yokohama Fire Bureau and CITYNET March 12, 2020 (Thursday)

SEARCH AND RESCUE PERSONNEL

1. TL Liana Sandra Melchor
2. TL Richard Perez
3. Ma. Jennelyn Tomas
4. Micoh Ranchez
5. Jaime Cordero
6. Citosted Gapay
7. Alejandro Perez
8. Darnel Baliola
9. Stallin Valenciano

TRAINING SECTION

1. Angelica Montaus
2. Karen Ava Borromeo
3. Ma. Tessa Reyes

OTHER DRRMO PERSONNEL (SUPPORT)

1. Princess Marynold Vicuña
2. Shekainah Santos
3. Julius Pecate











CITYNET is an expanding network connecting local governments and urban stakeholders across the Asia-Pacific region. CITYNET promotes capacity building and city-to-city (c2c) cooperation for people-friendly cities.



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