

CONTINGENCY PLAN FOR EARTHQUAKES

Parañaque City

Disaster Risk Reduction and Management Council

ON GOING UPDATING

Prepared By: Parañaque City Disaster Risk Reduction and Management Office (2015)

MESSAGE



Congratulations to the Disaster Risk Reduction and Management Office for coming up with this very informative and very timely handbook on disaster risk reduction and management called “Contingency Plan for Floods and Earthquakes” which, as its name suggests, is our city’s blueprint and guide in dealing with such calamities.

It is now an accepted fact, as evidenced by recent events that impacted our city, that natural disasters will be a part of our lives. While these events are very hard to predict, much less avoid, it should not deter the city government and the people of Parañaque from making preparations so that the impacts of these disasters can be minimized.

Our nation has paid a very high price in terms of human lives and properties lost to various natural disasters, which makes it imperative for all communities and local government units to come up with contingency plans especially in the face of calamities like floods and earthquakes.

This “Contingency Plans for Floods and Earthquakes” should help various stakeholders in determining all kinds of threats that we face from natural calamities, and to prepare based on available and verifiable data and risk analysis. From this “Plan”, we hope to come up with more solutions and viable approaches to disaster management in the immediate future.

I commend the DRRMO under Dr. Teodoro Gonzalez Jr. as well as all the members of the Disaster Risk Reduction and Management Council for this initiative. Certainly, this will go a long way towards helping save lives and properties. And even if this “Contingency Plan” is able to save only one single life in the future, it should be worth all your efforts.

Again, congratulations for a job well done!

Yours in public service,

A handwritten signature in black ink, appearing to read 'Edwin L. Olivarez'. The signature is fluid and cursive, with a large initial 'E' and 'O'. It is positioned above the printed name and title.

EDWIN L. OLIVAREZ
City Mayor

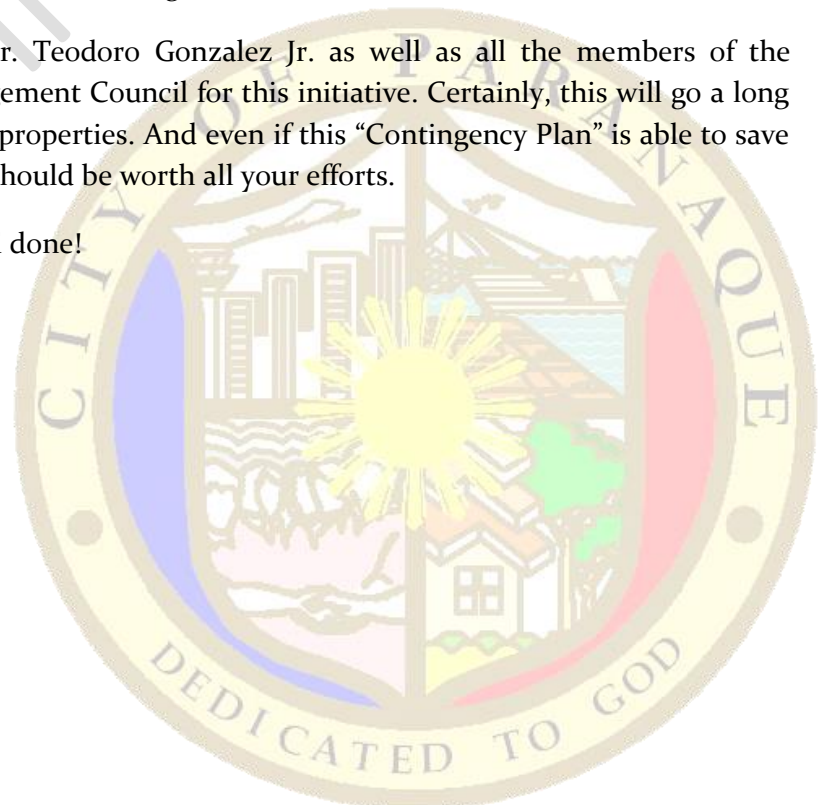


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CHAPTER I: BACKGROUND AND RATIONALE

A. BACKGROUND OF PARANAQUE CITY

GEOGRAPHIC

A. Boundaries

The boundaries of Parañaque are Pasay City on the north, Taguig on the northeast, Muntinlupa on the southeast, Las Piñas on the southwest and Manila Bay on the west.

B. Climate

Parañaque experiences the same climate and weather condition with that of Metro Manila having two (2) distinct seasons: wet season from July to September and dry season for the rest of the year. Parañaque enjoys annual rainfall of 1,822 mm. and 34.4 Celsius temperature, a relative humidity of 76% and three (3) mile/second speed of the southeast wind.

C. Topography

The city is relatively flat and situated along the coastline areas of six (6) barangays namely:

Baclaran, Tambo, Don Galo, Sto. Niño, La Huerta and San Dionisio.

The other barangays such as Moonwalk, Vitalez, San Isidro, BF, Don Bosco, Marcelo Green, Merville, Sun Valley, San Antonio, and San Martin de Porres have an elevation ranging from 10 to 35 above mean water level.

D. Soil Type

The soil of Parañaque is classified under Guadalupe soil. It is a volcanic eject that produces a loam to clay loam texture that can hold more water. The soil contains more clay than silt. Its permeability is low with high swelling capacity.



Figure 1. Parañaque City Barangay Boundary Map

E. Agricultural Resources

There are two remaining barangays which involved in vegetables and crop production, namely: Merville and Moonwalk. The annual production of vegetables which consists of pechay, mustard, and kinchay reached up to 42.288 metric tons.

Municipal fishing is the source of the livelihood for sixty seven (67) fishermen which are confined along coastal areas of Manila Bay. In 2005, the average catch of sardines, herrings, anchovies, groupers, crabs, squids reached to 49,924 kilos.

The city has a total of 125 hectares of brackish water fishponds, 61.4 hectares are operational with 13 existing operators. It has an annual yield of 52.88 metric tons per year. Species being cultured are milkfish (bangus) and prawns

F. Land Use

Zoning

The City of Parañaque, through the Sangguniang Bayan passed Ordinance No. 07-027, series of 2007 more commonly known as the Amended Comprehensive Land Use Plan and Zoning of Parañaque. It has adapted this legal tool in implementing its goals and objectives in the all-out support to develop the city.

Under Section 19 of Ordinance 07-027, all land development and building construction/renovation/alteration of residential, commercial, and industrial structures are required to secure the necessary zoning/locational clearance prior to the implementation of the project.

This will guide, control, and regulate the future growth development of Parañaque while protecting public health, safety, peace, comfort and convenience of its constituents.

Commercial Areas

Barangay Baclaran remains the principal central business district while the corridors of Ninoy Aquino and Dr. A. Santos Avenues are the sites of the fast growing business and commercial activities. Business and commercial establishments have also sprouted and continue to proliferate inside BF and Doña Soledad Ave. in Better Living Subdivision and within Multinational in Barangay Moonwalk.

Industrial Areas

Industries are concentrated along the South Superhighway beginning from the eastern side of Barangays Merville, Sun Valley, North and Southern part of Marcelo Green and eastern side of San Martin de Porres.

Residential Areas

This constitutes the largest portion of Parañaque and evenly distributed from Barangay Tambo and all throughout the other barangays of the city.

Open Spaces

The remaining largest portion of the marine ponds are located along Ninoy Aquino Avenue from Don Galo to San Dionisio and scattered portions of open spaces within the subdivisions of Barangay Merville, Don Bosco, Marcelo Green, San Dionisio, San Isidro and BF.

DEMOGRAPHIC

Population:

CLASSIFICATION	TOTAL	MALE	FEMALE
Total Projected Population	637,434	311,153	326,281
Children	214,342		
Senior Citizens	37,897	16,303	21,594
Age Structure:			
0-14 years old	177,776	93,999	83,777
15-24 years old	125,737	59,807	65,930
25-54 years old	274,579	130,805	143,774
55-64 years old	36,816	17,373	19,442
65 years and over	22,526	9,196	13,357

As projected for Calendar Year 2013, the population of Paranaque City is 637,434. The city has a young population of 28.9% young-age dependency or 177,776 young dependents (0-14 years old) and 3.5% old-age dependency or 22,526 old dependents (65 years old and over).

Population Distribution:

Among the sixteen (16) Barangays of Parañaque, the largest in terms of population size is Barangay BF with a projected population of 90,459, second is Barangay San Isidro, with 74,823 people and third, Barangay San Dionisio with 66,061 residents as shown in the table below.

Projected Population and Household Distribution

City of Parañaque, CY 2013

Data from Ultimate Disaster Preparedness, CPDCO

Barangay	Population	No. of Households
Baclaran	23,120	7,325
Tambo	28,406	6,817
Don Galo	11,735	2,267
La Huerta	9,525	1,845
Sto. Niño	30,602	7,532
Vitalez	4,897	1,139
San Dionisio	66,061	15,640
San Isidro	74,823	16,831
San Antonio	64,865	14,831
BF	90,459	21,162
Sun Valley	40,737	9,693
Marcelo Green	31,184	8,232
Don Bosco	51,614	11,500
Merville	22,101	4,269
San Martin De Porres	22,693	6,907
Moonwalk	64,612	12,935
Total	637,434	148,925

Birth and Death Rate:

In 2009, the crude birth rate was 14.04./1,000 population and the crude death rate was 3.53/1000 population.

Majority of the leading causes of morbidity remains to be communicable diseases such as: Acute Upper Respiratory, Bronchitis, Dermatitis, Intestinal Parasitism, Diarrheal Diseases, Pneumonia and Pulmonary Tuberculosis.

SOCIAL

A. Health Resources

There are sixteen (16) health centers and four (4) barangay health stations. The three (3) health stations are located in Barangay BF, namely: Masville, Sampaloc and J.Estrada and the other one (1) health station is located at Silverio Comp., Barangay San Isidro. Three public lying-in clinics are located in Barangays Baclaran, Tambo and San Martin de Porres. The city's public hospital is located at Barangay La Huerta which is commonly known to Paranaqueños as Parañaque Community Hospital (PCH) now known as the Florencio V. Bernabe, Sr. Memorial Hospital with 50-bed capacity. Seven (7) private hospitals are also located within Parañaque.

B. Education

Formal education is being served by both public and private schools. There are twenty one (21) public elementary schools in Parañaque, and several private schools situated in the different barangays.

Secondary education is delivered by several private schools and three (3) public high schools with six (6) annexes.

Tertiary education is being served by fourteen (14) private schools and one (1) public college, the Paranaque City College of Science and Technology.

D. Waterworks

Much of the water supply comes from Maynilad Water Service Inc. (MWSI) whereas quite a number use pumps and artesian wells are constructed especially those in the depressed areas. Water supply is no longer the major problem of the residents for the City Government has done everything to provide potable and adequate water supply. It has constructed sixty-nine (69) pumps and artesian wells in the different blighted areas of the city.

On the other hand, the availability of water in District I and II are provided by the MWSI and some portion comes from deep wells. At present, the main source of water is far up north (Bulacan). Parañaque is approximately 27 kilometers from existing Balara Treatment Plant and 32 kilometers from La Mesa Dam.

SECURITY AND DEFENSE

A. Police Protection

The Parañaque police have eight (8) Community Precincts with a total strength of three hundred and fifty nine (359) policemen. This translates to a ratio of one (1) policeman for every one thousand nine hundred and ninety (1,990) inhabitants (1:1,990). With the present strength of 359, there would be approximately 3.8 policemen (divided into 2 shifts) for every square kilometer of land area.

B. Fire Protection

The Parañaque Fire Station has five (5) substations, including Central Fire Station with a total strength of sixty three (63) personnel.

The Fire Department is not only responsible for the prevention of all destructive fires and for the enforcement of the Fire Code of the Philippines. It also conducts seminars, lecture, fire drills to all commercial and industrial buildings, schools, hospitals and barangays. The department conducts barangay competition on fire drills every year to develop their skills in fire fighting techniques.

C. Power Supply

Meralco supplies the power needs of Parañaque. Power service is distributed to the following types of consumers: residential, commercial, and industrial purposes.

D. Telecommunications

The existing telecommunication network of Parañaque is being served by PLDT and SMART but, PLDT covers the largest cross section of the sixteen (16) barangays.

All of the telecommunications companies that are offering cellular services are also operating in the city, with the majority having cell sites here in Paranaque.

Three (3) telegraph companies serves Parañaque namely: Philippine Telegraph and Telephone Company (PT & T); the Radio Communication of the Philippines, Inc. (RCPI) and the Phil. Communication (PhilCom).

The Parañaque Central Post Office and an annex in the City Hall serve the postal system.

B. RATIONALE

The City Disaster Risk Reduction and Management Council (CDDRMC) embarked on the formulation of this Contingency Plan to explore the impacts and prepare for the eventuality of an earthquake in our locality. It is the aim of this contingency plan to solidify and organize relationships and coordination efforts among members of the Disaster Management domain.

This plan summarizes the city's alerting systems and organizational framework for responding to such disasters. Managerial and tactical actions, functions and responsibilities of city departments and other agencies described so that impacts of earthquakes may be mitigated, reduced and responded to with the goal of quickly and efficiently restoring normal quality of life.

This contingency plan is intended for the sole beneficiary of the city's citizens. This plan is also intended for the Local Government Units down to the local communities, Non-Government Organizations (NGOs), Civil Society Organizations (CSO), Volunteer Organizations (VO), other instrumentalities and other agencies that may be utilized during earthquake.

C. CONTINGENCY PLAN FORMULATION AND APPROVAL

This Contingency Plan for Earthquake was initially formulated during the AUSAID-UNDP READY for GMMA Project Contingency Planning Workshop on October 8-12, 2012 at One Tagaytay Place, Tagaytay City in partnership with the LGU of Paranaque and OCD-NCR by representatives of the City Disaster Risk Reduction and Management Council of Paranaque.

Continuous refinement of its components of the later transpired wherein members of the DRRMC and other agencies provided their comments, suggestions, additional information to completion of data and improvement. The first draft was made by the end of December 2012.

The draft Contingency plan was presented to the members of the CDRRMC for review and finalization held on February 21, 2014 at the Mayor's Conference Room, Paranaque.

Upon the availability of a more comprehensive hazard and analysis data, the NDRRMC through the Office of Civil Defense conducted a writeshop to update and enhance the existing Contingency Plans on October 28-31, 2014 at Hotel Kimberly, Tagaytay City.

The draft Contingency Plan was further updated and refined on January 26-30, 2015 at Subic Holiday Villas, Subic Bay Freeport Zone, Olongapo City.

The Plan was tested in the 1st Metro Manila Shake Drill on July 30, 2015. The event was a Regional Simulation of the 7.2 Magnitude Earthquake originating from the West Valley Fault. Findings and recommendations thereof have been included in this plan.

The contingency plan was presented to the CDRRMC members upon finalization and was forwarded to OCD for final approval, endorsement to the SangguniangPanglungsod for review, approval and adaption.

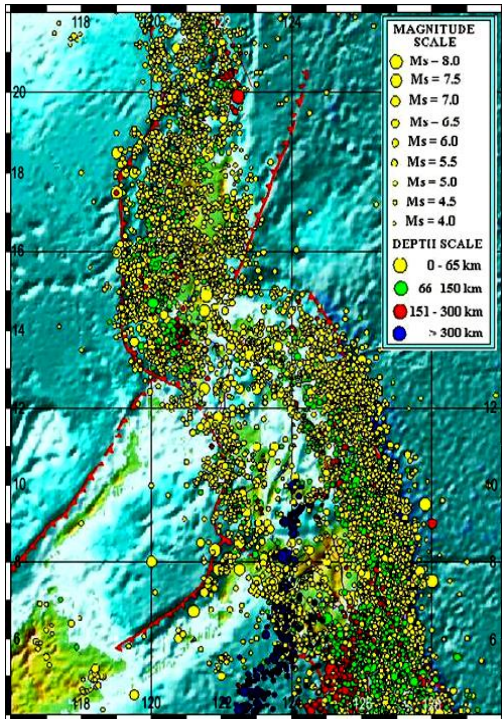
CHAPTER 2: KEY CONSIDERATIONS IN THE FORMULATION OF CONTINGENCY PLAN FOR EARTHQUAKE

The City of Parañaque is vulnerable to the impact of earthquakes due to its geographical location being in close proximity to fault lines and trenches on both sides of the city as well as its geological composition of the land. In the occurrence of a high magnitude earthquake, the effects that studies show, is devastating to the city. Thus, measures have been taken to further explore the impacts of such a disaster so that appropriate actions are to be configured in this contingency plan.

A. Hazard Identification and Risk Profiling

TECTONIC SETTING OF THE PHILIPPINES

The Philippines' geographical and geological setting makes it prone to earthquakes as it is situated within the Pacific Ring of Fire, where two major tectonic plates of the world meet. This would explain the occurrence of twenty (20) earthquakes recorded per day and that makes up to 100 to 200 earthquakes felt every year some of which could cause tsunamis. The Philippines is likewise home to 300 volcanoes, 22 of which are active and 24 are potentially active. The image below depicts documented earthquake occurrences in the Philippines, their Magnitude (the energy generated by the earthquake) and Depth of the earthquake from sea level.



Seismicity of the Philippines

Magnitude 4 or greater

- ~ about 20 earthquakes recorded per day
- ~ 100-200 felt earthquakes per year
- ~ over 90 destructive earthquakes for past 400 years

METRO MANILA EARTHQUAKE IMPACT REDUCTION STUDY (MMEIRS)

2002, the Government of the Philippines requested the Government of Japan to conduct an Earthquake Impact Reduction Study through the Japan International Cooperation Agency (JICA) and its counterpart agencies the Metro Manila Development Authority (MMDA) and Philippine Institute of Volcanology and Seismology (PHIVOLCS) which was completed in 2004.

The objective of the study is mainly to assess the impacts of possible earthquake scenarios that may occur in many of the earthquake sources that surround Metro Manila and thereby establish a master plan for reducing their possible impacts.

Based from historical data three (3) modeled earthquake scenarios (namely, Model 8 West Valley Fault Magnitude 7.2, Model 13 Manila Trench, Magnitude 7.9 and Model 18 Manila Bay Magnitude 6.5) are notable. Model 8 has been modeled to demonstrate the Worst Case scenario as it occurs in the night time with weak to strong aftershocks.

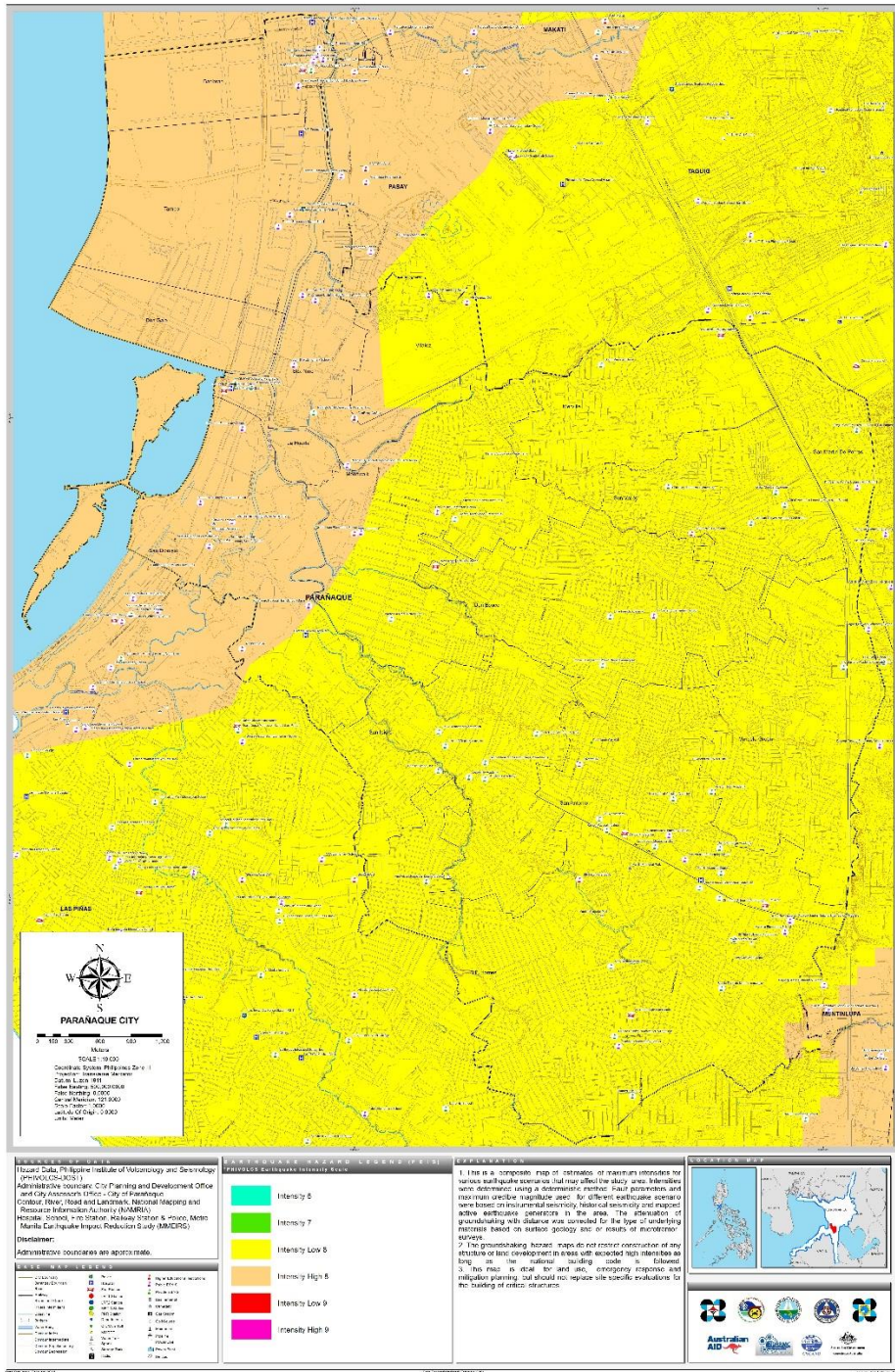
Studies show that the West Valley Fault System has had 2 to 4 fault movements over the last 1,200 years wherein the last earthquake occurred in August 19, 1658 with a Magnitude of 5.7. Research indicates that the active phases of the fault system have a reoccurrence of 400-600 years.

The damage summary for Metro Manila in the occurrence of the Model 8 scenario are as follows:

- a. The earthquake could damage approximately 38% of the residential building (1.3 Million structures), 38% of the 10-30 story building (981 structures), 14 % of the 30-60 story buildings (total 119)
- b. Metropolitan Manila will possibly be separated into four regions by the earthquake impact because of the following reasons:

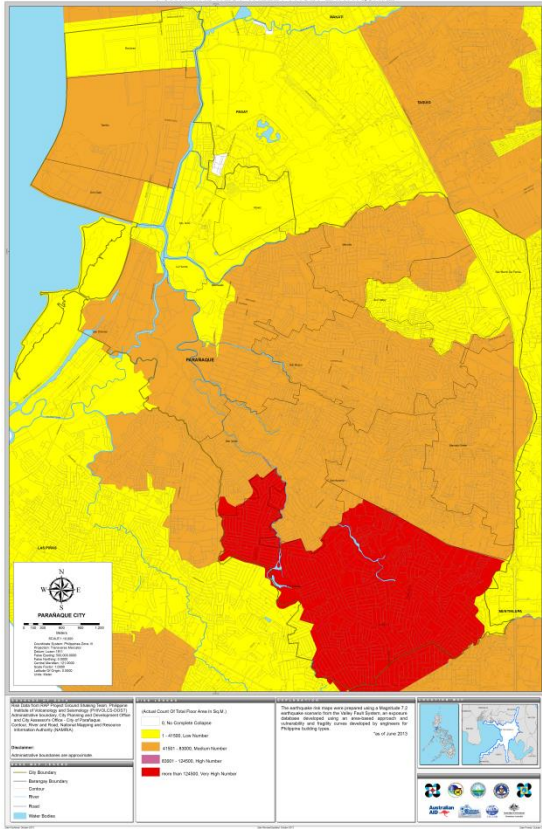
Metropolitan Manila West	Manila, Malabon, Navotas, Pasay	Will be isolated by fire and building collapse
Metropolitan North and South	NORTH: Quezon City, Mandaluyong, Caloocan, Valenzuela, San Juan SOUTH: Makati, Taguig, Pateros, Las Piñas, Muntinlupa, Parañaque	Will be separated by building collapse and geographical condition. The intersecting areas between Mandaluyong and Makati has a high possibility of building collapse. Pasig river runs east to west which is naturally disadvantageous in terms of separation
Metropolitan East	Marikina, Pasig	All road networks runs from east to west on the fault will be broken due to the movement. Road networks running north-South in fault areas will be difficult to use due to high number of building collapse

▲ RISK ANALYSIS PROJECT: GROUND SHAKING 7.2 HAZARD MAP OF PARAÑAQUE CITY



Through the Risk Analysis Project (RAP), the map above describes that upon the occurrence of a 7.2 Magnitude earthquake from the West Valley Fault. The Intensity distribution shows that most of Parañaque City will experience low intensity 8 while coastal barangays such as Baclaran, Tambo, Santo Nino, Baclaran and parts of San Dionisio, Moonwalk and BF Homes will experience High Intensity 8.

▲ RISK ANALYSIS PROJECT: TOTAL FLOOR AREA IN COLLAPSED DAMAGE STATE FOR A M7.2 WEST VALLEY FAULT EARTHQUAKE



The risk maps above describe the total floor area damages from complete collapse to slight damage state in a 7.2 Magnitude earthquake originating from the West Valley Fault. Highest risk of building damages are in the area of Barangay BF and Don Bosco due to the assumption of the concentration of residential homes were built pre-1970's. The data does not reflect the recent development of structures in the area.

Paranaque City Floor Area Damage at 7.2 Magnitude Earthquake at the WVF		
Category	In m²	Per km²
Total	47,289,914.56	47,289.91
Slight Damage	2,897,909.00	98.60
Moderate Damage	4,893,277.00	168.80
Extensive Damage	4,307,947.00	154.88
Complete Damage	5,149,340.00	191.49
Complete Collapse Damage	681,479.00	24.84

Economic Loss (millions of pesos) from a 7.2 Magnitude Earthquake at the WVF		
City	Loss (per km²)	Loss
Parañaque	49236.45	131392

The total the floor area damage could contribute to 131, 392,000,000.00Php in economic loss. Again, these values is limited to the available data and may have not included the recent development of the city therefore this billions of pesos in economic loss could have multiplied in recent years and will surely inflate in the future.

Paranaque City Casualties (7.2 Magnitude Earthquake from the WVF)		
Category	Per km²	Total
Slight Injuries	6,778.37	18,616
Serious Injuries	1,980.05	5,396
Life-threatening Injuries	202.94	496
Fatalities	515.06	1,385

Estimated injuries and fatalities of the said earthquake could rise in numbers in the future due to population rise and likewise development of the city's economy attracts influx of employees from neighboring cities.

ROOT CAUSES, EARLY WARNING & TRIGGERING FACTORS OF EARTHQUAKES

Hazards/ Disasters	Root Causes	Early Warning	Triggering/Contributory Factors
Ground Shaking (earthquake)	- geographical location of Parañaque City (proximal to the West Valley Fault and Manila Trench)	-reports, data, and information on seismic activities from PHIVOLCS -Initial ground shaking as early warning for secondary hazards	- natural causes/factors - movement of plates, trenches and faultlines - weak and damaged infrastructure, structures not adhering to the building code
Liquefaction	-geographical constitution of land along coastal areas (soft sediments)	- reports, data and information on seismic activities and land constitution from PHIVOLCS, NAMRIA	- ground-shaking - tsunami - intense rainfall and flooding

(Data DRRMP 2011 prepared by CPDCO)

SCENARIO BUILDING

An overall risk analysis of the flood incident with considerations of the hazard, the vulnerability and exposure data the following assumptions was made:

EARTHQUAKE (GROUND-SHAKING HAZARD)

Based on High Susceptibility – 16 Brgys.

Barangays Affected:

Brgy. Baclaran	Brgy. La Huerta	Brgy. San Martin De Porres	Brgy. Vitalez
Brgy. Tambo	Brgy. San Dionisio	Brgy. San Isidro	Brgy. Don Bosco
Brgy. Don Galo	Brgy. Sto. Nino	Brgy. San Antonio	Brgy. Merville
Brgy. Sun Valley	Brgy. BF Homes	Brgy. Marcelo Green	Brgy. Moonwalk

Vulnerable Elements most likely to be affected:

No. of Brgys/Population Affected : 16 Brgys. / Pop :620,525

EARTHQUAKE (GROUND-SHAKING HAZARD) CONTINUED

No. of Public Bldgs:

SCHOOLS	:120
C/M/B/Halls	:1 City hall, 16 Brgy. Halls
Health Centers	:16 Health Centers
Hospitals	:1 Public Hospitals, 4Private Hospitals
Others	:Lying in (Public) – 6 Lying in (Private) – 6 Airport – (NAIA) PAGCOR Bldg. Malls Entertainment City (on-going construction)

Infrastructure Affected: Bridges / Roads

50% Roads and Bridges

Overpass :

Facilities Affected

Powerlines : 90% (MERALCO)

Waterlines: 90% (MWSS, MAYNILAD)

Communication : 90%

Livelihood Affected : None

2.3 PLANNING ASSUMPTIONS

Based from these data, it can be inferred that in the worst case scenario, the community can no longer cope with the impact of such an event and therefore, the local government will exhaust its response capabilities and will eventually require regional, national or international support. It is further assumed that the city will not be able to respond immediately as they may also become victims or prioritize family members. It is therefore assumed that initially the city will only be at 30% capacity to respond.

ALERT LEVEL FOR ACTIVATION OF CONTINGENCY PLAN

Initial activation of this plan is automatically upon the experienced intensity of VII in the Philippine Earthquake Intensity Scale or higher). Validation of the Philippine Volcanology and Seismology (PHIVOLCS) of an occurrence of an earthquake originating from the West Valley Fault further supplements the activation of this plan.

2.4 DRRM MITIGATION MEASURES

The CDRRMC through its members are conducting mitigation measures to reduce the impact of earthquake within the city.

The following are the existing and on-going DRR/CCA Interventions to address the identified triggering factors:

STRUCTURAL	NON-STRUCTURAL
Establishment of tsunami alerting system Establishment of Earthquake Intensity Meter Establishment of an Operations Center and DRRM Office Rehabilitation of structures vulnerable to the effects of an earthquake	Creation of the CDRRMO Functional/Operational DRRMC Trainings/Seminars on DRRM and Emergency Response for Barangays, Private & Public Institutions Creation and implementation of law/ordinances related to DRRM Strict implementation of building code Vulnerability mapping Implementation of structural reinforcement Mainstreaming of DRRM into the City Development Plan

ON GOING UPDATING

CHAPTER 3: GENERAL POLICIES AND OBJECTIVES

The Parañaque City Disaster Risk Reduction and Management Council shall be guided by the following underlying principles and policies:

- **SELF-RELIANCE** – The plan shall promote and encourage the spirit of self-help and mutual assistance among the agencies and departments of the local government, its officials, and their constituents.
- **UTILIZATION OF RESOURCES** – As a corollary to the preceding principle, the Plan shall ensure the proper utilization by the political and administrative subdivisions of the city, of all available resources in the area before resorting to any request for assistance from other entities or higher authorities.
- **RESPONSIBILITY** – The Plan shall devolve primary responsibility to the government agencies in meeting the needs and in providing relief to affected areas, in coordination with the people themselves.
- **LEADERSHIP** – The Plan shall require government departments, bureaus, agencies and instrumentalities to provide documented plans of their emergency functions, responsibilities and duties.
- **SUPPORT AND ASSISTANCE** – The national government shall support the activities and operations of the local government in the realization of the objectives sought by the plan, and shall give assistance to the latter whenever it is deemed necessary.
- **ORGANIZATION** – The Plan shall promote an organized system of councils, sectors and teams for the proper implementation of this plan.
- **STUDY** – The Plan intends concerned agencies to conduct theoretical and actual studies regarding measures for the avoidance and mitigation of the effects brought by disasters and calamities.
- **COORDINATION** – The Plan shall give rise to open inter-agency links between and among the different offices and agencies of the local government to ensure the free flow of information and data necessary in coping up with disaster and calamity situations and developments.
- **ADEQUATE RELIEF** – Concerned agencies shall provide immediate and adequate relief and rehabilitation to disaster victims.

- **MAINTENANCE** – It shall be a duty of the local government to maintain the availability of resources and ensure its proper condition.
- **PREPAREDNESS** – The plan promotes the dissemination of information means to create and conduct preparatory measures in mitigating the effects of disasters and calamities.

It shall therefore be the course of action of the City Disaster Risk Reduction and Management Council (CDRRMC) to formulate this plan for the creation, improvement and implementation of Standard Operating Procedures for resource allocation and utilization; coordination among council members and other partners; establishment of Command and Control for efficient and effectual response operations during emergencies or disasters.

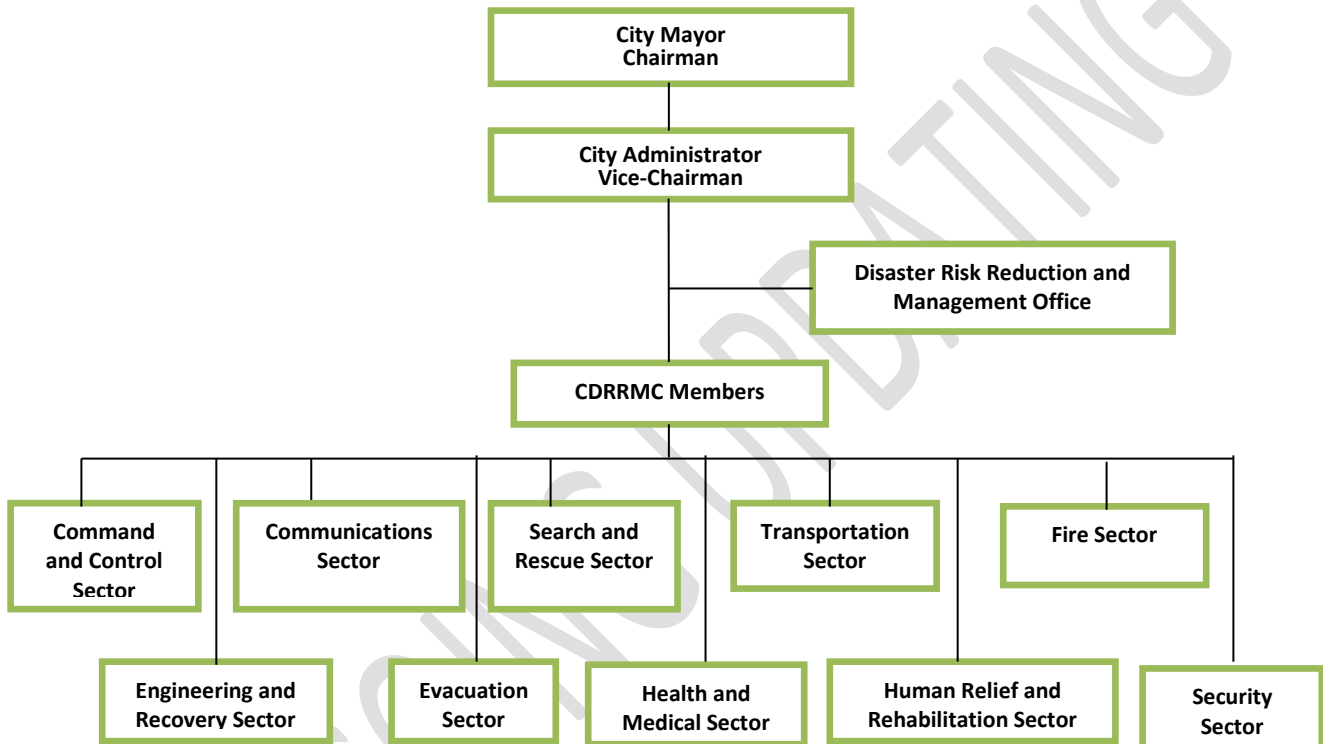
It is the objective of this plan to:

1. Create a plan that is feasible to conduct with the help of testing and updating.
2. Efficiently mobilize resources and devise courses of action during disaster response.
3. Generate commitment and cooperation among stakeholders and entities involved to act during disasters.
4. Lessen the vulnerability of the city and its constituents from the impact of earthquake hazards through the implementation and formulation of this plan.
5. Adapt and integrate national and local norms and standards such as the Incident Command System to ensure efficient management of resources.
6. Implement timely and efficient response mechanisms thereby saving lives and minimizing damage to property.
7. Ensure smooth and effective coordination and partnership among the City Government, BDRRM Committees, government and non-government agencies, civil society organizations and the private sector.

CHAPTER 4: SECTORAL ARRANGEMENT AND PLANS

4.1 ORGANIZATIONAL ARRANGEMENTS

DRRMC Organization



DRRMO Organization



SECTOR LEAD DIRECTORY

SECTOR	LEAD	SUPPORT	NATIONAL	INTERNATIONAL
COMMAND, CONTROL AND COMMUNICATIONS SECTOR	CDRRMC through the DRRMO	All members of the CDRRMC, NGOs, CSOs, VOs and others that may be involved during response operations	MMDRRMC/ NDRRMC	International ICS Community
HEALTH/MEDICAL SECTOR	CHO	DRRMO, LNB, CSO, VO	DOH, NDRRMC, PRC	INGOs, WHO
TRANSPORTATION SECTOR	GSO	CPDCO, DRRMO, NGOs, CSO, CEO	DPWH, AFP, PNP, PCG, PN, BFP, MMDA	INGOs
SEARCH AND RESCUE SECTOR	DRRMO	LNB, CHO, PNP, BFP, NGO, CSO, SAR Groups	OCD, MMDA, AFP, PNP, BFP, PN, SAR groups	INGOs, UN
SAFETY AND SECURITY SECTOR	LOCAL PNP	TMO, BPATS, CSU, LNB. Uniformed personnel	PNP, AFP	
FIRE SECTOR	LOCAL BFP	TMO, PNP, OPVC, DRRMO, NGOs, 16 Barangay Fire Brigades	BFP, Volunteer Fire Groups	
ENGINEERING RECOVERY AND REHABILITATION SECTOR	CITY ENGINEERING	CPDCO, CENRO, LHB, OBO, DPWH, MMDA, NGOs, VO, CSOs, Private Sector	DPWH	INGOs, UN
EVACUATION HUMAN RELIEF AND REHABILITATION SECTOR	CITY ENGINEERING CSWD	GSO, CSWD CHO, DepEd, DRRMO, LNB, CPDCO, CEO, CSO, VO	DSWD, DOH, PRC, NDRRMC	INGOs

SECTOR LEAD DIRECTORY

SECTOR	SECTOR LEAD	HEAD/CHIEF OF OFFICE	CONTACT NOS
COMMAND, CONTROL AND COMMUNICATIONS SECTOR	CDRRMC through the DRRMO	DR. TEODORO B. GONZALEZ JR.	664-4428
HEALTH/MEDICAL SECTOR	CHO	DR. OLGA Z. VIRTUSIO	826-8451
TRANSPORTATION SECTOR	GSO	ELISA S. POJANES	826-8233, 829-6611, 825-7168
SEARCH AND RESCUE SECTOR	DRRMO	DR. TEODORO B. GONZALEZ JR.	664-4428
SAFETY AND SECURITY SECTOR	LOCAL PNP	P/SSUPT. ARIEL L. ANDRADE	826-8121, 826-2877, 808-9559
FIRE SECTOR	LOCAL BFP	F/SUPT. RENATO CAPUZ	826-9131, 826-3176, 829-2076
ENGINEERING RECOVERY AND REHABILITATION SECTOR	BUILDING OFFICIAL	ARC. ELMOR V. VITA	829-0965, 541-5190
EVACUATION SECTOR	CITY ENGINEERING	ENGR. ASER S. MALLARI	826-8272, 487-8596/97, 829-3077
HUMAN RELIEF AND REHABILITATION SECTOR	CSWD	IMELDA C. VILLARUEL	829-3324

4.2 SECTORAL OBJECTIVES, RESPONSE OPERATIONS AND GAP IDENTIFICATION

COMMAND, CONTROL AND COMMUNICATIONS SECTOR

A. SCENARIO:

Magnitude 7.2 Earthquake from the West Valley Fault and the City experiences low and high intensity 8			
Slight Damage (per sqkm)	99	Fatalities	1,385
Moderate Damage (per sqkm)	169	Life-threatening Injuries	496
Extensive Damage (per sqkm)	155	Serious Injuries	5,396
Complete Damage (per sqkm)	191	Slight Injuries	18,616
Complete Collapse (per sqkm)	25		
About 192,879 individuals will be displaced. There will be power outage and total disruption of all lines of communication (landline, cellphones, internet, etc.) in the entire city that may last for 3-4 weeks Parañaque City will need assistance from the Region and the National Agencies			

B. OBJECTIVES

- To establish, oversee and orchestrate an effective and efficient overall response mechanism during emergencies and disasters.
- To ensure that all forms communication systems are adequate, reliable and available for efficient flow of coordination among involved entities of this plan at all times

C. LEAD AGENCY: CDRRMO

- D. SUPPORT AGENCY:** All members of the CDRRMC, NGOs, CSOs, VOs and others that may be involved during response operations

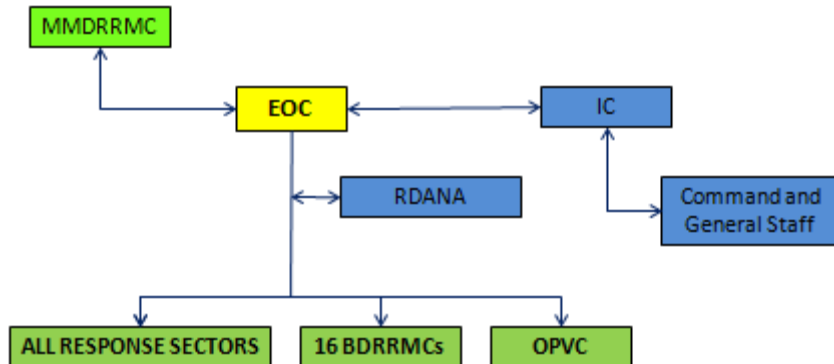
E. TASKS

COMMAND AND CONTROL	
LDRRMC MEMBERS	Shall be responsible for the systematic, efficient and coordinated response mechanism
DRRMO, CPDCO	Shall form an Incident Management Team that will oversee ground operations, determine operational needs and appropriately allocate available resources
CTO, CBO	shall be responsible for the allocation of funds and resources necessary for operations
MAYORS, MMDA,	Responsible for the coordination among LGUs and other agencies for

DRRMO	assistance
DRRMO, CPDCO	Oversee the entire operations from threat of occurrence to its duration and subsequent termination through the implementation of ICS
DRRMO, GSO, CPDCO	Ensure acquisition or procurement of resources as necessary
GSO, SOCO	Ensure availability and functionality of communications equipment
COMMUNICATIONS	
SOCO, CEO, DRRMO, MMDA, OPVC	Shall be responsible in providing an open and secured communications link between and among agencies, offices and divisions concerned
SOCO, CEO, DRRMO	Provide for the maintenance and availability of communications equipment to the command and operational units
SOCO, CEO, DRRMO	Provide updated information regarding the condition of disaster/calamity affected areas
LNB, CSWD, CHO, DRRMO, CBO, CEO CENRO/SWAESO	Provide updates on the effects of earthquakes and other hazards related to the incident for the residents to undertake necessary measures to avoid loss of life and injury
PIO	Provide information to the public and media regarding the event status

F. STANDARD OPERATING PROCEDURE

COORDINATION ACTION



COMMAND AND CONTROL

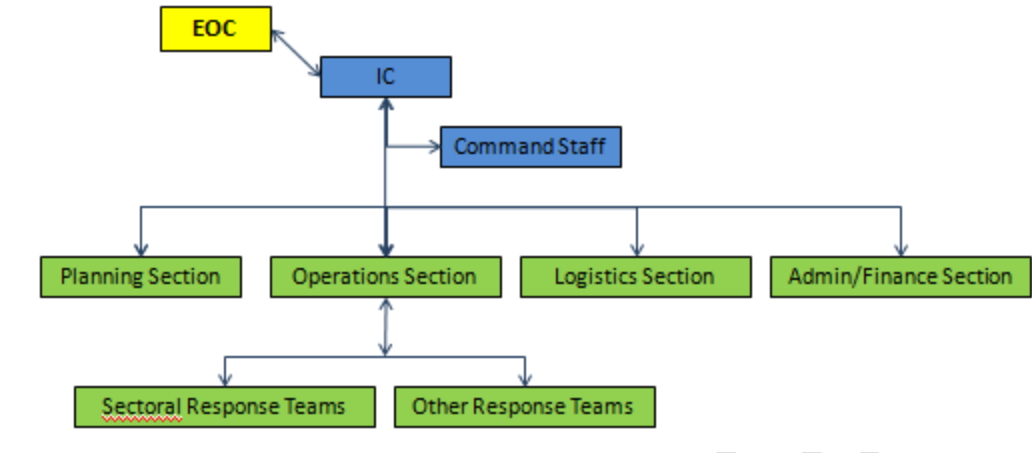
- Establish EOC at the: a.) Paranaque City Hall b.) DRRMO Rescue Building or c.) Engineering Motor pool.
- The EOC Duty Officer shall act as Initial Incident Commander. Initial Incident Commander shall immediately coordinate with the CDRRMO. The CDRRMO to report and update the LCE and Administrator. Contact other staff of the DRRMO to report to the EOC.
- Subsequent coordination with the following by the Initial Incident Commander/CDRRMO:

- Members of the LDRRMC, DRRM Focal Persons of the 16 Barangays, OPVC members
- MMDRRMC, OCD-NCR
- The Chairman of the LDRRMC/City Admin/CDRRMO shall convene the members of the LDRRMC for an emergency meeting to assess the initial damage and revisit/affirm plans of action of the different sectors:
 - The Mayor shall designate the CDRRMO as Incident Commander. In the absence of the CDRRMO, the deputized CDRRM Officer who is also knowledgeable and competent with the Incident Command System.
 - Declaration of State of Calamity/Issuance of Resolution by the Sangguniang Panlungsod
 - Suspension of Classes and Offices
 - Initial Damage Assessment
 - Manpower, Equipment and Supplies Inventory
 - Operational Objectives defined
 - Manpower, equipment, supplies and other logistics are prepared for utilization

COMMUNICATIONS

- EOC to coordinate with the BDRRMC for the following:
 - BDRRMC to conduct public information regarding safety precaution measures.
 - Guide affected population to identified evacuation centers
 - Regularly update the EOC on the status of their AOR.

RESPONSE ACTION



A. Command and Control

- The IC shall designate the command and general staff and establish the Incident Command Post (ICP) **with the suggested lay-out.**
- A Rapid Damage and Needs Analysis (RDANA) team is deployed by the IC to assess impacts of the incident.
- Response Teams from the different sectors such as Evacuation, Human Relief and Rehabilitation, Health/Medical, Transportation, Engineering and Recovery, Fire, Security and Safety and Search and Rescue are to check-in with the ICP.
- Other Response Teams such as Search and Rescue, Fire, Emergency Medical Services, Security and Safety and other instrumentalities are to check-in with the ICP to be accounted for appropriate deployment instructions to the impacted area
- At the incident area, deployed teams are to implement sector plans and update with EOC/IC on operations progress and resource needs.
- Incident Command System will be in place until such time the situation is stable and demobilization and termination of response operations is declared by the IC.

COMMUNICATIONS

- Continuous coordination with BDRRMCs for situational updates
- Provide continuous advisories to BDRRMCs for information dissemination
- Continuous coordination with BDRRMC for the transport of affected population to evacuation camps

GAPS AND NEEDS IDENTIFICATION: COMMAND, CONTROL AND COMMUNICATIONS SECTOR

Item	No. of Population	Standard	Existing Resources (ER)	Projected Needs (PN)		GAP a (PN-ER)	GAP b (PN-ER)	Activity to Meet the Gap	Cost	Source
				Week 1 (a)	Week 2-4 (b)					
MANPOWER a. EOC Personnel	192,637 individuals or 38,438 families	5:shift x 3 shifts/day = 15/day	15 x 30% = 5 available for the 1 st week 15 x 80% = 12 available from week 2 -week 4	15+15=30	30	25	18	A. Activation of Red Code (personnel reporting to EOC) B. Training of Personnel on ICS	none 1M	Personnel from CPDCO, Mayor's Office, J.O.s DRRMF
EQUIPMENT/SUPPLIES a. Command Tent/Center		3	3	3	3	0	0	Acquisition (inclusion in the AIP and actual acquisition)		DRRMF/General Fund
b. base radio		5 sets	2 sets	5 sets	5 sets	3	3			
c. mobile repeater		1set	0	1set	1set	1	1			
d. handheld radios		5pcs	5 pcs	5pcs	5pcs	0	0			
e. megaphone		5pcs	1 pc	5pcs	5pcs	4	4			
f. laptop/desktop		5sets	None	5sets	5sets	5	5			
g. satellite phone		3sets	None	3sets	3sets	3	3			
h. genset (750KVA)		1set	0	1set	1set	1	1			
i. battery source		10pcs	None	10pcs	10pcs	0	0			
j. transistor radio		5pcs	None	5pcs	5pcs	5	5			
k. extension cords		20pcs	None	20pcs	20pcs	20	20			
l. office supplies		1lot assorted	Available	1lot assorted	1lot assorted	0	0			
TRANSPORTATION a. pickup		1unit	1 unit	1unit	1unit	0	0	Acquisition of gasoline during event	5,600Lx50.00/L = 280,000.00	
b. van		1unit	None	200L/dayx7days	200L/dayx21days	1	1			
c. fuel		200L/day	None			1400L	4200L			

EVACUATION SECTOR

A. SCENARIO

The Intensity 8 with Magnitude 7.2 at the West Valley Fault earthquake will cause structure to collapse and/or have extensive damage that is not safe to live in. An estimated 192,637 individuals is expected to be displaced.

B. OBJECTIVE

To identify and establish temporary facilities for displaced families wherein services and basic needs such as water systems, lighting systems, comfort rooms, rooms for lactating mother, rooms for couples and other necessary facilities can be addressed or provided for until they are transferred to permanent and safer locations.

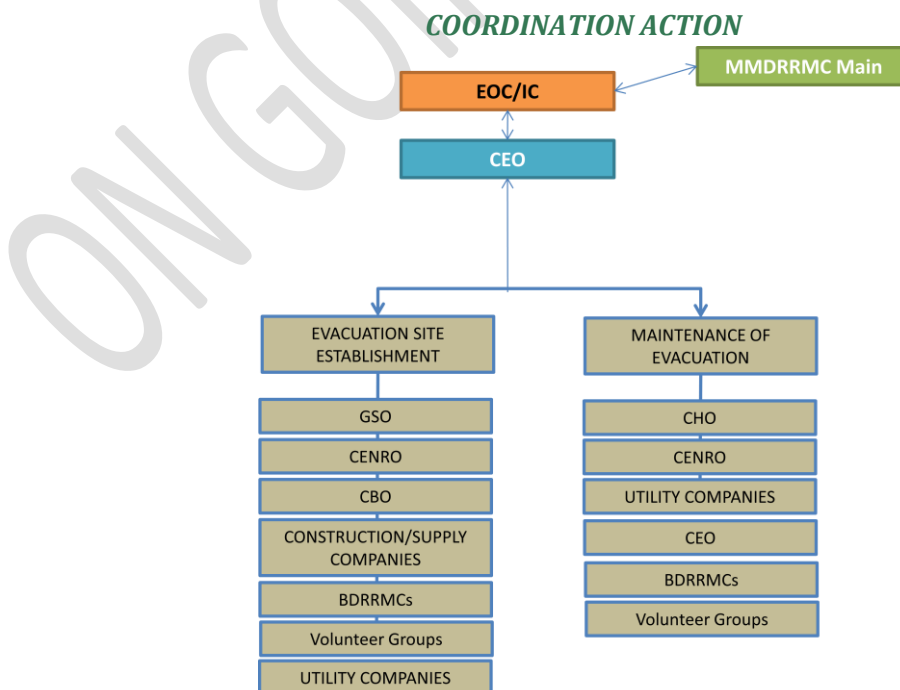
C. LEAD AGENCY: CSWD

D. SUPPORT AGENCY: CHO, DRRMO, DepEd, CPDCO, CEO, CBO, BDRRMCs

E. TASKS

CSWD, DepEd, LNB	Ensure that adequate temporary shelters are safe and available to accommodate displaced families
CEO, CBO, DepEd, CHO, CSWD	Ensure that facilities within evacuation sites to conduct/provide for basic needs are available
CEO, CBO	Ensure alternate evacuation sites for prolonged displacement of families

F. STANDARD OPERATING PROCEDURE



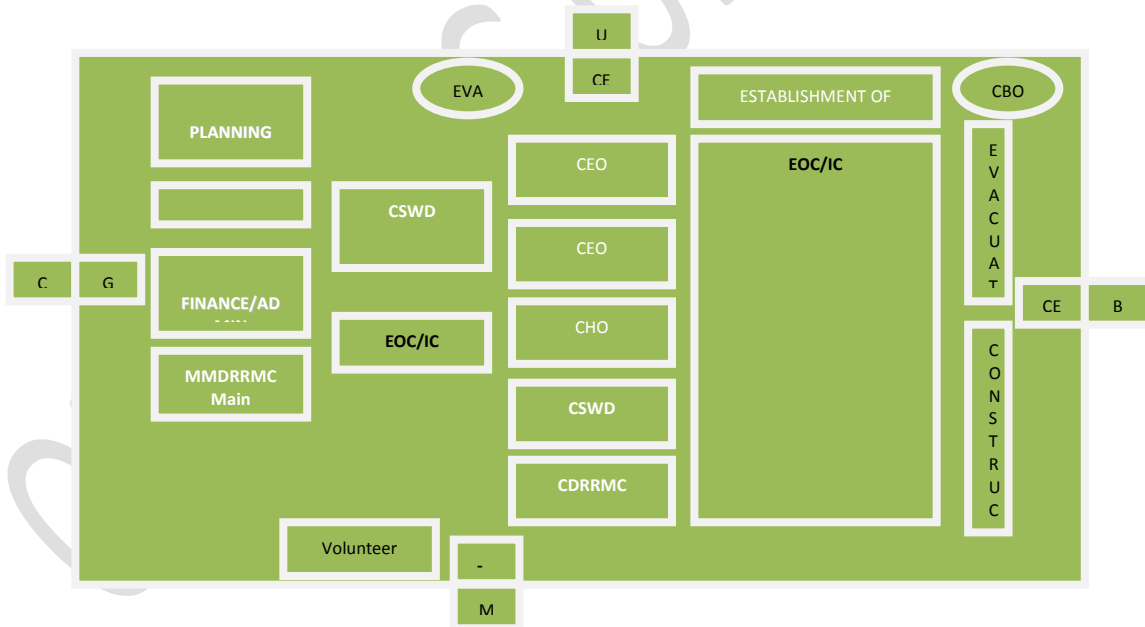
ESTABLISHMENT OF EVACUATION CAMPS/CENTERS

- CSWD to coordinate with CEO, DSWD, DILG, Utility Companies (Water, Electricity), CHO, LNB, Private Sector, Sub-Open counterpart for the establishment of Evacuation Camps/Centers at the following areas
 - Asia World City
 - Amvel (alternate site)
 - C-5 Extension (alternate site)
- Provide continuous situational updates to the EOC

RESPONSE ACTION

ESTABLISHMENT OF EVACUATION CAMPS/CENTERS

- Facilitate the establishment of Evacuation Camps at the following sites:
 - Asia World City
 - Amvel (alternate site)
 - C-5 Extension (alternate site)
- Facilitate the Establishment of Evacuation Camps/Center with the suggested layout:



GAPS AND NEEDS IDENTIFICATION: EVACUATION SECTOR

Item	Population Affected/ Area of Concern	Standard	Existing Resources	Week 1	Week 2-4	Gap a	Gap b	Activity to Meet Gap	Cost	Source
				(a)	(b)	(PN-ER)	(PN-ER)			
ESTABLISHMENT OF EVACUATION CAMP										
Area Temporary Shelter	Asia World City (Evac) 192,187 individuals or 38,438 families	1shelter/Family at 15sq.m	200 hectares reclaimed land	60 hectares	60 hectares	0	0			
Temporary Communal Shelters (canvass type with wooden frame)	48047	1 shelter :10 families	0	500	461	500	461	Work for Food	50,000.00/shelter x 1,500 shelters = 52,500,000	QRF
Foreman	9610	1 foreman:20 shelters x 2shifts	0	25	25	25	25	out source	300 x 500Php x 30 days = 4,500,000	QRF
Laborer		5 laborers:20 shelters x 2 shifts	0	250	231	250	231	Work for Food		
750KVA Mobile Generator Set		1	0	1	1	1	1	Acquisition (AIP)		
Toilet/Bath Facilities w/Communal Septic Tank		1 unit: 10 shelter	0	50	46	50	46	Work for Food	20,000/ unit x 200 units = 4,000,000	DRRMF
Manpower		1 volunteer: 200 evacuees	available	240	240	0	0	0		OPVC/ EVACUEES

HUMAN RELIEF AND REHABILITATION SECTOR

A. SCENARIO

The Intensity 8 with Magnitude 7.2 at the West Valley Fault earthquake will cause panic and disruption in the normal living of the people. An estimated 192,637 individuals is expected to be displaced that will have no access to meet their basic needs and with some incurring or suffering from mental and health issues that need to be addressed

B. OBJECTIVE

To ensure that basic needs of disaster affected families are provided for and necessary preparations and assistance are given to aid in restoring their lives.

C. LEAD AGENCY: CSWD

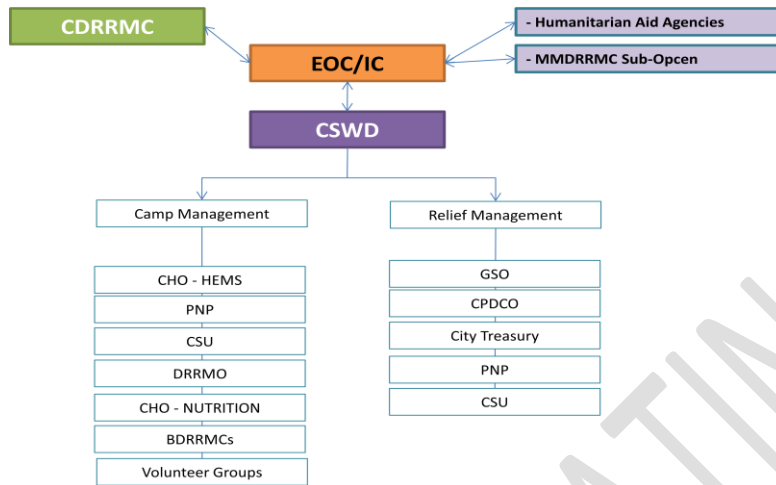
D. SUPPORT AGENCY: CHO, DRRMO, DepEd, CPDCO, CEO, CBO, BDRRMCs

E. TASKS

DepEd, Concerned BDRRMC	Shall keep all concerned agencies, offices, and divisions informed of the availability and status of resettlement areas, rehabilitation centers, and other public facilities. Shall make arrangements with public schools and other available public facilities to provide temporary shelters to disaster/calamity victims.
Concerned BDRRMC, DRRMO	Responsible for the systematic and organized evacuation of people from disaster affected areas.
CSWD, CHO, CEO, GSO	Supervise evacuation site operations and activities, and ensure the availability of needed supplies and equipments within the shelter/resettlement/rehabilitation areas.
CSWD, CEO	Shall assess and provide the needs of the evacuees such as water, sanitation, relief goods and medicines.

F. STANDARD OPERATING PROCEDURE

COORDINATION ACTION



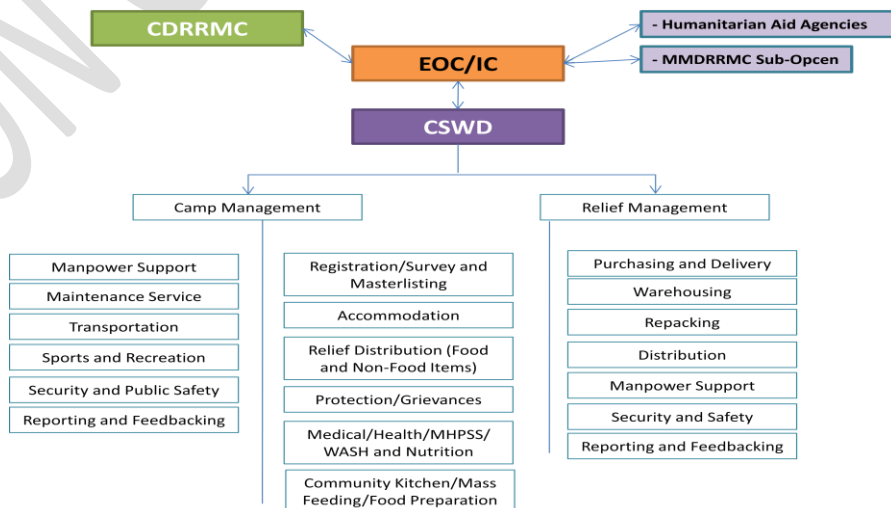
CAMP MANAGEMENT

- Coordinate with BDRRMC, Security Sector, Fire Sector, Health/Medical Sector, DepEd, BOO
- Provide continuous situational updates to the EOC

RELIEF MANAGEMENT

- Coordinate with BDRRMC, Security Sector, Fire Sector, Health/Medical Sector
- Provide continuous situational updates to the EOC

RESPONSE ACTION



CAMP MANAGEMENT

- Deployment of CSWD Camp Management Team to Identified Evacuation Camps/Center
- Each team will be working in 2 shifts with 12 hours duty per shift. The composition of each team are the following:

TEAM	COMPOSITION
FIELD TEAM	<ul style="list-style-type: none">• 1 team leader• 1 assistant team leader• 9-12 team members• 15-17 support group members• 5 medical and allied group members• 1 reporting officer from Planning unit• 31 members from PantawidPamilya
OPERATIONS	<ul style="list-style-type: none">• 4 members

RELIEF MANAGEMENT

- Coordinate with BDRRMCs for transport of displaced population to the Evacuation Camps
 - Assessment of Camp Facilities and Establish area where relief items are to be temporarily stored prior to distribution.
 - Initial Distribution
 - Subsequent Distribution

GAPS AND NEEDS IDENTIFICATION: HUMAN RELIEF AND REHABILITATION

Item	Population Affected/ Area of Concern	Standard	Existing Resources	Week 1	Week 2-4	Gap a	Gap b	Activity to Meet Gap	Cost	Source
				(a)	(b)	(PN-ER)	(PN-ER)			
CAMP MANAGEMENT										
Office Supplies		1 lot	Available	1 lot			1 lot	0	0	
Transportation of Evacuees		16 barangay vehicles	16	16	16	0	0			DepEd
Transportation for Mobilization of Camp Management Team		2	0	2	2	2	2	Trans. Sector to assign		CSWD
Collection dump truck/crew		4 units	0	4	4	4	4	CENRO		CEO
Maintenance of Utilities		1 team as needed	0	1	1	1	1	CEO		
HUMAN RELIEF AND REHABILITATION										
MANPOWER										
Packing/ Repacking Team	Warehouse	1 CSWD Supervisor, 1 CSWD Controller, 75 Volunteers at 12 Hours shift x 2 shifts	0	2 CSWD Supervisor, 2 CSWD Controller, 150 Volunteers at 12 Hours shift x 2 shifts	2 CSWD Supervisor, 2 CSWD Controller, 150 Volunteers at 12 Hours shift x 2 shifts	2 CSWD Supervisor, 2 CSWD Controller, 150 Volunteers at 12 Hours shift x 2 shifts	2 CSWD Supervisor, 2 CSWD Controller, 150 Volunteers at 12 Hours shift x 2 shifts	Deploy staff from other LGU offices		CSU, CHO, CENRO
EQUIPMENT/FIXTURES										
Distribution Truck	Distribution of Relief Goods	1 Closed Van Truck with Driver/barangay	0	16	16	16	16	Trans. Sector Lead to assign DepEd trucks		Trans. Sector
Distribution Truck	Back Up Distribution of Relief	3 10-Wheeler Dump Truck	0	3	3	3	3	Trans. Sector Lead to assign DepEd trucks		Trans. Sector
Tarpaulin to cover relief and rope to secure		1 per truck x 3	0	3 sets	3	3 sets	3	Acquisition (AIP)		DRRMF
FOOD AND NON-FOOD ITEMS										

HEALTH/MEDICAL SECTOR

A. SCENARIO

- Slight Injuries: 18,616
- Serious Injuries: 5, 396
- Life-threatening: 496
- Fatalities: 1,385

B. OBJECTIVE

To ensure victims of an earthquake are given adequate and timely medical assistance, emotional, mental and psychosocial support as well as to provide victims with adequate environmental sanitation, nutrition and other basic health needs within Parañaque.

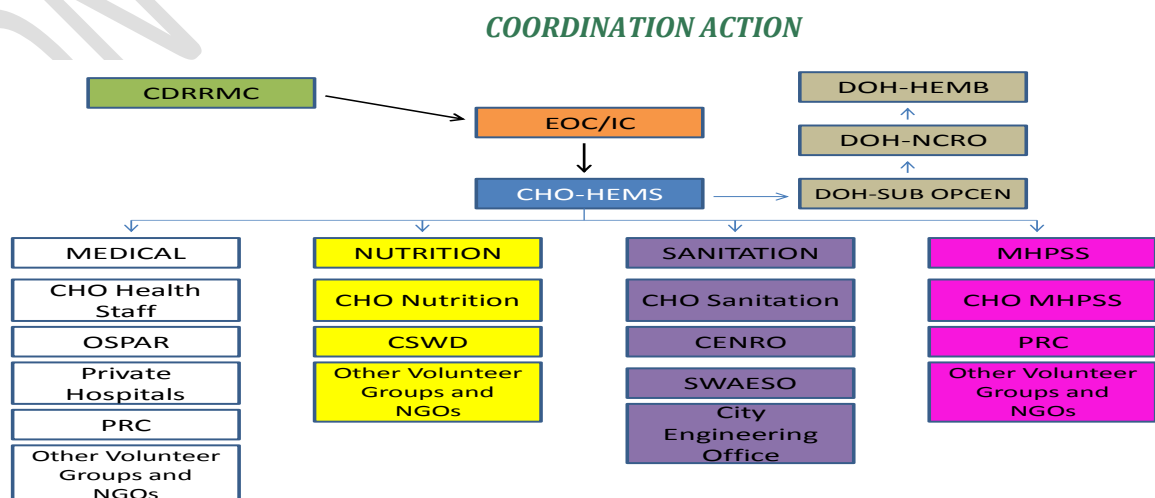
C. LEAD AGENCY: CHO

D. SUPPORT AGENCY: CSWD, CSOs, Public and Private Hospitals, NGOs, DRRMO, Volunteer Organizations

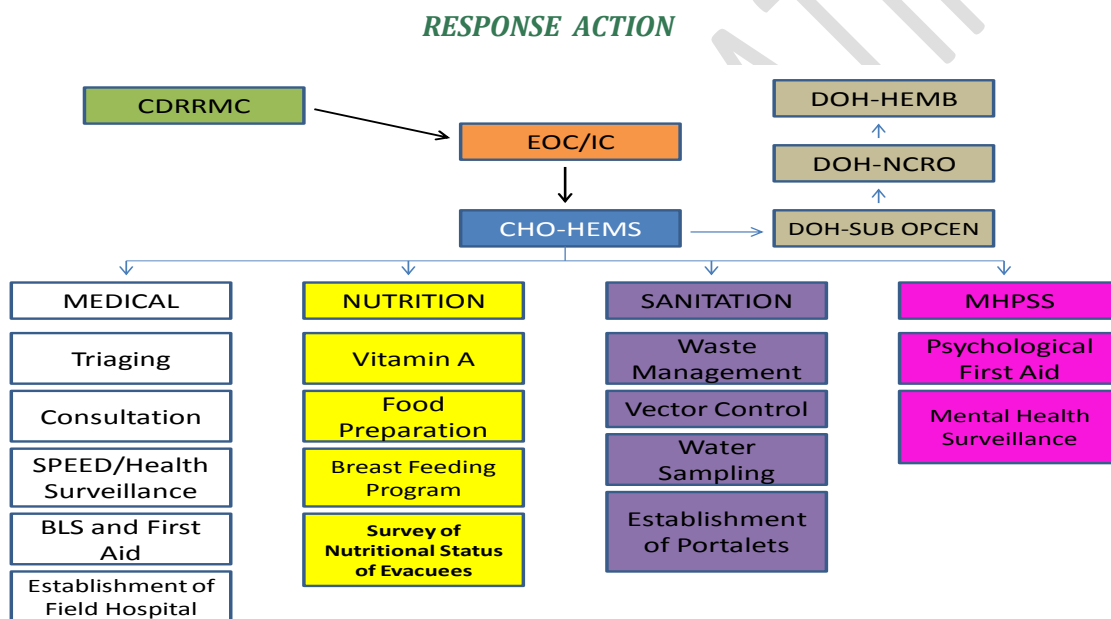
E. TASKS

CHO, CSOs, Public and Private Organization	Charged with the duty to provide health, sanitation and hygienic needs of those affected victims
CHO, DRRMOs, , VOs	Shall immediately render medical assistance to disaster victims and thereafter assist in their transfer to different medical facilities as deemed necessary.
CHO, CSWD, NGOs	Shall be charged with the responsibility of the maintenance and provision of the needed medical equipment and supply.
CHO	Prevent the occurrence or any probability of an outbreak or epidemic between and among the disaster victims within the area.
CHO, CSWD, NGOs, Public and Private Hospitals, CSOs	Responsible for addressing the physical, mental, nutritional and psychosocial needs and recovery of those affected.
CHO	Coordinate with the HEMS NCRO, DILG NCR for the dead and missing person.

F. STANDARD OPERATING PROCEDURE



- After the strong earthquake, the HEMS team leader on-duty shall act as Initial HEMS Coordinator
- The Initial HEMS Coordinator shall immediately coordinate with the City Health Officer or the HEMS Coordinator and the IC. And subsequently coordinate with other partner agencies such as Hospitals, BDC-Chair on Health, Lying-Ins, Barangay Health Centers, Medical Societies and OPVC-Red Cross. Contact other HEMS staff to report to the EOC.
- The City Health Officer or the HEMS Coordinator shall report to the EOC.
- HEMS staff will coordinate with designated HEMS focal person of the 16 barangays to conduct Rapid Health Assessment.
- HEMS focal persons are to submit their Health Emergency Alert Reporting System (HEARS) report to the CHO/HEMS Coordinator.
- Report initial assessment and plan of action to the IC/HEMS NCRO.



- The HEMS team per barangay shall conduct the following:
 - Rapid Health Assessment and reporting
 - On-site medical assistance and referral in coordination with the Barangay LGU
 - Regular documentation and updating with the CHO/HEMS Coordinator.
 - Manage manpower, medical supplies and other logistics sent for support.
- The CHO shall deploy the following Health personnel to the evacuation camp with one of the medical doctors as the team leader:
 - Medical Doctor – 1: 50,000
 - Nurses - 1: 10,000
 - RHM – 1: 10,000
 - BHW – 1: 1,000
 - Water and Sanitation Hygiene (WASH) Team – 1: 10,000
 - Mental Health and Psycho Social Support (MHPSS) Team - 1:10,000
 - Nutritionist – 1:1 area

To conduct the following services:

- Medical services (triaging, consultation, referral, treatment, IECs)
- Provide WASH services (Water treatment, Proper Solid Waste in Camp , Vector Control, Proper Defecation and Utilization of Portalets, Waste Water Management, etc.)
- Provision of Sanitation Services such as sanitation of mass burial sites
- Provide MHPSS Services (Stress Debriefing, Counseling, Recreational activities, etc.)
- Assess and recommend daily nutritional needs, conduct rapid assessment of nutritional status of children and possible supplemental feeding program
- Documentation and Reporting
- The CHO shall deploy its team to conduct Surveillance in Post Extreme Emergencies and Disaster (SPEED).
- The medical team leader shall submit daily report to the EOC/IC.
- The team shall work an 8 hour shift per day, unless otherwise directed by the CHO.
- As needed, HEMS division shall provide augmentation to search and rescue sector.

ON GOING UPDATING

Item	No. of Population	Standard	Existing Resources	Week 1 (a)	Week 2- 4 (b)	Gap a (PN-ER)	Gap b (PN-ER)	Activity to Meet Gaps	Cost	Source
EVACUATION CAMP										
MANPOWER										
Medical Team										
Medical Officers	192,637	1:10,000	0	20	20	20	20	Activate Partnership with Private Sectors and Medical Societies for the 1 st Week Activate Partnership with Private Sector with DOH		Medical Societies, Private Sector DOH
Nurses		1 : 10,000	70 Nurses	20	20		none			
Midwives		1 : 10,000	48 Midwives	20	20	none	none			
BHWs		1 : 1,000	192 BHWs	193	193		1			
Med Tech		1 : 50,000	5 Med Tech	4	4	none	none			
Nutrition										
Nutritionist		1 : 1 area	2 Nutritionist	2	2	0	0			
BHA/BNS		1 : 1,000	25 BHA		24 BHA		none			
WASH Team										
Sanitation Officers		1 team : 4 persons : 1 area	5 Sanitation Officers		24 SI		8 Sanitation Inspectors			
MHPSS Team										
Health Personnel Trained in MHPSS		1:10,000	0	20	20	20	20	Train 22 dentists and other health personnel on MHPSS	250,000.00	CHO
TRANSPORTATION										
Van		3	0	3	3	3	3			Transport
L300		1/brgy + 1 evac camp	0	17	17	17	17			Transport

Ambulance		1/HC 4 Roving	20	20	20	20	20			16 from Barangay HS, 2 from CHO,1 from DRRMO and 1 from OsPar
Utility Truck with Driver/Alternate Driver and Fuel		1/ CHO	0	1	1	1	1			Transport
MEDICAL KITS										
1. First Aid Kits for Triaging		1 First aid kit: 50 Injured			110 Minor Set				LGU	
a. Bandages (2x5)		5 bandage:1 First Aid Kit			550 Bandage				LGU	
b. Bandages (3x5)		5 bandage:1 First Aid Kit			550 Bandage				LGU	
c. Bandages (4x5)		5 bandage:1 First Aid Kit			550 Bandage				LGU	
d. Bandages (5x5)		5 bandage:1 First Aid Kit			550 Bandage				LGU	
e. T Bandage		5Tbandage:1 First Aid Kit			550 Bandage				LGU	
f. Gauze Pads (4x4)		50 Gauze Pads:1 First Aid Kit			5,500 Gauze Pads				LGU	
g. Gloves		100 Gloves:1 First Aid Kit			11,000 Gloves				LGU	
h. Masks		100 Masks:1 First Aid Kit			11,000 Masks				LGU	
i. Portable Oxygen (Cylinder D)		1 tank : 1 First Aid Kit			110 tanks				LGU	
j. Nasal Cannula		10 Nasal Cannula : 1 First Aid Kit			1,100 Nasal Cannula				LGU	
k. Betadine Solution with cotton balls		1 container: 1 First Aid Kit			110 Container				LGU	
l. Tourniquet		2 tourniquet: 1 First Aid Kit			220 Tourniquet				LGU	
m. Pen Light		2 penlight: 1 First Aid Kit			220 Penlight				LGU	

n. PNSS 1L Bottle		3 bottle: 1 First Aid Kit			330 PNSS 1L Bottle			LGU		
o. BP Apparatus		2 BP app: 1 First Aid Kit			220 BP app			LGU		
p. Stethoscope		2 Steth: 1 First Aid Kit			220 Steth			LGU		
q. Splints		5 Splints: 1 First Aid Kit			550 Splints			LGU		
r. Arm Slings		3 Arm Sling: 1 First Aid Kit			330 Arm Sling			LGU		
s. Kelly Curve		2 Kelly: 1 First Aid Kit			220 Kelly Curve			LGU		
t. Kelly Straight		2 Kelly: 1 First Aid Kit			220 Kelly Straight			LGU		
2. OB Kits for Maternal Emergencies		1 OB Kit: 1,500 individuals			115 OB KITS			LGU		
a. Baby Clamps		10 Clamps:1 OB Kit			1,150 Clamps			LGU		
b. Bandage Scissor		5 Bandage Scissors:1 OB Kit			575 Bandage Scissors			LGU		
c. Kelly Curve		5 Kelly:1 OB Kit			575 Kelly Curve			LGU		
d. Kelly Straight		5 Kelly:1 OB Kit			575 Kelly Straight			LGU		
e. Sterile Gloves		30 Gloves:1 OB Kit			3,450 Gloves			LGU		
f. Masks		30 Masks:1 OB Kit			3,450 Masks			LGU		
g. Gowns		30 Gowns:1 OB Kit			3,450 Gowns			LGU		
Medicines for Evacuees and Personnel										
a. Cotrimoxazole 800mg tab		8,800 tabs			3,597,489 Tabs		3,588,689 Tabs	LGU / DOH		
b. Amoxicillin 500mg cap		5,800 Caps			3,597,489 Caps		3,591,689 Caps	LGU / DOH		
c. Amoxicillin 250mg suspension		720 bottles			1,199,163 Bottles		1,198,443 Bottles	LGU / DOH		
d. Amoxicillin		720 bottles			1,199,163		1,198,443	LGU / DOH		

100mg drops					Bottles		Bottles			
e. Paracetamol 500mg tab		8,800 tabs			4,796,652 Tabs		4,787,852 Tabs		LGU / DOH	
f. Lagundi 300mg tab		5,000 tabs			2,398,326 Tabs		2,393,326 Tabs		LGU / DOH	
g. Bayabas 130g soap		29 bars			1,199,163 Bars		1,199,163 Bars		LGU / DOH	
h. Doxycycline 100mg tab		2,900 tabs			3,597,489 Tabs		3,594,589 Tabs		LGU / DOH	
i. Acapulco 130g soap		17 bars			1,199,163 Bars		1,199,146 Bars		LGU / DOH	
j. Sulfur Ointment		12 cups			1,199,163 Cups		1,199,151 Cups		LGU / DOH	
k. Whitfield Ointment		30 cups			1,199,163 Cups		1,199,131 Cups		LGU / DOH	
l. Antibiotic Ointment		50 cups			1,199,163 Cups		1,199,113 Cups		LGU / DOH	
ww. Prednisone Ointment		50 cups			1,199,163 Cups		1,199,113 Cups		LGU / DOH	
WATER, SANITATION & HYGIENE										
WATER		1 person : 15 liters per day		2,569,6 35 Liters	17,987,445 Liters			35,974,890 Liters		MAYNILAD
1. Jerry Cans / Water Containers		2 units : 1 Family	None	68,524 units	479,668			959,336 units	959,336 units	LGU / DOH
2. Hyposol		1 unit : 28 Jerry Cans	72 units	7,095 units	49,665 units			99,330 units	99,330 units	LGU / DOH
3. Chlorine Tablets / Granules		1 unit : 1 Family	None	34,262 units	239,834 units			479,668 units	479,668 units	LGU / DOH
TOILETS / BATHING FACILITIES		1 Toilet : 50 individuals	None	----	----			3,420 Toilet / Bathing Facilities	3,420 Toilet / Bathing Facilities	LGU / NGO
VECTOR CONTROL										
1) Mistig Machines		6 units	3 units						3 units	LGU / DOH

2) Insecticides										LGU / DOH
a) Gokilaht		180	78 units						102 units	
b) Deltacide		180	59 units						121 units	
c) Abate		50	30 boxes						20 boxes	
d) Sumilarv		50	10 boxes						40 boxes	
e) Mosquir on		180	None						180 units	
f) Aqua Resigen		180	None						180 units	
		2 : 1 Family	300 units	----	----			198,642 units	198,342 units	
g) Alpha Net										
3) PPEs (Personal Protective Equipments)										
a) Gloves		1 Set : 1 Sanitation Inspector	None	3 units	21 units			42 units	---	LGU
b) Mask										
c) Overalls										
4) Anti- mosquito Set										
a) Mosquit o Net		1 Set : 1 Family	None	----	----			34,262 units		LGU
b) Anti- Mosquit o Lotion										
c) Blanket										
HYGIENE										
1) Hygiene Kit										
a) Bucket with Lid		1 unit : 1 Family	None	34,262 units	239,834 units			479,668 units	479,668 units	LGU
b) Soap (135g)		3 units : 1 Family	None	102,786 units	719,502 units			1,439,004 units	1,439,0 04 units	LGU
c) Toothpaste (125 ml)		1 unit : 1 Family	None	34,262 units	239,834 units			479,668 units	479,668 units	LGU
d) Toothbrush with cap (3 adults and 2 children)		1 Set : 1 Family	None	34,262 units	239,834 units			479,668 units	479,668 units	LGU

e) Towel (18" x 30")		2 unit : 1 Family	None	68,524 units	479,668 units			959,336 units	959,336 units	LGU
f) Sanitary Napkin		3 unit : 1 Family	None	102,786 units	719,502 units			1,439,004 units	1,439,004 units	LGU
WASTE MANAGEMENT										
1. Plastic Bags (9 x 9 x 18)		1 unit : 1 Family / Day	None	34,262 units	239,834 units			479,668 units	479,668 units	LGU
2. MD Disinfectant		3 units : 1 Day	24 units	3 units	21 units			42 units	18 units	LGU / DOH
NUTRITION SUPPLIES										
a) Weighing Scale Detecto			16pcs		16pcs					
b) Weighing Scale Salter			35pcs		35pcs					
c) VITAMIN A CAPSULE (200,000 I.U.)								12-59 mos (200,000 I.U.) 31 Bottles		
d) VITAMIN A CAPSULE (100,000 I.U.)								6-11 mos (100,000 I.U.) 225 Bottles		
e) FERROUS SULFATE CAP/TAB SYRUP DROPS								51 Bottles 1931 Bottles 938 Bottles		
f) ZINC SULFATE SYRUP DROPS								6-59=1,362 bots/syrup <6mos=84 bots drops		
g) STEEL DIVIDER (6FT-LENGTH)								100pcs		
h) CURTAIN (CLOTH)								400M (2M/curtain x 8 evac CTR)		
i) SAFETY PIN								25 dozen		
j) DROPPER								25 dozen		

(15 ML)										
k) CUPS (FOR CUP FDG.)								25 dozen		
l) SYRINGES W/O NEEDLE								25 dozen		
m) COTTON (FOR CLEANING THE BREAST)								25 dozen		
n) SOAP (SAFEGUARD)								50pcs		
o) BABY OIL (FOR RELACTATING MOTHERS)								25 dozen		
p) TOWEL								320pcs		
q) TABLES(4X4)								25 dozen		
r) TRAYS								25 dozen		
Mental Health Team Supplies										
Ospital Ng Paranaque Supplies										

FIRE SECTOR

A. SCENARIO

Hazardous/Fire Scenes : 6

Fire Prone : 14

Gas Stations

B. OBJECTIVE

- Delivers water to areas where there is inadequate water supply
- Conducts fire suppression, hazmat suppression and fire rescue activities

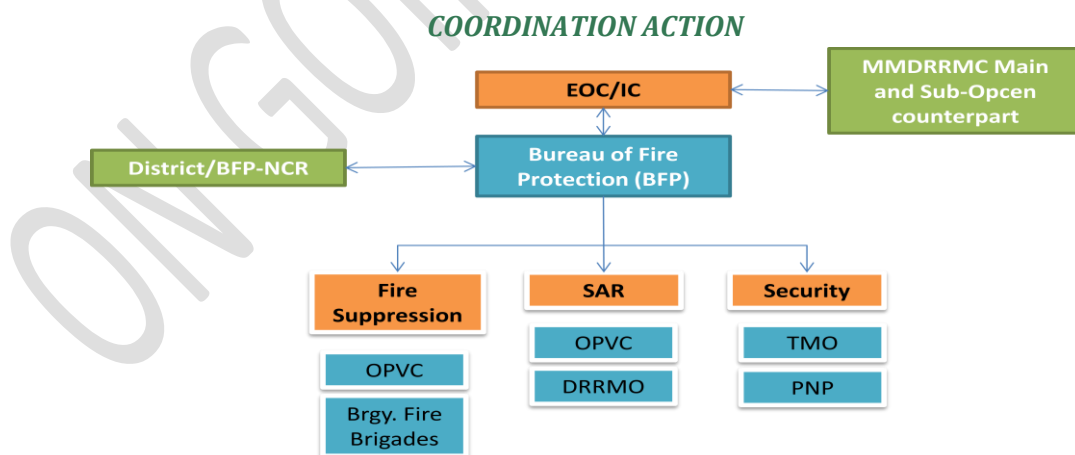
C. LEAD AGENCY: BFP

D. SUPPORT AGENCY: TPMO, PNP, OPVC, DRRMO, NGOs Barangay Fire Brigades

E. TASKS

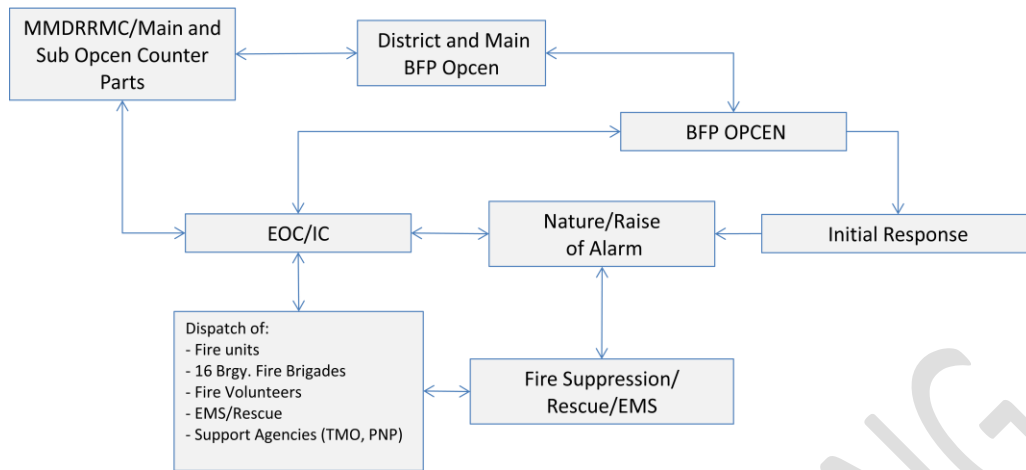
OPVC, Barangay Fire Brigades, BFP	Deliver water supply to areas where there is inadequate water supply such as evacuation centers
BFP, OPVC, DRRMO	Conducts fire suppression, hazmat control and fire rescue activities
TPMO, PNP	Ensure appropriate road management to assist ingress and egress of fire and rescue vehicles to incident site
PNP	Ensure safety and security of people and property within surrounding fire incident area

F. STANDARD OPERATING PROCEDURE



- Upon earthquake BFP on duty officer, shall immediately coordinate with the Fire Marshall and the EOC/IC and partner agencies for check-in.

RESPONSE ACTION



- **FIRE SUPPRESSION:**

- Once dispatch has been made, initial responders will verify the incident and determine nature of alarm accordingly. Nature of Alarm and resource needs will be reported to the EOC after which the EOC will dispatch the necessary resources.

- **WATER SUPPLY:**

- Deliver water supply to the evacuation camp.

- **SEARCH AND RESCUE:**

- As needed, conduct search and rescue activities in augmentation to the Search and Rescue Sector

GAPS AND NEEDS IDENTIFICATION: FIRE SECTOR

Item	No. of Population	Standard	Existing Resources	1 day	7 days	14 days	GAP (PN-ER)	Source
	192,637							
Central Fire Station								BFP
Fire Tanker		1	1		1			
Pumper		1	1		1			
Fire Ladder		1			1		1	
Rescue Tender		1			1		1	
Fire Truck		1			1		1	
Ambulance		1	1		1			
Ambulance Personnel		1: 4 persons	34		11			
Fire Personnel								
for each vehicle		1: 7 persons						
La Huerta Station								
Fire Tanker		1			1		1	
Pumper		1			1		1	
Fire Ladder		1			1		1	
Rescue Tender		1			1		1	
Fire Truck		1	1		1			
Ambulance		1			1		1	
Ambulance Personnel		1: 4 persons	9		11			
Fire Personnel								
for each vehicle		1: 7 persons						
BF Station								
Fire Tanker		1			1		1	
Pumper		1			1		1	
Fire Ladder		1			1		1	
Rescue Tender		1			1		1	
Fire Truck		1	1		1			
Ambulance		1			1		1	

Ambulance Personnel	1: 4 persons	9	11	
Fire Personnel for each vehicle	1: 7 persons			
Don Bosco Station				
Fire Tanker	1		1	1
Pumper	1		1	1
Fire Ladder	1		1	1
Rescue Tender	1		1	1
Fire Truck	1	1	1	
Ambulance	1		1	1
Ambulance Personnel	1: 4 persons	8	11	
Fire Personnel for each vehicle	1: 7 persons			
Repeater	1	1		
SCBA	7: 1 truck	4	140	136
inflatable raft	1: 1 station	4	4	0
ropes	2: 1 truck	2	40	38
PPEs	1: 1 person	60	560	500

SEARCH AND RESCUE SECTOR

A. SCENARIO

25 complete collapse structures

B. OBJECTIVE

To rescue/recover/guide disaster victims trapped or stranded in areas where danger is imminent, to administer basic life support and first aid to injured/ill persons, search for missing persons and establish initial management of fatalities.

C. LEAD AGENCY: DRRMO

D. SUPPORT AGENCY: BDRRMCs, CHO, PNP, BFP, NGO, CSO, SAR Groups

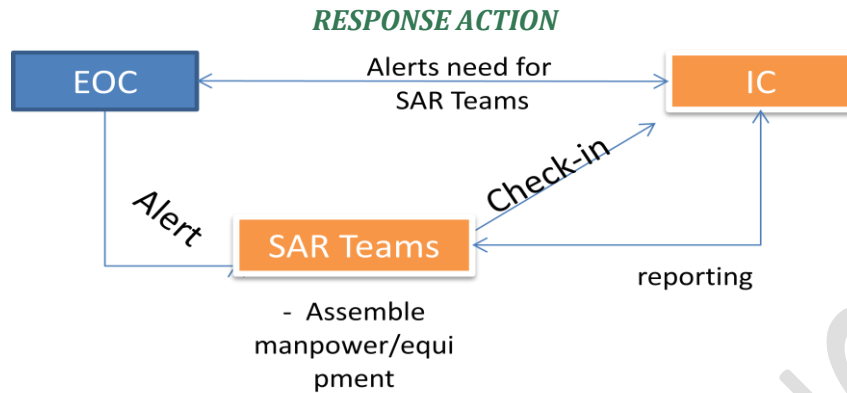
E. TASKS

BDRRMC, DRRMO, SAR Groups	Provide basic life support to victims
BDRRMC, DRRMO, SAR Groups	Undertake search, rescue and retrieval of victims requiring specialized technical operations such as collapsed structures, vehicular collisions, fire, swiftwater and flood water rescue
BDRRMC, DRRMO, SAR Groups	Assist in the evacuation of families/individuals from their homes
DRRMO, CHO, PNP, DILG	Conduct initial management of fatalities (cadaver repository)
DRRMO, CHO, PNP, DILG	Coordinate and turn-over of fatalities to proper agencies/authorities for management (identification, burial, health hazard management, etc.) of the dead

F. STANDARD OPERATING PROCEDURE

COORDINATION ACTION

- The Rescue chief shall immediately coordinate with the IC. And subsequently coordinate with other partner agencies such as Volunteer SAR Groups, BFP, PNP and BDRRMCs. The Rescue Chief shall report to the EOC/IC for preparedness measures and actions taken.



- The Incident Commander to deploy search and rescue teams.
- 1 team leader and 6 members proficient in conducting EMS/SAR Operations
 - Team leader to assess Situation and report to the EOC/IC
 - Locate victim
 - Access victim
 - Stabilize victim
 - Transport victim
 - Team leader to give feedback to EOC/IC
- Search and Rescue teams not from the DRRMO are to check-in with EOC/IC for briefing and deployment.
- Rescued victims are to be turned-over to proper authorities/agencies
- Round the clock operation for the first three (3) days (8 hour shift x 3 shifts)
- Subsequent operations and termination will be determined by the IC

4.3.6 SEARCH AND RESCUE SECTOR

Item	No. of Population	Standard	Existing Resources	7 days	GAP (PN-ER)	Source
496605						
K-9 Team		2 teams/district	0	4 teams	4 teams	DRRMO
Personnel requirement						
SAR Team		20 teams of 7	1 team	20 teams 1 team	19 teams	DRRMO, BGY, PRC
HAZMAT Teams		1 team of 7	0	ANA	1 team	DRRMO
PPEs		all SAR responders	24 sets	SAR responders		concerned agency
CSSR equipment		16 sets	0	16 sets	16 sets	DRRMO, BGY
Ropes:						
High Angle Rescue rope(11mm 100m)			1			
High Angle Rescue rope(11mm 100m)			1			
High Angle Rescue rope(10.7mm 200m)			1			
10mm Terypro rope (50m)			6			
10mm Rappel rope (50m)			1			
Sling rope (1m)			22			
Flat webbing rope (1m)			12			
Carabiners:						
Steel			10			
Alloy			12			
Steel Rescue 8			10			
Single Pulley System set			9			
Single Pulley System set (fixe)			2			

Tandem Pulley System set		7			
Ascender		4			
Braking descender		4			
Harness (full body)		3			
Rescue Triangle harness		2			
Generator set 2.2 KVA		1			
Emergency Light		10			
Kendrick Extrication Device		2			
Spine Board		3			
Head stabilizer		3			
Scoop Stretcher		2			
Basket Stretcher		1			
Stair Chair		2			
Extrication/USAR helmet		24			
LED head lamp		12			
Extrication Gloves		20			
Tactical Boots		24			
pnuematiclighting system	20 units	0	20 units	20 units	
Building Collapsed Structure Set	16 sets	0	16 sets	16 sets	DRRMO, BGY
4pcs strut 530-700mm,4pcs strut 840-1250mm,3pcs strut 1370-2130mm,					
HEAVY DUTY COLLAPSE STRUCURE HYDRAULIC SPREADER					
HEAVY DUTY COLLAPSE STRUCURE HYDRAULIC CUTTER					
COLLAPSE PNUEMATIC CHIPPING TOOLS					
CSR EVAC SET (TRIPOD SYSTEM)					
SKED RESCUE STRETCHER					
HEAVY DUTY CONCRETE CUTTER					
RESCUE SAW					

Basket Stretcher		
Sledge Hammers		
Safety First Kits/Gadgets		
Strechers		DRRMO
Hydraulic Combtool Set (Weber SPS 400)	1	
Hydraulic Jack (Webber SBA 15/255)	1	
Hydraulic Pump w/engine (Weber)	1	
Hydraulic Jack Regulator (Weber)	1	
Hydraulic Hose extension	1	
Hydraulic Jack (Weber-Manual 5Tonner)	1	
Manual Cutter LKS 30 (Lukas)	1	
Chain Saw	2	
Concrete cutter (Stihl 460)	1	
Metal cutter (Stihl 460)	1	
Electric Twin Saw CRE 2326 (Weber)	1	
Portable Oxy-Acetylene Gas Cutter	2	
Gasoline powered air compressor	2	
Air lifting bag 50 Tonner (MAT JACK)	2	
Air lifting bag 32 Tonner (MAT JACK)	2	
Air lifting bag board	9	
Gas Monitor	1	
Halligan tool with prying & cutting head	2	
Fire Axe:		
Small	2	
Big	2	
Shovel:		
Quadrada	2	
Debilo	2	
Sledge hammer (Big)	2	
Electric Drill/Hammer (Big)	2	
Portable Jack Hammer Bosch GBH 2-18RE	1	

Portable Jack Hammer Makita	1		
Vehicular Extrication Toolbox	2		
- Seat belt cutter (WEBER)	4		
- Emergency Hammer (SHINEWAY)	4		
- Cable cutter (Stanley)	2		
- Bolt Cutter (ACE)	2		
- 6 pc. Screw Driver set (Stanley)	2		
- Pipe wrench (Stanley)	2		
- Adjustable Wrench 10 " (Stanley)	2		
- Sledge Hammer (small) (Butterfly)	2		
- Cutting Plier (Stanley)	2		
- Long nose Plier (Stanley)	2		
- Groove Joint Plier (Stanley)	2		
- Linesman Plier (Stanley)	2		
- Slip Joint Plier (Stanley)	2		
- Working Gloves (Eagle)	2		
- Eye Protective goggles	2		
- Dust Mask 5's (3M)	2		
Power Generators	11 units	37 units	DRRMO

ON GOING UPDATING

ENGINEERING RECOVERY AND REHABILITATION SECTOR

A. SCENARIO

- 192,987 displaced persons and evacuation camps will be established Asia World City
- EOC/IC and Staging Area will be established at the Engineering Motorpool
- Access roads are at risk of damage and been blocked off by debris
- Structures at risk of damage collapse

BARANGAY	AREA (sqm)	Slight Damage (sqm)	Moderate Damage (sqm)	Extensive Damage (sqm)	Complete Damage (sqm)	Complete Collapse (sqm)
B. F. HOMES	8270240.30	560351.00	924308.00	751056.00	898522.00	128946.00
BACLARAN	1894954.21	72906.00	141780.00	173354.00	233369.00	27246.00
DON BOSCO	4243470.20	351115.00	577047.00	465069.00	510069.00	73968.00
DON GALO	318720.26	13745.00	24405.00	29538.00	62778.00	8062.00
LA HUERTA	1002785.36	49187.00	91563.00	107176.00	117881.00	12981.00
MARCELO GREEN VILLAGE	3036289.58	236768.00	389643.00	307760.00	303328.00	44229.00
MERVILLE	3136532.18	278177.00	463768.00	373493.00	407964.00	55093.00
MOONWALK	3394832.35	198887.00	322755.00	266615.00	339598.00	46539.00
SAN ANTONIO	3177312.97	224834.00	367002.00	300587.00	388608.00	48886.00
SAN DIONISIO	3325201.51	171538.00	313642.00	345541.00	475839.00	56430.00
SAN ISIDRO	3048085.57	237511.00	394451.00	327548.00	375845.00	52114.00
SAN MARTIN DE PORRES	1152110.74	87413.00	145151.00	118222.00	133753.00	19441.00
SANTO NINO	1247541.66	77921.00	144172.00	154021.00	204277.00	23892.00
SUN VALLEY	1874059.79	147312.00	248903.00	210104.00	230358.00	30227.00
TAMBO	4744209.95	142346.00	258577.00	303537.00	405968.00	44694.00
UNDEFINED	1943656.35	81.00	109.00	100.00	255.00	34.00
VITALEZ	1479911.58	47817.00	86001.00	74226.00	60928.00	8697.00
SUM	47,289,915	2,897,909	4,893,277	4,307,947	5,149,340	681,479

B. OBJECTIVE

To ensure that necessary infrastructure such as access roads, shelters and other vital installations are restored to its functional state.

C. LEAD AGENCY: CEO

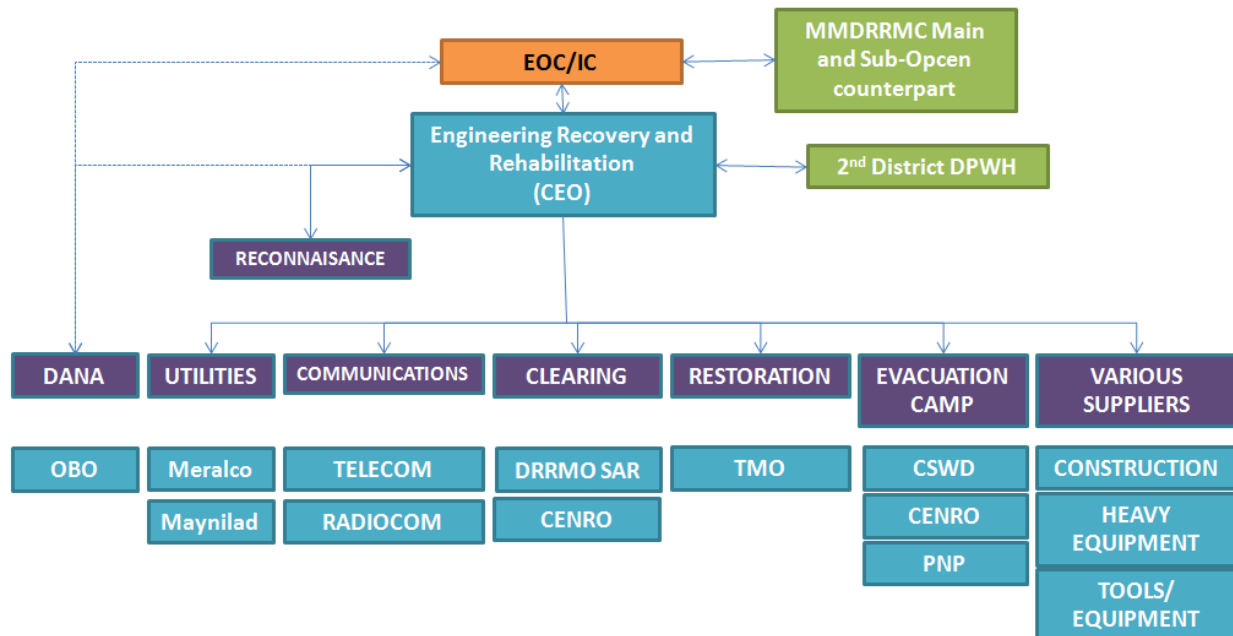
D. SUPPORT AGENCY: CPDCO, CENRO, LHB, OBO, DPWH, MMDA, NGOs, VO, CSOs, Private Sector

E. TASKS

CEO, OBO, TMO, CENRO	Identify and, if needed, clear/restore roads to provide necessary access for transport of materials and supplies into the city or into those affected areas
CEO, DPWH	Make necessary repairs/restoration/reconstruction to vital installations
CEO, DPWH, MMDA	Assist rescue units in the conduct of rescue operations when called upon
CEO, LHB, NGOs, CSOs, VOs	Provide or arrange/construct temporary, permanent housing /settlements and facilities to those affected population.
CEO, CENRO	Provide/facilitate necessary maintenance services in the evacuation camp such as solid and water waste management and maintenance of facilities (electricity, water, cleanliness)
CEO, Private Sector	Facilitate or ensure linkages with contractors, developers and owners of heavy equipment, construction supply for assistance in reconstruction and rehabilitation

F. STANDARD OPERATING PROCEDURE

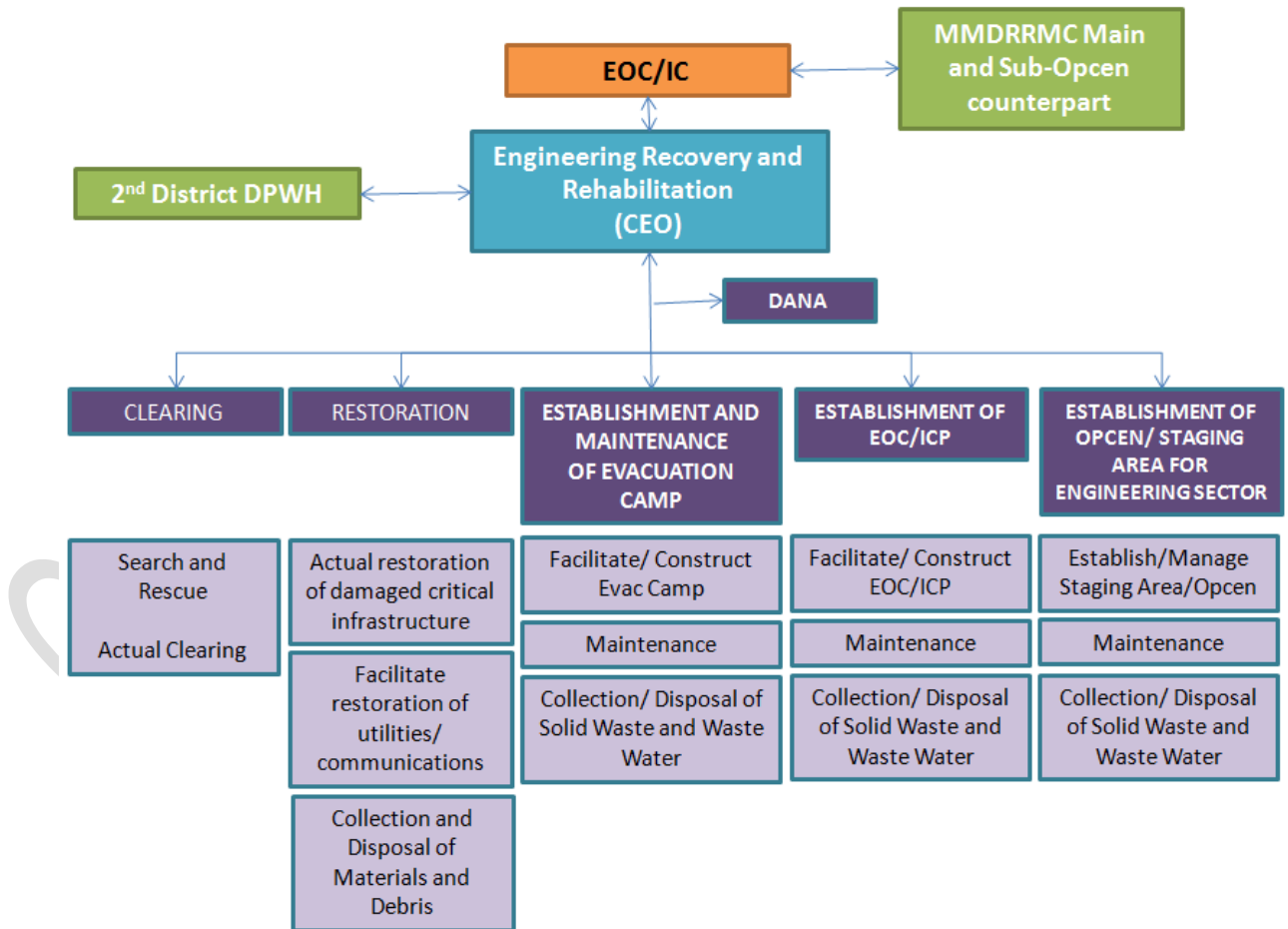
COORDINATION ACTION



- The City Engineer shall coordinate with the EOC/IC, for initial coordination. Contact other staff to report to the staging area, assess initial status of inventory for deployment

- Deploy spotter/reconnaissance to conduct initial assessment of area 4 teams per district:
 - 1 motorcycle per team
 - 1 handheld radio per team
 - 1 digital cam per team
- Organize and scheduling of engineering team based on initial plan of action
- Report to EOC/IC initial assessment result and plan of action
- Facilitate establishment of EOC/ICP at the in case the City Hall and DRRMO rescue building is deemed structurally unsound
- Facilitate establishment of Motorpool as staging area and operations center for the engineering sector.
- Alert and coordinate with other engineering partners

RESPONSE ACTION



DAMAGE ASSESSMENT AND NEEDS ANALYSIS

- Conduct Damage Assessment and Needs Analysis of various structures affected by the earthquake in coordination with support agencies:
 - City Hall and DRRMO rescue building
 - Bridges/Road Network
 - Public Hospitals, Health Centers and other health facilities
 - Public Schools
 - Barangay Halls
 - Utilities
 - Building Structures
 - Structures of Historical Value (e.g. Churches)
- Report to DANA team and EOC/IC

ESTABLISHMENT OF EOC/ICP

- An EOC/ICP will be established within the Motor pool in case the City Hall and DRRMO Rescue Building is deemed structurally unsound. The Engineering Sector shall facilitate the construction/establishment of ICP facilities. The Engineering Sector shall provide necessary maintenance of facilities including collection/disposal of solid waste and waste water.
- A Staging Area and Engineering Sector OpCen shall likewise be established within the Motor pool. Resources to assist the Engineering Sector are to be staged in this area ready for deployment.

CLEARING

- Clearing of priority major roads. Priority areas to be cleared include:
 - Access Roads to leading to ICP, Evacuation Camp and Major Exits:
 - Dr. A. Santos Ave.
 - Kabihasanan Rd. and Quirino Ave.
 - MIA Rd.
- Search and rescue teams on site shall assist to ensure debris are clear of victims/casualties as clearing operations are taking place.
- As needed, activate partnership with private sectors for assistance in debris clearing
- A Team shall be assigned to manage the clearing of three priority road networks. Each team shall be composed of:
 - Team 1 will be assigned to Dr. A. Santos Ave.
 - Spider Backhoe (1 Driver, 1 Spotter)
 - Payloader (1 Driver, 1 Spotter)
 - Grader (1 Driver, 1 Spotter)

- Dump Truck (1 Foreman, 1 Driver, 8 Crew)
 - Each team shall be provided with the following equipment:
- Chainsaw
- Jack hammer
- Hand tools
- Facilitate collection and disposal of cleared debris in proper disposal sites
- Continuous updating and feedback on operations to the EOC/IC.

RESTORATION

- Conduct assessment of damage facilities and structures
- Prepare the necessary detailed engineering design and cost estimate. Secure approval.
- Acquire construction materials through emergency purchase
- Carry out/contract it out the temporary restoration of damaged government facilities such as roads, bridges and other structures in coordination with concerned national government agencies such as DPWH, MMDA, DepEd and DOH.
- Prepare as built plan.
 - Facilitate restoration of utilities (water and electricity) and communication (Telecom and Radio) in coordination with concerned agencies such as Maynilad, Meralco, PLDT and Mobile Network Providers.
 - Facilitate delivery of domestic water to affected communities in coordination with Barangay LGU's, BFP and water companies
 - Regular reporting and feedback to EOC/IC.

EVACUATION CAMP

- Coordinate with CSWD for the final layout of the evacuation camp.
- Facilitate construction and establishment of initial evacuation camp at Asia World City.
- Coordinate/Assist MMDRRMC Main and Sub OpCen for the completion of the evacuation camp
- Provide and facilitate the provision of regular maintenance services for the evacuation camp In coordination with MMDRRMC Main and Sub OpCen
- Facilitate and coordinate the collection and disposal of solid waste and waste water with CENRO and MAYNILAD, respectively.
- Regular updating and feedback to EOC/IC

GAPS AND NEEDS IDENTIFICATION: ENGINEERING RECOVERY AND REHABILITATION

Item	No. of Population	Standard	Existing Resources	Week 1 (a)	Week 2-4 (b)	Gap a (PN-ER)	Gap b (PN-ER)	Activity to Meet Gap	Cost	Source
RECONAISSANCE/DANA										
Manpower	2 districts	2/team x 4 teams/district for Recon	16	16	16	0	0			CEO
		2 Engrs x 4 teams/district for DANA	16	16	16	0	0			OBO/CEO/CPDCO/CAO
Motorcycle		1/team	8	8	8	0	0			OBO/CEO/CPDCO/CAO
Communication/Documentation		1/ team	8	8	8	0	0			OBO/CEO/CPDCO/CAO
CLEARING										
Manpower	3 road networks	1 team/road network x 3 road networks x 2 shift	18	18 Team Leader, Asst Team Leader, Foreman	18	0	0			CEO
		5/team/road network x 3 road network x 2 shifts	5	30 Heavy equipment Operators	30	25	25	Hire Skilled Operators	25 x 1,500.00 x 30 days = 1,125,000.00	QRF
		15 laborers/team x 3 road network x 2 shifts	10	90 laborers	80	80	80	Hire Laborers	80 x 675.00 x 30 days = 1,620,000.00	QRF

	structures									
ESTABLISHMENT OF EVACUATION CAMP										
Area Temporary Shelter	Asia World City (Evac)	1shelter/Family at 15sq.m.	60 hectares	60 hectares	60 hectares	0	0			
Temporary Communal Shelters (Lona/Tarp)			0	16 shelters	16 shelters				50,000.00/shelter x16 shelters = 800,000.00	QRF
Foreman		2shifts			0					CEO
Laborer					0			Work for Food		CSWD
Toilet/Bath Facilities w/Communal Septic Tank										
Collection dump truck/crew										

ON GOING UPDATING

SECURITY AND SAFETY SECTOR

A. SCENARIO

Hazardous/Fire Scenes : 6
 Fire Prone : 14
 Gas Stations

B. OBJECTIVE

To ensure the safety of the general public, the responders and property

C. LEAD AGENCY: PNP

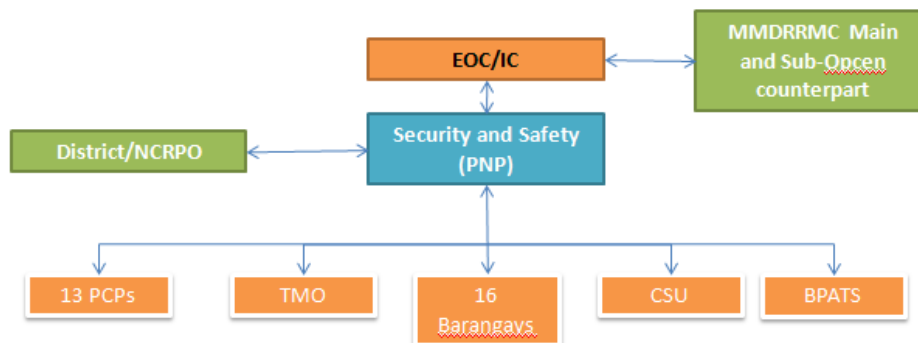
D. SUPPORT AGENCY: TMO, BPATS, CSU, LNB. Uniform personnel

E. TASKS

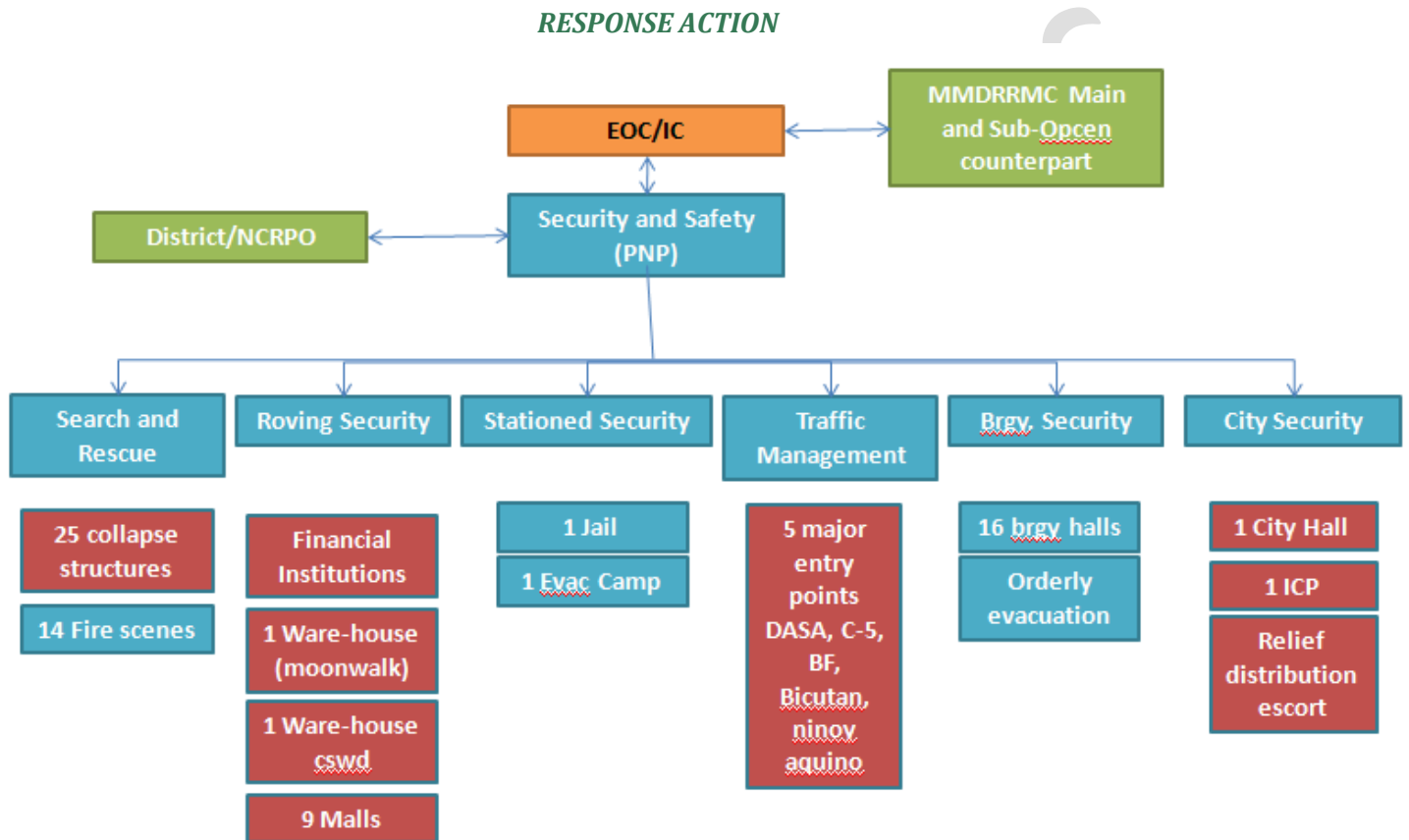
PNP, CSU, Uniform Personnel, TPMO	Shall assist in the mobilization of the police force and other security groups to provide security assistance to the DRMMC Operations, disaster victims in the evacuation and rehabilitation areas.
BDRRMCs	Responsible for the safety and security of persons as well as of the properties of the disaster victims whether it is in the vacated premises, evacuation centers, or other operational areas.
PNP, CSU, Uniform Personnel, TPMO	Shall provide the necessary escort to the transport of persons and their personal properties, equipments, supplies and other much needed resources
PNP, BDRRMCs	Ensure the non-intrusion of malefactors within the resettlement areas and rehabilitation centers.
PNP, BDRRMCs, Uniform Personnel	Shall maintain peace and order at all times

F. STANDARD OPERATING PROCEDURE

COORDINATION ACTION



- The team leader on duty shall coordinate to the
 - COP
 - Shall coordinate with the EOC/IC and PNP District/NCRPO
 - Coordinate with the PCP, TMO, 16 Barangays, CSU and BPATS for initial reporting
- COP to report to the EOC
- Regular updating and reporting to the EOC/IC



- The COP to coordinate with the 16 barangays LGU for the deployment of Barangay tanods to provide roving security within their AOR
- The COP shall deploy security and safety personnel to the following:

Site	Standard	Number of Personnel	Remarks
STATION SECURITY			
Parañaque City Jail	7 personnel/12 hour shift	14	PNP
			BJMP
Evacuation Camp	21 personnel/12 hour shift	42	PNP
ROVING SECURITY			
13 PCP's			PCP

	2 additional personnel/ 12 hour shift	52	PNP
	2 additional personnel/ 12 hour shift	52	PNP-BPATS

- The COP to coordinate with Traffic Management Office for the deployment of personnel to manage traffic and security at major entry points
- The COP to coordinate with the Civilian Security Unit of the City LGU to ensure security and safety of the City hall, ICP and relief distribution escort.
- To deploy security/search and rescue teams to fire scenes and collapse structures

ON GOING UPDATING

GAPS AND NEEDS IDENTIFICATION: SECURITY SECTOR

Item	No of Population	Standard	Existing resources	Week (a)	Week 2-4 (b)	Gap (a)	Gap (b)	Activities to Meet Gaps	Cost	Source	
STATIONED SECURITY											
Manpower/Transport/Fuel/Communication/Supplies	1 City Jail	(7/12 hr shift)	0	14	14	14	14	Activate partnership with PNP as in Integrated CP -do-		PNP	
	1 Evacuation Camp	21/camp x 12 hour shift	0	42/day	42/ day	42	42		-do-		-do-
	Terminal 1 Airport										Airport Security
ROVING SECURITY											
Manpower/Transport/Fuel/Communication/Supplies	13PCPs:	2/PCP/shift x 2 shifts	0	52	52	52	52	Activate partnership with PNP as in Integrated CP		PNP	
	Financial Institutions										
	Major Establishments:	2/establishment x 8 hr shift	33	33	33	0	0			CSU	
	1 Warehouse (moonwalk)										
	1 Warehouse (cswd)										
	9 malls										
TRAFFIC MANAGEMENT											
Manpower/	Transport/Fuel/	CITY ENTRY	2x entry	20	20	10	0	0		TMO	

Communication/ Supplies	POINTS: Dr. A. Santos Ave. C-5 Extension BF Homes Bicutan (SLEX) NinoyAquino Ave. 7 Stoplight along DASA	point x 12 hr shift for the 1st week 2x entry point x 12 hr shift for the 2-4 week 2/stop light x 12 hr shift	28	28	28	0	0			
CITY SECURITY										
Manpower/Transport/Fuel/Communication/Supplies	City Hall 1 ICP Relief Distribution Escort	4x8 hr shift 2x8 hr shift 2x8 hr shift	24	24	24	0	0			CSU
BARANGAY SECURITY										
Manpower/Transport/Fuel/Communication/Supplies	16 Barangay Halls	2 tanods x 8 hr shift	96	96	96	0	0			BDC
SEARCH AND RESCUE										
Manpower/Transport/Fuel/Communication/Supplies	25 Collapsed Structures 14 Fire Scenes	2/structure and fire scene x 12 hr shift	0	2x2x 25 + 2x2x 14	156	15	156	6	Activate partnership with PNP	PNP

				156						
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ON GOING UPDATING

TRANSPORTATION SECTOR

A. SCENARIO

The strong earthquake impact response operational and logistical needs overwhelm and exceed the capacity of the city's current resources.

B. OBJECTIVE

To facilitate the provision for the transportation needs of the different sectors.

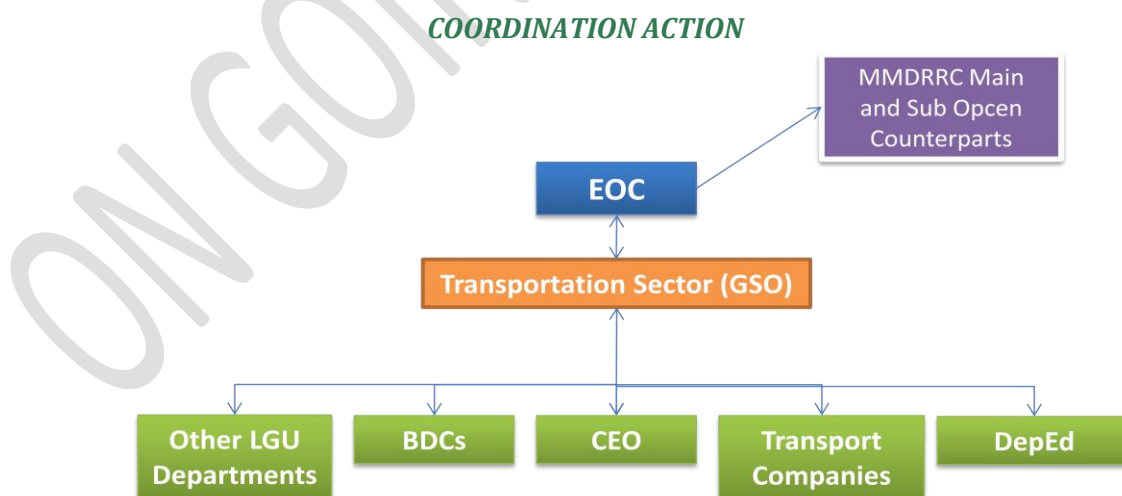
C. LEAD AGENCY: GSO

D. SUPPORT AGENCY: CPDCO, DRRMO, DepEd, NGOs, CSO, CEO, Private Institutions

E. TASKS

CPDCO, GSO, CSO, CEO, Private Institutions	Shall coordinate and facilitate for adequate land transportation for mobilization of persons, materials, equipments, goods and others as deemed necessary.
GSO, CEO, Private Institutions, DepEd	Transport affected families to safe areas/evacuation sites

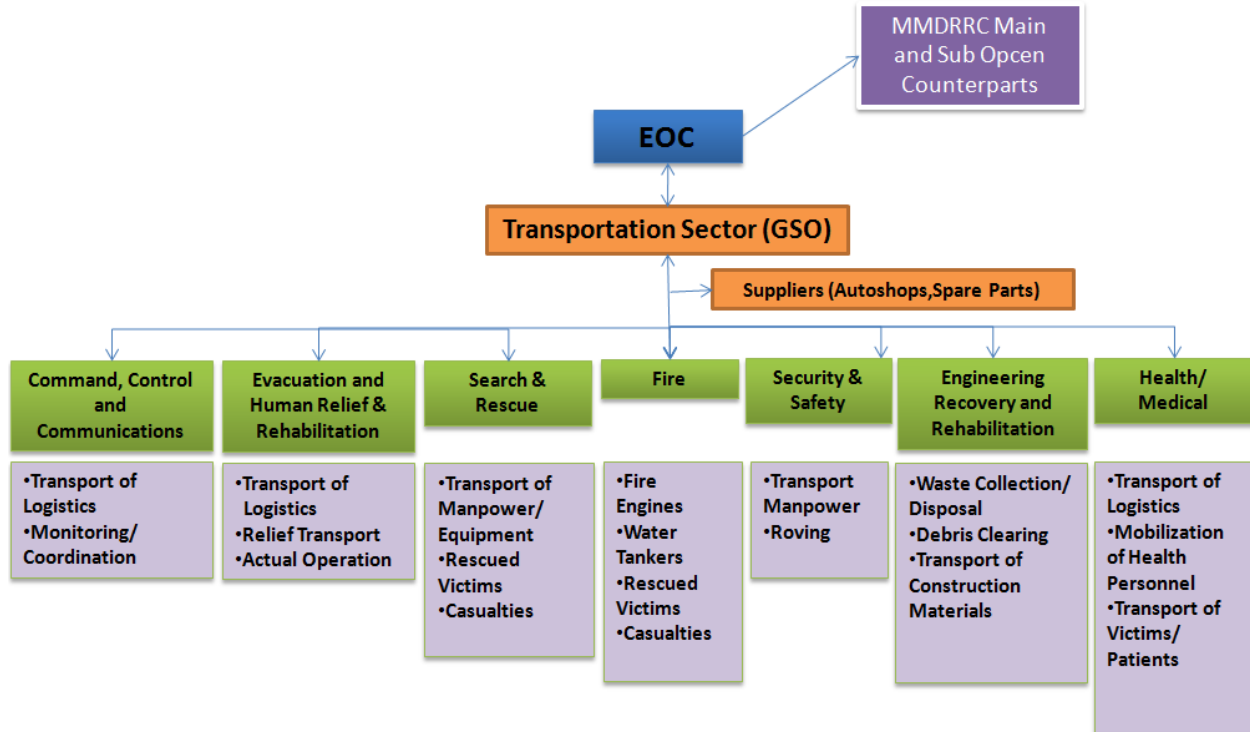
A. STANDARD OPERATING PROCEDURE



- The GSO shall coordinate with EOC/IC. The. Contact his/her staff to the GSO.
- The designated GSO officer shall report to the EOC/ICP.

- Establish OPCEN and staging area for the transport sector.
- Coordinate with transport partners such as Transport Companies, CEO, BDCs and other LGU departments (DepEd, CPDCO, Brgy Health Stations)
- Initial report and feedback to the EOC/IC.

RESPONSE ACTION



- Regular coordination and follow up with EOC/IC and different sectors for the deployment of transport.
- Facilitate the retrieval/towing and repair of deployed vehicles needing maintenance services. As needed, explore outsourcing of needed maintenance services if not available
- Acquisition and allocation of fuel and necessary spare parts to deployed vehicles through emergency purchase
- Regular updating and feedback to EOC/IC.

GAPS AND NEEDS IDENTIFICATION: TRANSPORTATION SECTOR

Item	No. of Population	Standard	Existing Resources	Week 1 (a)	Week 2-4 (b)	Gap a (PN-ER)	Gap b (PN-ER)	Activity to Meet Gap	Cost	Source
Command and Control										
Van	EOC/IC	1	0	1	1	1	1			
Evacuation										
For Mobilization										
Relief										
For Purchasing										
Health/Medical										
Van with Driver/Alternate Driver and Fuel		3	0	3	3	3	3	Assign 2 van from CPDO and 1 from DepEd,		Van, Driver, Driver, Alternate from CPDO, DepEd Gas and Oil from GSO
L300		1/brgy + 1 evac camp	0	17	17	17	17	Activate pre agreed arrangement with Brgy. LGU and assigned 1 van from DepEd		16 Barangay LGU's + DepEd
Utility Truck with Driver/Alternate Driver and Fuel		1/ CHO	0	1	1	1	1			Utility Truck, Driver, Alternate Driver from AFP Gas and Oil from GSO
For GSO Operations										
• Vehicle										

Mechanic • Spare Tires • Spare parts Towing equipment Other Transport for overall operations	6 for the City	1	6	6	5	5	Outsource services from existing Auto Shops	300,000.00	QRF
	As needed								
	As needed						Acquisition of Spare tires and spare parts through emergency purchase	300,000.00	GSO
	1 from the city	1	1	1	0	0			Towing equipment with driver from CEO
	2 pickup + 1 van for the GSO	3	3	3	0	0			Fuel from GSO 3 vehicles with drivers, alternate drivers and fuel from GSO

SEARCH AND RESCUE

Utility Truck with driver, alternate driver and fuel	5 for the sector	0	5	5	5	5	Activate partnership with AFP		Utility Truck with driver and alternate driver from AFP Gas and Oil from GSO
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ON GOING UPDATING

ON GOING UPDATING

CHAPTER 5: PROCEDURES FOR FEEDBACK, UPGRADING, AND FUTURE ACTION

ALLOCATION OF RESPONSIBILITIES:

DISSEMINATION:

This shall be tasked to the Communications Sector and Social Welfare Sector in coordination with the City Disaster Risk Reduction and Management Office, City Planning & Development Coordinator's Office and the City Administrator's Office. Dissemination of information shall be done as often as necessary and is subject to the approval, direction and supervision of the City Disaster Risk Reduction and Management Council.

The BDRRMCs through the Liga ng mga Barangay shall be tasked to disseminate this plan to their respective communities. For participation, involvement and implementation of this Contingency Plan, it shall be disseminated to partners, communities and other stakeholders.

UPDATING, REVISION AND TESTING

This process shall be the responsibility of the City Disaster Risk Reduction and Management Office in close coordination with the City Planning and Development Coordinator's Office and the City Administrator's Office under the supervision of the City Disaster Risk Reduction and Management Council.

ANNEXES

ON GOING UPDATING

COUNCIL RESOLUTION NO. 001 SERIES OF 2014

CITY DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL
Parañaque City

RESOLUTION NO. 001
Series of 2014

A RESOLUTION ADOPTING THE PARAÑAQUE CITY CONTINGENCY PLAN FOR FLOOD, EARTHQUAKE AND OTHER CALAMITIES

WHEREAS, Section 12(c)(2) of R.A. 10121 otherwise known as the "Philippine Disaster Risk Reduction and Management Act of 2010" provides that the City Disaster Risk Reduction and Management Office (DRRMO) shall facilitate and support risk assessments and contingency planning activities at the local level;

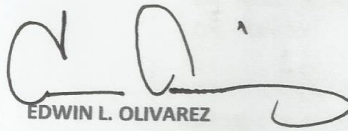
WHEREAS, the presence of a contingency plan will enable the City of Parañaque to respond timely, effectively and appropriately to any potential events or emerging situations that might threaten the society or the environment;

WHEREAS, the Parañaque City Disaster Risk Reduction and Management Council has found the Contingency Plan for Flood, Earthquake and other calamities to be consistent with the intent of R.A. 10121 wherein specific potential disasters that might threaten society or the environment and appropriate responses thereto were clearly identified;

NOW THEREFORE, be it resolved by the Parañaque City Disaster Risk Reduction and Management Council to adopt the Contingency Plan for Flood, Earthquake and Other Calamities for the City of Parañaque.

ADOPTED in the City of Parañaque, Metro Manila, Philippines, this 21st Day of February in the Year of Our Lord, Two Thousand Fourteen.

APPROVED:




EDWIN L. OLIVAREZ

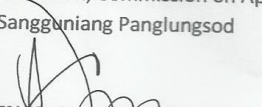
Chairman

City Disaster Risk Reduction and Management Council

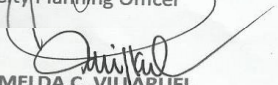
SIGNED:



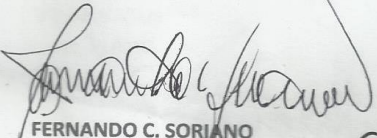
HON. COUN. RYAN JOHN G. YLLANA
Chairman, Commission on Appropriation
Sangguniang Panglungsod



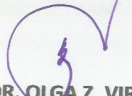
ENGR. BENIGNO L. RIVERA
City Planning Officer



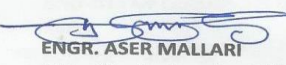
IMELDA C. VILLARUEL
OIC – City Social Welfare Dev't. Office



FERNANDO C. SORIANO
City Administrator



DR. OLGA Z. VIRTUSIO
City Health Officer



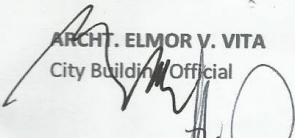
ENGR. ASER MALLARI
OIC – City Engineering Office

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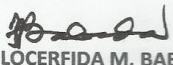
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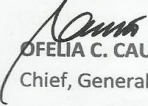

ARCHT. ELMOR V. VITA
City Building Official

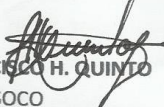

F/SUPT. MANUEL M. MANUEL
City Fire Marshall


DR. NEIL C. ORTEZA
OIC Director - FVBMH



FLOCERFIDA M. BABIDA
City Budget Officer



ANTHONY F. PULMANO
City Treasurer



OFELIA C. CAUNAN
Chief, General Services Office


FRANCISCO H. QUINTO
OIC - SOCO

DR. JOEL T. SAN LUIS
School Division Superintendent, DepEd


RESTITUTO SP. PAGSISIHAN
OIC - CSU



ENGR. OSCAR FERNANDEZ
Chief, Local Housing Dev't. Office

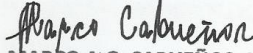

PHILIPPINE RED CROSS - PARAÑAQUE SUB-CHAPTER
Representative

OLD PARAÑAQUE FIRE VOLUNTEER BRIGADE, INC.
Representative

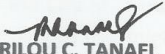

EDGAR PALMIANO
MMDA Action Officer



P/SUPT. ARIEL LEONOR ANDRADE
Parañaque Chief of Police

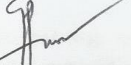

HON. JEREMY S. MARQUEZ
LnB President

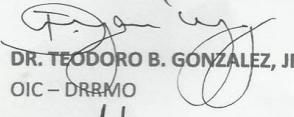

MARCO A.G. CABUEÑOS, JR.
City Director, DILG

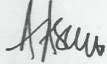

NILON G. GERMEDIA
City Agricultural Officer



MARILOU C. TANAEL
City Accountant

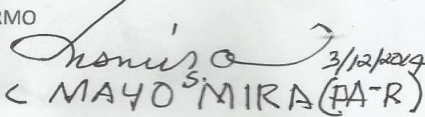

BERNARDO N. AMURAO
OIC - SWEASO


EVANGELINE T. NONO
OIC - Public Information Office


DR. TEODORO B. GONZALEZ, JR.
OIC - DRRMO


ENGR. ARMANDO ARSENIIO
Head - Maintenance

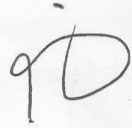

WILLIE GATUS
Chief, PLRMO

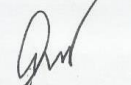

LTCOL MAYO S. MIRA (FA-R)
5th BATTALION ARMY RESERVE RELIEF AND
RESCUE TEAM ASSN.
Representative

KNIGHTS OF COLUMBUS DON GALO COUNCIL
5688
Representative













INCIDENT COMMAND SYSTEM

An Incident Management team shall be established with the following functions depending on the needs and complexity of the incident:

INCIDENT COMMAND AND GENERAL STAFF

The Incident Command, which comprises the Command and General Staff, shall be responsible for overall management of the incident.

a. Incident Command

The command function may be conducted in one of two general ways:

1) Single Incident Command

Single incident command may be applied when an incident occurs within a single jurisdiction and there is no jurisdiction or functional agency overlap. Overall Incident management responsibility rests on the appropriate jurisdictional authority. In some cases where incident management crosses jurisdictional and/or functional agency boundaries, a single IC may be designated if agreed upon.

2) Unified Command (UC)

UC for incident management may be applied when a disaster or emergency affects several areas or jurisdictions or requires multiagency engagement. Unified Command, as an incident management option, provides the necessary guidelines to enable agencies with different legal, geographic, and functional responsibilities to coordinate, plan, and interact effectively. As a team effort, UC allows all agencies with jurisdictional authority or functional responsibility for the incident to jointly provide management direction through a common set of incident objectives and strategies and a single IAP. Each participating agency maintains its authority, responsibility, and accountability.

b. Command Staff

In an incident command organization, the Command Staff typically includes a Public Information officer, a safety Officer, and a Liaison Officer, who report directly to the IC/UC and may have assistants as necessary. Additional positions may be required, depending on the nature, scope, complexity, and location(s) of the incident(s), or according to specific requirements established by the IC/UC.

1) Public Information Officer

The Public Information Officer is responsible for interfacing with the public and media and/or with other agencies with incident-related information requirements. Whether the command structure is single or unified, only one Public Information Officer should be designated per incident. Assistants may be assigned from other involved agencies, departments, or organizations. The IC/UC must approve the release of all incident-related information. In large-scale incidents or where multiple command posts are established, the

Public Information Officer should participate in or lead the joint Information or Media Center in order to ensure consistency in the provision of information to the public.

2) Safety Officer (SO)

The SO monitors incident operations and advises the IC/UC on all matters relating to operational safety, including the health and safety of emergency responders. The ultimate responsibility for the safe conduct of incident management operations rest with the IC/UC and supervisors at all levels of incident management. The SO is, in turn, responsible to the IC/UC for the systems and procedures necessary to ensure ongoing assessment of hazardous environments, including the incident Safety Plan, coordination of multiagency safety efforts, and implementation of measures to promote emergency responder safety as well as the general safety of incident operations. The SO has immediate authority to stop and/or prevent unsafe acts during incident operations.

3) Liaison Officer (LO)

The LO is Incident Command's point of contact for DRRMC/other government agency representatives, NGOs, and the private sector to provide input on their agency's policies, resource availability, and other incident-related matters. Under either a single-IC or a UC structure, representatives from assisting or cooperating agencies and organizations coordinate through the LO.

4) Additional Command Staff (ACS)

ACS positions may also be necessary, depending on the nature and location(s) of the incident or specific requirements established by IC.

3) GENERAL STAFF (GS)

The GS is responsible for the functional aspects of the Incident Command structure; The GS typically consists of the Operations, Planning, Logistics, and Finance/Administration Section Chiefs. The Section Chiefs may have one or more deputies assigned, with the assignment of deputies from other agencies encouraged in the case of multijurisdictional incidents.

a. Operations Section

This section is responsible for all tactical activities focused on reducing the immediate hazard, saving lives and property, establishing situational control, and restoring normal operations. Lifesaving and responder safety will always be the highest priorities and the first objectives in the IAP. The Operations Section Chief(OSC) will establish tactics for the assigned operational period. An OSC should be designated for each operational period, and responsibilities include direct involvement in development of the IAP.

The Operations Section is composed of the following:

1) Branches

Branches may be functional, geographic, or both, depending on the circumstances of the incident, in general, Branches are established when the number of Divisions or Groups exceeds the recommended span of control, Branches are identified by the use of Roman numerals or by functional area.

2) Divisions and Groups

Divisions and/or group are established when the number of resources exceeds the manageable span of control of Incident Command and the OSC. Divisions are established to divide an incident into physical or geographical areas of operation. Groups are established to divide the incident into functional areas of operation. For certain types of incidents, for example, Incident Command may assign evacuation or mass-care responsibilities to a functional Group in the Operations Section. Additional levels of supervision may also exist below the Division or Group level.

3) Resources

Resources may be organized and managed in three different ways, depending on the requirements of the incident.

- **Single Resources:** Individual personnel or equipment and any associated operators.
- **Task Forces:** Any combination of resources assembled in support of a specific mission or operational need. All resource elements within a Task Force must have common communications and a designated leader.
- **Strike Teams:** A set number of resources of the same kind and type that have an established minimum number of personnel. All resource elements within a Strike Team must have common communications and a designated leader.

The use of Task Forces and Strike Teams is encouraged, when appropriate; to optimize the use of resources, reduce the span of control over a large number of single resources, and reduce the complexity of incident management coordination and communications.

b. Planning Section

The Planning Section collects, evaluates, and disseminates incident situation information and intelligence to the IC/UC and incident management personnel. This section prepares status reports, displays situation information, maintains the status of resources assigned to the incident, and prepares and documents the IAP, based on Operations Section input and guidance from the IC/UC.

As shown in the ICS organization below, the planning Section is comprised of four primary Units, as well as a number of technical specialists to assist in evaluating the situation, developing planning options, and forecasting requirements for additional resources. Within the Planning Section, the following primary Units fulfill functional requirements.

- **Resources Unit (RESU):** Responsible for recording the status of resources committed to the incident. This Unit also evaluates resources committed currently to the incident, the effects additional responding resources will have on the incident, and anticipated resource needs.
- **Situation Unit (SITU):** Responsible for the collection, organization, and analysis of incident status information, and for analysis of the situation as it progresses.
- **Demobilization Unit (DEMOB):** Responsible for ensuring orderly, safe, and efficient demobilization of incident resources.

- **Documentation Unit (DOCU):** Responsible for collecting, recoding, and safeguarding all documents relevant to the incident.
- **Technical Specialist(s) (TS):** Personnel with special skills that can be used anywhere within the ICS organization.


4. The Incident Command System Organization

The ICS organization, as an on-scene level command and management structure, should be located at ICP, which is generally located at or in the immediate vicinity of the incident site. It is not a permanent structure nor will replace existing DRRMS's/other similar organizations in public and private agencies or entities. It is designed to enable effective and efficient incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure.

A typical ICS organization and DRRMC-EOC and ICS Organization interoperability are depicted below.

PHIVOLCS EARTHQUAKE INTENSITY SCALE (PEIS)

I. SCARCELY PERCEPTIBLE




- Perceptible to people under favorable circumstances.
- Delicately balanced objects are disturbed slightly.
- Still water in containers oscillates slightly.

II. SLIGHTLY FELT




- Felt by individuals at rest indoors.
- Hanging objects swing slightly.
- Still water in containers oscillates noticeably.

III. WEAK



- Felt by many people indoors specially in upper floors of buildings. Vibrations is felt like the passing of a light truck. Dizziness and nausea are experienced some people.
- Hanging objects swing moderately.
- Still water in containers oscillates moderately.

IV. MODERATELY STRONG




- Felt generally by people indoors and some people outdoors. Light sleepers are awakened. Vibration is felt like the passing of a heavy truck.
- Hanging objects swing considerably. Dinner plates, glasses, windows and doors rattle. Floors and walls of woodframed building creak. Standing motor cars may rock slightly.
- Water in containers oscillates strongly.
- Rumbling sound may sometimes be heard.

V. STRONG




- Generally felt by most people indoors and outdoors. Many sleeping people are awakened. Some are frightened; some run outdoors. Strong shaking and rocking are felt throughout building.
- Hanging objects swing violently. Dining utensils clatter and clink; some are broken. Small light and unstable objects may fall or overturn. Liquids spill from filled open containers. Standing vehicles rock noticeably.
- Shaking of leaves and twigs of trees is noticeable.

VI. VERY STRONG




- Many people are frightened; many run outdoors. Some people lose their balance. Motorists feel like driving with falt tires.
- Heavy objects and furniture move or may be shifted. Small church bells may ring. Wall plaster may crack. Very old or poorly-built houses and man-made structures are slightly damaged though well-built structures are not affected.
- Limited rockfalls and rolling boulders occur in hilly to mountainous areas and escarpments. Trees are noticeably shaken.

VII. DESTRUCTIVE




- Most people are frightened and run outdoors. People find it difficult to stand in upper floors.
- Heavy objects and furniture overturn or topple. Big church bells may ring. Old or poorly built structures suffer considerable damage. Some well-built structures are slightly damaged. Some cracks may appear on dikes, fish ponds, road surface, or concrete hollow block walls.
- Limited liquefaction, lateral spreading and landslides are observed. Trees are shaken strongly. (Liquefaction is a process by which loose saturated sand loses strength during an earthquake and behaves like liquid.)

VIII. VERY DESTRUCTIVE




- People are panicky. People find it difficult to stand even outdoors.
- Many well-built buildings are considerably damaged. Concrete dikes and foundations of bridges are destroyed by ground settling or toppling. Railway tracks are bent or broken.
- Tombstones may be displaced, twisted or overturned. Utility posts, towers and monuments may tilt or topple. Water and sewer pipes may be bent, twisted or broken.
- Liquefaction and lateral spreading cause man-made structures to sink, tilt or topple. Numerous landslides and rockfalls occur in mountainous and hilly areas. Boulders are thrown out from their positions particularly near the epicenter. Fissures and fault rupture may be observed. Trees are violently shaken. Water splashes or stops over dikes or banks of rivers.

IX. DEVASTATING



- People are forcibly thrown to the ground. Many cry and shake with fear.
- Most buildings are totally damaged. Bridges and elevated concrete structures are toppled or destroyed.
- Numerous utility posts, towers and monuments are tilted, toppled or broken. Water and sewer pipes are bent, twisted or broken.
- Landslides and liquefaction with lateral spreading and sandboils are widespread. The ground is distorted into undulations. Trees are shaken very violently with some toppled or broken. Boulders are commonly thrown out. River water splashes violently or stops over dikes and banks.

X. COMPLETELY DEVASTATING



- Practically all man-made structures are destroyed.
- Massive landslides and liquefaction, large scale subsidence and uplifting of land forms and many ground fissures are observed. Changes in river courses and destructive seiches in large lakes occur. Many trees are toppled, broken or uprooted.

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DEPARTMENT OF SCIENCE AND TECHNOLOGY
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C.P. Garcia Ave., U.P. Diliman, Quezon City



Note: When an earthquake occurs, observe and determine its intensity in your locality by using this intensity scale. Report the observed intensity to PHIVOLCS immediately. Call collect any of these telephone numbers: 426-1468 to 79.

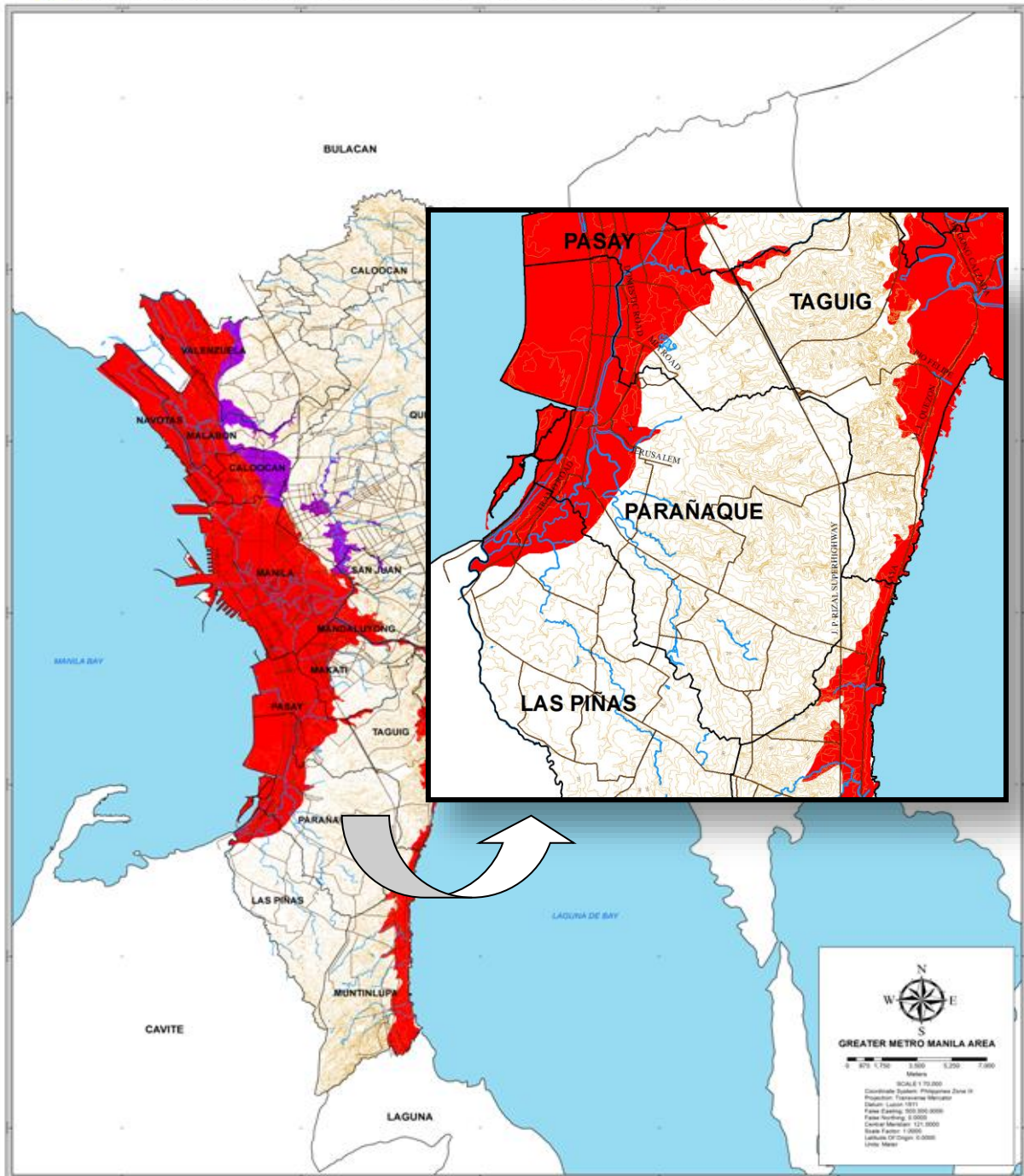
PHOTO DOCUMENTATION

FORMULATION - ONE TAGAYTAY PLACE, TAGAYTAY CITY, OCTOBER 8-12, 2012



- MMDRRMC Sub-Opcon

▲ READY FOR GMAA PROJECT : PRELIMINARY LIQUEFACTION HAZARD MAP OF METRO MANILA



Hazard Data: Philippine Institute of Volcanology and Seismology (PHIVOLCS-DOST)
 Administrative boundary Used in Metro Manila, Exposure Database RAP Project
 Contour, River and Road, National Mapping and Resource Information Authority (NAMRIA)

Disclaimer:
 Administrative boundaries are approximate.

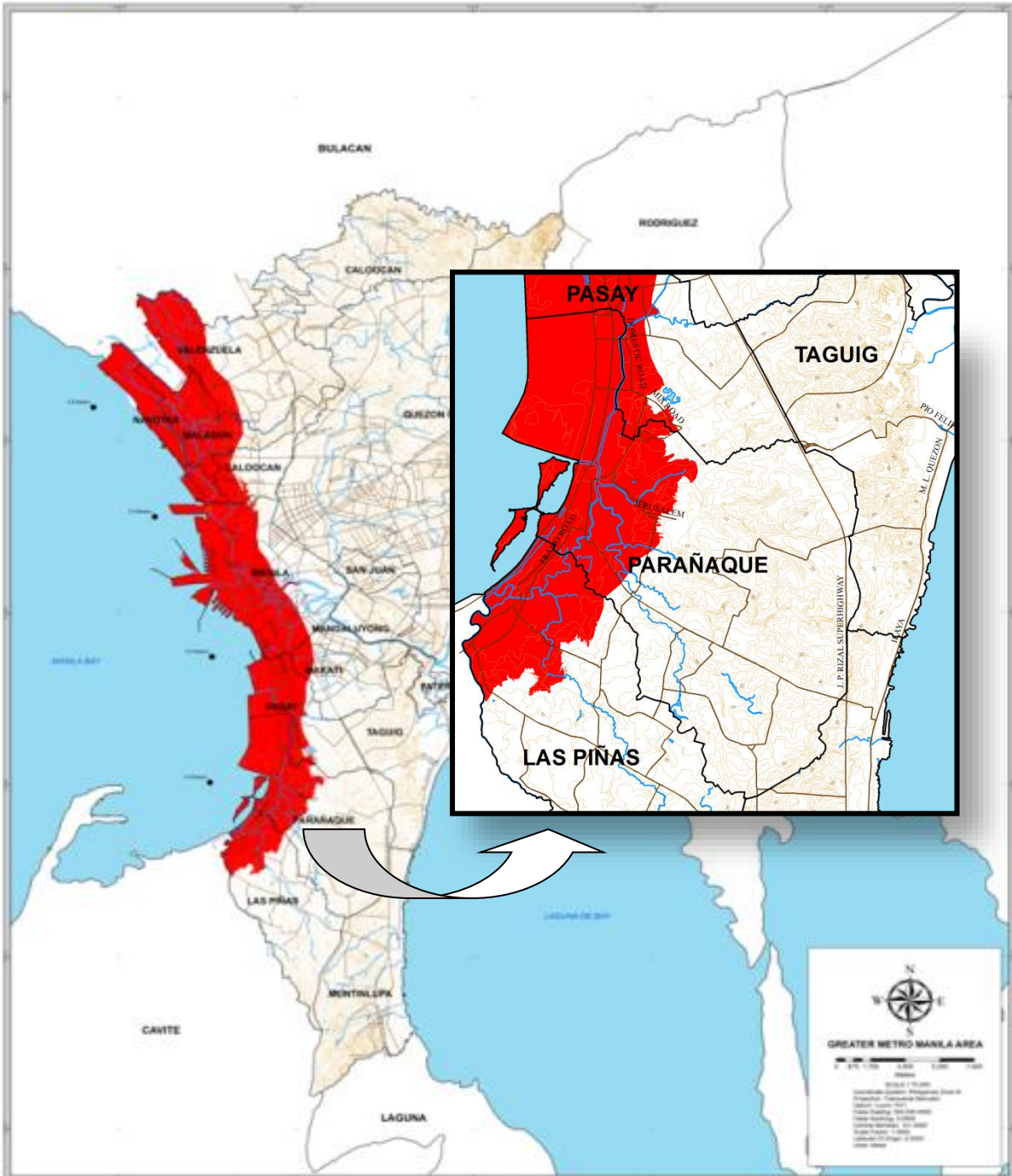
- City Boundary
- Contour
- Road
- Rivers
- Water Bodies

- High Susceptibility
- Medium Susceptibility
- Low Susceptibility

1. The map was based on the geology, earthquake source zone, historical accounts of liquefaction, geomorphology and hydrology of the area, and preliminary microtremor survey data utilized to validate type of underlying materials.
2. This map is semi-detailed and may be used for land use, emergency response and mitigation planning, and should not be used for site specific evaluation.
3. The liquefaction hazard maps do not restrict construction of any structures and development in areas susceptible to liquefaction as long as proper engineering considerations are applied.



READY FOR GMMMA PROJECT : PRELIMINARY TSUNAMI HAZARD MAP OF METRO MANILA



Hazard Data, Programme Institute of Technology and Seismology (PHICS-COCS)
 Administrative Boundary Used in Metro Manila Exposure Database (TAP Project)
 Contour: Water and Road, National Mapping and Resource Information Authority (NAMRIA)

Disclaimer:
 Administrative boundaries are approximate

City Boundary
 Contour
 Road
 Water
 Water Bodies

Tsunami Inundation Area

● Contoured Maximum Tsunami Waveheight with Height of Tide

The tsunami hazard was generated using available tsunami programs, bathymetry and factors data, and topographic and bathymetric maps.

Limitations of the map:

1. The extent of the tsunami inundation is based on current physical conditions of the study area.
2. Does not reflect the hazard that could be generated by far field tsunamis.
3. Earthquake inclusion subjective variables that could also generated tsunami and not covered by the map.
4. Significant erosion or deposition along the shore in the future could affect the level of tsunami hazard and may need hazard re-assessment.

RESOURCE INVENTORY

2. TRANSPORTATION SECTOR

RESOURCE INVENTORY					
<i>Resources</i>	<i>Unit</i>	<i>Number</i>	<i>Location</i>	<i>Agency</i>	<i>Remarks</i>
Mini Dump truck	unit	16	Barangay	Barangay	Running condition
Isuzu Built-in Truck 6 Wheeler	unit	2	City Hall	SWAESO	-do-
Bus	unit	6	City Hall	Engineering	-do-
		2	City Hall	LGU	
Other Transport Resources:					
<i>Description</i>	<i>Quantity</i>	<i>Description</i>	<i>Quantity</i>		
Mobile Clinic	1	Hi-Lander Crosswind	2		
Toyota Corolla	30	Ceres Fire Truck	3		
Toyota Revo	10	Mini Dump Truck	8		
Toyota Sedan	1	Isuzu 6 wheeler	1		
Toyota Altis	12	Towing Truck	1		
Toyota Tamaraw – Revo	1	Kia Ceres Dump Truck	8		
Toyota Tamaraw	1	Isuzu Elf	1		
Toyota Tamaraw Wagon	2	ANFRA	2		
Toyota Hi-Ace	1	Canter FE	1		
Kia Pride	6	Isuzu Fire Truck	6		
Kia Pregio	2	Water Tanker	2		
Kia Besta	9	Lifan Motorcycle w/ sidecar	3		
Kia Besta Ambulance	2	Canter Fire Truck	1		
Paramedic Ambulance	1	Isuzu Tanker	4		
Mitsubishi L-300 Ambulance	10	Isuzu Airlift	1		
Coaster Van	1	Toyota Vios	21		
Honda Civic	2	Komatsu Backhoe Loader	2		
Mazda	12	Vibrator Roller	1		
Mazda Pick-up	1	Komatsu Wheel Loader	2		
Kawasaki Motorcycle	38	Bomag Vibrator Roller	1		
Kymco Motorcycle	11	Yamaha Motorcycle w/ sidecar	69		
Honda Motorcycle	27	Motorcycle	13		
Yamaha Motorcycle	1	Hyundai Starex	1		
Suzuki Motorcycle	11	Compactor	1		
Veloci Motorcycle	2	Dump Truck No. 14	1		
Suzuki/Enforcer Multicab	70	Komatsu Vibrator Roller	1		
Hi-Ace Grandia	1	Hyundai Grace Van	1		
Isuzu Bus	2	Garbage Dump Truck	7		
Isuzu Crosswind	15	Motorbike	5		
Lift-up Vehicle	4	Toyota Innova	24		
Manlift Truck	2	Yamaha Wonderbike	12		
FotonGordox	2	L-300 Ambush Type	5		
Hyundai UV	36				

3. SECURITY SECTOR

RESOURCE INVENTORY					
Resources	Unit	Number	Location	Agency	Remarks
Personnel	Policeman	355	Police Precincts		Ready
Kawasaki Motorcycles	unit	57	Police Precincts		Running condition
Suzuki Multicab	unit	7	Police Precincts		-do-
Honda Motorcycle	unit	14	Police Dept.		-do-
Toyota Corolla	unit	4	Police Dept.		-do-
Kia Pride	unit	2	MASCO		-do-
Yamaha YBR	unit	12			New

POLICE PRECINCTS		
PRECINCT	LOCATION	BARANGAY
Parañaque Community Precinct No. 1	Quirino Ave., corner Taft Ave.	Baclaran
Parañaque Community Precinct No. 2	Quirino Ave., corner M. Rodriguez St.	La Huerta
Parañaque Community Precinct No. 3	#62 Doña Soledad St.	Don Bosco
Parañaque Community Precinct No. 4	Dr. A. Santos Ave., corner Filipinas Ave.	San Isidro
Parañaque Community Precinct No. 5	BF Homes	BF
Parañaque Community Precinct No. 6	South Superhighway	Marcelo Green
Parañaque Community Precinct No. 7	AMVEL Park, N. Aquino Ave.	San Dionisio
Parañaque Community Precinct No. 8	Multinational Ave. cor. N.Aquino Ave.	Sto. Nino

2. FIRE SECTOR

RESOURCE INVENTORY					
Resources	Unit	Number	Location	Agency	Remarks
FMC 127A	unit	1	Central FS	by BFP	Operational
FMC 128B	unit	1	Central FS	-do-	BER *
FMC 130A	unit	1	Central FS		BER
FMC130B	unit	1	Central FS		BER
FMC131A	unit	1	Central FS		BER
Ford Eurostar Ambulance	unit	1	Central FS		Non Opn'l
FMC 129A	unit	1	Central FS		Operational
Patriot 132A	unit	1	BF FS		Operational
FMC 128A	unit	1	Better Living FS		Operational
Isuzu tanker PT03	unit	1	Central FS	by LGU	Non Opn'l
Isuzu tanker PT04	unit	1	Central FS	-do-	Non Opn'l
Isuzu tanker PT04	unit	1	La Huerta FS		Operational
Isuzu tanker PT06	unit	1	Central FS		Operational
Toyota Corolla	unit	1	Chief Ops Officer		Operational
Mitsubishi Canter	unit	1	Central FS		Operational
Yiyang Motorcycle	unit	1	Arson Inv.		Operational
Yiyang Motorcycle	unit	1	Arson Inv.		Operational
Protective Gear	sets	44	Firemen		
* Beyond Economic Repair					
FIRE STATIONS			Station	Location	Barangay

Central Fire Station	Dr. A. Santos Ave.	San Dionisio
La Huerta Sub-Station #1	Quirino Ave.	La Huerta
BF Homes Fire Sub-Station #2	Elsie Gaches St., Phase 1, BF Subd.	BF
BLS Fire Sub-Station #5	Bermuda St., Annex 40, BLS	Don Bosco
Baclaran Fire Sub-Station #4	Bagongillog near Bgy Hall of Baclaran	Baclaran
LPGMA Volunteer Team	Dr. A Santos Ave., near Holy Trinity Chapels	BF

3. SEARCH AND RESCUE SECTOR

RESOURCE INVENTORY	
Manpower	21
TRAINING CAPACITY	No. of TRAINED MANPOWER
Basic/Standard First Aid	20
BLS/CPR	20
Emergency Medical Technician	20
High-Angle Rescue	7
Swift/Flood Water rescue	10
Vehicular Extrication	10
Communications	
Mobile Radio (Kenwood TM - 271A)	3
Portable Handheld Radio (ICOM IC-V8)	15
Vehicles	
Toyota Hi-ace made BLS Ambulance	1
Nissan Made BLS Ambulance	1

RESOURCE INVENTORY						
Resources	Unit	Number	Location	Agency	Remarks	
MEDICAL AND TRAINING EQUIPMENT						
Automated External Defibrillator	unit	2	PERU base	DRRMO	GWC*	
CPR Mannequin (Adult)	unit	3	-do-	-do-	-do-	
CPR Mannequin (Infant)	unit	3				
Intubation Mannequin	unit	1				
Intubation Set	unit	3				
Minor Surgical Set	unit	5				
Bag valve mask (Adult)	unit	3				
Bag valve mask (Pedia)	unit	3				
Oxygen tank with regulator and humidifier set	unit	4				
Cardiac Monitor	unit	1				
Pulse Oximeter	unit	3				
Trauma Burn Pack	unit	2				
CPR packet mask combo/ adult infant	unit	20				
Backpack with first aid kit set	unit	25				
Cadaver Bag	unit	5				
RESCUE AND TRAINING EQUIPMENT						
Hydraulic Combtool Set (Weber SPS 400)	unit	1				
Hydraulic Jack (Webber SBA 15/255)	unit	1				

Hydraulic Pump w/engine (Weber)	unit	1			
Hydraulic Jack Regulator (Weber)	unit	1			
Hydraulic Hose extension	unit	1			
Hydraulic Jack (Weber-Manual 5Tonner)	unit	1			
Manual Cutter LKS 30 (Lukas)	unit	1			
Chain Saw	unit	2			
Concrete cutter (Stihl 460)	unit	1			
Metal cutter (Stihl 460)	unit	1			
Electric Twin Saw CRE 2326 (Weber)	unit	1			
Portable Oxy-Acetylene Gas Cutter	unit	2			
Gasoline powered air compressor	unit	2			
Air lifting bag 50 Tonner (MAT JACK)	unit	2			
Air lifting bag 32 Tonner (MAT JACK)	unit	2			
Air lifting bag board	unit	9			
Gas Monitor	unit	1	PERU base	DRRMO	GWC*
Halligan tool with prying & cutting head	unit	2	-do-	-do-	-do-
Fire Axe:					
Small	unit	2			
Big	unit	2			
Shovel:					
Quadrada	unit	2			
Debilo	unit	2			
Sledge hammer (Big)	unit	2			
Electric Drill/Hammer (Big)	unit	2			
Portable Jack Hammer Bosch GBH 2-18RE	unit	1			
Portable Jack Hammer Makita	unit	1			
Vehicular Extrication Toolbox					
- Seat belt cutter (WEBER)	unit	4			
- Emergency Hammer (SHINEWAY)	unit	4			
- Cable cutter (Stanley)	unit	2			
- Bolt Cutter (ACE)	unit	2			
- 6 pc. Screw Driver set (Stanley)	unit	2			
- Pipe wrench (Stanley)	unit	2			
- Adjustable Wrench 10 " (Stanley)	unit	2			
- Sledge Hammer (small) (Butterfly)	unit	2			
- Cutting Plier (Stanley)	unit	2			
- Long nose Plier (Stanley)	unit	2			
- Groove Joint Plier (Stanley)	unit	2			
- Linesman Plier (Stanley)	unit	2			
- Slip Joint Plier (Stanley)	unit	2			
- Working Gloves (Eagle)	unit	2			
- Eye Protective goggles	unit	2			
- Dust Mask 5's (3M)	unit	2			
Ropes:					
Water rescue rope (7/16" 100m)	unit	2			
Water rescue rope (7/16" 200m)	unit	1			
High Angle Rescue rope(11mm 100m)	unit	1			
High Angle Rescue rope(11mm 100m)	unit	1			

High Angle Rescue rope(10.7mm 200m)	unit	1			
10mm Terypro rope (50m)	unit	6			
10mm Rappel rope (50m)	unit	1			
Sling rope (1m)	unit	22			
Flat webbing rope (1m)	unit	12			
Carabiners:					
Steel	unit	10			
Alloy	unit	12			
Steel Rescue 8	unit	10			
Single Pulley System set	unit	9			
Single Pulley System set (fixed)	unit	2	PERU base	DRRMO	GWC*
Tandem Pulley System set	unit	7	-do-	-do-	-do-
Ascender	unit	4			
Braking descender	unit	4			
Harness (full body)	unit	3			
Rescue Triangle harness	unit	2			
Generator set 2.2 KVA	unit	1			
Emergency Light	unit	10			
Kendrick Extrication Device	unit	2			
Spine Board	unit	3			
Head stabilizer	unit	3			
Scoop Stretcher	unit	2			
Basket Stretcher	unit	1			
Stair Chair	unit	2			
Helmet:					
Swift water/rappel helmet	unit	12			
Extrication/USAR helmet	unit	24			
LED head lamp	unit	12			
Extrication Gloves	unit	20			
Boots:					
Tactical Boots	unit	24			
Swift Water Booties	unit	24			
Personal Floatation Device:					
Type 5	unit	7			
Type 3	unit	56			
Type 1	unit	100			
Throw bag (30m)	unit	10			
Rescue tube	unit	2			
Rescue can	unit	2			
Floating Device:					
Orange Circular Buoy	unit	20			
Tire Interior	unit	10			
Wet suit pants	unit	7			
Rash Guard	unit	7			
Swim Fins	unit	4			
SCUBA set (masks, fins, BCD, O2 tank with regulator)	unit	5			
Wet suit-full body	unit	7			
Water safety Knives	unit	7			

Water Proof Powerbeam Light (Intova)	unit	2
Waterproof LED flashlight (Dorcy)	unit	3

4. HEALTH/MEDICAL SECTOR

RESOURCE INVENTORY					
Resources	Unit	Number	Location	Agency	Remarks
Doctors		21	Health Centers		
Dentist		23	Health Centers		
Nurses		70	Health Centers		
Midwives		46	Health Centers		
Nutritionist		4	Health Centers		
Med Techs		15	Laboratory		
Sanitation Inspectors		29	City Hall		
Other Staff		110	City Hall		
Closed Van		1	City Hall		
Utility Vehicle		1	City Hall		
Car		1	City Hall		
Motorbikes		3	City Hall		

5. ENGINEERING RECOVERY AND REHABILITATION SECTOR

RESOURCE INVENTORY					
Resources	Unit	Number	Location	Agency	Remarks
Task Force	persons	30+		Engr. Dept	
Isuzu Airlift	unit	2	City Hall	-do-	Operational
Komatsu Backhoe	unit	1	Motorpool		Operational
Loader	unit	1	Brgy. Don Bosco		Operational
Mini Dump Truck	unit	3	City Hall/		Operational
Dump truck	unit	1	Motorpool		Operational
Multi-Cab (SGU-496)	unit	1	City Hall		Operational
Menzi-Muck Spider (Mobile Walking Excavator)	unit	1	City Hall		Operational
Skidster	unit	1	City Hall		Good Condition
10-Wheeler Dump Truck	unit	3	City Hall		Good Condition

6. EVACUATION SECTOR

7. HUMAN RELIEF AND REHABILITATION SECTOR

RESOURCE INVENTORY					
<i>Resources</i>	<i>Unit</i>	<i>Number</i>	<i>Location</i>	<i>Agency</i>	<i>Remarks</i>
Service/Multicab	unit	1	City Hall	CSWDO	Functional
Pushcarts (big)	unit	2	City Hall	CSWDO	Functional
Casseroles (big)	unit	5	City Hall	CSWDO	As Needed
Manpower	persons	14	City Hall	CSWDO	As Needed
Heavy duty gas with gas tank	unit	1	City Hall	CSWDO	Ready as needed
Day Care Centers	unit	102	Barangays	LGU	Available
Manpower - Day Care Workers	persons	65	Barangays	LGU	City Gov't Funded
Manpower - Day Care Workers	persons	43	Barangays	LGU	Barangay Funded

8. COMMUNICATIONS SECTOR

RESOURCE INVENTORY					
<i>Resources</i>	<i>Unit</i>	<i>Number</i>	<i>Location</i>	<i>Agency</i>	<i>Remarks</i>
Handheld Radio	unit	32	per barangay	LGU	Operational
Nextel Radio	unit	2	City Fire Dept.	BFP	In working condition
Base Radio	unit	1	City Fire Dept.	BFP	In working condition
Desktop computer	unit	4	CIO Office	Pque LGU	for making IEC layouts
Laptop computer	unit	1	CIO Office	Pque LGU	for PP presentations
LCD projector	unit	1	CIO Office	Pque LGU	for PP presentations
video camera	unit	2	CIO Office	Pque LGU	for video documentation
Camera	unit	1	CIO Office	Pque LGU	for photo documentation
television set	unit	2	CIO Office	Pque LGU	for news monitoring
	unit	1	SOCO	LGU	
Motorola VHF	unit	1	SOCO	LGU	
Motorola UHF	unit	1	SOCO	LGU	
Fax Machine	unit	1	SOCO	LGU	
Telephone	unit	2	SOCO	LGU	

RESOURCE INVENTORY					
<i>Resources</i>	<i>Unit</i>	<i>Number</i>	<i>Location</i>	<i>Agency</i>	<i>Remarks</i>
Handheld Radio	unit	32	per barangay	LGU	Operational
Nextel Radio	unit	2	City Fire Dept.	BFP	In working condition
Base Radio	unit	1	City Fire Dept.	BFP	In working condition
Desktop computer	unit	4	CIO Office	Pque LGU	for making IEC layouts
Laptop computer	unit	1	CIO Office	Pque LGU	for PP presentations
LCD projector	unit	1	CIO Office	Pque LGU	for PP presentations
video camera	unit	2	CIO Office	Pque LGU	for video documentation
Camera	unit	1	CIO Office	Pque LGU	for photo documentation
television set	unit	2	CIO Office	Pque LGU	for news monitoring
	unit	1	SOCO	LGU	
Motorola VHF	unit	1	SOCO	LGU	
Motorola UHF	unit	1	SOCO	LGU	
Fax Machine	unit	1	SOCO	LGU	
Telephone	unit	2	SOCO	LGU	

PAGE 2		General Information						
#	Evacuation Center Name (Address)	Area	Relief and Distribution Staff	Medical Staff	Doctors	Nurses	Rescue Personnel	Security Staff
19	Perville Covered Court (207 Bagong Buhay St.)		Y	—	—	—	—	—
MARCELO GREEN								
20	Marcelo Green Vill. Covered Court (Marcelo Green Ave MGV)	400 pax	Y 10	Y	Y 1	Y 4	Y 30	Y
21	UPS-IV Covered Court (Waling2 St. UPS-IV		Y 10	Y	Y 1	Y 4	Y 30	Y
22	Severina Diamond Km.18 Covered Court	300 pax	Y 10	Y	Y 1	Y 4	Y 30	Y
MERVILLE								
23	Knights of Columbus Center (Madrid St., Merville Park)	50 fam	Y 10	Y	Y 1	Y 2	Y 3	Y
24	Barangay Merville Hall (Daly Rd. South Admiral Vill.)	100 fam	Y 20	Y	Y 2	Y 4	Y 6	Y
MOONWALK								
25	Barangay Hall (Armstrong Ave. cor Glenn St.)	500 sqm	Y 40	Y	Y on call	Y on call	Y	Y
26	San Agustin Elem. Sch. (San Agustin Village)	1000 sqm	Y 20	Y on call	Y on call	Y on call	Y	Y
27	Col. E. De Leon Elem. Sch. (Multinational Ave.)	700 sqm	Y 40	Y	Y on call	Y on call	Y	Y 5
28	Multinational Vill. Gym (Judea St. Multinational Vill)	700 sqm	Y 20	Y on call	Y on call	Y on call	Y 10	Y 5
29	ROMVI Gym (Glenn St. Phsse 2)	500 sqm	Y	Y on call	Y on call	Y on call	Y 20	Y 5
30	PHIRMA Gym (Armstrong Ave. Phase 4)	300 sqm	Y 15	Y on call	Y on call	Y on call	Y 10	Y 5
31	Scarlet Golezeum (E. Rodriguez Ave.)	400 sqm	Y 20	Y on call	Y on call	Y on call	Y 10	Y 5
SAN ANTONIO								
32	San Antonio Elem. Sch. (Sta. Lucia)	3000 pax	Y	Y	Y	Y	Y	Y
33	San Antonio Valley I Gym Sta. Lucia	1000 pax	Y	Y	Y	Y	Y	Y
34	Golozeums & Covered Courts (Various Areas)		Y	Y	Y	Y	Y	Y
35	Fourth Estate Elem. Sch. (Fame St.)	3000 pax	Y	Y	Y	Y	Y	Y
SAN DIONISIO								
36	San Dionisio Gym (P. Burgos St.)	300 fam	Y 5	Y	Y	Y	Y	Y

PAGE 3		General Information						
#	Evacuation Center Name (Address)	Area	Relief and Distribution Staff	Medical Staff	Doctors	Nurses	Rescue Personnel	Security Staff
SAN ISIDRO								
37	Knights of Columbus Hall (Mary Queen of Apostles Parish SAV-6)		Y	—	—	—	Y	—
38	Silverio Gym (Purok 4)		Y	—	—	—	Y	—
39	Knights of Columbus (SAV-6)		Y	—	—	—	Y	—
SAN MARTIN DE PORRES								
40	Dr. Arcadio Santos Nat'l HS (KM 15 East Service Rd.)	528 sqm	Y 5	Y 2	Y 1	Y 1	Y 2	Y 4
41	Brgy. Health Center/Birthing (KM 15 East Service Rd.)		Y	Y 14	Y 1	Y 2	Y 10	N
STO. NINO								
42	Sto. Nino Elem. Sch. Col. E. De Leon St. cor J. P. Rizal St.	200 sqm	Y 20	Y 12	Y 1	Y 1	Y 15	Y 5
SUN VALLEY								
43	Day Care Centers (4156 Sampaquita St.)		Y 80	Y	Y 2	Y 2	Y 39	Y 35
44	Golezeum (4156 Sampaquita St.)		Y 80	Y	Y 2	Y 2	Y 39	Y 35
45	HS Bldg (4156 Sampaquita St.)	1000 fam	Y 80	Y	Y 2	Y 2	Y 39	Y 35
TAMBO								
46	Tambo Elem. Sch. Main (Quirino Ave. Cor Mia Rd)	1500	Y 25	Y 10	Y 2	Y 4	Y 50	Y 20
VITALEZ								
47	Brgy. Gymnasium (Gena St. Airport Village)	100 fam	Y 20	Y 9	Y 1	Y 1	Y 8	Y 17
48	R.G.Gatchalian Elem. Sch. (Gat-Mendoza)	700 sqm	Y 10	N	N	N	Y	Y 4
49	Airport Village Park (Gena St. Airport Village)	1000 sqm	—	—	—	—	—	—