添付1 災害シナリオ

地震シナリオの19の項目

No.	項目
1	緊急対策本部
2	避難
3	救助と消火
4	治安維持とパニック
5	負傷者と医療
6	衛生
7	遺体処理
8	心のケア
9	防災教育
10	支援の受け入れ
11	食糧
12	飲料水
13	電力供給
14	ガス供給
15	通信
16	マスメディア、流言飛語
17	航空運輸
18	道路、橋梁
19	がれき処理

Table ***.1 Consequence scenario (1) Emergency management headquarters

	04.41	Table ***.1 Consequence scenario (1) Emergency management headquar		24.51
	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later 7 days later or more
The worst case	since it has been constructed in accordance with seismic design standards. CMC immediately clarifies the parameters of the earthquake. Communication is set up with the subdivisions of MES and the situation of their subdivision and the surrounding area is clarified. Prevision of the possible situation is carried out, based on the clarified situation. The Minister of ES is reported on the situation based on the clarifications of the initial situation and gives order to alarm the whole system of emergency situations and warn Shirak regional rescue department. Because it takes time for the collection and processing of the damage information, reporting of the damage situations to the Minister of ES has not been done. Some communication means (telephone, mobile communication, radio) do not function, because emergency power back-up systems are not installed. In addition, some communication devices are broken, because the devices are not properly fixed against earthquakes and turned over. Accordingly, communication is made with limited devices as well as messengers, resulting in delay of information exchange.	 in the surrounding area of the subdivision by the forces of territorial subdivisions of MES appeared in the epicenter zone according to the reconnaissance plans elaborated beforehand. in wide areas by air reconnaissance, according to the plan of interoperations with Ministry of Defense (MoD). Based on the preliminary analysis of the damage situations, the Minister of ES reports to the Prime Minister of RA, submits recommendations on putting the Republican plan into action totally or partially and organizes the warning of RA state governing bodies. Based on the report of the Minister of ES, the Prime Minister declares a state of emergency and the Emergency Management Headquarters (EMH) starts functioning in the national level. Shirak regional rescue department carries out the warning of the leading staff of Shirak region and sets up a permanent communication with EMH through CMC. The arrival of members/staffs to EMH is organized, but safety confirmation or arrival of some members/staffs of EMH is delayed, because communication with cellar phones is not available due to the congestion of the telephone network and no other way of communication have not been prepared beforehand. Accordingly, management process has not been discussed, and thereby, information collection, decision, and direction by EMH cannot be done immediately. Since there is no stockpile of drinking water, food, portable toilet, etc., manpower and time are spent for the procurement. 	disaster consequences is discussed by evaluating the results of the warning of RA state governing bodies. After the collection of the initial reconnaissance data, MES prepares the following drafts of the RA Government decisions and submits to the approval of the republican commission of emergency situations: 1. "Declaration of the disaster zone, definition of the borders of the disaster zone, the measures for reduction and liquidation of consequences of emergency situations"; 2. "Defining the order of organization and conduct of rescue and other urgent accident-recovery operations". Confusion occurs in management of rescue and assisting activities of responsible organizations, because the collection of the damage information is still not efficiently done and the direction does not accord with actual damage situations.	lot of time to settle problems and resident complaint about unbearable living conditions hospitals, evacuation areas, and damaged house Accordingly, important work, such as the formulation of rehabilitation/reconstruction guidelines and directions to related agencies for creating much safer Yerevan City again earthquakes, has not been proceeding well.
An improved case	The building of Crisis Management Center (CMC) is not seriously damaged, since it has been constructed in accordance with seismic design standards. CMC immediately clarifies the parameters of the earthquake. Communication is set up with the subdivisions of MES and the situation of their subdivision and the surrounding area is clarified. Prevision of the possible situation is carried out, based on the clarifications. The Minister of ES is reported on the situation based on the clarifications of the initial situation and gives order to alarm the whole system of emergency situations and warn Shirak regional rescue department. Although damage information is limited, damage situations are estimated based on the earthquake parameters, using damage estimation system. The Minister of ES reports the most possible estimated situations to the Prime Minister (PM) and submits recommendations on putting the Republican plan into action totally or partially and organizes the warning of RA state governing bodies. PM declares a state of emergency and the establishment of the Emergency Management Headquarters (EMH) in the national level. Each related organizations establishes an emergency cell as a focal point for communication with EMH and branches and departments under the organizations, according to BCP prepared beforehand. Shirak regional rescue department carries out the warning of the leading staff of Shirak region and sets up a permanent communication with EMH through CMC. The representatives of designated organizations and staffs of EMH are aware of the earthquake of MSK 6 or more, and immediately go to EMH on an autonomous basis as stipulated in the Plan. The safety confirmation of some representatives and staffs, who cannot attend, is made through dedicated wireless lines or priority lines of cellular phone companies which pre-agreement has been made with ARS. Communication means are secured for the operation of the headquarters, since emergency power back-up systems have been installed and, communication facilities	reconnaissance is mainly for saving life, and it proceeds smoothly, since mechanism to collect damage information from residents has been established beforehand. 1. in the surrounding area of the subdivision by the forces of territorial subdivisions of MES appeared in the epicenter zone according to the reconnaissance plans elaborated beforehand. 2. in wide areas by air reconnaissance, according to the plan of interoperations with Ministry of Defense (MoD). The management of the process of liquidation of disaster consequences is discussed by evaluating the results of the warning of RA state governing bodies. After the collection of the initial reconnaissance data, MES prepares the following drafts of the RA Government decisions and submits to the approval of the republican commission of emergency situations: 1. "Declaration of the disaster zone, definition of the borders of the disaster zone, the measures for reduction and liquidation of consequences of emergency situations"; 2. "Defining the order of organization and conduct of rescue and other urgent accident-recovery operations". EMH organizes search and rescue as a top priority, and organizes special reconnaissance for urgent accident-recovery operations etc. as well as international assistance. Since enough number of the stockpile of drinking water, food, portable toilets, etc., activities of EMH is not hampered.	EMH smoothly manages large-scale activities of search and rescue as well as urgent repairing and rehabilitation, in accordance with the manual on emergency response, which has been prepared beforehand. EMH organizes arrival and involvement of international assistance. Since staffs of the EMH exhaust with 24-hour operation, alternative staffs are dispatched from branches of MES. The dispatched staffs can	management plan, a special organization for rehabilitation and reconstruction is formulated and preparation of plan is commenced in accordance with actual damage situation. Settlement of emergency situation is declared, and particular responsibility and administrative power are dispersed to concerned organizations after the confirmation of the human and material resource as the process of dissolution of the emergence

	The manner of the attending the members and staffs of EMH should be	Each district should formulate an emergency management manual, including information	In the disaster management plan, the operation	A guideline for the formulation on organization
	stipulated in the Plan "all the members and staffs should be attend the	collection/reporting system from/to residents, and execute training or drill on the basis of the	manual of EMH should be prepared, which is	and plan for rehabilitation and reconstruction
	headquarters on an autonomous basis when they feel or know the occurrence	manual.	also useful for alternative staffs from other	should be prescribed in the disaster management
s	of an earthquake of MSK 6 or more".	Necessary items for collecting and reporting damage information should be fixed in the	offices.	plan in consideration of long-term strengthening of
l sar	CMC and MES should install emergency power back-up systems to the	Plan and distributed to responsible organizations, including district offices.		comprehensive disaster management capacity.
[ea	offices.	CMC and MES should stockpile drinking water, food, portable toilets, etc. for emergency		The tasks to be continued after dissolution of the
2	Communication and electric devices such as computers should be fixed	operation.		headquarters and the responsible organization
	properly against earthquakes in order to secure necessary function of the			of each task should be clarified in a guideline
	emergency management headquarters.			prepared beforehand.

Table ***.2 Consequence scenario (2) Evacuation and sheltering

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case		evacuation area has been designated.	Since many affected families rush to reception, the queues for registration get longer, and thereby, many families cannot move to the allocated shelters. Many families without damage to their houses move to shelters, because of no utilities such as electricity and water. Some of them cannot find accommodation space in the shelter areas and stay outside. Some damaged buildings collapsed due to aftershocks. Because of delay of emergency diagnosis on safety of buildings, residents of damaged houses are afraid of returning to their houses.	their houses, and areas of shelters in densely built-up areas are not sufficient for receiving all the affected. People are afraid of aftershocks and remain in their cars, kiosks, garages and other areas near to their houses using them as temporary shelters.	dwellings started, some evacuees complain of the distribution area of dwellings and the order of moving there.
An improved case	due to the implementation of strengthening of vulnerable buildings.	to other houses which is not damaged or slightly damaged. The meeting place in an emergency was decided beforehand in each family. Therefore the family members can immediately	Although number of evacuees are much more than that calculated or provided by donors, are immediately done by responsible volunted. Since the residents are informed about the registration procedure at the shelter areas with their family having the minimum and vital confidence system for training and registration of architects or engineer established, the quick diagnosis of damaged buildings is carried out. The affected can decide themselves whether they can stay in their length of evaluation a separate decision is made in each case.	eers. and functions of the shelters, the affected can move to mmodities. are for quick diagnosis on safety of buildings has been promptly.	The movement of the affected from shelters to temporary dwellings is managed well according to the disaster management plan. Works are carried out till the last affected is taken to the dwelling area and consequently the situation is under control.
Measures	from seismic resistance point of view and	dissemination and education.	Materials and equipment for establishment of shelter areas should be clarified beforehand. Open spaces or empty land should be sec used as tent towns in case of need. All the residents should be informed on the registration probeforehand. Qualification and enforcement of volunteers should be done establishment of shelter areas. Ministry of Urban Development should define the methodolog buildings. The Architect and Urban Development Department of authorization, and registration for the diagnosis to be done by expenses.	ured in/around shelter areas so that the areas can be rocedure and locations/functions of shelter areas through training and emergency drill, including ty and procedure of quick diagnosis of damaged of Yerevan City should establish system for training,	

Table ***.3 Consequence scenario (3) Rescue and firefighting

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Since companies which use products causing fire have prepared fire extinguishing equipment and trained the staffs for fire extinguishing, it was possible to prevent fire spread with initial fire extinguishing. Fire breakout occurs at about 1,500 places in Yerevan City, because some residents evacuate without turning off the stoves etc. The fire spreads, because initial fire extinguishing equipment was not arranged in ordinary houses and residents have not been trained for initial firefighting. About 20% of staffs of firefighting teams and rescue forces of RS gather in their offices within one hour as prescribed in the disaster risk management plan.	activities are not so efficient, because fire breakout occurs at many places and access to the fire points is blocked with debris due to collapsed buildings. RS staffs are dispatched to clarify the situations of the fire breakout and confined persons in collapsed buildings, but it takes long time for collecting the information on fire, because the procedure of collecting information from residents was not clearly defined beforehand.	activities are not smoothly progressing equipment, etc. and delay of arranging and Although overseas supporting teams arriv well organized nor efficient, because the area, and orientation on task sharing has no In addition to spreading fire at the area	g, because of the lack of manpower, heavy dispatching the additional ones. The in Yerevan City, the rescue activity is neither procedure of reception, dispatching to affected ot been properly done. Its where initial firefighting failed, another fire due to short circuit and heating of electric	achievement, and leaves from Yerevan. Although several problems are pointed out, the problems are not summarized for improvement in the future.
An improved case	Since companies which use products causing fire have prepared fire extinguishing equipment and trained the staffs for fire extinguishing, it was possible to avoid fire spread with initial fire extinguishing. Fire breakout occurs at some places, although many residents have closes gas valves before evacuation. The fire was extinguished by the residents and neighbors, led by local leaders who were trained for initial fire extinguishing. Since criteria for gathering, shown in BCP, is known by staffs of firefighting teams and rescue forces of RS, about 40% of the staff gathers their offices within one hour.	where access is not blocked with debris. At isolated areas due to road blockage, residents start fire extinguishing, but some areas are still burning. Collection of damage information such as fire breakout and confined persons in collapsed buildings by RS staffs is progressing well with assistance of residents, and rescue teams are dispatched, based on the collected information.	progress of road clearing, and accordingly Yerevan City. Based on damage information collected a conduct rescue and relief activities in cool and other countries within the framework management plan. Fire breakout does not occur at the time of have known about the possibility of the factories.	of restoration of power supply, because residents fire breakout due to power restoration, and had	results by RS rescue teams. The details of the operation is summarized, evaluated, recorded, and announced officially to the public. Defects of the activities are utilized for improvement of future activity in a revised plan. Collaboration with international rescue teams has been done smoothly. Using this opportunity, official
Measures	Criteria of gathering should be stipulated in BCP, which is a part of the disaster management plan and all the staffs must understand the criteria shown. The necessity of immediate fire extinction at the time of earthquake and the procedure of initial fire extinguishing at the time of fire breakout should be well understood by all residents through education and training on disaster management, including initial firefighting by residents.	Procedure and system for arranging and managing damage information should be established beforehand in order to unite the information collected by RS staffs and residents. Promoting the storing and maintenance of tools for emergency rescue activities by residents' groups as well as training for the use of the tools on emergency response.	dispatched from Marzes and foreign comprehate a detailed action plan, based on the dispatched teams, collaboration among collaboration with related organizations (Marzes of the dispatched teams, collaboration among collaboration with related organizations (Marzes of the dispatched	the possibility of fire breakout at the time of and necessary action at the time of eyacuation, osing the gas should be understood by residents.	An evaluation report of the rescue activity, including recommendation for future improvement, should be prepared and open to the public for betterment, considering residents opinion. Seizing this opportunity, it is recommendable to make agreement with international agencies for further cooperation.

Table ***.4 Consequence scenario (4) Public security and panic (RS, Police under the Government of RA, information institutions)

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days	7 days later or more
	some facilities/objects of Police are damaged and, consequently, the functions of police decreased. A lot of manpower is used to take care of the injured and repair the buildings and objects. Though the back-up system for electricity supply in disasters is installed the communication means and electric devices, such as computers, are not properly fixed to work in case of earthquakes. Consequently the information necessary for command is destroyed, and communication is	Though the police establish control-checking points on personnel and traffic into/from the disaster zone for assistance/evacuation, the operation is not smoothly done, because it is done by only the existing forces due to delay of dispatching additional forces. The advance of the means and forces carrying out rescue and urgent accident-recovery operations to the earthquake zone is secured but delayed, whereas the advance of transportation means and people having nothing to do with those operations is prohibited. Although operations of public security provision, including patrol service, are being implemented in the earthquake zone aimed at prevention of panic, dissemination of false and intentional news as well as conduct of measures for hampering possible mass disorders, there is difficulty in smooth operation due to the lack of communication means. The relevant section of MES establishes a mobile information center in the disaster zone (where the telephone communication, electricity supply have failed) organizing press conferences with the journalists in the disaster zone on	operations. The clarification of available quantity and the location of transport means and engineering technique not affected by the earthquake are delayed, because the procedure and focal point of the clarification has not been clearly stipulated beforehand. There is confusion in rescue and assisting activities of responsible organizations, since the collection of information on the damage is irregular and instructions do not correspond to the real situation of damage. The residents are also in confusion because their requirements are not properly conveyed to the RA Government and the announcements of the RA Government are not properly conveyed to the residents. Activities are carried out aimed at keeping public order in evacuation gathering points and in the places for placing the evacuated population. Robbery/thief of food/ valuables/money occurs in some areas while the security persons and lightening at night are not enough, and the robbery/thief is spreading over. Some residents, who are not informed of prohibited matters in an emergency, are confined by security forces due to insufficient dissemination of the prohibited matters. The robbery and kidnapping takes place in the areas where the security forces are sparsely deployed. The maintenance of public order on transport highways as well as the protection of the remaining property in the	of road traffic order, carries evacuated population eva Much time is complaints of conditions for places and dam continue. Groups of pecwith government the emergency or non-peaceab	and maintenance of public out registration of the ulation in the near-city area checking during the cuation. It is spent on satisfying the the residents on unbearable living in the evacuation naged houses, and disorders ople who are not satisfied ent's response to liquidate situations raise disturbing
 mproved case	limited because they have been reinforced against earthquakes. An emergency power back-up system is installed, and electric devices such as computers and communication facilities have been fixed against earthquakes. Accordingly, neither data destruction in computers nor disconnection of communication has occurred. For securing the security of important establishments and hubs, police headquarters	Activities for public security are reinforced with smooth reorganization and	The Police of RA starts cooperation with the MES of RA, military command on the issues of organization of rescue operations. The quantity and the location of transport means and engineering technique not affected by the earthquake are clarified by the police and they organize their involvement in rescue operations, according to the plan prepared beforehand. There is no confusion in rescue and assisting activities of responsible organizations, since the collection of information on the damage is smoothly done in accordance with the plan prepared beforehand. Activities are carried out aimed at keeping public order in evacuation gathering points and in the places for placing the evacuated population. Robbery/thief of food/valuables/money is prevented with immediate deployment of security force in accordance with prescribed plan, and sufficient lightening at night. Unnecessary confinement is avoided because the public is well informed on the prohibited matters in an emergency beforehand. Neighborhood watch groups assembled with residents are carrying out night watch in corporation with police and army forces for securing security. The maintenance of public order on transport highways as well as the protection of the remaining property in the evacuated settlements and facilities is strengthened in the disaster zone. The police carry out registration of population losses, address checking and participate in the works of funeral committee of the victims, since assistant staffs are dispatched from other region, in accordance with the plan prepared	the details and activity on eme security and d attempts are preresidents.	always well informed about necessity of government's ergency response and public isturbing and un-peaceable evented in cooperation with
 Measures	Important buildings and facilities for the command and activities for public security should be reinforced against earthquakes. Together with emergency power back-up systems and water supply systems, other measures against earthquakes such as fixing electric and communication devices should be taken.	An operation plan for public security should be prepared in advance, based on the assumed worst scenario, and training on the emergency operation should be done, according to the prepared operation plan.	Police, in cooperation with related agencies such as Ministry of Urban Development, should store sufficient number of mobile lightening facilities for its prompt installation for public security. Police should notify clearly of the prohibited matters to the public, using notice boards, wide speakers, and media, and conduct for public security activity in wide areas, including surroundings of damaged areas. For the increase of public security at the time of large-scale disasters, the procedure for establishing neighborhood watch groups and official support to the activities should be prescribed for fill a gap in required number of security officers.	informed on de activity on eme	uld always be well etails and necessity of ergency response and public ll cooperation with

Table ***.5 Consequence scenario (5) Injured and the medical aid (RS, Ministry of Healthcare)

Table ***.5 Consequence scenario (5) Injured and the medical aid (RS, Ministry of Healthcare)							
	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more		
The worst case	About twenty thousand (200,000) people are injured such as traumatic injuries, bone fractures, damage to internal organs, mainly due to collapse of buildings and turn-down of furniture. Out of 66 major medical facilities (42 hospitals and 24 polyclinics) in Yerevan City, buildings of 29 facilities are moderately to seriously damaged. Many of buildings of 23 mono-clinics included in civil defense medical facilities are also seriously damaged, because of no reinforcement of buildings against an earthquake. Water and power supply to the 89 medical facilities are stopped, because the supply networks of water and electric are damaged. Since water tanks and generators for the emergency supply have not been installed to the medical facilities. Medical instruments and medical supplies are turned down and broken with earthquake shaking due to improper fixing. Consequently, most of medical facilities lose their function of medical services, particularly treatment of seriously injured. The injured people are left outside the damaged buildings of medical facilities, and only first aid is provided to the injured. RS and Ministry of Healthcare is collecting information on damage situations of the medical facilities, based on the list prepared beforehand. The information collection is facing difficulty, since only fixed phone numbers are available on the list.	Restart of medical services in many medical facilities is delayed because of slow progress of urgent building diagnosis for confirming the safety of the buildings. Although medical services are restarted in un-damaged medical facilities as it has been trained according to manual for emergency medical care, number of available medical teams is limited; about half of 300 urgent pre-medical teams and 200 urgent medical teams. In addition, many slightly injured persons rush to the hospitals, and accordingly, the medical services for seriously injured persons in the hospitals are hampered. Ministry of Healthcare starts establishing emergency field medical facilities with tents in cooperation with RS and Ministry of Defense. Since the locations of the facilities have not been informed to residents properly, all injured people, including slightly injured, are transferred to hospitals. Although first aid kits are stored in each district office, usage of the kits has not been informed to residents, and many of injured rush to the hospitals. Consequently, hospitals are in confusion and many injured people remain un-treated for a long time.	are done in open spaces Medical services are no because of shortage of t instruments, and medic Medical teams dispatch start services with urger Yerevan. However, m supplies from foreign c efficiently, because pro their reception and coll-	bout stability of cilities, medical services soutside the buildings. of efficiently provided, tents, medical al supplies. ned from other Marzes nt medical teams of nedical teams and countries do not operate cedures and system for aboration with Armenian l-established beforehand	Some of medical supplies and instruments are out of stock, and much time is spent for collecting the supplies and instruments. The shortage of medical supplies causes insufficient medical services, and accordingly the condition of some patients are getting worse. Ingredients of some of medicians provided by foreign countries are not meet with Armenian standard, the medicians are kept in storage, and expiration date are over.		
Relatively moderate case	Number of injured people is reduced to be about half, because buildings have been strengthened and furniture in houses has been fixed. Number of moderately to seriously damages to buildings of 66 major medical facilities are reduced to be about half, because the buildings have been reinforced against earthquakes. Some of buildings of 23 mono-clinics are seriously damaged. Although supply networks of water and electricity are damaged, water and electricity for medical treatment are secured, because water tanks and generators for emergency supply have been installed to the medical facilities. Medical instruments and medical supplies are fixed against earthquakes, and there is no serious damage to the instrument and supplies. Operation in mono-clinics such as quick treatment of slightly injured persons and transportation of seriously injured persons to major medical facilities is smoothly done, because tasks shearing and collaboration has been determined beforehand between the mono-clinics and major medical facilities. Medical treatment is provided to injured people in the hospitals which buildings are not damaged. At the medical facilities of damaged buildings, first aid is provided, and seriously injured people are transferred to other medical facilities for further treatment. RS and Ministry of Healthcare is collecting information on damage situations of the medical facilities, based on the list prepared beforehand. The information collection is proceeding smoothly, since alternative way of communication are available on the list.	Medical services in most of hospitals is available. Medical services in damaged medical facilities restarts, after urgent building diagnosis for confirming safety that is done in accordance with the procedure stipulated in the disaster management plan. Most of 200 urgent medical teams are operative, mainly in hospitals, and provide medical treatment for seriously injured people, after triage. Some of the seriously injured people are treated in emergency field medical facilities, which are established by Ministry of Healthcare in cooperation with RS and Ministry of Defense at designated areas in a disaster management plan beforehand. Most of 300 urgent pre-medical teams are also operative in medical facilities or outside the facilities, and provide medical treatment mainly for slightly injured people. Seriously injured people brought to the pre-medical teams are transported to major medical facilities after preliminary treatment. The transport of seriously injured are systematically done, based on information on the capacity of treatment in the major medical facilities as well as number of seriously injured people, managed by Ministry of Healthcare and RS. Some of slightly injured people are treated at each family, because first-aid-kits are kept in each house or provided by a district office. Training of emergency medical care has been done by a district office and RS for each family. Consequently, time for treatment of slightly injured people is shortened, resulting in alleviation of crowdedness in medical facilities.	teams of Yerevan. Re medical teams from our Ministry of Healthcare prescribed procedure in	ilities are smoothly re stored in major reserve agency, and arzes and foreign nagement, Ministry of ize the database which surgent medical teams, ries, etc. red from other Marzes rices with urgent medical ception and allocation of tside are managed by and RS, according to the red a disaster management red in a disaster management red in a disaster of medical	Medical supplies and instruments are provided smoothly to medical facilities, utilizing database managed by Ministry of Healthcare, in close communication with medical facilities. Although some of stored medical supplies are consumed, necessary medical supplies are provided from foreign countries, based on the request of Ministry of Healthcare through Ministry of Foreign Affairs. The condition of patients is getting better, and medical care system is shifted from emergency to ordinary system. Pre-agreement has been made on medical assistance with other countries and donors. Since Armenian standard on the ingredients of medicines has been mentioned in the agreement, there is no confusion on the quality on medicines provided from foreign countries.		
Measures	Measures for strengthening buildings of medical facilities should be taken with high priority. Water tanks and generators should be installed to medical facilities as emergency back-up of the water and electricity supply. Medical instruments and medical supplies in medical facilities should be fixed against earthquakes. Task sharing and collaboration mechanism should be determined beforehand between major medical facilities and mono-clinics, and the mechanism should be described in a disaster management plan. For collection of information such as damage to medical facilities, capacity of acceptance of the injured, the procedure of the information collection and database of major medical facilities, including a communication chart, should be prepared beforehand.	The criteria and procedure of urgent diagnosis for the buildings of medical facilities should be standardized before hand, and training and qualification for architects for the diagnosis should be promoted. Communication network among major medical facilities and mono-clinic should be maintained for efficient treatment of the injured. Storing a first-aid kit in each house and district office should be promoted, and training for the proper use of the kit should be done. The locations of emergency field medical facilities, which are determined in the disaster management plan, should be informed to residents beforehand, in order to avoid confusion of major hospitals with teeming injured persons.	The database of major which include the capace medical instruments, stretc., should be prerare beforehand by each far Healthcare, and updated emergency respose. Prodedure of reception medical assistace team be prescribed in a disarrangement.	city of beds, available ored medical supplies, ed and shared cilities and Menistry of d in the course of n and allocation of the form outside should	The database of major medical facilities should be updated and utilized for the provision of necessary medical supplies. Pre-agreement for medical assistance should be made with other countries and donors. The agreement include required standard on quality of medical supplies.		

Table **.6 Consequence scenario (6) Sanitation

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Concerning sewerage network, 714 points of waste water pipes of about 865 km, and 95 points of rain water pipes of about 182 km are damaged. Other sewerage facilities, such as "Aeracia" treatment plant and pumping stations are also damaged and do not function due to electric outage. Failure of water supply system also causes further difficulty in maintaining sanitary circumstances. Most of the members of utility technical service of the Committee for Emergency Situations (CES) of Yerevan do not gather for the management of the emergency situations, since rule of initial response of the members has not been determined in a disaster management plan. Toilets are damaged due to damage to buildings. At Yerevan Djuris assembling the members of emergency response group for damage reconnaissance and other initial response works, but only a few members gather, since there is no definite rule on gathering in emergency.	Human waste litters in many places, since few people pay attention to keep sanitation condition. Although damage reconnaissance by the teams of Yerevan Djur proceeds, the damage information is not transfered to the utility technical service of the CES of Yerevan City, because communication flow between Yerevan Djur and the Committee has not been determined beforehand in a disaster management plan, and thereby, arrangement and direction for efficient repair works are not proceeded smoothly.	Food is decayed, water purification system does not function, sewerage treatment plants do not function, garbage accumulates, human waste is littered, and accordingly, sanitation condition is getting worse. Few measures are taken to improve the above conditions, since necessary measures and responsible organizations for each measure have not been determined in a disaster management plan. Because toilets are limited in number, the aged and women intend to drink little water, and some of them are affected with dehydration. Repairing works of sewerage are commenced. The works are not progressing well, because of the lack of manpower, materials, parts, and equipment for the repair works. Although dispatch of repairing teams from Marzes is desired, the organization and deployment of the teams is delayed, since prior agreement for the dispatch has not been made.	Due to bad sanitary conditions, many evacuees, especially infants and elders are affected with diarrhea and infection diseases. Many people wait for vaccination at medical facilities, because number of stored vaccines is limited. Repairing works are carried out 24 hours with triple shifts by 15 teams. As of 7 days later, 60 points out of 800 damaged points of sewerage network have been repaired (progress is 7.5%).	Bad sanitation conditions is still not improved in some areas, since staffs for sanitation are busy for taking measures to halt spreading of diseases, and do not have time for prevention. Due to the lack of parts and materials for repairing of sewerage facilities, the progress of the repairing works is about 30 % as of one month later.
Relatively moderate case	Reinforcement of sewerage pipelines, especially replacement of vulnerable ceramic pipes with reinforced concrete pipes, contributes to reduction of damages to sewerage network, about 1/5 of the worst case. Reinforcement of sewerage facilities also contributes to reduction of the damages. There is less failure of water supply system due to reinforcement of the water supply facilities. Number of damaged toilets is reduced, because measures for reinforcing buildings have been taken. The members of utility technical service of the CES gather autonomously for the management of the emergency situations, since rule of initial response of the members has been determined in a disaster management plan. At Yerevan Djur, assembling of members of emergency response group and damage reconnaissance teams starts, most of all members are going to their head office, since rule on gathering in emergency has been shown in BCP of Yerevan Djur.	Evacuees prevent scattering of human waste by means of making tentative toilet with digging ground together with family members or community members. Damage reconnaissance by the teams of Yerevan Djur proceeds and the damage information is transferred to the utility technical service of the CES of Yerevan City, in accordance with the prescribed procedure in a disaster management plan. Based on the damage information, the utility service of CES instructs Yerevan Djur to carry out efficient repairing works. The utility technical service informs of the reconnaissance damage situations to CMC for efficient delivery of sanitation measures such as stored portable toilets, vaccines, and disinfectants. Yerevan Djur calculates necessary spare parts for the repairing works for import of the parts.	Measures on sanitation, such as the treatment of decayed food, water purification, sewerage treatment, garbage collection, and human waste treatment, have been taken by responsible organizations, according to the outline of measures mentioned in a disaster management plan. In order to prevent spread of diarrhea and infection diseases, sanitation measures to be taken by residents are disseminated, together with distribution of sanitary materials such as portable toilets and disinfectants. Vaccines are distributed to medical facilities for timely vaccination. At the areas where number of portable toilets is not sufficient, trench type temporary toilets are installed. Repairing works of sewerage commences. Although the procurement of some parts takes time, the repairing works proceed well, because the manpower, materials, stored parts, and equipment for the repair works have been arranged, according to a disaster management plan. The repairing teams from Marzes are organized and deployed, according to the prior agreement other operating companies of sewerage in other Marzes.	Diarrhea and infection diseases are prevented, since sanitation measures to be taken by residents are disseminated, together with distribution of sanitary materials such as portable toilets and disinfectants. Vaccines are distributed to medical facilities for timely vaccination. Temporary shower facilities are installed to tentative evacuation areas. Repairing works are carried out 24 hours with triple shifts by 40 teams. As of 7 days later, 200 points out of 800 damaged points of sewerage network have been repaired (the progress is 25%).	Ministry of Healthcare monitors and manages proper preventive measures on sanitation. Since the preventive measures such as vaccination and disinfection are carried out smoothly in collaboration with residents, there is no outbreak of epidemics. Before stored parts and materials are consumed, necessary ones have been imported, and thereby, repairing works progress well (the progress is about 90% as of one month later).
Measures	Ministry of Territorial Administration, Yerevan City, and Yerevan Djur should proceed with the reinforcement of sewerage facilities against earthquakes. Especially, replacement of old ceramic pipes should be promoted. Generators for back-up power supply should be installed to treatment plants in order to maintain the function during electric outage. Rule for initial response in emergency, such as autonomous gathering of staffs of concerned organizations, should be stipulated in a disaster management plan.	A manual on sanitation in an emergency should be prepared beforehand such as the manner of the installation of dug toilets for family and community, and conduct training with residents, using the manual. Portable toilets should be stored, based on the damage estimation result. Communication flow and form for reporting damage situations to responsible organizations on sewerage should be prescribed in a disaster management plan.	The outline of necessary measures on sanitation and the responsible organization of each measure should be determined beforehand in a disaster management plan. The guideline for the storage and distribution of portable toilets as well as the installation of temporary trench type toilets, should be prepared beforehand in a disaster management plan.	Sanitation measures to be taken by residents should be listed beforehand in a disaster management plan, and necessary materials and equipment for the measures should be stored for smooth implementation of the measures in collaboration with residents.	Ministry of Healthcare should monitor sanitation condition, and take necessary preventive measures accordingly.

Table ***.7 Consequence scenario (7) Treatment of dead bodies

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Around hundred thousand (100,000) people are dead, due to mainly with collapse of buildings.	Before dispatching rescue forces, residents search neighbors remaining buried under collapsed buildings. Residents find dead bodies and transfer then to medical facilities. The space of dead bodies in the hospitals is limited, and some hundred of bodies occupies wide space in the medical facilities.	Rescue activity proceeds by official agencies, and many bodies are found. Although bodies are transported to mortuaries where funeral services determine, autopsy is not progressing well, because of the lack of number of medical coroners, and thereby, bodies are piled up at the mortuaries.	Bodies at mortuaries are getting rotten, and people are afraid of epidemic and send the bodies to burial places without body identification.	Because many bodies were buried without identification, there are many missing persons whose life or death is unknown, and thereby, complaint and confusion arise from families of mission persons.
Relatively moderate case	Due to reinforcement and reconstruction of buildings against earthquakes, such as retrofitting and rebuilding, number of collapsed buildings is reduced and number of deceased persons is reduced accordingly.	The unit of special service of Committee of Emergency Situations of Yerevan (CES), in cooperation with Ministry Healthcare and Ministry of Justice, starts establishing space for dead bodies in or around medical facilities. The bodies are laid out in the space, and autopsy is started after medical coroners arrive.	Bodies are transported to mortuaries, and autopsy continues, according to the procedure determined beforehand in a disaster management plan. After the body identification, bodies are arranged for identification, and identified bodies are received by the families.	Unknown bodies are getting rotten, and the bodies are buried at pre-determined places after the registration of things (such as photos, ID card, fingerprint, tooth profile, hair for DNA identification, etc.) for identification afterward as prescribed in a disaster management plan.	Memorial service is held for all fatalities, organized the unit of special service of CES. Death confirmation is done, based on registered left things, compensation to the family was made in accordance with prescribed criteria in a disasster management plan, and thereby, little complaint or confusion arise from the families.
Measures	Reinforcement and reconstruction of buildings in accordance with building code should be promoted.	The locations of space for dead bodies should be determined beforehand in the disaster management plan, and inform to residents, in order to proceed with the autopsy of bodies without confusion.	The unit of special service of CES should <u>prepare disaster</u> management plan on procedure of autopsy at the time of <u>emergency</u> in cooperation with concerned organizations such as Ministry of Healthcare, Ministry of Justice, RS, and Police. The unit of special service of CES should <u>conduct training</u> , <u>based on the plan</u> , for proper application in an emergency.	The unit of special service of CES should prepare the disaster management plan, defining the burial places, the procedure and manner for burial, and the plan for transportation of bodies in cooperation with motor transport services.	The system and procedure of compensation should be prepared and well informed to the public in order to avoid complaint and confusion of the residents.

Table ***.8 Consequence Scenario (8) Psychological Care (Ministry of Healthcare)

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Residents get panic and cannot accept the real situations, because of violent earthquake which never been experienced (such as collapse of buildings and furniture, evacuation from debris, and separation from family). Many residents run out of the houses in panic, and some of them gather just nearby the entrance of the buildings, although the places are dangerous.	Following to the recognizing the actual situations (such as losses of their partners and children), the residents deeply feel loneliness and fear. The loneliness and fear are increasing, because of the lack of information such as missing people, disaster situations, provision of water/food, etc. Since there specialists for psychological care, the mental trauma of residents is getting serious.	Feeling of fear increases with every aftershock, residents cannot sleep well, and the symptom is worsened. Many residents rescued from debris are affected with crush syndrome. Evacuees staying in a car are affected with economy-class syndrome. The symptom is getting worsened due to lack of specialists able to care of the syndrome.	In addition to psychological trauma sleeplessness and tireness occur among residents, and the stress is transformed into neurosis. Some staffs for emergency response are working without sleep and get more tired, resulting in death by overwork.	Due to weary soul in evacuation life and fear for instable future life, some residents commit suicide. Victims who cannot rescue their family suffer from continuous neurosis. Some staffs of emergency services suffer from PTSD (posttraumatic stress disorder).
Relatively moderate case	Although residents feel loneliness and fear, they calm down somewhat, since they have been trained what happens at the time of severe earthquakes. Therefore, the residents can consider what should do and response properly.	Together with emergency medical treatment at the evacuation areas, specialists for psychological care are dispatched for initial care. Information is transferred properly, and the residents somewhat feel safe about their future situations.	With the initiative of Ministry of Healthcare, consultation centers are installed into evacuation areas and medical facilities for psychological care of residents. Ministry of Healthcare also install hotline for Psychological care.	Psychological care is provided for staffs for emergency response as well as residents, so that psychological stress can be released.	Based on the list of residents and staffs of emergency services, long-term psychological care is provided, and suicide, neurotics, and PTSD staffs are avoided.
Measures	Disaster educaation and training should be promoted, so that residents can behave in proper manner at the time of severe earthqaukes.	Organization or association for emergency psychological care should be established and the organization should train psychologists for psychological care in emergency situation.	Ministry of Healthcare should <u>formulate a plan for</u> <u>emergency psychological care</u> in a disaster management plan. In the plan, establishment of psychological care points and hotline should be included. It is necessary to have psychologists in the Crisis Management Center, in order to manage psychological issues.	Ministry of Healthcare should <u>conduct</u> <u>psychological care for staffs</u> being in charge of emergency response as well as residents.	Ministry of Healthcare should <u>prepare the list</u> of residents/staffs in order to conduct psychological care, especially for children who lost their parents.

Table ***.9 Consequence scenario (9) Disaster education (MES of RA, Ministry of Education and Science of RA, Yerevan municipality)

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
e worst case	Almost % of school buildings were destroyed (84 schools were destroyed during Spitak earthquake) or seriously damaged. The reasons are the following: - The low level of seismic stability of buildings, - The mistakes made during the design stage of buildings, - The low quality of construction etc. The big number of dead is also conditioned by the lack of security culture among school staff and pupils, i.e. lack of the knowledge about earthquakes and other disasters, rules of behavior during disasters and perception of skills.	The schools slightly damaged as a result of the used as temporary sites of evacuation but they envisaged for the areas and temporary shelte evacuation sites, since the schools may not b quantity of water, food, medicament and logistical	earthquake and their yards are may not meet the requirements rrs, which are supposed to be e provided with the necessary	The plan of recovery works of school buildings cannot be worked out without the technical diagnostics of school buildings. For the affected due to the earthquake it is important to use the schools as evacuation areas and provide them with eater and food for a long time.	In some administrative districts school lessons are conducted in barracks or tents. Because the quantity of teachers is not enough, they are replaced by volunteers who are unable to organize the learning process properly. There is a shortage of handbooks and other learning materials.
An improved case	The number of destroyed buildings will considerably decrease in case of enhancement of seismic stability of school buildings and compliance with the existing building standards and rules. The number of the dead among school staff and pupils will also reduce taking into account the training of school directors, deputy directors, teachers including teachers of military science on "the main issues of emergency situations and civil defence" carried out by Crisis Management State Academy by the RA Government decision N134 of 2003 and a similar course conducted in schools, specialized colleges and higher educational institutions by the RA Government decision N320 of 1996. Within the 3 rd priority of Hugo activities program, which emphasizes "the use of knowledge, innovations and education in all the levels for developing security and disaster resisting culture", a number of methodical, educational, deductive and other materials on the topics of disaster risk reduction are published within 2005-2015 "UN Decade of Education for Sustainable Development" Project Armenia-Estonia-Sweden trilateral cooperation and other international projects (UNICEF, UNDP, Armenian Red Cross Society) and are recommended by the RA Ministry of Education and Science for application. 3 days retraining courses of deputy directors and teachers are conducted for many regions of RA on the topics of disaster risk reduction (DRR) with the help of UNICEF both in the Crisis Management State Academy and on sites (regional administration). During the retraining it was recommended to use modern interactive methods in teaching. DRR teams are created in schools, competitions disputes, quizzes and other events at schools. Plans of preparedness of families towards disasters/ earthquakes as well as evaluation sheets of schools and communities are developed. Education in DRR field is aimed at learning the rules of behavior in case of earthquake and other disasters, DRR thinking and development of a safe community as well as formation and development of ski	In the yards of some schools it is envisaged to deploy temporary evacuation areas for the people who are homeless since necessary reserves of water, food, medicaments and logistical means are created in those schools. The teachers and pupils of those schools who were not affected as a result of earthquake can assist the people and particularly children located in the school in different ways.		In more affected administrative regions the lessons are conducted in temporary classrooms. Special programs are included into the school educational plan aimed at learning of rules of behavior during earthquakes and other disasters as well as development of skills and abilities.	In more affected administrative regions the lessons are conducted in temporary classrooms. Special programs are included into the school educational plan, such as provision of vital activity in the evacuation places and generalization of the obtained experience for reducing the losses in similar situations in future.
Measures	NSSP of MES of RA must carry out technical diagnosis of the level of seismic stability of all the schools of Yerevan city by the order of the education department of Yerevan municipality. Based on the results obtained the buildings needing retrofitting should be retrofitted. DRR education should be included in school educational programs by all means as a separate educational field and must be delivered by a separate discipline. RA Ministries of Education and Science and Emergency Situations as well as Crisis Management State Academy declared a competition of "Development of plan of preparedness of schools towards disasters" and all the RA schools can participate in that competition /UNICEF/. Applications are accepted till 21 November of 2011. The development of plans will contribute to the enhancement of the level of culture of the school staff an pupils in the field of security provision as well as development of rules of safe behavior, skills and abilities.	RS should inform the heads of schools which schools are going to serve as temporary evacuation places in case of emergency situations and that should be mentioned in the plan of actions of emergency situations of the school. The education department of Yerevan municipality should work out a plan of response of teachers and employees to emergency situations and establishment of necessary reserves of water, food, medicament and logistical means. The citizens, condominiums should be informed about these reserves.	Yerevan municipality should work out a guideline of urgent technical diagnosis and	The education department of Yerevan municipality should work out a plan and order of urgent repair of schools together with relevant structures.	response to similar situations and resistance to the earthquake

Table ***.10 Consequence scenario (10) Acceptance of Assistance

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	acceptance of domestic assistance from the RA regions, 2) acceptance of assistance from abroad, and 3) acceptance of volunteers' assistance. They, in their turn, consist of 2 parts: reception of rescue forces and acceptance of material means. The procedures of the acceptance are stipulated in The	the staffs, and materials of the reception points, and thereby, the establishment has not been completed, because an emergency response plan, stipulating the details has not been prepared beforehand. The arrangement of the first echelon of assistant troops of RA regional assistance also starts, according to the declaration. Although the arrangement has been completed in accordance with existing population protection plans of Marzes, the deployment is delayed, since some of reception points have not been established yet. The deployment of tent town by Gegharqunik and Vayots Dzor regions of RA is carried out in the surrounding territories of Yerevan city decided beforehand. The arrangement of the second echelon is on-going. Most of people in the peripheral areas, who are not damaged and do not have relatives in the affected area, do not intend to participate assistance activities, because they are neither informed nor educated about necessity and importance of volunteers' support. Although a small number of volunteers gather around the affected areas, there is no official guidance/support to establish of reception of volunteers, and accordingly, the volunteers' activities are not organized and inefficient	established and many assistance troops have arrived at the reception points, allocation of the assistance troops and means is in confusion in some reception points, because of mismatch between needs from affected areas and provided assistance. Due to the delay of repairing of Zvartnots International Airport, international assistance is landed at Shirak Airport of Gyumri. Because preparation for reception at Shirak Airport was not well planned, confusion and delay of reception occurs. The assistance troops start their activities without proper arrangement by reception groups, without maps and information necessary for the activities, and thereby,	Emergency Management Headquarters are reinforced to reduce mismatch between needs and assistance, and thereby, confusion at reception points are resolved. Many assistants and materials from NGOs, private companies, and individuals arrive at reception points. Since reception of such big number of assistance has not been considered/ planned, confusion and delay occurs on the reception. Although supply of food, water, commodities to the reception staffs is secured, the staffs continue	persons are not satisfied with their results, feel tiredness and irritation, finish their activities, and return to their home towns, since there is no information for further assistance such as care for the evacuees, debris clearance in individual houses, education for children, etc.
An improved case	acceptance of domestic assistance from the RA regions, 2) acceptance of assistance from abroad. They, in their turn, consist of 2 parts: reception of rescue forces and acceptance of material means. The procedures of the acceptance are stipulated in The RA Government decision N919, and detailed method of the acceptance has been defined in emergency response plans of related organizations, and thereby, the related organizations start taking initial response such as arrangement of staffs and materials for acceptance of assistance. The organizations for providing assistance start initial response such as arrangement of staffs and materials for proving assistance, since prior agreement has been made with the organizations in the affected responsible for	The deployment of tent town by Gegharqunik and Vayots Dzor regions of RA is carried out in the surrounding territories of Yerevan city decided beforehand. The arrangement the second echelon is on-going. Most of people in the peripheral areas, who are not damaged and do not have relatives in the affected area, participate assistance activities, because they have been informed and educated about necessity and importance of volunteers' support. The volunteers gather at the reception points around the affected areas, and the organization of the volunteers is on-going with official guidance/support.	troops on the RA borders; crossing points	materials arrived at reception points, the operation of the reception points are smoothly done by official staffs in rotation shift with alternative staffs dispatched from related organizations. For smooth operation of the reception, staffs of NGOs and private sectors are involved, in accordance with agreement made beforehand.	number of staffs in a reception point is reduced, since the operation can be shared with local people. The activities of reception is reviewed and evaluated, and a report with recommendations for future
Measures	Detailed emergency response plans for reception of assistance should be prepared in the responsible organization and related organizations, based on damage estimation result, and items and quantities of expectable assistance from the outside should be defined in the plans. Agreements on emergency assistance should be made with foreign countries, donors, and related organizations in peripheral areas, including private companies.	The details on the establishment and operation of candidate of reception points such as locations, staffs, and materials, should be determined beforehand in a disaster management plan. Measures for enhancing volunteers' activities should be promoted in ordinary time, and a plan for involvement of volunteers should be prepared as a part of a disaster management plan. Data and procedure for determination of items and quantities of international assistance should be prepared beforehand. The data will be a list of national reserve and a list of prepared materials of international organizations in an UN contingency plan. Items and quantities to be asked for international assistance will be calculated "International assistance materials to be applied = Reserved materials –Required materials". The required materials will be calculated with damage estimation system.	Information flowchart and procedure for regulating information should be determined beforehand in a disaster management plan to avoid mismatch between needs and assistance. Items of information to be provided to assistance troops should be clarified beforehand in a disaster management plan.	of assistants and materials at reception points, measures for smooth operation of reception such as rotation shift with	reception should be reviewed and evaluated, and the report with recommendations should be prepared for future

Table ***.11 Consequence scenario (11) Food

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Most of families keep a small amount of long life food at home. Due to collapse of many buildings, food in shops and families is lost. A number of food production companies suspend the production due to damages to the facilities as well as secondary effects such as fires, explosions, emission of toxic materials, etc. and the suspension of supply of water, electricity, and gas. State Reserve Agency keeps a small amount of food for emergency compared with maximum 200 thousand evacuees.	Some families are in difficulty in ensuring food. Particularly, lack of milk for babies is serious problem. Official reserve of food is limited. Some amount of food is provided from other Marzes. Proper distribution of food is not available, since the rule of distribution has not been determined in a disaster management plan beforehand. Therefore, trouble and scramble of food occur in many places. Although the Mayor of Yerevan City decides to introduce cheque system for food provision and defines food distribution points, trouble and scramble of food is not settled, since many residents have not been informed about the Mayor's decision. Enough hot food supply is available only for rescue force, and it results in complain of residents. Restoration works of food producing facilities is delayed, since there is no preparation for quick restoration of the production.	Although food is provided from other Marzes and foreign counthe transportation has not been determined. Accordingly, the without eaten, resulting in rotting. Since information on food distribution such as the contents of announced to residents, residents are rushing around distribution. Lack of food cause rapid rise of food price in markets, reluctant Due to insufficient nutrition, many people catch cold. Restoration of food production facilities is not progressing, because the production of the progressing of the progressing of the production of the progressing of the production of the progressing of the production of the productio	transportation is not smoothly done, food is left food and the locations of distribution points is not on points. It selling, and robbery of food.	Food provided from Marzes and foreign countries is not distributed properly and left in storehouse, since the number of official staffs for the management of transportation and distribution is not sufficient.
An improved case	Most of families keep some amount of long life food at home to survive for three days as recommended in a disaster management plan. A number of food production companies suspend the production due to damages to the facilities as well as secondary effects such as fires, explosions, emission of toxic materials, etc. and the suspension of supply of water, electricity, and gas. The companies start initial response such as confirmation of available manpower and materials, in accordance with BCP (Business Continuation Plan). State Reserve Agency keeps some amount of food stock to be provided to the families.	Although many families have food reserve, the reserve in some families is not available, because of the collapse of houses. According to damage situations, reserved food is provided to the suffered families at evacuation points designated in a disaster management plan. The rule of distribution of food, such as the standard contents of food and distribution points, has been determined in a disaster management plan. Although long queues occur at the food distribution points in evacuation areas, provision of emergency food is managed by Department of Trade and Services of Yerevan City as prescribed in Mayor's decision, and thereby, there is no big confusion and scramble. Enough food supply for rescue forces is secured by RS with its own storage materials. Additional food for emergency is arriving from other Marzes. Restoration works of food producing facilities is on-going, in accordance with BCP, prepared beforehand in each production companies.	RS, Department of Trade and Services of Yerevan City, and Ministry of Economy transport food provided from Marzes and foreign countries. The transportation activities are assisted by Ministries of Emergency Situations, Agriculture, Labor and Social Affairs, Healthcare, Transport and Communication, Police under RA, volunteers, and others. Since the general procedure of the transportation has been determined beforehand in a disaster management plan, the transportation is smoothly done. Information on food distribution such as the contents of food and the locations of distribution points is widely announced to the public and accordingly confusion and complaint are limited on food supply. Mayor of Yerevan City issues an order for the control of food price, such as the prohibition of reluctant selling and sudden rise of food prices. The decision is informed widely to public, and accordingly, food prices are controlled properly. Restoration of food production facilities is on-going, in accordance with BCP. Some of facilities such as milling facilities, have been repaired, and food production is partly restarted.	Distribution of food provided from foreign countries starts. According to evacuees' demand on food, hot meal is prepared in cooperation with volunteers at tentative evacuation areas. Considering nutritional balance, nutritional supplements such as vitamin drops are distributed.	Although number of official staffs for food distribution is limited, evacuees participate the distribution works as well as cooking, together with volunteers, through coordination of official staffs.
Measures	RS and Ministry of Economy should promote self support of every family such as storage of long life food as a preparation against disasters. Each food production company should prepare BCP beforehand for the quick restoration of the production activities. State Reserve Agency should store some amount of food.	RS and Ministry of Economy should <u>determine the rule of</u> <u>distribution of emergency food</u> , such as standard contents of food and the location of distribution points (195 points), beforehand in a disaster management plan. RS, Department of Trade and Services of Yerevan City, and Ministry of Economy should <u>make prior agreement on provision of emergency food with Marzes and food production/ supply companies</u> , and information on available food stock should be shared among related organizations.	The general rule of transportation of food provided from Marzes and foreign countries should be determined beforehand in a disaster management plan. The plan should describe the way of cooperation in the transportation with other ministries, volunteers, and others. Information on food distribution managed by Ministry of Economy should be widely announced to public. Guideline for price control in an emergency should be prepared and well informed to the public.	System for feedback of evacuee's demand should be prescribed and evacuation areas should be managed according to the demand.	Autonomous actions of evacuees such as distribution of food and cooking, should be promoted for smooth operation with limited number of official staffs.

Table ***.12 Consequence scenario (12) Drinking water

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Concerning water supply network, 274 points of supply pipes out of about 1,300 km are damaged. Other water supply facilities, such as 3 reservoirs, intakes, purification plants, and 2 major pumping stations, are also damaged and do not function. Distribution pipes to houses are damaged at many points. Many water tanks are also damaged and water leaks out. As the result, drinking water supply to 380,000 people in Yerevan City is suspended. Because sewerage pipelines are also damaged, contamination of drinking water with sewerage is concerned, even in areas where piped water supply is reduced due to leakage. Most of the members of the utility technical service of the Committee for Emergency Situations (CES) of Yerevan do not gather for the management of the emergency situations, since rule of initial response of the members has not been determined in a disaster management plan. At Yerevan Djur, assembling of members of emergency response group and damage reconnaissance teams starts, but only a few members gather, since there is no definite rule on gathering in emergency.	Water supply by tank trucks to evacuation areas and supply points is not managed properly, since the detailed procedure of emergency water supply has not been determined in a disaster management plan. People is adviced not to drink tapped water, since there is concern of contamination. Accordingly, people cannot get drinking water, and some people break shops and supermarkets to get water. Although damage reconnaissance by the teams of Yerevan Djur is carried out, the damage information is not transfered to the utility technical service of the CES of Yerevan City, because communication flow between Yerevan Djur and the Committee has not been determined beforehand in a disaster management plan, and thereby, arrangement and direction for efficient repairing works do not proceed smoothly.	Although repair of water facilities starts, the progress is slow, because of the shortage of manpower, materials, parts, and equipment for the repair works as well as blockage of access roads with debris. Although dispatch of repairing teams from Marzes is required, the organization and deployment of the teams is delayed, since prior agreement for the dispatch has not been made. Consequently, water supply is still not available in wide areas of Yerevan. Some families, facing difficulty in securing water, raise requests to district offices, but drinking water distribution is not progressing well, because number of water tank trucks is limited.	Repair works are carried out 24 hours with triple shifts by 10 teams. As of 7 days later, 130 points out of 274 damaged points have been repaired (progress is 50%). At the central area of the city, water supply lines are not quickly repaired due to heavy damages. Water distribution by tank trucks is in difficulty, because of the shortage of trucks and road blockage. Drinking water is barely secured through distribution of bottled water arrived from Marzes and foreign countries. Evacuees complain about shortage of drinking water, and some are suffer heat disorder and dehydrating illness.	Repairing works are not completed in some areas due to the lack of spare parts to be imported, and the works are completed in one month later. Installation of temporary supply lines mainly to the central area of the city, but suspension of water supply still continues. Water supply to evacuation areas is still carried out with tank trucks, and thereby, available water volume is limited.
An improved case	Old supply pipes made of asbestos-concrete, ceramic, cast-iron have been replaced with polyethylene and steel pipes, and which replacement contributes to reducing damages to water supply network. As a result, number of damaged points in the network is reduced to be about half. The reinforcement of water facilities also contributes to reducing damages, although 2 major pumping stations do not function due to electric outage. Reinforcement of water tanks against earthquake also results in reduction of areas where water supply is suspended. Number of people without water is about 150,000. Because sewerage pipelines are also damaged, contamination of drinking water with	The utility technical service of the CES arranges urgent water supply tank trucks for delivering drinking water to evacuation areas, in accordance with a disaster management plan. In the areas which water delivery is not available, people can secure drinking water as they have reserved in their houses. People share drinking water with evacuees who lose everything. Shops and supermarkets deliver bottled water to people voluntarily, and neither riot nor robbery occurs in shops and supermarkets. Damage reconnaissance by the teams of Yerevan Djur is carried out and the result is transferred to the utility technical service of CES in accordance with urgent reconnaissance procedure prescribed in a disaster management plan. Based on the result of the reconnaissance, the utility technical service of CES arranges and directs for efficient repairing works.	Water supply is still suspended in many areas, but no big trouble on drinking water has occurred, because most of families keep water and shops deliver bottled water. Emergency water distribution by tank trucks is on-going for the residential and evacuation areas where water supply is suspended for a long time. Based on the damage reconnaissance results, rehabilitation works of the facilities is commenced, using stocked materials and equipment, arranged by the utility technical service of CES. Installation of temporary water pipes to evacuation areas is also commenced.	Repairing works are carried out 24 hours with triple shifts by 15 teams. As of 7 days later, almost all damaged points are repaired have been repaired (the progress is almost 100%). Temporary installation of water pipes to evacuation areas has also completed, In limited areas where piped supply is not available, drinking water is supplied with tank trucks and bottled water arrived from the outside, in cooperation with volunteers.	Piped water supply is available in all areas of Yerevan City. Further works for strengthening water supply facilities are planned, and commenced, in accordance with a guideline of rehabilitation/reconstruction, which is included in a disaster management plan prepared beforehand.
Measures	Ministry of Territorial Administration, Yerevan City, and Yerevan Djur should proceed with the reinforcement of water supply facilities against earthquakes. Especially, replacement of old ceramic pipes should be promoted. Generators for back-up power supply should be installed to treatment plants in order to maintain the function during electric outage. Ministry of Territorial Administration, Yerevan City, and Yerevan Djur should reinforce water facilities such as reservoirs, pumping stations, and water tanks against earthquakes. RS should promote campaign or education for raising awareness of residents such as reserving drinking water in their houses. Rule for initial response in emergency, such as autonomous gathering of staffs of concerned organizations, should be stipulated in a disaster management plan.	The procedure for urgent water supply by tank trucks should be prescribed in a disaster management plan. RS and Yerevan City should promote mutual and self supports such as sharing water among residents and the voluntary delivery of bottled water of shops. Communication flow and form for reporting to responsible organizations on damage situations of water supply system should be prescribed in a disaster management plan.	RS and Yerevan City should store emergency water trucks. RS and Yerevan City should prepare an emerger management plan. The plan should include the points), the criteria of water distribution (i.e. 10 collaboration with volunteers and other units con Yerevan Djur and Yerevan City should store mater water supply facilities, and conduct training of the store of the st	ncy supply plan as a part of a disaster e location of water supply points (195 lit./person/day), the way of ncerned. ials and equipment for repair of the	For further strengthening of water supply facilities, RS and Yerevan City should prepare a guideline for rehabilitation/reconstruction, which shows the procedure of formulation of the plan beforehand in a disaster management plan.

Table ***.13 Consequence Scenario (13) Power supply (Ministry of Energy and Natural Resources)

0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more		
Out of 1,950 km of aerial power lines, 22.4 km is damaged. Out of 3,517 km of underground power lines, 305 km is damaged. The operation of the most of all power plants and substations is suspended, due to the strong shaking. Just after the earthquake, power outage occurs at the entire area of Yerevan City. Althogh most of the members of energy and black-out service and the Committee for Emergency Situations (CES) of Yerevan gather for the management of the emergency situations, initial response, such as collecting damage information and safety confirmation of staffs, is delayed, since tasks of the service and CES in sever earthquakes have not been clearly defined. At Yerevan Light and Electric Network of Armemia, emergency response teams are established for damage reconnaissance and other initiral resposese. But, the safety of some members cannot be confirmed, since there is no definite rule on safety confirmation of staffs in emergency.	Damage reconnaissance of power supply facilities is commenced, but it is not progressing well, since number and degree of the damaged points so big. The damage information is not smoothly processed for the rehabilitation of power supply system, because the procedure and methodology for analysis of damage and arrangement of rehabilitation teams for huge disasters have not been well-established beforehand. Since tasks/ responsibilities/ communication means between the CES of Yerevan and the CES of the State have not been clearly defined, gaps in decision and direction cause confusion or delay in initial response and rehabilitation activities. Although emergency power supply to important facilities with generators has been carried out, the supply cannot be done for short time, because stock of fuel is limited.	Assistant teams have been arrived from other Marzes for the rehabilitation of the facilities. Although the teams consist of trained technical staffs, the rehabilitation works are not progressing well, because of lack of spare parts as well as the lack of information on priority locations for rehabilitation from the energy and black-out service and the CES of Yerevan. Rehabilitation of power plants is delayed, since replacement of special parts is required and no supply chain has been clarified beforehand. Rehabilitation of high-voltage transmission lines is progressing at about 40%. Power supply to houses has not been restored, since distribution lines have not been repaired yet. Although people observe the rehabilitation works at several locations, many complaints arise since no power supply to their houses and no information when the supply restored.	Power supply to houses is restored in some areas. Although staffs of power companies confirm safety before the restoration, fire breaks out due to short-circuit and over-heating of electric devices after the power restoration, since some evacuees have not turned off the electric devices. Rehabilitation of heavily damaged power plants and transmission lines is suspended due to the lack of special parts. Comparing rehabilitated distribution network, the capacity of restored power generation is small, and planned rolling blackout is applied. People complain the situations of power shortage.	The energy and black-out service, CES of Yerevan, and related organizations should concentrate for short-time tentative power supply to meet minimum needs, long-term plan and vision t¥for the reconstruction of power supply facilities cannot be considered.		
Since power supply facilities have been reinforced in terms of seismic stability, damage to the facilities is reduced, comparing with the worst case. Although damage is reduced, power outage occurs at the entire area of Yerevan Cith, due to strong shaking. The members of the energy and black-out service and the CES of Yerevn gather autonomously for the management of the emergency situations, since the rule of initial response of the members has been determined in a disaster management plan, and they start immediately collecting information on damages situation of safety of the members and the staffs of power companies. At Yerevan Light and Electric Network of Armemia, assembling of members of emergency response groups and damage reconnaissance teams starts, most of all members are going to the gathering ponts autonomusly, since rule on gathering in emergency has been shown in BCP of Yerevan Light and Electric Network of Armemia.	Damage reconnaissance of power supply facilities is commenced, and proceeding smoothly, since number and degree of damaged points are reduced and the procedure and responsibility of the reconnaissance work have been well understood by related staffs, including management staffs and site-working staffs. The energy and black-out service and the CES of Yerevan gathers/ analysis all information on damages, in corporation with Crisis Management Center and related companies. Based on the analyzed information, the schedule and priority of rehabilitation are decided, directed to relevant companies, and announced to the public. Emergency power supply to important facilities with generators has been carried out, and minimum necessary power supply can be secured with stockpiled fuel.	teams consist of trained technical staffs having eno their works is properly done by the energy and black rehabilitation works are progressing well. Supply chain for special parts for the rehabilitation the rehabilitation of the plants is progressing smoot Rehabilitation of high-voltage transmission lines is Power supply to houses is restored in the area when safety by staffs of power companies. At the time In the heavily damaged areas, installation of tentati	Assistant teams have been arrived from other Marzes for the rehabilitation of the facilities. Since the teams consist of trained technical staffs having enough spare parts and the instruction on locations for their works is properly done by the energy and black-out service and the CES of Yerevan, the rehabilitation works are progressing well. Supply chain for special parts for the rehabilitation of power plants has been established beforehand, the rehabilitation of the plants is progressing smoothly. Rehabilitation of high-voltage transmission lines is progressing at about 60%. Power supply to houses is restored in the area where damage is not serious, after the confirmation of safety by staffs of power companies. At the time of power restoration, In the heavily damaged areas, installation of tentative power distribution network and portable generators are installed to the evacuation areas, so that minimum supply of power is secured.			
The energy and black-out service, the CES of Yerevan, Ministry of Energy and Natural Resources, Yerevan Light, and Electric Network of Armemia should proceed with the reinforcement of power supply facilities against earthquakes. Rule and tasks for initial response in emergency, such as autonomous gathering and safety confirmation of staffs, should be stipulated or clarified in a disaster management plan or BCPs of the related organizations.	The energy and black-out service, the CES of Yerevan and related organization should clarify the organizational structure and procedure of damage reconnaissance in case of huge disasters beforehand in a disaster management plan, and conduct training on the reconnaissance. The energy and black-out service and the CES of Yerevan should clarify the information flow on damage situations, analysis, and direction for rehabilitation works beforehand in a disaster management plan. The energy and black-out service and the CES of Yerevan should promote installation of emergency power back-up system together with stockpile of fuel to important facilities, considering the duration of rehabilitation at the time of severe earthquakes.	The energy and black-out service and the CES of Yerevan should promote stockpile of materials or secure supply chain of materials for the rehabilitation of power facilities. The energy and black-out service and the CES of Yerevan should promote establishing safety confirmation rule to avoid secondary fire due to restoration of power supply.	The energy and black-out service and the CES of Yerevan should promote stockpile of devices or secure supply chain of devices for the installation tentative power generation and supply system to the heavily damaged areas. The energy and black-out service and the CES of Yerevan should promote people's intension or awareness on necessity of switch-off at the time of evacuation in order to avoid secondary fire outbreak due to short-circuit and over-heating at the time of power restoration.	The energy and black-out service and the CES of Yerevan should prepare the framework (responsible organizations and the tasks) and procedure for smooth formulation of reconstruction plan.		

Table ***.14 Consequence Scenario (14) Gas Supply

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	damaged. Out of 1,027.0 km of on-the-ground gas pipelines, 221.1 km is damaged. The operation of all gas facilities has been suspended due to strong shaking. No gas explosion occurs, since safety devices, such as emergency shutdown devices and gas release devices, function properly. Althogh most of the members of utility technical service and the Committee for Emergency Situations (CES) of Yerevan gather for the management of the emergency situations, initial response, such as collecting information and safety confiration of staffs, is delayed, since the tasks of the service and CES in sever earthquakes have not been clearly defined. At ArmRusgasprom, emergency response teams are	The damage information is not smoothly processed for the	Damage reconnaissance (safety confirmation) is on-going. Since number of gas detecting devices is limited, the clarification of damaged parts of gas supply network is progressing slowly. Although assistant teams from other Marzes, join the damage reconnaissance (safety confirmation) work, reconnaissance operation is not smoothly done, since management of the reconnaissance works, such as sharing the target areas, provision of information of gas network, etc., is not properly done. Gas supply cannot be restored within three days after the earthquake.	some areas, gas supply cannot be restored, since safety confirmation of main pipes has not been completed. Accordingly, gas supply has not been restored in Yerevan.	Safety confirmation of main pipes has been completed two weeks after the earthquake. Although safety confirmation of distribution pipes has been completed in slightly damaged area, gas supply cannot be restored, since gas some residents evacuated without closing gas valves and leakage occurs through the open valves. Although rehabilitation works of gas pipe lines has been commenced, the works are suspended due to the lack of spare parts. Accordingly, rehabilitation works have not been completed within one month after the earthquake. Since the rehabilitation works has been done only for restoration of gas supply, there is no improvement in terms of strengthening of the gas supply system, comparing with the previous conditions.
An improved case	of seismic stability, damage to the facilities is reduced, comparing with the worst case. Although damage is reduced, gas supply outage occurs at the entire area of Yerevan Cith, due to strong shaking. The members of the utility technical service and the CES Yerevan gather autonomously for the management of the emergency situations, since the rule on the initial response of the members has been determined in a disaster management plan, and they start immediately collecting information on damages situation and safety of members and the staffs of gas companies. At ArmRusgasprom, assembling of members of	Damage reconnaissance (safety confirmation) of gas supply facilities is commenced, and proceeding smoothly, since number and degree of damaged points are reduced and the procedure and the responsibility of the reconnaissance work have been well understood by related staffs, including management staffs and site-working staffs. The utility technical service and the CES of Yerevan collect and analysis all information on damages, in corporation with Crisis Management Center and related companies. Based on the analyzed information, the schedule and priority of rehabilitation are decided, directed to relevant companies, and announced to the public. Residents understood the risk of gas explosion due to gas leakage and they have been informed what to do in severe earthquakes, they close gas valves before evacuation. Since residents have been informed that gas release devices are function at the time of severe earthquakes, they evacuate in calm manner and extinguish fire as far as they can without danger.	Damage reconnaissance (safety confirmation) is on-going. Assistant teams has arrived in Yerevan from other Marzes, having gas detecting devices, and carry out damage reconnaissance (safety confirmation), shearing the target areas with the teams of Yerevan. Although the damage reconnaissance (safety confirmation) is progressing well, gas supply cannot be restored within three days after the earthquake. The utility technical service and the CES of Yerevan instruct ArmRusgasprom to carry out damage reconnaissance (safety confirmation) of main supply pipes in high priority.	pipes. Gas supply is gradually restored from the areas where safety confirmation of distribution pipes has been completed.	Together with restoration of gas supply in the areas where safety confirmation has been completed, rehabilitation works in damaged areas are on-going. Although stockpile of pipes is limited, new pipes for replacement of heavily damaged pipes imported from foreign suppliers, and thereby, the rehabilitation works are progressing well, and almost completed within one month after the earthquake. The rehabilitation works has been done, not only for restoration of gas supply, but for the improvement of the gas supply system in terms of seismic stability, based on a future vision and strategy on strengthening of system against earthquake.
Measures	The utility technical service, the CES of Yerevan, Ministry of Energy and Natural Resources, and ArmRusgasprom should proceed with the reinforcement of power supply facilities against earthquakes. Rule and tasks for initial response in emergency, such as autonomous gathering and safety confirmation of staffs, should be stipulated or clarified in a disaster management plan or BCPs of the related organizations.	The utility technical service, the CES of Yerevan, and ArmRusgasprom should prepare the procedure damage analysis and communication flow in severe earthquakes, in addition to that for the ordinary time. The utility technical service, the CES of Yerevan, and ArmRusgasprom should inform residents about necessity of closing gas valves at the time of evacuation and also the outline of gas release in case of severe earthquakes for proper and calm behavior of the residents.	The utility technical service, the CES of Yerevan, and ArmRusgasprom should prepare the task sharing and cooperation program with assistant teams of other Marzes beforehand in a disaster management plan.	The utility technical service, the CES of Yerevan, and ArmRusgasprom should prepare priority targets of damage reconnaissance (safety confirmation) before hand in a disaster management plan.	The utility technical service, the CES of Yerevan, and ArmRusgasprom should store pipes and other materials and secure supply chain of deficient materials for huge scale rehabilitation. The utility technical service, the CES of Yerevan, and ArmRusgasprom should carry out rehabilitation work, based on future vision and strategy to strengthening gas supply system against earthquake.

Table ***.15 Consequence Scenario (15) Telecommunication

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Although main telecommunication lines are limited, lead-in lines to houses are damaged due to collapse of buildings. Since the antennas of cellular phones are installed onto seismic-resistant buildings, damage to the antennas is limited. Some telecommunication devices in relay stations are turn-down and telecommunication is not available in some areas. Although short-wave communication systems for related organizations (N1 to N9) are not damaged, power back-up systems do not function in some station. Therefore, communication for initial response among some related organizations is delayed.	of their families, congestion occurs in cellular phone network, and communication with cellular phones is not available. Although the teams of telephone companies start damage reconnaissance, the reconnaissance works are not progressing well, since number of teams is not sufficient.	Although rehabilitation works to secure official communication is on-going, the works is not progressing well, because of the lack of spare parts. Although short-wave channels are allocated to Ministries for the management of rehabilitation works, several troubles occur, because the staffs are not familiar with the usage of the emergency communication devices. Since damage reconnaissance works for public lines are not progressing well, the rehabilitation works are not efficiently done. The lack of spare parts causes the delay of rehabilitation works.	has been restored. Inability of public fixed and cellular phones continues. Mobile units of wireless telephones are being	telephones installed tentative evacuation areas, telecommunication is secured in the evacuation areas.
An improved case	Since several measures to strengthen telecommunication system have been implemented, damage to telecommunication facilities and disconnected area are reduced. The implemented measures are the redundancy of telephone lines, the reinforcement of buildings of telephone companies, fixing of telecommunication devices, and the strengthening of telephone poles and antennas. Short-wave communication systems for related organizations (N1 to N9) are not damaged, and power back-up systems has been installed properly, and thereby, communication with short-wave devices is available among related organizations.	phone network, telecommunication with numbers registrated beforehand is available, using priority system introduced by telephone companies. The teams of telephone companies start damage reconnaissance with assistant teams from other areas, which assistant mechanism has been agreed before hand among branches	Land M. Cartana and C. C. Cartana and C. Cartana an	has been restored. Telecommunication with cellular phones and fixed phones are almost resumed, except heavily damaged areas. Enough number of mobile units of wireless telephones is installed into tentative evacuation areas, and evacuees' communication means are	replacement of tentatively repaired facilities, renewal of heavily damaged system, is prepared, and priority work in the plan is commenced in order.
Measures	Telecommunication companies should implement measures to strengthen telecommunication facilities with guidance by the communication and warning service of the Committee for Emergency Situations (CES) of Yerevan City. The measures include the redundancy of telephone lines, the reinforcement of buildings of telephone companies, fixing of telecommunication devices, and the strengthening of telephone poles and antennas. The responsible organizations should properly maintain short-wave communication systems (N1 to N9), together with maintaining power back-up systems.	system which secures urgent communication by priority, with guidance by communication and warning service of CES. Telephone companies should prepare urgent damage reconnaissance plan for cooperation with other branches in a disaster management plan, together with	Communication and warning service and Ministry of Transport and Communication should prepare the procedure and procurement route for securing necessary spare parts for urgent rehabilitation works for official communication system in a disaster management plan. Telephone companies should prepare the procedure and procurement route for securing necessary spare parts for urgent rehabilitation works of public telecommunication system.	antennas and mobile units of wireless phones,	and Ministry of Transport and Communication, together with

Table ***.16 Consequence scenario (16) Mass-medias, false rumors (RS of MES of RA, "Public TV company of Armenia" CJSC, "Public radio of Armenia" CJSC")

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	The facilities of Mass-medias, equipment of TV-radio provision and printing are essentially damaged. Some printing devices are not damaged, a few printing procedures are remaining.	Because of false rumor on aftershocks, many residents start escaping from evacuation zones, and the behavior causes confusion and injury.	sources. Pessimistic attitude is prevailing focuses on accumulation of supporting ma without reliable sources, confusion and par False rumors, such as robbers enter the em	g among residents, such as uneven distribution terials in storehouses without delivering. Due nic arose among residents. pty houses, cause panic among evacuees. Sor	n of supporting materials, because mass-media to spreading news on aftershocks and bad things
An improved case	and facilities of media have been fixed as measures against earthquakes, and thereby, there is little damage to the buildings and facilities. Initial response safety confirmation of staffs, has been immediately done in media companies, in accordance with BCP which has been	Since mass-medias properly transfer the message of MES about situations and measures taken to residents as it has been determined in the plan beforehand, victims can stay evacuation places without concerns on their properties.	Residents can receive necessary information Information of distribution of assistance magovernment from residents. The information received from official magreement made with MES beforehand. Committee of Yerevan City. In cooperation with RS, groups of volunt evacuees, such as information on missing pages.	on, including on security via mass-medias. naterials is also properly informed to residents, nessages is rapidly broadcasted to the popula. In the evacuation areas, evacuees are informed teers are formed among the residents for assist people, provision of foods/water/necessities, restrity, such as cases of robbery, to residents proper	
Measures	and fixation of equipment, should be planned and carried out beforehand in the buildings/facilities of mass-medias.	guideline for proper dissemination of information for promoting preparedness and raising awareness of residents on disaster management. Mass-media should have system to monitor adequacy of their programs (such	RS should prepare a plan for assisting vo provided to evacuees, etc. RS and Yerevan City should prepare to	-	ups, sharing tasks, receiving information to be to the public so that official announcement on

Table ***.17 Consequence scenario (17) Aerial transportation (RS, General Department of civil aviation under the Government of RA, "Zvartnots International Airports" CJSC)

		0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
1. C.	THE WOLST CASE	equipment of the navigation facilities are turned down and broken, and consequently the airport doesn't function. Because of the damage of the runway, the takeoffs	Because there are many damaged portions, repairing teams and the storage of materials for repairing are not sufficient, it is unable to restore the navigation process. Airplanes cannot be operated, due to the damage of tanker for	runway is delayed due to the lack of trained staffs and insufficiency of stored materials and equipment. That is why the assistance from international organizations and other countries by aerial ways	equipment is not repaired due to the absence of spare parts, and thereby, the activities of the airport are limited.	works restarted. Because the unloading area is limited and the unloading is not controlled well, the area is occupied with randomly unloaded assistant materials from foreign countries, and
	An improved case	navigation facilities, were carried out beforehand, there are no serious damages.	Takeoff and landing is terminated, urgent check of the runway is done. Based on the result of checking, trained employees of the airport start repairing the runway using the materials and equipment stored beforehand. Detailed checking of navigation facilities is carried out so that navigation function will be secured. Spaces for takeoff and landing of helicopters for reconnaissance of damages are arranged at un-damaged spaces in the airport and other areas in Yerevan city.	the navigation equipment from the warehouse are completed, and the majority of procedures of the airport is restarted for receiving assistance from other countries. By helicopters, air reconnaissance as well as sending seriously injured persons to hospitals outside of Yerevan	of the airport. Because the extra-unloading areas for assi beforehand, there is no confusion on unloading	
	Measures		Car-transport economy of the airport and General Department o operative procedures for urgent check, maintenance and n emergency situations.		RA must introduce material provision and	-

Table ***.18 Consequence scenario (18) Roads and Bridges

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	In Yerevan City, four bridges (ARB-3, ARB-5, MLS-3, and SHN-5) are collapsed and some sections of roads are blocked with debris of collapsed buildings. Although main roads are passable, several streets are blocked and impassable. The work of railway connecting the northern part of the republic with the central part due to the collapse of the bridge of the damaged railway. On the south-east part of Yerevan City, roads are blocked as a result of landslide.	Based on the report of the Minister of Emergency Situations, the Prime-Minister declares a state of emergency and the MES CMC started acting on national level. The head of Republican committe of ES of RA (RA Prime-Minister) assigned the engineering subdivisions, together with engineering service of CES of Yerevan, to assess the situation, calculate the technique necessary for the recovery of damaged bridges/roads and start recovery activities not late than after 4 hours. The assessment takes time, because collecting system of damage information has not been established beforehand. The RA Police is assigned for traffic control, but, the control is in difficulty, since the priority roads on traffic control for disaster management has not been designated. Passable roads are occupied with cars for evacuation and rescue, and heavy traffic jam occurs. In addition, many abandoned cars block traffic. Most of all roads consequently are getting impassable.	Engineering subdivisions and the engineering service of CES of Yerevan start rehabilitation works of damaged bridges, but the works are not progressing well, since equipment and materials are not sufficient. Since the clearance procedure for priority roads for rescue and urgent accident-recovery operations have not been defined, the works are delayed. Pontoon bridges are installed by the RA Ministry of Defence. The engineering subdivisions carry out the opening of the roads closed with landslides.	Rehabilitation works of damaged bridges continues, and heavy traffic jam continues at the bridges under rehabilitation. Although traffic on one lane of main roads is secured, many roads are still impassable. Engineering subdivisions recovered the damaged bridges and apt for traffic. The road obstacles for the subdivisions carrying out rescue and urgent accident-recovery operations are mainly eliminated.	Although urgent repairing work is completed, reconstruction of collapsed bridges has not started, and traffic control continues. Due to lack of equipment and tiredness of workers, clearance work is progressing slowly and impassable roads still remain. Since the related organization should concentrate the habilitation works, long-term reconstruction plan has not been prepared yet.
An improved case	Due to implementation of preventive measure against collapse of bridges, the collapse of bridges is avoided. Some of minor roads are blocked with debris due to collapse of buildings. The work of railway is not hampered. The landslides didn't get activated as a result of the preventive measures, such as lowering of groundwater, having been done beforehand.	Based on the report of the Minister of Emergency Situations the Prime-Minister declares a state of emergency and the MES CMC started acting on national level. The head of Republican Committe of ES of the RA (RA Prime-Minister) assigned the engineering subdivisions having technique, together with engineering service of CES of Yerevan, to assess the situation, calculate the technique necessary for the recovery of damaged buildings and start recovery activities not late than after 4 hours. The assessment has been completed on time, since the damage information and assessment can be done, according to the stipulated manner in a disaster management plan. The RA Police is assigned for traffic control, and the control has been dome smoothly, since priority roads on traffic control has been designated in a disaster management plan. Since citizens are well informed of prohibition on use of cars for evacuation, traffic jam on main roads are alleviated. Traffic control by police on designated strategic roads contributes to smooth transportation of emergency vehicles. Cars left behind are unlocked and easily removed.	The rehabilitation works of damaged bridges are progressing well, since the engineering service of CES has made agreement with related companies for the deployment of rehabilitation teams with equipment and materials. Since the priority roads and the clearance procedure have been defined beforehand, the works are progressing well. Pontoon bridges are installed by the RA Ministry of Defence. The engineering subdivisions carry out the opening of the roads closed with landslides.	Most of rehabilitation works of damaged bridges are completed. In the parts where recovery was impossible pontoon bridges are installed by the RA Ministry of Defence. Clearance of main roads are almost completed, and the clearance works on minor roads are on-going, according to priority in road clearance, defined beforehand in a disaster management plan.	The recovery works of the roads taking to the disaster zone are mainly accomplished. Some auxiliary works such as repairing sidewalks, roadside facilities, and traffic lights are commenced. A full-scale reconstruction plan for bridges and roads has been formulated for creating much strong conditions.
Measures	Engineering service of Committee of Emergency Situations and Ministry of Territorial Administration should <u>carry out diagnosis on seismic resistance of bridges and necessary reinforcement</u> , including installation of preventive measures against bridge beam displacement. Engineering service of Committee of Emergency Situations and Ministry of Territorial Administration should <u>implement stability measures for the landslides</u> distributed on the south-east of Yerevan City.	engineering subdivisions and the engineering service of CES of Yerevan should prepared the procedure and method of collecting damage information and damage assessment beforehand in a disaster management plan. engineering subdivisions and the engineering service of CES of Yerevan should designate priority roads for disaster management, and prepare a plan for the road clearance and traffic control beforehand in a disaster management plan. engineering subdivisions and the engineering service of CES of Yerevan should well inform to citizens of prohibition of evacuation by cars, and conduct evacuation drill without using cars.	The engineering service of CES Yerevan should prepemergency in a disaster management plan, includi on procurement of equipment, and storage of materials.	ng agreement with private contractors	The engineering service of CES should prescribe the procedure of formulation of full-scale reconstruction plan in a disaster management plan about, in order to create more reliable traffic system against severe earthquake.

Table ***.19 Consequence scenario (19) Debris cleaning

	0 to 1 hour later	1 to 24 hours later	1 to 3 days later	3 to 7 days later	7 days later or more
The worst case	Debris of 5 million ton (7 million cubic meters) piles up in a moment, mainly due to collapse of buildings. Out of the debris, 150 thousand ton is required to remove for clearance of main roads.	The engineering subdivisions and the engineering service of CES of Yerevan commence the debris clearance works, mainly for search and rescue of missing people. But, the equipment and manpower are not sufficient, since the debris is so much. In order to rescue victims from debris, citizens start removal of the debris. But the removal is not progressing, since no equipment has been available in communities, and there is no trained person for debris removal.	Debris removal is on-going on main roads, and the removed debris is dumped on several places without control, since the stockpile areas of the debris have not been determined. Residents remove debris and dump the debris on roads in residential areas. Due to the dumped without control, impassable sections of roads are increase and rescue and other operation are hampered.	Private companies, that are directed to join the debris clearance works, do not carry out full-operation, since budget for operation such as for fuel, consumption, wedge, etc. has not been allocated. Since a plan for debris removal has not been well formulated, the removed debris is dumped into mountains without sorting and without control.	There is no plan for removal of debris dumped in residential areas, and the debris in residential areas remains untreated. Delay of removal of debris affected several activities for rehabilitation and reconstruction. The construction of temporary dwelling is delayed, since the areas are occupied with debris.
An improved case	Due to reinforcement of buildings, building collapse which is source of debris is reduced, and, the amount of debris is reduced accordingly.	The engineering subdivisions start the clearance of debris on priority roads, according to a disaster management plan. Construction companies, that have heavy equipment and manpower, join the debris clearance works, under the management of the engineering service of CES of Yerevan. In residential areas, debris is removed without equipment and piles up tentatively on roads.	Debris removal is on-going on main roads. The engineering subdivisions and the engineering service of CES of Yerevan determine primary stockpile areas, according to existing list of possible stockpile areas, so that dumping of debris should not hamper other activities.	Debris in the primary stockpiled areas is transferred to the secondary stockpile areas for segregation. The debris is divided into several kinds, such as for burning, landfill, recycling, etc. The procedure for recycling is determined in order to reduce the amount of debris as well as for environmental consideration.	Debris dumped in residential areas is transferred to the secondary stockpile areas, upon the request of the residents. The National Committee for Emergency Situations has decided that the cost of the transfer is covered with governmental budget. The segregated debris is treated properly, sending burning areas, filling areas, etc. re-use of steel and stones for reconstruction is promoted.
Measures	Reinforcement of buildings should be carried out.	The engineering service of CES of Yerevan should prescribe the procedure of debris removal, including agreement of private contractors which possess heavy equipment for requisition in an emergency and storage of own equipment in a disaster management plan.	The engineering service of CES of Yerevan should <u>make</u> a list of possible primary stockpile areas of debris <u>beforehand in a disaster management plan</u> , so that the designation of the primary stockpile areas can be done smoothly.	The engineering service of CES of Yerevan should make a outline of the segregation (including responsible organiz management plan.	list of possible secondary stockpile areas of debris and the zation), especially for recycling, beforehand in a disaster



Mitigation – the present situation and focusing points in planning

_	Thingation the	r present situation and focusing points in pla	 I	>		
	Item	Present situation	Progress	Importance	Priority	Focusing point
1	Raising awareness/ Dissemination of information on disaster management	RS receives implementation plans and reports of trainings stipulated in the plans on civil defense of municipalities, districts, companies, etc. and Activities are been doing as followings. Providing information and knowledge by Emergency Channel through TV programs twice to three times a week, etc. Providing information and knowledge through RS Website. Tabletop and field exercises by related personnel, organized by RS and others. Evacuation training in municipalities and districts, both for natural and technological accidents. Education in the State Crisis Management Academy to the staffs of related organizations such as ministries, municipalities, districts, companies. Education in regular curriculums on Emergency situations in higher education institutions (universities, collages, etc.) Education in kindergartens and schools, organized by RS, SSP, UNDP, etc.	В	2	I	 Enhancing the promotion function of RS (such as setting basic concept and target, planning for implementation, monitoring activities, and feedback of the results to the next step) for increasing effectiveness. Particularly, enhancing function to assist voluntarily activities of people's groups (at a unit of a collective housing, a block, etc.) for raising awareness and dissemination of information, following the clarification of characteristics of their areas. Clarifying items to be included in documents and materials for education and confirming/providing concrete measures for the dissemination of the documents and materials, together with solution of relating issues on the dissemination.
2	Reinforcing organizational system and enhancing the voluntary activities of people's groups on disaster management	 Population protection in emergency situations and civil defense plans are prepared in municipalities, etc. and RS territorial subdivisions support the activities stipulated in the plans such as training on fire fighting. RS territorial subdivisions together with SDC, provide assistance to mainly local self-government bodies in enhancing rescue capability, establishing medical units, fostering fire fighting personnel. Assistance people's groups for voluntary activities in disaster management, such as creating the groups, planning for activities, enhancing organization system, promoting activities, etc. has not been done much. In each company, responsible personnel of ES have been assigned and several activities are carried out. 	D	2	Ш	 Clarifying promotion function of RS on the enhancement of people's groups and their activities. In parallel, providing the contents of assistance by RS and other organizations. Providing promotion plans for the creation of people's groups on disaster management, considering the actual situation of people's groups for civil defense, in order to enhance information dissemination to all residences and promotion of voluntary activities as well as system to collect demands and needs of the residents.
3	Collaboration and co-working with volunteers	NGOs active in disaster management field exist, but the number is limited. RS has the contact list of the NGOs. RS and State Crisis Management Academy cooperate with NGOs in education, training, etc.	С	3	II	 Clarifying responsible, implementing, and related organizations, and then, providing basic concept and overall view for the collaboration and co-working with volunteers. Providing promotion plans for the

4	Prevention of fire outbreak and increasing safety of dangerous materials	 Fostering volunteers, collaboration/co-working with volunteers remain to be solved. Activities on prevention of fire outbreak is carried out, being led by firefighting inspection of RS across the country. Government decided to installation of gas sensors to each house, and the installation is on going. Companies which deal with dangerous materials take safety measures, and RS and other subdivisions of MES of RA monitors the activities. 	В	3	П	registration of NGOs/ volunteers, collaboration through co-working in activities such as education and training Clarifying issues for the above-mentioned promotion plans Enhancing promotion function of RS for the promotion of measures together with companies of gas, electricity, etc. Providing effective measures for prevention of fire outbreak such as conducting inspection, installing safer facilities, installing gas alarm, etc., and then, clarifying issues for the implementation of the measures. Providing feasible and concrete plans such as the installation of automatic circuit-breakers, and then, clarifying issues
5	Measures for assisting vulnerable people to disasters	 Evacuation drills are conducted in schools and kindergartens, according to the municipality plan, and RS monitors the activities. Issues on evacuation of aged and disability persons remain to be solved, and the measures on the issues will be studied in this project. 	D	3	Ш	for the implementation of the measures. Clarifying responsible, implementing, and related organizations, setting basic concept and targets on the assistance to vulnerable people, and then, developing organizational framework for the implementation of concrete measures. Providing concrete measures such as assistance to vulnerable people in multi-story apartment buildings.
6	Preparation for economic and industrial reconstruction	 The existing response plan does not contain much about the preparation of economic and industrial reconstruction; this issue would be discussed in this project. 	Е	3	IV	 Confirming the necessity of the preparation of reconstruction plan beforehand. Preparation of basic plan, defining responsible organization and framework of reconstruction beforehand, and providing the organizational framework for the preparation with collaboration of related organizations.
7	Promotion of redevelopment and securing open space in urban areas	 Securing or designating evacuation areas in the vicinity of residential areas remain to be solved, and the issue would be discussed at the time of preparation of evacuation plan in this project. There seem to be little consideration on disaster management in urban planning and securing open space, although it should be confirmed with Ministry of Urban Development and Yerevan municipality. Consideration from viewpoint of disaster management in securing open space and roads as well as urban function seems to be not enough. 	С	2	I	 Establishing organizational framework, having promotion function through consultation among RS, Ministry of Urban Development, and Yerevan municipality in order to promote redevelopment and securing open space in consideration for disaster management. Providing viewpoint of disaster management to be considered in redevelopment. Clearly describing in disaster management plan about promotion of securing open space and roads as well as development of urban function from a viewpoint of disaster management in order to reflect the points onto the master plan of urban development.
8	Road improvement	- In road improvement, consideration of usage for emergency transportation during earthquake disaster seems to be not enough, although the point should be confirmed with Ministry of Transportation and Communication.	С	2	I	- Establishing an organizational framework which Ministry of transport and Communication, Yerevan municipality, and RS discuss about road improvement in consideration of earthquake disaster management.

9	Land use in a time of disaster	 There is concern that roads will be closed due to the collapse of buildings and bridges in an earthquake, resulting in the inability of road transport. It seems that there is neither regulation nor plan on land use in a time of disaster, although it should be confirmed with Ministry of Urban Development. 	E	2	IV	 Clearly describing about the necessity of road improvement in consideration of disaster management. Providing the plan of designation and improvement of strategic roads for disaster management in a disaster management plan. Formulating a plan for land use in a time of disaster, including a plan for securing areas for evacuation (secondary or regional), logistics, spoil bank of debris, grave site. Proposing framework for the promotion of securing land, which RS can implement in collaboration with related organizations.
10	Seismic strengtening of buildings	 Ministry of Urban Development is in charge of this matter, including budget arrangement. Ministry of Urban Development submitted to the government a list of important buildings to be strengthened, based on list from Ministry of Healthcare, etc. Although there is financial assistance in Armenia, seismic isolation devices are installed to 36 buildings, and official financial assistance is urged for the promotion of the installation. Construction standard was enacted in 1973, and improved through revision in 1994 and 2007. 	С	1	I	 Confirming framework for reflecting on-going measure on strengthening buildings into earthquake disaster management plan to be prepared in this project. Promoting discussion among related official organizations, association of construction companies, etc. for disseminating applicable seismic strengthening method, considering cost and technology. Promoting strengthening important buildings with lending. Discussing about adoption of lending and subsidy for strengthening of collective and individual houses. Confirming system of construction permit, quality control during construction, and license for design and construction and enhancing their operation.
11	Prevention of falling of objects and turn-down of furniture	It seems that no measure has been taken, and this issue should be considered in this project.	D	3	III	 Confirming responsible, implementing, and related organizations, and task sharing and collaboration among them for the promotion of measures. Enhancing activities of the above-mentioned organizations such as dissemination of information on dangerousness and simple prevention measures through education materials as well as monitoring function, in order to promote prevention measures in people's groups and families.
12	Measures on elevators	 Yerevan municipality and "National Technical Security Center" SNCO (instead of mechanical service section) of Ministry of Emergency Situations are responsible organizations. Although companies which provide elevators respond to mechanical troubles etc., particular measures against earthquake seem to be not taken. 	D	4	V	 Providing the following measures to be promoted by responsible organizations. Installing earthquake-safe type of elevators when elevators are newly installed. Assisting people's group activities such as confirmation of evacuation/ rescue procedures in emergency, for the existing elevators.
13	Seismic strengthening of lifeline	 Construction standard, including seismic resistance, has been established. Yerevan municipality, Ministry of Urban 	D	2	III	- Confirming a unit or section in responsible organizations, being in charge of strengthening (renewal of decrepit ones) of

	facilities	Development, and Ministry of Energy (I am not sure about the Ministry of Energy) are responsible organizations. - Existing facilities, constructed before the establishing standard, are getting old, and thereby, they seem to be low seismic resistant. I recommend to formulate this point in the following way "Existing facilities built before 1988 were constructed by old standards which do not correspond to the current seismic situation. The seismic resistance of these facilities is low. The exploitation period of most of high-rise buildings has expired." Water supply pipes are highly decrepit and the stock of spare pipes is limited, and thereby, it is foreseen that water supply through pipes is suspended for long time due to damage by an earthquake.				lifeline facilities Formulating a plan for accelerating renewal of facilities, based on damage estimation of lifeline network such as water supply pipes, and clarifying issues for the acceleration of the renewal. Promoting planning and implementation of seismic diagnosis and strengthening according to the result for the core facilities of lifeline.
14	Seismic strengthening of transport and river facilities	It seems to be not sufficiently estimated about road blockage due to the damage of bridges and collapse of buildings by an earthquake. It is possible that existing bridges constructed before 1994, when construction standard was established, are not seismic resistant.	С	3	II	 Confirming organizational framework so that responsible organization (Ministry of Urban Development) can proceed with planning and implementation of measures in collaboration with RS, Ministry of Transport and Communication, and Yerevan municipality, for increasing seismic resistance of facilities, in consideration of the result of damage estimation and emergency transportation plan. Designating strategic roads for disaster management, considering emergency transport during an earthquake, and then, formulating a plan for prevent road blockage such as regulating seismic diagnosis and strengthening of bridges on the strategic roads. Clarifying issues on the implementation of the measures on the above-mentioned plan. Formulating a plan for regulating seismic diagnosis of river structures which may cause serious damage due to an earthquake and seismic strengthening of the structures, and then, clarifying issues on the implementation of the measures.
15	Prevention of collapse of retaining walls and block walls	 The walls are stipulated with construction standard, and Yerevan municipality and Ministry of Urban Development are responsible organizations, and Ministry of Transport and Communication has responsibility of walls along roads. It seems that the identification and measures of the walls, which are not compliant to standard or aged, are not carried out. 	D	4	V	 Identifying dangerous walls which may cause damages, and then, confirming the monitoring system of them. Providing possible measures for the dangerous walls.
16	Seismic strengthening	- Ministry of Culture is the responsible organization, and it seems that measures	С	4	V	- Clarifying basic concept and plans on the facilities under control of Ministry of

	of cultural properties	against earthquakes are taken by the ministry.				Culture, and then, providing plan for the promotion of measures as a part of an earthquake disaster management plan.
17	Prevention of landslides and debris flows	 Ministry of Urban Development and Ministry of Emergency Situations are responsible organizations, while Ministry of Transport and Communication has responsibility of landslides etc. which may affect to transport facilities. Landslide areas have been identified, but it seems that measures have not been properly done in consideration of earthquakes. 	D	3	Ш	 Clarifying a responsible organization of each dangerous area due to landslide or debris flow. Confirming basic concept to deal with the dangerous areas through discussion among responsible organizations, which are Ministry of Urban Development, Ministry of Emergency Situations, and Ministry of Transport and Communication. Providing typical measures so that a suitable measure can be taken in accordance with particular condition.
18	Research and study on scenario earthquakes	 SSP is the responsible organization for the prevision of earthquakes and RS - for the assessment of the situation. An earthquake disaster management plan has been prepared for each province. Garni epicenter earthquake is considered to cause the most serious damage to Yerevan City. 	В	3	II	 Confirming scenario earthquakes to be used for damage estimation, based on the results of review of existing data and trench survey of active faults. Clarifying investigation plans and issues for extending research and study in the future.
19	Research and study for damage estimation	 RS and SSP are the responsible organizations. Estimation of damages to buildings and human has been done, and evacuation plans etc. have been prepared, based on the estimation. 	В	2	I	 Conducting detailed damage estimation on a grid cell of 250 m square, based on the results of building survey and population data, following to the calculation of seismic vibration on ground. Clarifying plans and issues for updating in the future, and providing the solution.

Progress	Importance
A: Sufficiently	1: Very high
done	
B: Well done	2: High
C: Done	3: Moderate
D: Little done	4: Low
E: Not done	5: Very low

Priority and I	Basic Concept
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- I: Providing comprehensive and concrete measures, including enhancement measures of promotion function of responsible organizations for the promotion of existing measures and more efficient measures, and then, providing possible solution for the issues on implementation of the measures for prompt implementation.
- II: Providing task and basic concept/overall feature of responsible organization as well as efficient measures for promoting efficient measures, and then, clarifying issues for the prompt implementation of the measures.
- III: Clarifying responsible, implementing, and related organizations and providing basic concept of measures and essential measures for promotion of the measures.
- IV: Obtaining consent on importance and necessity on the matter, and then, clarifying responsible, implementing, and related organizations and their tasks and providing framework of essential measures.
- V: Clarifying responsible, implementing, and related organizations, confirming organizational system which responsible organization monitors the measures done by implementing organizations, and then, expanding awareness of the necessity.

Progress
A: Sufficiently done
B: Well done
C: Done
D: Little done
E: Not done

Importance				
1:	Very high			
2:	High			
3:	Moderate			
4:	Low			
5:	Very low			

		Importance					
		1	2	3	4	5	
	A						
8	В		1, 19	4, 18			
Progress	С	10	7, 8	3, 14	16		
Ь	D		2, 13	5, 11, 17	12, 15		
	Е		9	6			

添付3 避難計画



YEREVAN RESCUE DEPARTMENT OF THE ARMENIAN RESCUE SERVICE OF THE MINISTRY OF EMERGENCY SITUATIONS OF THE REPUBLIC OF ARMENIA

2012	Glinka 13, Yerevan 0010, RA tel. (374-10) 553746, fax (374-10) 552892

To: Mayor of Yerevan city

Mr. T. Margaryan

Dear Mr. Margaryan

Please find attached the draft of the decision of the Mayor of Yerevan city about approving "the plan of population evacuation in case of a severe earthquake in Yerevan city" worked out with the Japanese side within the "Project of Seismic Risk Assessment and Risk Management Planning in the Republic of Armenia".

I am asking for your direction for putting the mentioned draft into circulation in corresponding ministries, departments, departments of the Staff of Yerevan municipality and interested bodies in the possible shortest period and receiving recommendations and comments from them.

For organization the discussions in a more effective way and involving as many participants as possible I suggest that the electronic version of the draft is placed in the official web-site of the municipality.

Please find attached 108 sheets.

With respect

Head

Colonel

M.GHAZARYAN

Drafted by G. Harutyunyan, tel. 55-37-46

DRAFT OF YEREVAN MAYOR'S DECISION No--A

ABOUT APPROVING THE PLAN OF EVACUATION OF POPULATION OF YEREVAN CITY IN CASE OF A SEVERE EARTHQUAKE

For the purposes of enforcing the laws of the Republic of Armenia about "Population Protection in emergency situations", "Seismic protection" and implementing the decision No 919-N of the Government of the Republic of Armenia about "Approving the plan of organization of population protection of the Republic of Armenia in case of a severe earthquake", dated on June 10, 2011, I decide to:

1. Approve

- 1) the plan of organization of evacuation of the population of Yerevan city in case of a severe earthquake according to appendix N 1 with its annexes:
- 2) functional responsibilities of the staff of temporary shelters according to appendix N 2,
- 3) plan of provision of evacuation measures according to appendix N 3,
- 4) form of the information leaflet about evacuation places and routes for the population according to appendix N 4,
- 5) guideline of involvement of volunteers according to appendix N 5,
- 6) methodology of conduct of evacuation exercises according to appendix N $\mathbf{6}$,
- 7) the list of main evacuation routes according to appendix N 7,
- 8) the list of territories envisaged for the deployment of temporary shelters according to appendix N 8,
- 9) form of the application for the provision of outfit, food, technique, lubricants and other material means according to appendix N 9.
- 2. To the heads of all institutions, organization and companies (irrespective of the type of ownership):
 - 1) Work out documents necessary for the organization of evacuation within 12 months and agree them with Yerevan Rescue Department,

- 2) Conduct evacuation exercises at least once a year,
- 3) Carry out the provision of evacuation in permanent cooperation with the heads of administrative districts,
- 4) Make applications on necessary means for complete implementation of measures and submit them to the heads of administrative districts.
- 3. To the directors of hazardous facilities:
 - 1) Recover and keep the population warning means in readiness.
- 4. To the heads of administrative districts:
 - 1) Make a brief application on obtainment, accumulation and maintenance of necessary means based on the applications submitted by organizations,
 - 2) Create additional places for distribution of homeless population by their own decision according to appendix N 10 and submit the documents to the approval by the head of evacuation committee within one month,
 - 3) Provide information about evacuation places by means of population information leaflets,
 - 4) Define the list of secondary evacuation routes by their own decision by the principle of 8 and more meters width of roads and permanently carry out improvement of evacuation routes,
 - 5) Carry out, in case of necessity, reinforcement of buildings along evacuation routes encouraging the owners of buildings to do so,
 - 6) Prepare open spaces for evacuation places,
 - 7) Carry out improvement of facilities in evacuation places.
- 5. To the head of evacuation committee:
 - 1) Organize the involvement of volunteers and establish a responsible body for the coordination of volunteers.
- 6. To the heads of Yerevan city Department of the Police of the Republic of Armenia and Department of Health of the Staff of Yerevan municipality:
 - 1) Provide additional evacuation places with corresponding staff,
 - 2) Organize training of the staff.
- 7. To the head of Communal Service Department of the Staff of Yerevan municipality, director of "Yerevan city lights" CJSC and the head of Construction and Improvement Department of the Staff of Yerevan municipality:

- 1) Provide temporary shelter places with necessary things of life provision,
- 2) Provide lighting and passability of evacuation routes 24 hours a day.
- 8. To the head of Transport Department of the Staff of Yerevan municipality:
 - 1) Conclude contracts with transport companies on provision of transport means,
 - 2) Define permanent control over the exploitation of evacuation routes.
- 9. To the head of Trade and Service Department of the Staff of Yerevan municipality:
 - 1) Conclude contracts with trade and production companies on provision,
 - 2) Secure the policy of "Paying only in case of using",
 - 3) Provide stock flow organization of circulation and replenishment based on the term of smooth supply and maintenance of food, logistics, water and other stock envisaged for the provision of comprehensive evacuation measures,
 - 4) Use distribution places of evacuees as storing places having the head of the given place responsible for it,
 - 5) Work out the list and quantity of necessary food in storing places.
- 10. To the head of Nature Protection Department of the Staff of Yerevan municipality:
 - 1) Prepare temporary shelter places.
- 11. To the head of Center of Management Technologies of Yerevan SCJSC:
 - 1) Create digital evacuation map and update periodically.
- 12. Propose to the:
 - 1) Ministry of Emergency Situations of the Republic of Armenia:
 - a) conduct permanent training of heads of evacuation bodies,
 - b) prepare a group of officials and appoint responsible people for assessing the security of damaged buildings and constructions in emergency situations by means of "Survey of Seismic Protection of MES of RA" based on territorial peculiarities.
 - 2) Director of "Armentel" CJSC:
 - a) provide communication between evacuation bodies,

- b) include the leading staff in the lists of persons to be warned.
- 3) Ministry of Education and Science of the Republic of Armenia:
- a) Plan lessons for the study of evacuation activities and practical implementation in the Section of "Emergency Situations" of the discipline of "Basic Military Training".
- 13. Head of Yerevan Rescue Department of the Ministry of Emergency Situations of the Republic of Armenia:
- 1) Make emendations in the corresponding appendixes of the present decision once a year and, in case of necessity, work out a draft of decision about making amendments and additions,
- 2) Encourage storing by population,
- 3) Organize population training.
- 14. Put the organization of the execution of the present decision on Colonel M. Ghazaryan, the head of Yerevan Rescue Department.
- 15. Put the responsibility of execution of the present decision on the head of evacuation committee of Yerevan.
- 16. The supervision over the execution of the decision is carried out by the Mayor of Yerevan city.
 - K. Areyan
 - S. Makaryan
 - Z. Arakelyan
 - M. Ghazaryan

The draft is made by the Yerevan Rescue Department of ARS of MES of RA

		Appen	aix i
of Decision N of	the mayor of Yerevan city, dated on «_	_» 2	012
	·		
	Plan		
of population evacuation in cas	se of a severe earthquake in Yereva	ın city	

Chapter 1 General Provisions

Section 1 Definition and objective of the plan

- The plan of population evacuation in a severe earthquake in Yerevan City (hereinafter referred as "the Plan") defines the main tasks, organization and order of implementation of measures of population evacuation in Yerevan city in case of earthquake.
- 2. The objective of the Plan is to define the volumes, forces and means of measures, organization and management of population evacuation, activity of involved officials and evacuation bodies, as well as to carry out the proper actions of evacuees at emergency situations through notification of population, based on the regulated ducuments and mechanism.

Section 2 Main concepts used in the Plan

- 3. The main concepts used in the Plan are as follows:
 - Dangerous area location or separate settlement, facility where factors having negative effect on the life, health and natural vital activity of people have been or can be brought about as a result of emergency situations,
 - 2) Safe area an area out of the dangerous territory prepared for the life provision of the local people and evacuees as well as dislocation of animals and material values,
 - Evacuation temporary transfer and distribution of people, animals and material values from dangerous area to a safe one,
 - 4) Evacuation committee (hereinafter referred to as ES) a working group established by the decision of the relevant leader that organizes and manages the evacuation measures of population and organizations of the given area,
 - 5) Evacuation Point (hereinafter referred to as EP) a gathering place for reception and registration of the evacuated population,
 - 6) Reception Point (hereinafter referred to as RP) a gathering place where reception, registration and distribution of the evacuated population is carried out,

- 7) Temporary Distribution Point (hereinafter referred to as TDP) a facility or an area, envisaged for short-term distribution of evacuated population,
- 8) Temporary shelter (hereinafter referred to as TS) territories in the form of tent or container house areas, created in free, green areas or in similar places for distribution of evacuated and homeless people,
- 9) Long-term Settlement Point (hereinafter referred to as LTSP) a facility envisaged for life provision and long-term settlement of the evacuated population,
- 10) Logistical Supply Base an area established near to distribution places of the evacuated population, envisaged for comprehensive provision of population and measures which has necessary forces and means,
- 11) Evacuees assisting bodies bodies having tasks on reception, distribution and comprehensive provision of evacuees, such as EP, TDP, LTSP and TS,
- 12) Unit of Evacuation Area (hereinafter referred to as UEA) an area within 500 m from EP, where affected population is being evacuated for receiving official assistance.
- 13) Evacuation route a road (part of road) connecting the settlement of evacuated population with distribution settlement.
- 14) Reserve flow organization of uninterruptable provision of food, logistic, water and other reserves, envisaged for comprehensive provision of evacuation measures, organization of circulation based on expiration date and organization of replenishment in case of necessity.

Section 3 Legal base of the Plan

4. The Plan is developed by being guided by the Constitution of the Republic of Armenia, law of the Republic of Armenia about "Civil Defence", law of the Republic of Armenia about "Population protection in emergency situations" and law of the Republic of Armenia about "Local self-governing and territorial governing in Yerevan city" as well as other legal acts regulating the field.

Section 4 Bodies involved in the Plan and their functions

- 5. The following bodies are involved in the Plan:
 - 1) Evacuation committee,
 - 2) Evacuees assisting bodies (EAB),
 - 3) Enterprises, organizations and companies (hereinafter referred to as facilities).
- 6. Evacuation committees are established in the following way:
 - 1) Evacuation Committee of Yerevan city by the decision of the Mayor,
 - 2) Evacuation Committee of facility by the decision of the Head of facility,
- 7. The deputy mayor of Yerevan city is appointed as the head of evacuation committee in Yerevan city, and the deputy head of facility as the head of evacuation committee in facility (if there is no such person then the person appointed by the given chief).
- 8. Evacuation committees act in accordance with their charters which are approved by the heads of bodies establishing the committees. The model forms of charters are worked out by the Ministry of Emergency Situations of the Republic of Armenia.
- 9. The Evacuation Committee of Yerevan City was established by Mayor's Decision N 941-A dated on 03.03.2010, which defines the organizational framework of EC of Yerevan city.
- 10. The functions of Evacuation Committee of Yerevan city are given in Appendix 1.

Chapter 2 Preparatory measures for population evacuation

Section 5 Evacuation policy

11. Evacuation is one of the main ways of population protection in case of occurrence of such emergency situations or their direct threat, which may generate factors having negative influence on life, health and natural vital activity of people in certain territories (settlements, facilities). It is carried out by temporary transportation and dislocation of population from dangerous areas to safe ones, according

to the created situation, scopes and readiness of distribution places, time-frame of construction of shelters and other conditions.

12. Population evacuation is envisaged from:

- the settlements and territories, damaged/threatened due to a severe earthquake/aftershock and in dangerous/difficult conditions for living,
- 2) dangerous or threatened areas due to secondary disasters such as inundation due to the collapse of the Yerevan lake water reservoir, landslides, chemical pollution due to accidents in chemically dangerous facilities, radioactive pollution due to accident of ANPP, fires, explosions or accident occurred during transportation of toxic materials.
- 3) infection prone areas due to spread of epidemics, poor hygiene conditions, as a consequence of earthquake disaster.
- 13. The schedule (activities and terms, responsible organizations, etc.) of evacuation activities are given in Appendix 2.
- 14. In case of disasters or their threat, such as chemical hazard, explosion, fire, radioactive hazard, landslide, and transportations, evacuation should be carried out according to corresponding evacuation estimations, developed for each disaster, taking into account the created concrete situation, impact and natural conditions (climatic, meteorological, etc.). The estimation results of number of evacuees in case of chemical hazard and explosion/fire are given in Appendix 4.
- 15. After the earthquake, the actual number of evacuees is estimated depending on situation in the settlement: number of damaged constructions, population possibilities, etc. Pre-estimation results are shown in Appendix 5.
- 16. The provision of evacuation measures and provision of assistance to population is carried out according to the laws of RA and regulations defined by the municipality of Yerevan City, based on preliminary estimations, which are given in the «Plan of life-support».

Section 6 General procedure of evacuation

- 17. Evacuation can be conducted by 3 stages.
 - In the first stage, population evacuates from dangerous areas to EP in a safe area, so that the
 evacuees meet family members, register and receive information for further action as well as first
 aid,
 - 2) In the second stage, population evacuates from EP to TDP, so that the evacuees receive official supports for short-time sheltering,
 - 3) In the third stage, in case of the protracted emergency situations or impossibility of returning to the permanent place of residence, population is transferred from TDP to TS or LTSP, so that the evacuees receive official supports for long-term sheltering.
- 18. For each category of reception of evacuees the standard of the distance, service duration and assistance are given in Appendix 2. The candidates of EP and TDP are selected beforehand. The functions and activity of each EP are as follows:
 - 1) The population is gathered in EP, registered and distributed to TDP, if the latter is confirmed to be safe. One EP is designated for one UEA, so that reception and necessary assistance of suffered people can be done easily. Registration of missing persons and information on them are also done at EP. People who has own way of evacuation without official assistance, is also recommended to report about own evacuation at EP, so that official information, such as announcement on compensation for damages, reaches to all. The registered record is also utilized to avoid unnecessary search activities in residential buildings which residents have been evacuated.
 - 2) Is provided in TDP for provision of official assistance and short-time sheltering. Basically, territories of schools, stadiums and constructions of official administration are designated to be TDP. For one evacuee a space of 1 m² is principally allocated in TDP. Additional places can be created by means of tents deployed in TDP. In case of evacuation from other areas the EP can also be used as a TDP after the safety confirmation.

- 3) Shelters and supports for long-term settlement are provided at LTSP, such as sanatoriums, polyclinics, resort centers, holiday facilities, tourist facilities, hotels, etc., envisaged by the Appendix 16 of the Government Decision 919-N.
- 19. Population can be evacuated by pedestrian columns, by car columns or other transportation means. Evacuation to EP and TDP should be done on foot. Transportation to LTSP and TS can be carried out by car columns, based on the arrangement of the Evacuation Committee. Using private vehicles is not encouraged, since it may disturb the transportation of victims, search activities, provision of supporting materials, etc.
- 20. The roads with the width of more than 8 meters are used as main evacuation routes, except the route to EP. Evacuation routes are selected beforehand and their improvement, placement of sign boards and strengthening of nearby buildings are continually done. Construction and renovation of buildings along the routes should be strictly controlled and maximum rate of passability in case of collapse of all the buildings should be secured. During evacuation, the routes are selected based on the situation.
- 21. In case of impassability of main evacuation routes they are changed by secondary routes or bypass roads by the decision of the head of column or superior.
- 22. Homeless population is provided with shelters in the following ways:
 - In case of decentralized distribution, homeless population is distributed to live in houses fit for living – their own houses, jointly or separately,
 - in case of distributing the people in camps, homeless population is taken to tents, establishing tent or container house camps,
 - 3) collective distribution is carried out by means of distributing the homeless people in public buildings located outside the destruction zone for which an evacuation of population from destroyed zones to safe areas is envisaged.
- 23. Evacuation and provision of homeless population of Yerevan city with shelters are organized

according to administrative districts. Intermediate points of population evacuation are established under the population protection coordination centers established in each administrative district. The population is transferred from those points to reception settlement.

Section 7 Preparation activities

- 24. The preparation of EP is done by the head of each EP (mostly school principals), under the management and supervision of the Evacuation Committee. The preparation of EP includes the followings:
 - Implementation of the policy confirmed by the Evacuation Committee as well as cooperation with related organizations.
 - 2) Organization of internal management and determination of responsible staff for the following functions:
 - a) Receiving and disseminating the information from outside, such as the Evacuation Committee and TDP, as well as recording the information exchange,
 - b) Creating and controlling registries of evacuees and missing persons
 - c) Distributing water, etc.
 - d) First aid and securing sanitation
 - e) Maintaining public order, safety
 - f) Anti-fire measures and fire-fighting.
 - 3) Selection of the candidates of rooms or spaces for evacuees and management
 - 4) Preparation/maintenance or the procedure of the procurement of devices/materials for communication with the outside as well as for the inside of EP
 - 5) Stockpiling and refreshing of medicine, water, etc.
- 25. The preparation of TDP is done by the head of TDP, whom the Evacuation Committee appoints. The preparation of TDP includes the followings.

- Implementation of the policy confirmed by the Evacuation Committee as well as cooperation with related organizations.
- 2) Organization of internal management and determination of responsible staff for the following functions:
 - a) Receiving and disseminating the information from outside, such as the Evacuation Committee and EP, as well as recording the information exchange,
 - b) Communication and arrangement on registration of evacuees and missing persons with EP,
 - c) Reception and regulation of inquiry/ demands/ complaint/ message from outside and inside the TDP,
 - d) Allocation of area for each evacuee and arrangement of related issues,
 - e) Consultation on medical and psychological issues and cooperation with medical institutes on the dealing of patients
 - f) Request/ reception/ distribution of water, food and other supporting materials
 - g) Securing social security and fire protection
 - h) supervision of sanitary conditions
 - i) Reception and allocation of volunteers
 - j) Recording of actions and keeping the records
- Preparation of a schematic plan on the locations of tents for evacuees as well as for implementation and management of actions.
- 4) Preparation/maintenance or the procedure of the procurement of devices/materials for communication with the outside as well as for the inside of TDP.
- 5) Management and refreshing of stockpiled materials and clarification of procurement process of supporting materials.
- 26. In each LTSP and TS, preparation measures are always being executed for increase of preparedness,

which include tasks on urban development, planning, supervision and encouragement. Those measures are:

- Improvement of evacuation routes: definition of strategic roads, optimization of evacuation routes, permanent improvement and maintenance of technical condition and passability are being implemented.
- Reinforcement of buildings along the evacuation routes: investigation of buildings, teardown or reinforcement of dangerous parts are being implemented to avoid their collapse and securing passability of the routes.
- 3) Preparation of open areas for evacuation places: investigation of existing free (green) areas and planning of distribution of evacuated population to those places are being implemented.
- 4) Improvement of facilities in the evacuation places: investigations and measures are taken in the planned areas for improvement and maintenance of conditions of life support and distribution of population.
- 5) Training and education of staff: training and education to staff are done for smooth and proper fulfillment of the given tasks, according to annual schedule of civil defense.
- 27. Detailed evacuation plan should be prepared beforehand and updated every year in all facilities. The plan may be a part of civil defense plan, and should include:
 - the order and terms of implementation of population evacuation, as well as forces and means provided for evacuation bodies and evacuation routes,
 - 2) works in evacuees assisting bodies and evacuation routes,
 - 3) calculation of evacuation for each transport vehicle type and evacuation route,
 - 4) regulation of organization of distribution of evacuees and provision of water, food, and necessary materials,
 - 5) the order of removal of material and cultural values.

Section 8 Public awareness on evacuation

- 28. Since the damage by a severe earthquake is so huge, that official assistance may not reach to all the victims, the population should take action by their own decision. Awareness and knowledge of population should be raised for the proper action through dissemination of information on the following way.
 - The Evacuation Committee regulates and organizes dissemination of necessary information to population, in cooperation with Ministry of Emergency Situations, Ministry of Education and Science, and Department of Education of Yerevan municipality.
 - 2) Main items of information to be provided are shown.
 - 3) The necessary information is disseminated through the Crisis Management State Academy of RS, Emergency Channel, schools, companies, media (TV, radio, Internet, newspaper, magazine, poster), etc.
- 29. Public education and training on evacuation is managed by the Ministry of Emergency Situations. Yerevan municipality, districts of Yerevan City, schools, companies and other related organizations prepare plans on civil defence issues, including education. The Crisis Management State Academy of RS, Emergency Channel, Ministry of Education and Science and other organizations prepare education materials.

Chapter 3 Organization and implementation of population evacuation

Section 9 Deployment of evacuees assisting bodies

- 30. In case of a severe earthquake evacuees assisting bodies are established as follows:
 - Basically, the establishment of evacuees assisting bodies is decided by the head of the Evacuation Committee.
 - 2) According to the decision, the head of evacuees' assisting body organizes all necessary actions for the establishment and operation of corresponding body.

- 3) In case that "Information" on threat of emergency situation is issue by the head of the Evacuation Committee, the head and staff of EP should start the deployment. Residents make decision of evacuation by themselves in that case. Even if the deployment of EP has not been completed, reception of population should not be rejected. After the issuance of "Recommendation" the deployment of TDP should be started, and after the announcement of "Order" the LTSP and places envisaged for TS should be brought to readiness and the supporting system should be immediately deployed.
- 4) The safety of the building is confirmed by the decision of corresponding responsible person or incase of his absence by the decision of the head of mentioned body before deployment of evacuees assisting bodies.
- 5) In case that the decision of deployment does not reach to the head of evacuees assisting body, he can issue own order of deployment, receive the evacuees and report to superior, based on necessity.
- The decision for termination of activity of evacuees assisting body is made by the head of the Evacuation Committee, in case of transferring the evacuees to permanent settlement or other place based on distribution terms.

Section 10 Reception of evacuees

- 32. Population evacuation is carried out from EP where evacuees arrive autonomously or upon hearing the signal (warning) of evacuation by means of sirens, loudspeakers and so on.
- 33. Each evacuee is recommended to:
 - 1) have ID, water and food for three days and other necessary goods,
 - cut the electricity and gas of the house or apartment and move fire and explosion prone materials and objects to safe places,
 - 3) fulfill the instructions and assignments of heads of EP and columns during evacuation.
- 34. If evacuation is carried out from other areas, the EP can also serve as TDP.

Section 11 Provision of evacuation measures

- 35. The provision of evacuation measures is carried out by forces and means of republican executive bodies, territorial governing bodies, local self-governing bodies and other official bodies and organizations according to their charters.
- 36. Information on damage, assistance, communication means, medical service and sanitary conditions are provided to evacuees and people in hazardous areas. Life provision of evacuees in evacuation places is carried out according to "Life provision plan of population evacuation of Yerevan city".
- 37. Information on damage and necessary assistance is collected by means of reconnaissance and disseminated with the help of communication means as follows.
 - 1) Damage reconnaissance
 - a) The responsible persons are the Mayor of Yerevan and the head of Yerevan City Rescue Department.
 - b) A general and specialized reconnaissance is carried out.
 - c) The reconnaissance is organized and the assessment of the results is conducted by Yerevan Rescue Department together with the appropriate departments of rescue department of MES RA, lifeline companies, etc., according to the reconnaissance groups, tasks of circles and given working zones.
 - d) The responsible persons decide the order and time of reports on the assessment results of the reconnaissance.

2) Communication flow and means

- a) Communication supply is implemented during evacuation with the assistance of the Yerevan
 Communication and Warning Service, according to the organizational scheme of communication.
- b) In the evacuation committee, communication is organized in the following way.

- Direct telephone connection with the Evacuation Committee and the heads of administrative districts of the city,
- Telephone connection with the Evacuation Committee and the heads of evacuees receiving bodies,
- with formations with mobile and telephone and other means of connection.
- c) The warning of population is organized with a centralized way by the use of warning system: horn, radio and television, as well as through the forces of evacuees receiving bodies by the use of loudspeakers, telephone connection and portable means of communication.
- 3) Order of warning to the Evacuation Committee is issued by the head of the Evacuation Committee according to the warning scheme. Warning to the population is carried out through the Communication and Warning Service of Yerevan, as well as through all possible communication means, including media. There is a need of conclusion of pre-agreement with the latter. In case that the committee does not function due to damage, the heads of the Districts, Crisis Management Center or Ministry of ES will announce. In these cases, the contents of the announcement should be transferred to the Evacuation Committee and Crisis Management Center at the same time, so that the announcement should be concordant with other announcements made in National level. The three steps of warning (Information, Recommendation, and Order) are announced to the population as follows.
 - a) "Information" on evacuation is announced, even before the collection and analysis of damage information by officially authorized body. The information (such as seismic intensity obtained with real-time seismic intensity display system and evacuation places shown in this plan as well as damage information so far as collected) should be announced so that victims can take actions by themselves without a panic, even if the authorized organizations don't supervise the situation completely and there are possibilities of heavy damages.
 - b) "Recommendation" on evacuation is announced in the course of collecting damage

information. Although analysis of damage information has not been completed, the "Recommendation" is announced to formulate reception system for proper response to evacuees at reception points, in case that certain damages are foreseen and some people seem to wish to evacuate autonomously. In case of severe earthquakes, it is possible that the "Recommendation" can be announced at the same time of announcement of "Information".

- "Order" on evacuation is announced, when the situation is analyzed and clarified. The announcement is made in such case that it is judged necessary to response by all related organizations and responsible people for rescuing the victims.
- 38. Securing of maintenance of public order is being implemented by RA Police Yerevan Department with its subdivisions and includes the following measures:
 - 1) implementation of access control;
 - 2) implementation of selective control of transport means involved in the evacuation measures;
 - 3) support to the persons responsible for evacuation for the purpose of mobilization of transport means for taking out the people from dangerous zone during minimum period;
 - 4) maintenance of public order and security ensuring in all the phases of evacuation;
 - 5) protection of facilities;
 - 6) regulation of road traffic;
 - 7) convoy for motorcade transporting the evacuees;
 - 8) securing transport vehicle entrance regime in the dangerous zone;
 - 9) struggle against the crime;
 - 10) address-information work (creation of information book on distribution of evacuees);
 - a) implementation of measures aimed at prevention of panic and mass riots;
 - b) implementation of patrol service in the evacuated places;
 - c) protection measures of passability of evacuation routes and property and facilities remained in the evacuation settlements (areas);

- d) report of information to population and instruction on mode of action is also implemented during evacuation with cooperation with YRD.
- 39. Medical provision includes organizational, medical, sanitary-hygienic and anti-epidemic measures carried out by organizations of healthcare. Medical provision measures are being executed by Healthcare Department of Personnel of Yerevan municipality by the forces and means of medical institutions of the capital. The following measures of medical provision are being implemented during the execution of evacuation.
 - 1) creation of medical points and organization of duty of staff in the reception points of evacuees;
 - 2) organization of service of patients;
 - 3) permanent control over sanitary condition;
 - 4) periodical study of anti-epidemic state, detection of patients and implementation of other measures;
 - 5) provision with medical means.
- 40. The hygienic and anti-epidemic control of the territory of City is being implemented by regional subdivisions of the state anti-epidemic control inspection of the Ministry of Healthcare and appropriate institutions of Yerevan laboratory observation system. Sanitary groups are also being formed for transportation of dead and sanitary treatment in burial places.
- 41. Transport provision is a complex of measures, which includes preparation, distribution and exploitation of transport vehicles envisaged for transportations of evacuation. Transport provision of evacuation measures is being implemented by Transport Department of Yerevan Municipality, according to submitted application. All types of passenger vehicles may be used for evacuation of population. Other transport vehicles may also be used in case of necessity, which must be fitted for transportation of people beforehand. Evacuation includes all the transport means (regardless of property type), including municipal transport. Special vehicle formations are being created for organized implementation of vehicle transportations. Personal vehicles are also being involved in the

works by agreement of owners. The following transport provision measures are implemented during evacuation:

- 1) for transportation of material means, life provision and population;
- 2) for transportation of individual protection means from mobilization storehouses to distribution points.
- 42. Department of Trade and Services of Yerevan Municipality provides food, water, clothes, linens and shoes to evacuees through trade entertainment networks, food facilities and foodstuff, goods and water supplying mobile points, created on their basis. Food provision includes provision to population and formations during the evacuation. It can be implemented both from public food facilities and deployed and mobile supply points. Provision of food, water and goods of first necessity is implemented according to quantities defined by life-support plan.
- 43. Trade Department of Yerevan Municipality implements also the logistics provision, which includes organization of technical service and repair of transport vehicles, supply of spare parts, fuel-lubricant materials and goods during evacuation. Supply points are being created for the purpose of logistic provision, which implement provision of means and forces.
- 44. Securing of evacuation routes is being implemented by Architecture Department of Personnel of Yerevan Municipality and is aimed for creation of necessary conditions for evacuation of population from dangerous zone, and includes the following measures.
 - Engineering exploration, during which the state of roads, buildings, bridges and passages are being clarified,
 - 2) Provision of passability of evacuation routes and roads,
 - 3) Implementation of accident-recovery works of damaged bridges of high importance,
 - 4) Provision of the affected with temporary shelters construction of residential buildings by means of rapid construction,
 - 5) disassembling of constructions with risk of breakage in the rescue operation sites, support to the

operations of taking the victims out from damaged or collapsed buildings (cooperating with rescuers);

Section 12 Management of evacuation

- 45. Planning and organization of the evacuation of population, distribution of evacuees, comprehensive life-support and their return to places of permanent residence after elimination of emergency situations are implemented by the state governing territorial and local self-governing bodies by means of evacuation committees.
- 46. The evacuation committee decides organizations and population to be involved and their definite tasks in the implementation of evacuation measures.
- 47. Action plans are formulated for accelarating the implementation of measures, after selection of important issues among the issues such as the opening of evacuation points, the reconnaissance/analysis of situations, the distribution of evacuees, special care for weak persons, the preparation of the lists of evacuees, the collection of the needs of evacuees, coordination works with related public officials/mass media, the provision of information (damage, situation, countermeasures, implementation policy, recovery of life support, etc.), the maintenance of appropriate sanitary conditions, medical service, the distribution of food and goods through cooperation with appropriate public authorities,, the reception of volunteers, the resolution of disagreements/disputes among evacuees, the preparation of various forms, etc.

48. Evacuation guidance

- Although the "Information" about the evacuation is declared immediately after a severe earthquake, it is possible that official assistance is not available for guiding the evacuation.
 Population who intend to get evacuated can be evacuated by own decision. For smooth and safe evacuation, population should have knowledge and skills through education and training.
- 2) Police guidance for security during evacuation will be conducted together with the traffic control.

- In case that the number of police persons is not enough for large-scale damages, police persons will be dispatched to main evacuation routes.
- 3) Officials at EP should guide the evacuees while moving from EP to TDP. The guiding includes the location of TDP confirmed to be safe, the route taking to TDP, necessary information on security while moving, assistance provided at TDP, etc.
- 49. Volunteers are also involved in evacuation activities and response/recovery operations.

Chapter 4 Recovery

Section 13 Temporary shelters

- 50. Temporary shelters are being built and distributed to homeless people to provide better living conditions than that in camps.
- 51. For this purpose, the implementation of life-support measures is also being organized, and at the same time, measures are being taken for solution of employment, education, and other issues.
- 52. Temporary shelters are operated until the provision of permanent residential places to evacuees.

Section 14 Recovery measures

- 53. Measures being implemented for recovery can be conditionally divided to 3 phases:
 - 1) Preparation,
 - 2) Implemented during evacuation,
 - 3) Measures for final distribution of population.
- 54. Preparatory measures are:
 - 1) Increase of preparedness of administrative bodies,
 - 2) Technological equipment of MCES,
 - 3) Improvement of 3 levels of warning,
 - 4) Building reinforcement program,

- 5) Improvement of plans,
- 6) Increase of free (green) areas,
- 7) Distribution of water supply capacity
- 8) Creation of warehouses and optimal distribution,
- 9) Construction and maintenance of roads.
- 55. Measures being implemented during evacuation are:
 - 1) Construction of temporary shelters,
 - 2) Comprehensive provision.
- 56. Measures aimed for final distribution of population
 - 1) Recovery of damaged buildings,
 - 2) Construction of new buildings,
 - 3) Full recovery of life-support system,
 - 4) Other actions aimed at recovery of social, psychological situations, which will be implemented with the help of other recovery plans.

Appendices:

- a. Appendix No.1 of the plan: functional responsibilities of evacuation bodies,
- b. Appendix No.2 of the plan: schedule of the plan,
- c. Appendix No.3 of the plan: information on distribution places of the reception bodies of evacuees,
- d. Appendix No.4 of the plan: calculation of population evacuation in case of accident in explosive, fire-explosive, fire-prone and chemically hazardous facilities or its threat,
- e. Appendix No.5 of the plan: number of evacuees after an earthquake according to terms.

Appendix 1 of population evacuation plan in case of a severe earthquake in Yerevan city

FUNCTIONAL RESPONSIBILITIES

of evacuation bodies of Yerevan city

Yerevan 2012

TASKS OF EVACUATION BODIES

- 1. Elaboration of population evacuation plan together with YRD of RS of MES of RA,
- 2. Elaboration of measures aimed at protection and comprehensive provision of evacuees together with Civil Defence services,
- 3. Organization of preparation of administrative staff of evacuation and reception points,
- 4. Clarification of population evacuation plan and measures of comprehensive provision,
- 5. Organization of preparation of pedestrian evacuation routes,
- 6. Supervision over preparation of reception points of evacuees.

After receiving order on the implementation of population evacuation

Evacuation body:

- 1. Organizes the deployment of evacuation points,
- 2. Compiles and summarizes data about departure/arrival and reports to the superior evacuation committee about population distribution,
- 3. Organizes protection and comprehensive provision of leaving/arriving population together with relevant services.

TASKS OF ADMINISTRATIVE STAFF OF EVACUATION POINT

- 1. Organization of gathering, registration and dispatch of population to distribution points by means of transport and on foot,
- 2. Reporting the quantity and periods of arrival/departure of population to the evacuation committee,
- 3. Organization of the first medical aid to the population in the gathering point,
- 4. Maintenance of public order and population sheltering.

TASKS OF RECEPTION POINTS OF EVACUEES

- 1. Meeting of the arriving trains, car and pedestrian columns and provision of dropping off the population together with the administrative staff of drop off point,
- 2. Organization of temporary placement of people in the nearby residential areas,
- 3. Sending of population to permanent settlement places,
- 4. Reporting the quantity and periods of arrival/departure of population to the regional /city/ evacuation committee.
- 5. Organization of provision of the first medical aid to the population,

- 6. Maintenance of public order and population sheltering by means of Civil Defence signals.
- 7. Meeting of the arriving trains, car and pedestrian columns and provision of reception, registration and distribution of population together with the administrative staff of drop off point.

THE RESPONSIBILITIES OF THE HEAD OF PEDESTRIAL EVACUATION COLUMN OF POPULATION

- 1. The head of pedestrian column is appointed by the order of the head of civil defence of evacuation point /facility/.
- 2. The main task of the head of pedestrian column is to keep order and self-discipline in the column, provide the procession of the column by the given route and passing through exit point in time.
- 3. The head of pedestrian column is accountable to the head of civil defence staff, the representative of evacuation body and head of evacuation point.
- 4. The head of pedestrian column has to:
- a/ know population mix and number in the column before receiving an order about the implementation of evacuation, divide the column into groups by the list, appoint chiefs of group and study the route beforehand.

b/ after receiving order about the implementation of evacuation:

- Gather in the evacuation point within the defined time-period and form the column together with its administrative staff,
- Receive an excerpt from the procession scheme and the list of evacuees from the head of evacuation committee,
- Arrange the column for departure within the mentioned period, report to the head of the route and start moving along the route with his permission,

c/ during procession:

- Take the column by the mentioned route securing the passing through the control point within the defined time-period,
- Keep discipline and order in the column during procession and in the stopping places, take measures for gathering the people left behind and assisting the sick,
- Inform the evacuees about the signals "Air-raid alarm" or "Attention to everybody" immediately after receiving them and take measures for people's sheltering,
- In case of a threat of radiation contamination hide people in place or take them out to safer areas by the instruction of the head of the route,

d/ report the structure and number of people in the column to the local evacuation committee and take part in the works of distribution of people upon reaching the gathering point.

THE RESPONSIBILITIES OF THE HEAD OF MOTORCADE EVACUATION OF POPULATION

- 1. The head of motorcade is appointed by the order of the head of civil defence of evacuation point and is accountable to the head of civil defence staff.
- 2. The head of motorcade is responsible for keeping order among the population being transported.
- 3. The head of motorcade has to:

a/ before receiving order about the implementation of population evacuation:

- Check the structure and number of population to be transported, decide the types and number of cars to be provided, gathering point, boarding place of people, evacuation route, drop off point, transportation rules, safe area for their distribution
- Appoint chiefs in each car and give instructions to them,

b/ after a decision is made about evacuation the head of evacuation point provides:

- The list of population to be transported by motorcade,
- Arrive at gathering point in time and check the number of people, their distribution by cars and organize their boarding together with the authorities of the gathering point,

c/ keep the order and rule of transportation along the route,

d/ secure the organized drop off of people after arriving at the point of destination.

The head of motorcade should take the evacuees to the reception point and submit the document to the local evacuation committee.

THE RESPONSIBILITIES OF THE HEAD OF THE ROUTE OF PEDESTRIAL EVACUATION OF POPULATION

- 1. The head of the route is appointed by the decision of state governing and local self-governing bodies.
- 2. The main tasks of the head of the route are as follows:
 - Securing management,
 - Keeping public order and arranging people's movement,
 - Providing the guidance of evacuees to the final evacuation points within the defined timeperiod together with local evacuation bodies,
- 3. The head of the route is accountable to the head of Civil Defence and evacuation bodies.
- 4. The head of the route has the right to control the implementation of activities of the preparation of the route, provision of evacuees as well as the measures aimed at distribution of the evacuees in the final evacuation points envisaged by civil defence plans.
- 5. The head of the route has to:
 - Study the route and scheme of pedestrian column in advance,
 - Divide the route into parts between management groups,
 - Get the scheme of the route from the corresponding civil defence staff after a decision is made about evacuation, give tasks to the groups in charge and allocated forces and supervise the implementation of the mentioned,
 - Supervise the order of providing medical assistance to the evacuees,
 - Organize radiological and chemical observations,

- Be in touch with pedestrian columns and motorcades, reception points of evacuation and organize the warning along the route.
- Inform the columns about the signals "Air-raid alarm" or "Attention to everybody" immediately after receiving them by any means of communication and take measures for people's sheltering.

THE STRUCTURE OF EVACUATION COMMITTEE

- 1. Head of the Committee, Deputy Head of Civil Defence
- 2. Deputy Head of the Committee
- 3. Secretary of the Committee
- 4. Representatives of Civil Defence services:
 - Warning and communication
 - Public order maintenance
 - Medical
 - Engineering
 - Communal technical
 - Energetics
 - Transport
 - Trade and service
 - Population and environment protection
- 5. Heads of working groups of the Committee
 - Head of registration group of removal of population from dangerous area

Deputy Head of the group Chief guide

Guides by directions (of administrative districts)

- Head of registration group of distribution of population in a safe area

Deputy Head of the group

Chief guide

Guides by directions (of administrative districts)

- Head of transport provision group

Deputy Head of the group responsible for transfer of evacuees

Deputy Head of the group responsible for transportation of cargos,

Assistant to Head of the group responsible for the use of means of transport,

Assistant to Head of the group responsible for the use of railway transport,

Assistant to Head of the group responsible for the use of air transport,

- Head of registration group of reserve for food and material values,

Deputy Head of the group

Assistant to Head of the group responsible for taking out the food reserve

Member of the group

Member of the group

- Head of registration group of removal of hospital staff and patients into the safe area

Deputy Head of the group

Assistant to Head of the group responsible for taking out the hospital staff subject to evacuation

Assistant to Head of the group responsible for taking out the patients subject to evacuation

of the head of the Evacuation Committee

The head of the Evacuation Committee is responsible for the organization of complex measures aimed at taking the population out of the possible disaster zone as well as distribution of evacuees in safe areas – TDPs (temporary distribution means) provided with primary life provision means

The head of the Evacuation Committee is accountable to the Head of Civil Defence. He bears a responsibility for the full-scale and in-time implementation of tasks set before the evacuation committee.

He has to:

- 1. Know the members of the evacuation committee as well as the heads of subordinate evacuation committees and evacuation points,
- 2. Know the tasks put on the evacuation committees during the implementation of evacuation measures in case of all possible emergency situations,
- 3. Participate in the development and clarification of the main documents referring to population evacuation,
- 4. Know the number of population subject to evacuation, periods of implementation of evacuation measures, the number of cars and other means of transport involved in evacuation for transportation,
- 5. Carry out periodic methodical trainings with the staff of the evacuation committee aimed at studying the documents referring to evacuation plans, planning and implementation of evacuation activities.

1. In case of a threat of an emergency situation

- 1.1 Go to the Head of Civil Defence,
- 1.2 Organize the warning and gathering of the staff of evacuation committee in the set period,
- 1.3 Clarify the working schedule of the staff of evacuation committee and give tasks to the subordinate evacuation and evacuees' reception committee to have all the evacuation bodies of the capital ready for operations,
- 1.4 Establish a communication with subordinate evacuation bodies and transportation organizations,
- 1.5 Clarify the plan of evacuation committee and calculations of distribution of means of transport,
- 1.6 Organize the preparation of evacuation routes, TDPs, LTSPs and boarding points, installation of sign boards,
- 1.7 Organize the checking of readiness of communication and warning systems,
- 1.8 Set 24 hours duty service of the leading staff in all the evacuation bodies,

- 1.9 Receive the reports of subordinate evacuation bodies about their state of readiness and report to the head of civil defence.
 - 2. In case of implementation of evacuation activities
- 2.1 Go to the head and clarify the tasks of evacuation committee during the implementation of evacuation activities,
- 2.2 Organize the gathering of the members of evacuation committee, clarify their tasks and give instructions to subordinate evacuation and transportation bodies (in accordance with the plan and the evaluation of the current situation created in the disaster zone) for the implementation of population evacuation,
- 2.3 Bring all the evacuation bodies into readiness and establish a permanent communication with them,
- 2.4 Organize the gathering of the population subject to evacuation, their preparation and transfer to safe areas.
- 2.5 Control the in-time delivery of means of transport to the boarding points,
- 2.6 Organize the primary life provision of shelterless population,
- 2.7 Organize the collection of data about the process of population evacuation and population distribution in the envisaged safe territories,
- 2.8 Organize the provision and protection of evacuees during the inter-cooperation with civil defence services of the capital,
- 2.9 Report the head of civil defence about the process of evacuation activities within the time-period mentioned in the card of schedule.

of the deputy head of evacuation committee

Deputy Head of the evacuation committee is accountable to the head of the committee and if the latter is absent the deputy head fulfills the head's responsibilities with full scale. During the implementation of evacuation activities he becomes the direct chief of the whole staff of the evacuation committee.

He has to:

- 1. Know the members of the evacuation committee as well as the heads of subordinate evacuation committees and evacuation points,
- 6. 2. Know the order of warning of the committee members and the tasks put on the evacuation committee during the implementation of evacuation measures,
- 3. Participate in the development and clarification of the plan of population evacuation together with the heads of committees.

- 4. Participate in the development documents of the evacuation committee,
- 5. Prepare the management of evacuation bodies, systems of communication and warning together with the head of evacuation committee and keep them in permanent readiness,
- 6. Know the number of population subject to evacuation, periods of implementation of evacuation measures, the number of means of transport involved in evacuation for transportation,
- 7. Work out activities aimed at provision of evacuees with food, water, electricity and staples during the inter-cooperation with civil defence services.

1. In case of a threat of emergency situations

- 1.1 Organize the warning of the staff of evacuation committee, control their gathering and report to the head of evacuation committee,
- 1.2 Prepare orders and deliver their implementation to the executors and supervise the implementation process on behalf of the head of evacuation committee,
- 1.3 Supervise the obligations of subordinate evacuation bodies,
- 1.4 Organize 24 hours duty service in the working bodies of the evacuation committee,
- 1.5 Organize reception of individual protection means for the staff of evacuation committee,
- 1.6 Participate in the clarification of the evacuation plan in case of specific emergency situations.

2. In case of implementation of evacuation activities

- 2.1 Gather the members of evacuation committee and report to the head of the committee,
- 2.2 Prepare orders and deliver their implementation to the executors and supervise the implementation process on behalf of the head of evacuation committee,
- 2.3 Check the availability of communication with transportation services of civil defence and subordinate evacuation bodies,
- 2.4 Check the readiness of evacuation bodies to participate in evacuation activities and report to the head of the committee,
- 2.5 Control the delivery of means of transport to the boarding places,
- 2.6 Control the gathering of population subject to evacuation, preparation of transportation and transportation to safe areas,
- 2.7 Generalize the data received from subordinate evacuation committees about the process of evacuation, reception and distribution of evacuees and report to the head of the committee,
- 2.8 Know the created situation and inform the members of the committee,
- 2.9 Prepare a summary sheet about the process and completion of evacuation activities within the time-period mentioned in the card of schedule.

FUNCTIONAL RESPONSIBILITIES of the Secretary of the Evacuation Committee

The Secretary of the evacuation committee is accountable to the head and deputy head of the committee. The secretary delivers the information, recommendations and orders of different

characters to the staff of evacuation committee and subordinate evacuation bodies by the instruction of the head and deputy head of the committee.

He has to:

- 1. Know his responsibilities, the organizational structure of the evacuation committee and the tasks set before the committee,
- 2. Know the distribution places and the order of warning of subordinate evacuation bodies,
- 3. Participate in the development of the documents of the evacuation committee,
- 4. Report to the head of the committee about the resignation of a member from the evacuation committee and take measures to reman the staff of the committee.

1. In case of a threat of emergency situations

- 1.1 Receive the documents of the evacuation committee,
- 1.2 Check the gathering of the committee members and report to the head,
- 1.3 Prepare the order of the head of the evacuation committee for subordinate evacuation bodies,
- 1.4 Receive individual protection means and distribute among the committee members,
- 1.5 Check the readiness of the evacuation committee and report to the deputy head of the committee,
- 1.6 Check the estimation of sheltering and the order of bringing into readiness of the staff of the evacuation committee, actions of the staff in case of the signal "air-raid alarm" and deliver the mentioned items to the committee members and staff of working groups,
- 1.7 Keep the registers of received and issued orders, decrees and internal documents.

2. In case of implementation of evacuation activities

- 2.1 Check the gathering of the committee members and report to the deputy head of the committee,
- 2.2 Prepare the order of the head of evacuation committee and deliver to the subordinate evacuation bodies.
- 2.3 Keep the registers of received and issued orders, decrees and internal documents.
- 2.4 Collect and generalize the data of subordinate evacuation bodies about population evacuation, the process of reception and distribution of evacuees together with the head of the registration group of removal of population from dangerous area,
- 2.5 Know the condition of the evacuated population as well as provide them with food and staples,
- 2.6 Know the capacities of all the TDPs and LTSPs and be in permanent contact with them,
- 2.7 Report to the head of evacuation committee about the received alarms, orders and internal documents in time.

FUNCTIONAL RESPONSIBILITIES

of the head of the registration group of removal of population from dangerous area

The head of the registration group of removal of population from dangerous area is accountable to the head and deputy head of the evacuation committee. He is the direct head of the staff of the group.

He has to:

- 1. Know the staff of the group and their tasks,
- 2. Have the staff list of the group, know the order of warning and gathering of the staff of the group,
- 3. Know the number of population subject to removal from the dangerous area and the order of their registration,
- 4. Have necessary information about the quantity and distribution places of TDPs and LTSPs,
- 5. Have the calculations of population evacuation in case of prevision of different types of emergency situations,
- 6. Have the calculation of means of transport envisaged for evacuation activities,
- 7. Conduct trainings with the staff of the group aimed at fulfillment of their functional responsibilities,
- 8. Participate in the development of population evacuation plan,
- 9. Participate in practical trainings and exercises conducted with the staff of registration group of removal of population from dangerous area,

1. In case of a threat of emergency situations

- 1.1 Carry out the warning and gathering of the staff of the group and report the results to the secretary of the evacuation committee,
- 1.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 1.3 Receive the individual protection means and distribute them among the group members,
- 1.4 Establish a communication with subordinate registration groups of removal of population from the dangerous area,
- 1.5 Know the situation and deliver the necessary information to the subordinate officers in time,
- 1.6 Check the readiness of registration groups of removal of population from the dangerous area of the communities of the capital to participate in evacuation activities and report to the head of the evacuation committee,
- 1.7 Manage the works of the staff of the group permanently,
- 1.8 Organize the duty service of the staff.

2. In case of implementation of evacuation activities

- 2.1 Organize the gathering of the staff of the group and report to the secretary of the evacuation committee,
- 2.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff.
- 2.3 Organize a supervision over the process of implementation of evacuation activities and prepare a brief information about the results of evacuation activities,
- 2.4 Prepare a report about the process of evacuation activities for the head of the evacuation committee together with the secretary of the committee.

of the head of the group of registration of population in a safe area

The head of the group of registration of distribution of population in a safe area is accountable to the head and deputy head of the evacuation committee. He is the direct head of the staff of the group.

He has to:

- 1. Know the staff of the group and their tasks,
- 2. Have the staff list of the group, know the order of warning and gathering of the staff of the group,
- 3. Know the number of population subject to distribution in safe areas and the order of their registration,
- 4. Have necessary information about the evacuation bodies of the community and capital quantity and distribution places of TDPs and LTSPs,
- 5. Conduct trainings with the staff of the group aimed at fulfillment of their functional responsibilities,
- 6. Participate in the development of population evacuation plan,
- 7. Participate in practical trainings and exercises conducted with the staff of registration group of distribution of population in a safe area.

1. In case of a threat of emergency situations

- 1.1 Carry out the warning and gathering of the staff of the group and report the results to the secretary of the evacuation committee,
- 1.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff.
- 1.3 Receive the individual protection means and distribute them among the group members,
- 1.4 Establish a communication with registration groups of removal of population from the dangerous area of communities of the capital,
- 1.5 Know the situation and deliver the necessary information to the subordinate officers in time,
- 1.6 Check the readiness of the group of registration of distribution of population in a safe area to participate in evacuation activities and report to the head of the evacuation committee,
- 1.7 Manage the works of the staff of the group permanently,
- 1.8 Organize the duty service of the staff.

2. In case of implementation of evacuation activities

2.1 Organize the gathering of the staff of the group and report to the secretary of the evacuation committee.

- 2.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 2.3. Organize the distribution of evacuees in safe areas,
- 2.4 Carry out the registration of evacuees in safe areas,
- 2.5 Organize a supervision over the process of implementation of evacuation activities and prepare a brief information about the results of evacuation activities by communities,
- 2.6 Prepare a report about the process of evacuation activities for the head of the evacuation committee together with the secretary of the committee.

of the head of the group of transport provision

The head of the group of transport provision is accountable to the head and deputy head of the evacuation committee. He is the direct head of the staff of the group.

He has to:

- 1. Know the staff of the group and their tasks,
- 2. Have the staff list of the group, know the order of warning and gathering of the staff of the group,
- 3. Know the number of means of transport necessary for population evacuation activities,
- 4. Know the bases of creation of motorcades and the order of their warning, bringing into readiness and involvement in evacuation activities,
- 5. Have necessary information about the evacuation bodies of the community and capital,
- 6. Know the distribution places of groups of transport provision and the order of being in contact with them,
- 7. Know the technical specification of evacuation routes,
- 8. Conduct trainings with the staff of the group aimed at fulfillment of their functional responsibilities,
- 9. Provide the preparedness to participate in evacuation activities together with transport service.

1. In case of a threat of emergency situations

- 1.1 Carry out the warning and gathering of the staff of the group and report the results to the secretary of the evacuation committee,
- 1.2 Clarify the tasks of the staff of the group, receive the individual protection means and distribute them among the group members,
- 1.3 Establish a communication with transport service and subordinate groups of transport provision,
- 1.4 Know the situation and deliver the necessary information to the subordinate officers in time,
- 1.5 Supervise the preparation of means of transport for evacuation activities,

- 1.6 In case of occurrence of emergency situations clarify the population evacuation plan and routes in accordance with the possible theory of situation,
- 1.7 Manage the works of the staff of the group permanently,
- 1.8 Organize the duty service of the staff.
 - 2. In case of implementation of evacuation activities
- 2.1 Organize the gathering of the staff of the group,
- 2.2 Clarify the situation created in the area due to emergency situations and the condition of available means of transport and evacuation routes,
- 2.3. Check the evacuation routes and the tasks set before the evacuation bodies for the evacuation of population from dangerous areas to safer ones,
- 2.4 Provide the delivery of means of transport to TDPs, LTSPs and transport boarding points,
- 2.5 Organize a supervision over the work of means of transport. Inform the head of the evacuation committee about the violations of the working schedule of transport in time and take measures for their elimination.

of the head of the registration group of reserves of food and material values

The head of the registration group of reserves of food and material values is accountable to the head and deputy head of the evacuation committee. He is the direct head of the staff of the group.

He has to:

- 1. Know the staff of the group and their tasks,
- 2. Have the staff list of the group, know the order of warning and gathering of the staff of the group,
- 3. Know the number of population and material values subject to evacuation, their distribution places and the order of registration,
- 4. Plan the calculations of material values subject to evacuation and means of transport envisaged for that purpose beforehand for specific cases of emergency situations,
- 5. Have the list and number of facilities and the reserves of material values kept in them,
- 6. Have necessary information about the evacuation bodies of the community and capital quantity and distribution places of TDPs and LTSPs,
- 7. Conduct trainings with the staff of the group aimed at fulfillment of their functional responsibilities,
- 8. Participate in the development of population evacuation plan,
- 9. Participate in practical trainings and exercises conducted with the staff of subordinate groups of registration of reserves of food and material values.

1. In case of a threat of emergency situations

- 1.1 Carry out the warning and gathering of the staff of the group and report the results to the secretary of the evacuation committee,
- 1.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 1.3 Receive the individual protection means and distribute them among the group members,
- 1.4 Establish a communication with registration groups of reserves of food and material values of communities of the capital,
- 1.5 Know the situation and deliver the necessary information to the subordinate officers in time,
- 1.6 Check the readiness of registration groups of of reserves of food and material values to participate in evacuation activities and report to the head of the evacuation committee,
- 1.7 Manage the works of the staff of the group permanently,
- 1.8 Organize the duty service of the staff.
- 1.9 Check the number of means of transport envisaged for taking the material values out of the possible place of destruction.
- 2. In case of implementation of evacuation activities
- 2.1 Organize the gathering of the staff of the group and report to the secretary of the evacuation committee,
- 2.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 2.3. Provide the removal and registration of reserves of material values in case of necessity of their evacuation, carry out a supervision over their arrangement and prepare a brief information about evacuation activities (by communities),
- 2.4 Prepare a report about the process of evacuation activities for the head of the evacuation committee together with the secretary of the committee.

of the head of the registration group of removal of the staffs of hospitals and patients to a safe area

The head of the registration group of removal of the staffs of hospitals and patients to a safe area is accountable to the head and deputy head of the evacuation committee. He is the direct head of the staff of the group.

He has to:

- 1. Know the staff of the group and their tasks,
- 2. Have the staff list of the group, know the order of warning and gathering of the staff of the group,

- 3. Know the number of staffs of hospitals and patients subject to removal from dangerous area and the order of their registration,
- 4. Have necessary information about the evacuation bodies and hospitals of the community and capital,
- 5. Have the calculation of the means of transport envisaged for the evacuation of staffs of hospitals and patients of the capital,
- 6. Conduct trainings with the staff of the group aimed at fulfillment of their functional responsibilities,
- 7. Participate in the development of population evacuation plan,
- 8. Participate in practical trainings and exercises conducted with the staffs of hospitals and patients.

1. In case of a threat of emergency situations

- 1.1 Carry out the warning and gathering of the staff of the group and report the results to the secretary of the evacuation committee,
- 1.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 1.3 Receive the individual protection means and distribute them among the group members,
- 1.4 Establish a communication with registration groups of removal of staffs of hospitals and patients to a safe area,
- 1.5 Know the situation and deliver the necessary information to the subordinate officers in time,
- 1.6 Check the readiness of registration groups of removal of staffs of hospitals and patients to a safe area and report to the head of the evacuation committee.
- 1.7 Manage the works of the staff of the group permanently,
- 1.8 Organize the duty service of the staff.

2. In case of implementation of evacuation activities

- 2.1 Organize the gathering of the staff of the group and report to the secretary of the evacuation committee,
- 2.2 Clarify the tasks of the group from the head of the evacuation committee and deliver them to the staff,
- 2.3. Organize the distribution of evacuated staffs of hospitals and patients in the hospitals and other buildings planned beforehand located in safe areas,
- 2.4 Organize a supervision over the process of implementation of evacuation activities and prepare a brief information about the results of evacuation activities,
- 2.5 Prepare a report about the process of evacuation activities for the head of the evacuation committee together with the secretary of the committee.

Data on distribution places of evacuees reception bodies

Types	Evacuation points (EP)	Reception points (RP)	Temporary distribution points (TDP)	Long-term settlement points (LTSP)
Distance	500m	500m	2km	More than 2km
Service duration (target)	1 week	1 month	1 month	10 years
Utilities	Only water (cistern of water, mineral water, mobile toilets)	Only water (cistern of water, mineral water, mobile toilets)	Water and food, Medical services, Information, Peace and discipline, Sanitary conditions and so on	Water and food, Medical services, Information, Peace and discipline, Sanitary conditions and so on
Functions	Registration of evacuees	In temporary residence in tents and buildings	In temporary residence in tents and buildings	In temporary residence in tents and buildings
Number	132 (881477 people)	132(264000 people)	238 (203164 people)	5 (1350 people)
Capacities of shelters	Till 10000 people	Till 2000 people	200-8000 people	468514 people
				It is necessary to distribute 202817 people

SCHEDULE of works of the evacuation committee of Yerevan city

N/N	Activities 2	Period of implementation	Responsible for implementation			
1. In case of a threat of emergency situations						
1	Warning and gathering of the evacuation committee of Yerevan city	T + 10 minutes	Head of the evacuation committee of Yerevan city			
2	Tasking and clarification of calculations of evacuation of population from possible dangerous zones	T + 30 minutes	Head of the evacuation committee of Yerevan city			
3	Organization of supervision over the works of facility evacuation committees	Immediately	Deputy Head of the evacuation committee of Yerevan city, secretary of the evacuation committee			
4	Preparation of documents of the evacuation committee of Yerevan city	T + 30 minutes	Secretary of the evacuation committee			
5	Organization of communication between all the evacuation committees of Yerevan city	T + 1 hour	Deputy Head of the evacuation committee, Head of communication and warning service			
6	Clarification of the order of evacuation of the bellow mentioned evacuees from possible dangerous zones: - pedestrian evacuees - evacuees from facilities and people evacuated by means of centralized delivery of means of transport provided from transport boarding places	T + 1-2 hours	Deputy Head of the evacuation committee, Heads of working groups			
7	Clarification of the order of evacuation and delivery of transport to transport boarding places	T + 1-2 hours	Deputy Head of the evacuation committee, Head of transportation group, Representative of transportation service			

1	2	3	4
8	Clarification of the plan of provision of the evacuees with medical staff and supplies	T + 1-2 hours	Secretary of the evacuation committee, Representative of medical service
9	Clarification of the plan of maintenance of public order in evacuation points, evacuation routes and temporary distribution points	T + 2 hours	Head of the evacuation committee, Representative of public order maintenance service
10	Clarification of the plan of primary life provision of evacuees	T + 3 hours	Deputy Head of the evacuation committee, Representative of trade and food service
11	Clarification of the places of deployment of intermediate evacuation points in case of occurrence of the source of radiation contamination	T + 3 hours	Head of the evacuation committee, Representatives of Civil Defence services
12	Clarification of the order of evacuation and transport boarding points in case of a threat of expansion of the source of radiation contamination	T + 3 hours	Head of the evacuation committee, Representatives of Civil Defence services
	2. Upon receiving	g an order of population e	vacuation
1	Organization of the warning of the staff of the evacuation committee of Yerevan city	T + 10 minutes	Deputy Head of the evacuation committee
2	Tasking on conduct of evacuation	T + 30 minutes	Deputy Head of the evacuation committee
3	Putting the clarified plan of evacuation into action in case of a specific emergency situation	T + 30 minutes	Head of the evacuation committee of Yerevan city
4	Bringing the evacuation bodies into readiness in all the organizations	T + 1 hour	Heads of evacuation committees of organizations
5	Organization of communication between evacuation bodies	T + 1 hour	Secretary of the evacuation committee
6	Organization of transport, technical, material and medical provision for evacuation activities	T + 2 hours	Deputy Head of the evacuation committee
7	Reception, registration and distribution of evacuees in temporary distribution points located in safe areas of the city	Always	Staff of TDPs
8	Collection and registration of data about the process of evacuation	Always	Deputy Head of the evacuation committee, heads of evacuation points
9	Organization of primary life provision of the affected	Always	Head of the evacuation committee of Yerevan city

Informationon calculation of population evacuation in case of accident and its threat in explosive, fire-explosive, flammable and chemically dangerous facilities

No.	Name of the facility, address	Facility director's name, surname, tel. number (office, cell.)	Type of explosive material	Quantity of explosive material (ton or m^3)	Quantity of work and area of facilities (person / m ²)
	-	Explosive facilities	<u>-</u>	<u> </u>	-
		1. Arabkir			
1.	«Oktan» LLC	A.Avetisyan 091 40-98-00	natural gas	10 t	30 / 2500 m ²
		2. Avan			
	-	-	-	-	-
	1	3. Ajapnyak	T		
2.	«NLG» LLC G.ChauSh str. 2	Edik Mkhitayan 099-80-99-99	gas	6 m ³	19 / 60 m ²
3.	«Multi Lion» LLC Shiraz-Janibekyan crossroad	Samvel Tsarukyan 094-50-00-94	gas	3 m^3	15 /42 m ²
4.	«Kelli and Williams» LLC Shiraz str. 43	AShot Badeyan 34-16-11	gas	3 m ³	13 / 27 m ²
5.	«Robel» A/S LukaShin highway 5	D. Markapuchyan 39-91-40	gas	3 m ³	16/ 30 m ²
6.	«Khchaqar-Musa» LLC Tichina 140	Davit Davtyan 4-44-51 (Ejmiatsin)	gas	3 m ³	8 / 24 m ²
		4. Davtashen			
7.	«Ara ev Aytsemik» LLC, near the Davitashen bridge Automatic Gas Pumping Station	Gevorg Ayvazyan 36-78-18	gas		5/ open area
8.	A. Mikoyan str. «Elsi stil» LLC Automatic Gas Pumping Station	Arsen Arakelyan 36-21-55	gas		4/ open area
9.	A. Mikoyan str. «Gaom Group» LLC Gas station	Garnik Shirinyan 36-82-68	gas		5/ open area
	1	5. Erebuni	Т	Г 22	
10.	Gosh-Gas LLC crossroad of Kh.Don and Nubarashen highways	Misha Galstyan 47-04-01o.	gas	20 t	
11.	Gosh-Gas LLC Artsakh str., in front of building No.8	Misha Galstyan 62-60-06	gas	20 t	
12.	Agras-Gas LLC D.Bek str., end of cemetery	Ashot Khachatryan 57-17-00 o.	gas	40 t	

1	2	3	4	5	6
13.	Davit Artak LLC	Arshak Yengoyan	gas	20 t	0
10.	S.Davit str., No. 87, Vardavar	57-34-00 o.	843	20 t	
	S.Davit str., 110. 07, vardavar	6. Kentron			
	_	o. Kentron	=		=
		7. Nor Nork		-	
		7. NOI NOIK	=		-
	<u> </u>	8. Nork-Marash		-	
	1	o. INOIR-IVIALASII	=	T	=
	-	9. Nubarashen		-	
				T T	
14.	AGPPS	A. Hovhannisyan	gas	-	4 /653.6
	Nubarashen highway 97/3	476679			
		10. Malatia-Sebastia			
15.	"V-Sank,, LLC	Aram Avetisyan	gas	18	50/4
	Raffi and Babajan	72-66-55			
16.	"Olivesta "LLC	Karen Gevorgyan	gas	18	50/4
	Babajanyan	73-40-14			
17.	"Gas-Propan,, LLC	Yakhanejyan Davit	gas	12	80/4
	end of Tichina		J		
18.	,,Gosh-Gas,, LLC	Haykaz Hovsepyan 74-	gas	12	50/4
	end of Leningradyan	04-41	J		
19.	,,Gosh-Gas,, LLC	Haykaz Hovsepyan 74-	gas	12	50/4
	Babajanyan 54	04-41	Ü		
20.	"P/E,, Aslanyan Hrayr	Hrayr Aslanyan	gas	4	50/2
	Babajanyan 60		8	_	
		11. Shengavit			
21.	< <di-di group="">>LLC</di-di>	48 34 86	gas	not stored	
_ 1.	Arshakunyats 119/1	10 51 00	gas	not stored	
22.	< <lir-star>>LLC</lir-star>	48 35 67 48 34 67	gas	not stored	
∠∠.	CLII Star>/LLC	10 33 07 10 31 07	gas	not stored	
23.	< <methane gas="">>LLC</methane>	094 40 10 75	gas		
20.	Artashat highway 106	051 10 10 75	843		
24.	>LLC	094 50 00 94	ane	9 tons	
4 7.	Isakov str.	074 30 00 74	gas) tons	
25.	< <multi lion="">>LLC</multi>				
23.	Shirak str.		gas		
26.	«Multi lion» LLC				
26.			gas		
07	Bagratunyats 91	40.16.07		1	
27.	«Gamas» LLC Shirak	42 16 97	gas	not stored	
20	Cook soc IIC	24.62.00			
28.	«Gosh gas» LLC	24 62 90	gas		
20	Artashisyan 62/1	004.40.10.77			
29.	«Methane gas»	094 40 10 75	gas		
	Shirak 72/2	12.5 = :			
	T	12. Qanaqer-Zeitun		<u> </u>	
30.	< <kamoil>></kamoil>	Edgar Pambukyan 091-19-	gas		
	P.Sevak and K.Ulnetsi crossroad	68-11			
	2.50 van and 12.0 metal clossical	28-04-01			
31.	Tbilisi highway 20	Argam Mkrtchyan	gas		
	1 OIIISI IIIgiiway 20	28-76-07 53-38-83			
32.	In front of 7 Sarkayes 40h	Nairuhi Abrahamyan	gas	T	_
	In front of Z.Sarkavag 69h	Ivaliulii Avialialliyali			

33.	Myasnikyan avenue, in front of WaterWorld	Samvel Baghdasaryan 24- 00-43, 091-20- 68-80	gas		
34.	D.Anhaght str., in front of ABC wall	Arayik Hovhannisyan 094- 05-27-88	gas		
35.	"Astghik ev Mane"LLC Tbilisi highway 30	3 M. Hovakimyan 28-80-91 091-42-50-54	gas	5	6
36.	Tbilisi highway.18/4	R. Shahmuradyan 091-20-90-51 22-64-98	gas		
37.	"Ghars erkar vanq" D.Anhaght str.10/1	Suren Petrosyan 24-30-20,091-24-22-23	gas		
38.	Azatutyan 26/3	Armen Harutyunyan Armen 29-92-42	gas		
39.	"GOSH-GAS"LLC Rubinyants str.41/1	Arsen Hayrapetyan 099-11- 11-26	gas		
	Hr	dehapaytyunavtang obye	ektner		
1.	n/o A Markagyan Thiligi highway	1. Arabkir	benzine	5 t	
2.	p/e A.Markosyan, Tbilisi highway. p/e A.Sargsyan, in front of pond of		benzine	8 t	
	lamp factory		Delizine	01	
3.	p/e S.Vardanyan, Khachatryan- Kalents crossroad		benzine	5 t	
4.	<mika armenia=""> LLC near the bridge, Vagharshyan str.</mika>		benzine	80 t	
5.	<mika armenia=""> LLC H. Qochar near the bridge</mika>		benzine	80 t	
6.	<jor-has> LLC Babayan str.</jor-has>		benzine	30 t	
7.	<lashe> LLC Qochar str., near the bridge</lashe>		benzine	40 t	
8.	<attl> LLC N. Zaryan 22</attl>		benzine	40 t	
9.	«Venlo» LLC Mamikonyants str. 44		benzine	40 t	
10.	<5 Astgh> LLC in front of Komitas str. bld.35		benzine	30 t	
11.	<exim-petrol> LLC Komitas 60</exim-petrol>		benzine	30 t	
12.	<karen-sartik> LLC Komitas 60</karen-sartik>		benzine	40 t	
13.	<dianna-91> LLC Nazaryan- Vratsakan str. intersection</dianna-91>		benzine	30 t	
14.	<serojik-95> LLC in front of Qochar bld. 21</serojik-95>		benzine	30 t	
15.	<vasma> LLC Komitas 35</vasma>		benzine	30 t	
16.	p/e M. Tonoyan, Qochar- Vagharshyan crossroad		benzine	10 t	
17.	p/e M.Mkrtchyan, Adonts 7/1		benzine	8 t	
18.	p/e A.Nazaryan, V. Papazyan-Khachatryan intersection		benzine	8 t	
19.	p/e H.Mkrtchyan, Vagharshyan-		benzine	7 t	

	Avetisyan				
20.	<meri and="" davit=""> LLC</meri>		benzine		
	Gyulbenkyan-Khachatryan			40 t	
	crossroad				
21.	p/e G. Eranosyan, Gyulbenkyan-		benzine	5 t	
	Qochar crossroad			Σt	
22.	p/e H. Kargomtsyan, near the pond		benzine	5 t	
	of lamp factory			<i></i>	
23.	<furgon> LLC</furgon>		benzine	30 t	
	Near the pond of <grand san=""> LLC</grand>				
24.	p/e J.Kirakosyan, Mamikonyants 2		benzine	4 t	
25.	p/e R.Movsisyan, Mamikonyants-		benzine	4.5	
	Griboyedov crossroad			4 t	
26.	p/e R.Aleksanyan, in front of N.		benzine	2.4	
	Zaryan 15 bld.			3 t	
27.	p/e G.Ghukasyan, in front of		benzine	3 t	
	Qochar 27 bld			3 t	
28.	p/e M.Uramanov, Orbeli str.		benzine	4 t	
	p/c w. Gramanov, Groch str.			1 t	
29.	p/e P.Zaveyan, Adonts str		benzine	5 t	
30.	p/e H.Zakharyan, V. Vagharshyan		benzine		
50.	in front of 12bld		benzine	5 t	
31.	<sivas> LLC Near H. Qochar</sivas>		benzine		
	27bld			40 t	
32.	<hektor> LLC N. Zaryan str.</hektor>		benzine	40 t	
33.	p/e G.Grigoryan, in front of V.		benzine		
	Vagharshyan 12bld			5 t	
34.	<gandzasar> LLC near Qochar</gandzasar>		benzine	0.5	
	bridge			35 t	
35.	p/e R.Mnatsakanyan		benzine		
	Mamikonyants-Vagharshyan			8 t	
	crossroad				
36.	p/e A.Andreasyan, Avetisyan 36		benzine	5 t	
	p/e A.Anureasyan, Avensyan 50			J t	
37.	p/e S.Gulumjyan, Griboyedov 13		benzine	5 t	
	pro sreatannyan, emecycae i 15				
38.	p/e Yu. Nazaryan, Vagharshyan 12		benzine	5 t	
39.	p/e E.Khzanyan, Gyulbenkyan 31		benzine	8 t	
		2. Avan			
	Gai str.	G. Mekhakyan	benzine fuel,	10 t	6/300 m ²
40.	<stver> LLC</stver>	647574	lubricating	100	
10.	1307627 223	01/3/1	oil		
	Acharyan str.	V.Antonyan	benzine fuel,	30 t	11/100 m ²
41.	<flesh> LLC</flesh>	093184060	lubricating	-	, , , , , , , , , , , , , , , , , , , ,
			oil		
	Babajanyan str.	Y.Melkonyan	benzine fuel,	10 t	7/2000 m ²
42.	<talin 1=""> LLC</talin>	094436793	lubricating		
			oil		
	Rubinyants str.	V.Antonyan	benzine fuel,	25 t	10/100 m ²
43.	<flesh> LLC</flesh>	093184060	lubricating		
			oil		

	Babajanyan str.	A.Zakinyan	benzine	11 t	2/56 m ²
	<zaqinyan>LLC</zaqinyan>	093512830	fuel,	110	_, 5 5 111
44.	1 7		lubricating		
			oil		
	Sevan highway	G. Tsarukyan	benzine		
	<multi group="">LLC</multi>	, , ,	fuel,		
4 5.	8-14-		lubricating		
			oil		
	Acharyan str.	D Hayranatyan	benzine	11 t	8/300 m ²
	<r.hayrapetyan>LLC</r.hayrapetyan>	R.Hayrapetyan 618821	fuel,	11 t	8/300 III-
1 6.	< K.Hayrapetyan>LLC	010021	· ·		
			lubricating		
		2 Aignayal	oil		
	«NLG» LLC,	3. Ajapnyak Edik Mkhitaryan	benzine	60 m ³	4 / 42
1 7.	G.Chaushi str. 2	099-80-99-99	Delizine	00 111	4/42
	«Mariam» LLC,	Gagik Baghdasaryan	benzine	20 m ³	3 / 14
1 8.	Halabyan 67	094-01-01-61	Delizine	20 111	3/14
	«Vikan» LLC, beginning of	Karen Mkrtchyan	benzine	35 m ³	6 / 58
1 9.	Leningradyan str.	091-42-05-20	belizine	55 111	0,30
	«Rino» LLC Shinararner str. 13/1	Mesrop Gevorgyan	benzine	6 m ³	4 / 29
0.		229-530 (091-408-036)		-	
	«Eurowagen» LLC	Aram Gharibyan	benzine	5 m ³	4 / 22
51.	Janibekyan 1/1	38-11-99			
	«Flesh» LLC	Yura Khachatryan 53-88-	benzine	40 m ³	3/31
52.	end of Halabyan str.	32			
	«Flesh» LLC	Yura Khachatryan 53-88-	benzine	8 m ³	3 / 25
3.	Ashtarak highway left part	32			
. 4	«Flesh» LLC	Yura Khachatryan 53-88-	benzine	20 m ³	3 / 25
54.	Ashtarak highway right part	32			
55.	«Flesh» LLC	Yura Khachatryan 53-88-	benzine	4 m^3	4 /30
)). 	Shiraz str. 2/6	32			
66.	Hovhannisyan Samvel LLC	Samvel Hovhannisyan	benzine	5 m^3	1/ 16
	Shirazi 20/5	077-49-99-78			
57.	«Aragats» LLC	Hovhannes Gharibyan	benzine	20 m^3	6 /20
	Abelyan-Shinararner crossroad	098-99-77-56			
8.	«Aragats» LLC	Hovhannes Gharibyan	benzine	$1,7 \text{ m}^3$	2 / 13
	Janibekyan-Shinararner crossroad.	098-99-77-56			
59.	«EvrOil» LLC	Robert Azizyan	benzine	5 m^3	2 /16
	Hasratyan 12/1	093-47-15-16	1 .	00.2	4 / 22
50.	«KamOil» LLC	Kamo Melkonyan	benzine	20 m^3	4 / 32
	Hasratyan 10/8	077-17-77-73	1	17 3	4 / 20
51.	Manvel Miqayelyan LLC Shiraz str. 7/1	Manvel Mikayelyan 077-51-99-94	benzine	17 m ³	4 / 28
	«Tigran Grigoryan and friend»	Tigran Grigoryan 39-36-	benzine	4 m ³	2 / 15
52.	Shiraz str. 51	72	Denzine	1 111	2/13
	«City Petrol Group» LLC	Artur Danielyan 56-52-	benzine	5 m ³	2 / 14
53.	Hasratyan str. 15/5 (Tigran)	81	CHZIIIC	J 111	2/14
	«City Petrol Group» LLC	Artur Danielyan 56-52-	benzine	5 m ³	2 / 14
64.	Mazmanyan str. 5/1	81		J 111	2,11
	«KamOil» LLC	Kamo Melkonyan	benzine	2,1 m ³	2/11
55.	Hasratyan 9/2	077-17-77-73		_, <u>-</u>	_, _,
	«Fegas Oil» LLC	Sedrak Simavoryan 093-96-	benzine	10 m ³	4 / 23
66.	Margaryan str. 29/3	66-60			
1	2	3	4	5	6

		4. Davtashen			
	«City petrol Group» LLC	YURA Petrosyan			2
67.	Gas Station	52-82-81	benzine	20t	open area
07.	(left part of Davitashen bridge)		diesel fuel	10t	
	< <kesgisher>> LLC</kesgisher>	Armen Khachatryan	benzine	15 t	2
68.	T. Petrosyan-1/4 Gas Station	36-80-08	diesel fuel	10t	open area
	< <mika armenia.="">> LLC</mika>	Vladimir Nersisyan	benzine		2
69.	Ashtarak highway-14 Gas Station	35-21-30	diesel fuel	20 t 10t	open area
	< <ranoil>>LLC</ranoil>	Aleksan Hakobyan	benzine	15 t	2
70.	A. Mikoyan street Gas Station	093-19-32-55	diesel fuel	10t	open area
	«Mika Armenia» LLC		benzine		2
71.	G. Chaush-Melqumov crossroad Gas Station	Edvard Ohanyan 093-95-88-16	diesel fuel	30 t 10 t	open area
-	«Muradyan brothers» LLC Sasna	Armen Muradyan 36-76-	benzine	20 t	2
72.	Tsrer street Gas Station	17	diesel fuel	10t	open area
	10101 birect dus biation	091-36-77-43	areser ruer	100	Spen area
	«Deyern» LLC end of Halabyan	Aleksander Petrosyan	benzine		2
73.	street Gas Station	091-42-43-79	diesel fuel	30t	open area
				10t	
		5. Erebuni			_
74.	Kotayk-91 A/S Davit Bek str. No. 136	Yeprem Yepremyan 091-41-33-74 mobile.	benzine	20 t	
	Davit and Elina LLC	ArShak Yengoyan	benzine	20 t	
75.	Azatamartikner and Gajegortsner	57-05-90 o.			
	P/E Qalajyan Grigor	Grigor Malajyan	benzine	20 t	
76.	in front of Rostovyan str. No.27 bld.	45-25-66			
	Gari LLC G.Mahari str. No.1/3	Andranik Avetisyan	benzine	20 t	
77.		094-28-59-59 mobile. 43-88-10 o.			
	Vardanyan-91 LLC	A. Danielyan	benzine	20 t	
78.	Ayvazovski and Titogradyan	47-11-14 o.	benzine	20 t	
	Ran-Oil LLC	Samvel	benzine	325 t	
79.	Arin-Berd str. No.9	091 40-31-33 o.			
00	A.Purtoyan P/E	AShot Purtoyan	benzine	50 t	
80.	Artsakh str. No.1/1	45-27-00 o.			
81.	Agropetrolservice LLC	A.Davtyan	benzine	40 t	
01.	Artsakh str. No.23	44-52-21 o.,43-36-16			
82.	Delta Expres LLC T.Mets and Glinka intersection	Davit Gulumyan 57-04-01o.	benzine	20 t	
	Yerevan << Combined food	Director:	Bread-cutting	_	90/88000 m ²
83.	factory>>CJSC	R.Sargsyan	powder	-	90/88000 III
05.	Artsakh str. No.138	47-22-03 o.	powder		
	Artsakii sti. Ivo.130	6. Kentron			
	P O:1		1		
84.	Ran Oil	R. Galustyan	benzine	120	3/8
84.	Brazil square	451798	diesel fuel, lubricant oil	120	3/8
	§Flesh LLC	V Vhashat	benzine		
85.	Eznik Koghbatsi 30	Y. Khachatryan 533822	diesel fuel,	50	5/22.5
			lubricant oil		
86.	§Maxdal¦ LLC	H. Ohanyan	benzine	50	4/12.5

	In front of Isakov 6	543124,543125	diesel fuel,		
			lubricant oil		
	§Bari Voyage» LLC	A. Harutyunyan	benzine		
87.	Heratsi 10	571801	diesel fuel,	75	4/18.5
		371801	lubricant oil		
	§Mika Armenia Trading	77 A 1 ·	benzine		
38.	beginning of Athene str.	V. Aghajanyan	diesel fuel,	125	12/32
		544104	lubricant oil		
	§EVR OIL! LLC		benzine		
39.	Leningradyan 45	R. Azizyan	diesel fuel,	125	8/28.3
99.	Leimigradyan 43	391516,426467	lubricant oil	123	0/20.3
_	§Aprinada LLC	N. Apriamova	benzine		
0.	Khorenatsi 148	575400	diesel fuel,	25	1/4
		373100	lubricant oil		
	§Araks¦ LLC	II C 1:1	benzine		
1.	Myasnikyan 20-a	H. Sevlikyan	diesel fuel,	50	3/9.5
		524018	lubricant oil		
	§Fugas¦ LLC		benzine		
2.	Vardanants109	R. Gevorgyan	diesel fuel,	50	3/8.7
۷.	v ardanants109	552872		30	3/6.7
	CM .:. IIIC		lubricant oil		
	§Matitsal LLC	R. Gamalyan	benzine	100	_ /a = =
3.		412441	diesel fuel,	120	7/22.5
		112111	lubricant oil		
	§Araks A/S	C D 1	benzine		
94.	Qristophor 1	G. Barseghyan	diesel fuel,	50	3/13.5
		542070	lubricant oil		
		7. Nor Norg			l
	"Flesh" LLC,	Yu. Khachatryan			
95.	Vakhtangov 2/2	55-88-32, 55-88-22	Benzine	-	5/-
	ĕ	·	D '		20/
96.	"Rena Trade" CJSC,	Vladimir Aghajanyan 67-05-	Benzine	-	20/-
	Bagrevand 88	93			
_			ъ.		
7	"MIKA Corporation" CJSC,	_	Benzine	_	3/-
97.	"MIKA Corporation" CJSC, 4-th massive, Gai 51/7	-	Benzine	-	3/-
97.	4-th massive, Gai 51/7	- Gagik Mekhakyan	Benzine	-	3/-
	4-th massive, Gai 51/7 "Stver" LLC,	- Gagik Mekhakyan Mekhakyan		-	
	4-th massive, Gai 51/7	Mekhakyan		-	
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8	Mekhakyan 64-75-74	Benzine	-	6/-
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC,	Mekhakyan		-	
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3	Mekhakyan 64-75-74	Benzine Benzine	-	6/-
98. 99.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC,	Mekhakyan 64-75-74 Arman Sahakyan	Benzine		6/-
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2	Mekhakyan 64-75-74	Benzine Benzine Benzine	- - -	6/- 5/- 6/-
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan	Benzine Benzine		6/-
99. 100.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2	Mekhakyan 64-75-74 Arman Sahakyan	Benzine Benzine Benzine	- - - -	6/- 5/- 6/-
08. 09. 00.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan	Benzine Benzine Benzine	- - - -	6/- 5/- 6/-
98. 99. 00.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81	Benzine Benzine Benzine Benzine	- - - -	6/- 5/- 6/- 2/-
98. 99. 00. 01.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773	Benzine Benzine Benzine Benzine Benzine	- - - -	6/- 5/- 6/- 2/- 4/-
98. 99. 00. 01.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71-	Benzine Benzine Benzine Benzine	- - - - -	6/- 5/- 6/- 2/-
98. 99. 00. 01.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773	Benzine Benzine Benzine Benzine Benzine Benzine	- - - - -	6/- 5/- 6/- 2/- 4/-
98. 99. 00. 01. 02.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71-	Benzine Benzine Benzine Benzine Benzine	- - - - - -	6/- 5/- 6/- 2/- 4/-
98. 99. 00. 01. 02.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25	Benzine Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - -	6/- 5/- 6/- 2/- 4/- 4/- 5/-
98. 99. 00. 01. 02. 03.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2 P/E Melqonyan Miqayel,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25 Igor GHazaryan 63-35-90	Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - -	6/- 5/- 6/- 2/- 4/-
98.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25	Benzine Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - -	6/- 5/- 6/- 2/- 4/- 4/- 5/-
98. 99. 00. 01. 02. 03. 04.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2 P/E Melqonyan Miqayel,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25 Igor GHazaryan 63-35-90 Miqayel Melqonyan	Benzine Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - -	6/- 5/- 6/- 2/- 4/- 4/- 5/-
98. 99. 00. 01. 02. 03. 04.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2 P/E Melqonyan Miqayel, Moldovakan 10 "Tabe" LLC,	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25 Igor GHazaryan 63-35-90	Benzine Benzine Benzine Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - - -	6/- 5/- 6/- 2/- 4/- 4/- 5/- 2/-
98. 99. 00. 01. 02. 03.	4-th massive, Gai 51/7 "Stver" LLC, Hovhannisyan 1/8 "City Petrol Group" LLC, Luxenburg 36/3 "City Petrol Group" LLC, Tevosyan 97/2 P/E Avagyan Artur, Mayak 42/3 "KAMOIL" LLC, 7-th massive, in front of bld.28 "SITRA OIL" LLC, Mikoyan 9/3 "Karen and Nora" LLC, Gyurjyan 2/2 P/E Melqonyan Miqayel, Moldovakan 10	Mekhakyan 64-75-74 Arman Sahakyan Yuri Petrosyan Artur Avagyan 63-88-81 Kamo Melqonyan 077- 177773 Lernik Gevorgyan 64-71- 25 Igor GHazaryan 63-35-90 Miqayel Melqonyan	Benzine Benzine Benzine Benzine Benzine Benzine Benzine Benzine Benzine	- - - - - - -	6/- 5/- 6/- 2/- 4/- 4/- 5/- 2/-

108.	Bobokhyan Davit, B.Muradyan street	Davit Bobokhyan 66-16- 00	Benzine	-	1/-
109.	Muradyan Artur,	Artur Muradyan	Benzine	-	3/-
110.	D.Beki 130 "Di-di Group" LLC,	093-06-29-51 66-28-10	Benzine	-	4/-
111.	D.Bek 101/1 "Gosh Gas" LLC,	A. Hayrapetyan 24-62-90	Benzine	-	2/-
	Tevosyan 7/1	8. Nork-Marash			
112.	«Hyusis arahet»LLC	Baghdasaryan Lyova 65- 03-01 093-807-070	benzine	150	3/200
113.	«Qagh. Petrol Service» A/K	Salazaryan AShot 65-14- 97	diesel-fuel, benzine	200	5/180
114.	«Arg» LLC	Gevorgyan Artur 65-05-16 091-435-818	benzine	20	4/120
		9. Nubarashen		•	
115.	Ran Oil Nubarashen 6 str.	Baghdasaryan S.	Benzine, diesel fuel	5t	3/
		10. Malatia-Sebastia			
116.	"Mazinni "LLC Sebastia str.	Mahtesyan Tigran	benzine	13.5	50/1h
117.	"Gush,, LLC NSH Sebastia str.	Melqonyan Edik 73-55-66	benzine	22	80/2
118.	Melqonyan Edik «999» Sebastia str.	Melqonyan Edik 73-55-66	benzine	12	50/2
119.	"Ordi Grig", LLC Leningradyan	Soghomonyan Gagik 39- 20-10	benzine	30	100/2
120.	"Gurz., LLC Leningradyan	Tumasyan Hrant 39-99- 09	benzine	70	125/2
121.	"Derjava "LLC Ts. Isakov str	Hambardzumyan Arkadi 72-61-61	benzine	88	150/5
122.	,,,Ran-Oil ,, LLC Sheram str.	Harutyunyan Gagik	benzine	40	125/3
123.	"Glob-Glend., LLC Sheram str.	Manukyan Manuk 72- 19-99	benzine	25	80/1
124.	,,Tovmas and FRD.,, LLC Sheram str.	AShot AShotyan 74-84-34	benzine	15.5	80/1
125.	"Sokol Group "LLC Andranik str.	Aghababyan Lyova	benzine	8	50/2
126.	"P/E "Shahinyan Norik Babajanyan str.	SHahinyan Norik 73-74-70	benzine	5	50/1
127.	"P/E "Miqaelyan Hovsep Babajanyan 108	Miqaelyan Hovsep	benzine	0.8	50/1
128.	"Hovtvard "LLC Babajanyan 72	Hovsepyan Vahe	benzine	42	125/4
129.	"Poli-Petros,, LLC Babajanyan 120	Vanyan Polina	benzine	36	125/3
130.	,,Qagh. Petrol ,,LLC Ts. Isakov 27	Salazyan AShot	benzine	36	100/3
131.	"Mik "LLC Ts. Isakov 23	Harutyunyan Martun	benzine	15.5	80/
132.	"P/E "Zatikyan Tigran TS. Isakov 14/2	Zatikyan Tigran	benzine	2	50/1

133.	"Kam-Oil,, LLC Sebastia str.	Melqomyan Kamo	benzine	30	125/4
134.	"Kam-Oil"LLC Andranik 24	Melqomyan Kamo	benzine	30	125/4
135.	«Flesh» LLC Sebastia 161	Gevorgyan Gevorg	benzine	110	250/10
136.	"Qagh. Petrol "LLC Sebastia 157	Salazaryan AShot	benzine	22	80/2
137.	"Hur Chrag "LLC Sebastia 96/1	Gabrielyan Tadevos	benzine	20	80/2
138.	"Flesh"LLC Andranik 113/1	Simonyan Stepan	benzine	40	125/3
		11. Shenegavit	l		
139.	< <ran-oil>>LLC Arshakunyats 28/2</ran-oil>	099 88 06 20	benzine		
140.	Hovikyan Hmayak P/E Arshakunyats 28/7	091 37 99 13	benzine	9000 1.	
141.	< <kam oil="">> LLC Arshakunyats 34</kam>	Melqonyan 44 27 72 56 23 48	benzine	150001.	
142.	CPS Arshakunyats 33	077 42 55 05	benzine	6300 1.	
143.	< <cps>> Salazaryan LLC Arshakunyats 57</cps>	077 42 55 05	benzine	63001.	
144.	< <flesh>> CJSC Arshakunyats 2</flesh>	53 42 33	benzine		
145.	< <ran oil="">> LLC Arshakunyats 127/3</ran>	48 08 84	benzine	170001.	
146.	«CPS» Salazaryan LLC Bagratunyats 67/1	077 42 55 05	benzine	63001.	
147.	< <nesa komfort="">>LLC</nesa>	48 31 01	benzine	80001.	
148.	< <aghayan group="">></aghayan>	093 77 07 01	benzine		
149.	< <alina-anna>>LLC</alina-anna>	091 00 80 07	benzine	100001.	
150.	< <gor nane="">>LLC Bagratunyats 1/2</gor>	49 94 99	benzine	150001.	
151.	< <mika>>LLC Bagratunyats 1/4</mika>	42 79 85 54 41 04	benzine	200001.	
152.	< <elen baghdo="">>LLC Bagratunyats 2/8</elen>	093 52 07 16	benzine		
153.	< <cps>> Salazaryan LLC</cps>		benzine		
154.	< <cps>> Salazaryan LLC</cps>		benzine		
155.	< <gamas selita="">>LLC Artashesyan 77/1</gamas>	093 24 53 53	benzine	300001.	
156.	< <ran oil="">>LLC G.Njdeh 37/2</ran>	099 90 00 97	benzine		
157.	< <kam oil="">> group Bagratunyats 44/1</kam>	44 27 72	benzine		
158.	< <cps>></cps>		benzine		
159.	< <mika>> corporation</mika>	53 87 81	benzine		
		12. Qanaqer-Zeitun			

Flam	mable facilities				
		1. Arabkir			
1.	<galant> CJSC</galant>	A. Chiloyan 25-89-57	Woven fabrics	-	36 3500
2.	<lambron> CJSC</lambron>	A.Aspoyan 23-11-63 091-43-27-02	Euro-window	-	70 8000
3.	Fundamental scientific Library Baghramyan 24d	56-44-81	-	-	86
1.	No.29 branch of Library after A.Isahakyan Komitas 6	27-22-90	-	-	5
5 .	No.33 branch of Library after A.Isahakyan Kievyan 1	27-08-31	-	-	6
5.	Arabkir No. 5 library Sundukyan 26	S.Farmanyan 26-04-07	-	-	6
7.	Arabkir No. 6 library Qanaqer HES 4/1	S.Safaryan 23-25-18	-	-	7
3.	Library after Papazyan Baghramyan 40	51-27-64	-	-	8
		2. Avan			
9.	-	-	-	-	-
		3. Ajapnyak			
0.	Centralized System of libraries, Margaryan 1-st backstreet 11	Hakobyan Gohar / 091-52-43-41	book		49 / 1100
11.	Yerevan «Haybusak» University LLC, Abelyan 6	Harutyunyan Anahit 39- 06-98 / 091-40-49-13	book		1620 / 5315
12.	«Agricultural Universito of Yerevan», LLC, Fuchik 27/5	Azizbekyan Lianna 34- 13-00 / 091-21-07-73	book		1200 / 2885
13.	Yereavan branch of the Moscow State University of economy, statistics and information science, Arzumanyan 5/2	Vardanyan Sedrak 38-03- 45 / 093-27-13-49	book		455 / 2265
14.	Yerevan No.6 handicraft college, G. Hasratyan 3	Grigoryan Sona 35-81-25 / 099-11-05-51	book		302 / 1600
15.	«Private college of Kupalyan» LLC	Khanamiryan Lilit 39-89-99 / 094-41-76-80	book		103 / 608.5
16.	«Sh.Shahamiryan» educational complex LLC Leningradyan 4a	Jalayan Lolita 39-11-10 / 091-99-87-10	book		135 / 1100
17.	Music school after M. Mirzoyan PNCO, Norashen district	Sargsyan Lilia 35-15-75	book		262 / 1100
8.	Art school after A. Gabrielyan Arzumanyan 8a	Tonoyan Gohar 39-50-32	book		321 / 610
9.	Music school No.21 after A. Tsitsikyan, Sisakyan 20	Hovhannisyan SHuShanik 39-40-60	book		104 / 876.4
20.	«Armenia» PMC CJSC, Margaryan 6	Grigoryan Gari 31-81-02 / 091-00-66-51	material, device		1164 / 34620
21.	«Scientific-medical center of dermatology and sexually transmitted diseases» CJSC	Babayan Karen 34-27-10 / 091-40-86-62	material, device		105 / 3120

	Fuchik 32				
22.	«Ophtalmological center after S.V.Malayan» CJSC, Fuchik 30	A.Malayan 34-49-26 / 093-70-01-10	material, device		245 / 12500
23.	«Republican Institute of Reproductive Health, Perinatology, Obstetrics and Gynecology» CJSC Margaryan 6	Abrahamyan Razmik 34-18-83 / 091-40-54-02	material, device		292 / 5184
24.	Research center of radiation medicine and burns of MH RA Davtashen 25 str.	Davidyan Norayr 34-11-44 / 27-79-55	material, device		160 / 5545
		4. Davtashen			
25.	GRATSIA LLC (Redcross hospital)	M. Mnatsakanyan Ashtaraki highway 34-41- 61	Furniture, bedding	table, chair- 250 bedding-110	280 /9326
26.	Library No. 40, 4-th district	Nurijanyan Irina 36-15- 93	book, furniture	book 500 pieces	9 /2400
27.	Children and youth creative center 4-th district	Qocharyan Armen 36-15-94	furniture, paper, ink	few	50 / 500
		5. Erebuni			
28.	«Anania Shirakatsi» International Relations University T.Mets str. No. 65a	S.Afyan 57-11-77 o.	furniture	-	310/450 m ²
29.	Armenian Medical Institute Ayvazovski str. No.131	G.Mkhoyan 45-19-23 o.	furniture	-	400/2050 m ²
30.	Yerevan State agricultural college Burnazyan str. No.143	R.Tovmasyan 45-09-20o.	furniture	-	370/2200 m ²
31.	Tetev industrial state college Glinka str. No. 2	A.Strosyan 55-38-52 home.	furniture	-	380/4700 m ²
32.	Erebuni state medical college Titogradyan str. No.133	A.QuShkyan 47-07-70o.	furniture	-	390/1550 m ²
33.	after Tigran Chukhajyan Rostovyan str. No.23	S.Mirzoyan 45-08-80 o.	furniture	-	283/1259.84 m ²
34.	after Miqayel Maluntsyan Avanesov str. No.10	A.Melqonyan 47-02-10 o.	furniture	-	291/874.7 m ²
35.	Children and Youth creative center Erebuni str. No.15	A.RShtuni 45-54-80 o.	furniture	-	1000/3000 m ²
36.	No.8 handicraft college Avanesov str. No.1	V.Melyan 47-17-31 o.	furniture	-	27/2420 m ²
37.	No.9 handicraft college Vardashen 6-th str. No.66	A.Ghukasyan 45-13-65 o.	furniture	-	46/2700 m ²
38.	Kofoyed charity foundation Vardashen 9-th str. No.70	Sh.Khachatryan 45-58-65 o.	furniture	-	10/7700 m ²
39.	No.1 Republican special educational complex Vardashen 6- th str. No.68	L.Sargsyan 45-14-21 o.	furniture	-	70/2700 m ²
40.	Grigor Narekatsi MC Nor-Aresh str. No.22	L.Grigoryan 45-06-60 o.	furniture	-	474/3565 m ²
41.	Erebuni MC Titogradyan str. No.14	N.Mamikonyan 47-17-50 o.	furniture	-	1002/1.454.506 m ²
42.	Muratsan Hospital complex Muratsan str. No.114	K.Babinyan 45-01-50 o.	furniture	-	238/2.433.69 m ²

43.	No.1 children stomatological	M.Sargsyan	furniture	-	360/25 m ²
	policlinic Azatamartikner str. No.89	45-46-11o.			
	Erebuni historical and	G.Gyurjyan	furniture	-	48/173.9 m ²
44.	archaeological museum-reserve	43-26-61o.			
	Erebuni str. No.17	6 W .			
		6. Kentron			1
45	Opera and ballet national	Hovhannisyan Kamo			1600 / 6000
45.	academical theatre after	520241,586311			1600 / 6000
	Al.Spendiaryan Tumanyan 54	091412037			
46.	State national academical theatre	Davtyan Stepan			1120/7100
40.	after G. Sundukyan G. Lusavorich 6	589622 091220321			1130/7188
	Russian state dramatic theatre	Davtyan Fred			
47.	after Stanislavski	583681,583962			700 / 3342
47.	Abovyan 7	091463742			700 / 3342
	State musical comedy theatre after	Shahbazyan Karen			
48.	H.Paronyan	585423,488865			867 / 2060
40.	V.Sargsyan 7	091405304			807 / 2000
	Dramatic theatre of Yerevan after	071403304			
49.	H.Ghaplanyan	Khandikyan Armen			492 / 4495
1 ⊅.	Isahakyan 28	524713,247333			472 / 4473
	Youth theatre of Yerevan	Kheranyan Hayk			
50.	Municipality	563127,563040			437 / 2300
<i>5</i> 0.	Moskovyan 3	091318242			437 / 2300
	Musical comedy state theatre after	Shahbazyan Karen			
51.	H.Paronyan V.Sargsyan 7	582795 091405304			193/2060
	Puppet theatre after H.Tumanyan	Babayan Ruben			
52.	Sayat-Nova 4	520254 055430891			100/2400
	Youth chamber theatre of	J202J 1 0JJ 1 J0071			
53.	Yerevan	Yernjakyan Ara			170 / 1150
<i>J</i> J.	Mashtotsi 58	562118 091431413			170 / 1130
	Yerevan state circus	Petrosyan Iosif			
54.	Agatangeghos 1	526300,526372			1550 / 5760
<i>J</i> 1.	riguturigegrios i	091209555			1330 / 3700
	Yerevan state puppet theatre	Elbakyan Armen			
55.	Mashtots 43	562450,227861			106 / 200
	§National theatre	Mkrtchyan			
56.	Amiryan 23	Vardan539415, 420989			300 / 875
	1.1.1.1.74.11	077383845			
	Artists theatre after Mher	Badalyan Edgar			
57.	Mkrtchyan	564227,565709			193 / 454
	Khorenatsi 18	091492927			
	Chamber musical theatre	Hakoby³Ý Davit			2 42 4 222
58.	Proshyan 1 backstreet 1	521969 091405542			248 / 292
	Sport and concert complex after				
59.	Karen Demirchyan	Tsitsernakaberd park			
	YSU	Simonyan Aram			16000
60.	Alex Manoogian 1	554629			/ 131930
	Armenian state architectural	Vostanik Marukhyan			
61.	university	524629 .583498			11885 / 26000
	Teryan 105				
	Armenian state agrarian academy	Tarvedyan A.			
62.	Teryan 74	524541,654595home.			7056 / 37355
		Dumanyan Derenik			
63.	State medical university after	Dumanyan Deremk			4900 / 11115

	Koryun 2				
	Armenian state pedagogical				
	university after Kh. Abovyan	Mirzakhanyan			11000/
64.	Tigran Mets 17	526401			36257
1	2	3	4	5	6
	Yerevan state university of	J	-		
65.	architecture and construction	H. Tokmajyan			2500 / 4600
05.	Teryan 105	583773, 091431664			2500, 1000
	Yerevan state conservatory after	300775, 071131001			
66.	Komitas	Sh. Shahinyan			2050 /11000
	Sayat Nova 1a	581164,573325			2000,11000
	Yerevan state economical	301101,373323			
67.	university	Yu. Suvaryan			4905 / 15620
0	Nalbandyan 128	521720,267441			1703 / 13020
	Theatre and cinema state institute	321720,207111			
68.	of Yerevan	Mazmanyan A.			756 / 12794
00.	Amiryan 26	536221,480043			7507 12771
	Yerevan State linguistic University	350221, 1000 15			
69.	after V.Bryusov	Zolyan S.			4200 /
07.	Tumanyan 42	530552, 534806			12530
	Yerevan state art academy	Isabekyan A.			
70.	Isahakyan 36	560726,581618			1100 / 3067
	Armenian state institute of	300720,301010			
71.	physical culture	Arakelyan V.			2400 /
/1.	Alex Manoogian 11	556281,534372			8798
	§Moscowi LLC	Martun Adoyan			
72.	Abovyan 18	523930,521270			1060 / 6295
12.	Abovyan 16	091402102			1000 / 0293
	§Ulis CJSC §Nairi c/t	Artur Manucharyan			
73.	Mashtots 50	542829,566110			760 / 1060
	§Armenian state philharmonic	J 1 2027,300110			
	orchestra SNCO	R. Sirunyan			
74.	Aram Khachatryan's concert hall	561460 091308113			1662 / 11300
	Mashtots 46	301100 071300113			
	"Armenian state Philharmony,	G. Manasyan			
75.	Abovyan 2	566705,567028			840 / 1760
75.	7100V yan 2	099240505			010 / 1700
	Chamber music house after	A. Tsaturyan			
76.	Komitas Isahakyan 1	523275 099228812			848 / 2700
	Culture and sport republican	323273 033220012			
77.	palace of deaf-and-dumb	Varagyan J.			1512 / 1535
77.	Eznik Koghbatsi 69	220450,533536			1312 / 1333
	§Hrazdan central stadium! CJSC	220 130,330300			
78.	Hrazdan valley 4/1	Jamharyan G.			30131 / 14700
70.	Titazdaii vancy 1/1	585191			50151 / 11700
	AFF Republican stadium after	505171			
79.	V.Sargsyan, CJSC	Khachatryan V.			15035 / 57250
	V.Sargsyan, CJSC Vardanants 65	558369 091430351			15005 / 57250
80.	Armenian national book chamber	Qochar 21			52
<i>0</i> 0.	Yerevan branch of tourism and	Quellal 21			92
81.	service state institute of Russia	Isahakyan 18			92 914 m ²
	Service state mistitute of Russia				52
		•			

83.	"Gladzor,, management university	Grigor Lusavorich			90
		7/1			800 m ²
84.	«Urartu» university of practical psych. and sociology	Koryun 19a			11 105 m ²
85.	"Interlingua,, linguistic university	Pushkin 21/1			30 550 m ²
86.	Yerevan humanities institute	Amiryan 26			
87.	"Medical University after Saint Teresa,,	Mashtots 54/a			60 350 m ²
88.	Northern University of Yerevan	Alex Manoogian 15			112 1721 m²
89.	"Hrachya Acharyan,, University	Moskovyan 3			56 1620 m ²
90.	"Martig", external economical relations university	Myasnikyan 5			56 244 m²
91.	"Mesrop Mashtots,, university	Heratsi 2			8 500 m ²
92.	Yerevan branch of Moscow entrepreneurship international academy	Koryun 12			383 44 m ²
93.	"Culture,, university	Teryan 105			28 94 m ²
94.	Yerevan judicial expertise institute	Hanarapetutyan 19			40 280 m ²
1	2	3	4	5	6
95.	University after Movses Khorenatsi	Teryan 105			58 1730 m ²
96.	"Vilyam Saroyan,, University	Tigran Mets 42			30 150 m ²
97.	Economical and juridical university after Avetik Mkrtchyan	Shahumyan 32/1			40 291 m ²
98.	Finance, banking, exchange university	Byuzand 1/3			18 180 m ²
99.	Yerevan division of St. Petersburg foreign relations, economical relations, economy and right institute	Heratsi 7			64 730 m ²
100.	"Monte Melkonyan,, university	Khanjyan 19			-
101.	State dance college	Bayron 5			115/390 m ²
102.	State music college after Romanos Melikyan	Mashtots 11a			220/430/ 1223 m ²
103.	State base medical college	Koryun 10			308/2400/4142 m ²
104.	Finance and banking college	Amiryan 26			2/200/710 m ²
105.	College No. 2	Tigran Mets 34			60/175 200 m ²
106.	"Tashir,, trade centre	Khorenatsi 33			155/27000 m ²
107.	Armenian market/market No.2	Khorenatsi 35			200/12603 m ²
108.	market No.1	Mashtots 5			230/5300 m ²
109.	Vagharsh and sons LLC	Khorenatsi 24			79/88 m ²
110.	"Hrayr Harutyunyan " LLC	Abovyan 35/1			60/2300 m ²
111.	,, Ayrarat ,, fair	Tigran Mets 36			500
112.	"Polyclinic No.1,, HCCJSC	Leo 17			97

					100 patient 134 bed/
113.	"Medical centre after Vl. Avagyan,,	Moskovyan 15			125 80 patient /2400 m ²
114.	"Special polyclinic,, CJSC	Teryan 129			110/150/ 1871 m ²
115.	Scientific research center of maternal and child health protection CJSC	Mashtots 22			295 103 / 97/6520 m ²
116.	Medical union No.2	Aram 54			140 143/5265 m ²
117.	Yerevan's Kentron and Nork- Marash regional expertise center of Hygiene and anti-epidemic inspection of MH RA	Leo 7			74/815 m ²
118.	RA MH Center for prevention of special dangerous infections	M. Heratsi 12			103/1434 m ²
119.	§Polyclinic No. 17 HCCJSC	Tigran Mets 36a			178 80-90 patient/3194 m ²
120.	§Firs medical aid! SCJSC	Dzorap 40			227/3500 m ²
121.	University Hospitals after M. Heratsi	Abovyan 60			619/9331 m ²
1	2	3	4	5	6
122.	"Hospital of convicted persons" criminal-executive establishment of criminal-executive department of the Ministry of Justice	Arshakunyats 2			169 450 patient/2,7ha
123.	Cenetr of family planning and sexual health	Abovyan 56			278/6323.7 m ²
124.	3rd clinical hospital of Yerevan city	Dzorap 40			289/ 240-310 bed/7265 m ²
125.	" Polyclinic No. 4,,	Moskovyan 13			119/2418 m ²
126.	"Nairi medical center,, CJSC	Paronyan 21			278/2233,30 m ²
127.	Polyclinic No. 7	Kilikia 4 th bld.			27/310 m ²
128.	"Center of urology,, CJSC	Abovyan 54			92/1379 m ²
129.	"Republican children recovery center,, CJSC	Old highway of Echmiadzin 109			87 60 20 1000 m ²
130.	"Saint Mary healthcare complex,, LLC	Abovyan 54			13 50/58 m ²
131.	Center of medical genetics and primary health care	Zakyan 5/1			27/540 m ²
132.	Medical department of RA police	Abovyan 54			225/300/ 4203 m ²
133.	Medical-healthcare multiprofile complex	M. Khorenatsi 26a			16/167 m ²
134.	Armenian-American health center	Heratsi 5			35 70/800 m ²
135.	"Manuk", polyclinic	Abovyan 60			102/850 m ²
136.	"Artamed,, LLC	Paronyan 21			36/

					3600 m ²
137.	«Van» CJSC stomatological center	Tumanyan 23			149/80/1100 m ²
138.	Stomatological center after prof. Yeghiyan CJSC	Yekmalyan 6			25/20/3987 m ²
139.	"Arz,, stomatological center	E. Kochar 9			61/530 m ²
140.	"Beladent,, stomatological center	Paronyan 28a			58/826 m ²
141.	Ophthalmologic clinics	Abovyan 60/1			34/1665 m ²
142.	No.1 stomatological polyclinic of university	Heratsi 5			19/16/800 m ²
143.	No.1 clinical hospital	Abovyan 58			158/50 14880 m ²
144.	"Exhibition centre,, SNCO	Demirchyan 31			12
145.	"National Gallery of Armenia,, SNCO	Aram 1			150/200
146.	Natinal art museum of Armenia	Abovyan 64			34/17
147.	Museum of Parajanov	Dzoragyugh, ethnographic district 15/16			14/50
148.	"Museum of Spendiaryan,, SNCO	Nalbandyan 21			11/35
149.	"Aram Khachatyryan museum,, SNCO	Zarubyan 3			29/150
150.	"Museum of A.Isahakyan,, SNCO	Zarubyan 20			17/50
151.	"Literature and art museum after Y.Charents,, SNCO	Aram 1			58/30
1	2	3	4	5	6
152.	"Museum of Y.Kochar,, SNCO	Mashtots 39/12			12/35
153.	,, Museum of Y.Charents,, SNCO	Mashtots 17			14/60
154.	" Museum of H.Tumanyan,, SNCO	Moskovyan 40			18/100
155.	"History museum of Armenia,, SNCO	Republic Square			91/60
156.	"Museum of Russian art,, SNCO	Isahakyan 38			14/22
157.	"Service for protection of historical and cultural museum- reserves and historical environment,, SNCO	Tairov 15			41
158.	"Amaras,, publishing house CJSC Teryan 44	Asryan Arkadi 560479, 093911191			15/725 m ²
159.	Central library after A.Isahakyan Nalbandyan 4/1	Karapetyan Hasmik 589610, 093237736			164/468 m ²
160.	Natinal library of Armenia Teryan 72	Sargsyan Davit 584295, 093401725			358/7000 m ²
161.	National children's library after Khnko Aper, Teryan 42/1	Tonoyan Ruzanna 521222			127/3360 m ²
162.	"National book chamber of Armenia,, G.Kochar 21	Beqmezyan Hovhannes 527595, 093543973			51/971.7 m ²
163.	Matenadaran SRI of old manuscripts after Mashtots Mashtots 53	Tamrazyan Hrachya 583292			160/3000 m ²
164.	§Public radio company of	Amiryan Armen			

	Armenial CJSC A.Manukyan 5	551143			300/6480 m ²
165.	"Yerevan cognac factory,, CJSC Ts. Isakov 2	Grigoryan Ara 540000, 510100			223/56404 m ²
166.	"Gh-Telekom, CJSC Argishti 4/1	Yirikyan Ralf 568777, 093298001			670/ 6965 m ²
167.	Congress Hotel Italy 1	Dina Paskolini 580095			60/2925 m ²
168.	«Hotel Europe» CJSC Hanrapetutyan 38	Sukiasyan Varujan 546060			45/695
169.	"Shirak", LLC Khorenatsi 13a	Ghazaryan Zoya 529915, 523989			51/1431
170.	«Veratsnund Hayrapetyan» Gr. Lusavorich 7	Hovhannisyan Haykaz 510000			14/5340.7
171.	Children and youth sport and technical center after A.Ghulyani, N/N 1st massive, Jugha 1	7. Nor Nork Aram Khachatryan 63-31-00	Property of cultural center	-	230pupil 15workers/ 227.0
172.	Cultural center of Nor Nork district, N/N 2nd massive, Gai str. 19	Alvina Harutyunyan 63-15-20	Property of cultural center	-	500pupil 26workers
173.	Nor Nork educational methodical scientific production center, N/N 6th massive, Luxembourg 2 backstreet	Gevorg Vardanyan 66-35-82	Property of cultural center	-	355pupil 40workers/ 2600.0
174.	Central library of Nor Nork district, N/N 1st massive, Nansen 20	Nazeni Arzumanyan 64-71-98	Property of library	-	36 workers/ 370.0
175.	"Surb Grigor Lusavorich" MC CJSC, N/N 3rd massive, Gyurjyan 10	Ara Minasyan 63-34-21	Property of hospital	-	940 workers/ 37200.0
176.	"Surb Grigor Lusavorich" MC children polyclinics N/N 3 rd massive, Gyurjyan 8	Artsruni Hakobyan 64-70-56	Property of polyclinic	-	120 workers/ 4664.0
177.	"Surb Grigor Lusavorich" MC	Artsruni Hakobyan	Property of polyclinic	-	166 workers / 4664.0
178.	Adult polyclinic N/N 3rd massive, Gyurjyan 8	64-60-03			
179.	"Surb Grigor Lusavorich" MC maternity hospital N/N 3-rd zangvats Gyurjyan 6	Vardan Rapyan 63-25-10	Property maternity hospital	-	233 workers / 7972.0
180.	No.22 polyclinic N/N 9th massive, Vilnius 46	Lyudmila Mkrtchyan 66-62-20	Property of polyclinic	-	135 workers / 150.0
181.	Nor Nork and Avan regional center of State hygienic and anti-epidemic inspection of the Ministry of Healthcare of RA, N/N 2nd massive, Moldovakan 54	Sargis GHukasyan 63-28-80	Property of inspectorate	-	18 workers / 185
182.	"Goydent" stom. center, N/N 1st massive, Lvovyan 5	Gohar Ohanyan 64-41-00	Property of stom.	-	33 workers / 896
183.	Children stom. centyer "after E. Mnatsakan", N/N 1st massive	Elizaveta Mnatsakanyan 64-00-80	Property of stom.	-	29 workers / 392

	Nansen 1ª				
		8. Nork-Marash	•	1	1
184.	Armenakyan str. 197 ^a "Norq,, boarding house	A.Danielyan 65-27-71	wood	-	30
185.	Armenakyan str. 119 "Orphanage" No.2	L.Karapetyan 65-12-91	wood	-	25
186.	Norq gardens 193, deaf-and-dump boarding school	A.Avetisyan 65-21-14	wood	-	25
		9. Nubarashen			
187.	Office of the Head of Nubarashen district Nubarashen 9str. 4	Hovhannisyan M. 476050	wooden furniture	-	26/ 81.9
188.	Nubarashen division of RA police Nubarashen 14str. 17	Karapetyan H. 476250	wooden furniture	-	
189.	Sport and cultural center of Nubarashen NGNCO Nubarashen 9str.	Hovhannisyan R. 475487	wooden furniture	-	22/377
190.	Children care and protection boarding institution of Yerevan No.2 NGNAO Chnqushi 14	Stepanyan T. 476060	wooden furniture	-	72/1926
191.	No.11 special/ school for mential defectives of Yerevan Nubarashen 6str. 1	Muradyan KH. 476120	wooden furniture	-	58/1800
192.	Nubarashen hosiery factory OJSC Nubarashen 15str	Ghadyan E. 475292	wooden furniture	-	10/1530
193.	No.34 library of Nubarashen NGNCO Nubarashen 9str.	Gorqmazyan V. 475487	wooden furniture	-	4/196
194.	Nubarashen regional center of social service Chnqushi 14	Tevosyan A. 475328	wooden furniture	-	3/500
195.	Health service LLC Nubarashen Nubarashen 1/3	Gasparyan G. 475006	Furniture, bedding	-	10/12000
196.	G.Narekatsi MC Nubarashen's polyclinic Chnqushi 4	476051	Furniture, bedding	-	34/426
197.	MH CJSC, psychiatric clinic of Nubarashen Nubarashen 1/3	Ananyan A. 475571	Furniture, bedding	-	147/8445
		10. Malatia-Sebastia			
198.	<malatia hayordats="" tun=""> Sebastia 32/2</malatia>	M. Galstyan 74-69-39	property		300/70
199.	No. 19 polyclinic HCJSC Andranik 2a	S. Sargsyan 74-29-01	property		8202/180
200.	No. 9 children. Andranik 2a	E. Sargsyan 74-19-10	property		0.12/131
201.	No. 4 children stomatological polyclinic Ohanov 9	E. Harutyunyan 72-04-22	property		666.8/30
202.	<neladent> CJSC stom. center Babajanyan 29</neladent>	E. Eghikyan 72-44-00	property		2000/36

	I	T		1	T
203.	<malatia> MC Varujan 28a</malatia>	A. Asatryan 77-30-00	property		3500/ 530
204.	No. 15 polyclinic, Sebastia 9	H. Harutyunyan 74-48-38	property		857/145
205.	SHAI expertise center, Sebastia 9	K. Strosyan 74-79-38	property		451.67/40
206.	"Pharmatech,,CJSC Raffi 111	V .Arushanyan 74-36-20	property		9.49/28
207.	"BETS,, CJSC Andranik 1	S. Abrahamyan 72-00-10	property cable		460/150
208.	"BETS,, CJSC "Central,, branch, Andranik 1	R. Atoyan 72-30-01	property cable		13.37/99
209.	Center for social service of handicapped and aged lonely people in home conditions Andranik 74	L. Aghajanyan 74-04-02	property		1270/74
210.	,,Metaqs,, OJSC Sebastia 37	G. Qocharyan 74-30-99	property		8317.4/30
211.	"Krunk", CJSC Shirak 15	H.Petrosyan 77-15-49	property		1180/175
212.	"Marianna,,LLC Haghtanak 6th str. house 17	T. Vardanyan 73-12-62	property		1800/38
213.	"Babik-90,, Haghtanak 4/1th str.	G. Deghoyan 73-12-77	property		1200/12
214.	"Malatia Gardening,, Jambul 29	N. Balagozyan 74-30-76	property		500/15
215.	"Anush,, LLC, Vantyan 61a	D. Soghomonyan 77-29- 11	property		0.24/85
216.	LX / TX Andranik 72. 73.74 Ohanov 50/3	A. Danielyan 54-96-58	cable property		3000/122
217.	,,Yerevantrans,, CJSC Leningradyan 16	M.Hambardzumyan 39- 13-30	property		5843.73/290
218.	No1. boarding house of Yerevan Haghtanak 2-nd str.	A. Gyurjyan 72-39-10	property		3.5ha/244
219.	"Armenia IA,, CJSC Zvartnots 42	Marselo Vende 49-39-00	property		3.62/2670
220.	"Tosp,, OJSC Tichina str. 2	S. Bekirski74-20-78	property		2066/350
221.	"Nairi CF,,LLC Shahumyan 4 th str. 73	V. Aghjoyan74- 54-10	property		200/10
222.	Library system Sheram 75	L. Sargsyan 72-34-70	property		17/379m2
223.	Library G. Haghtanak 12str. bld.32	S. Gishyan	property		3/150m2
1	2	3	4	5	6
224.	"NIIP Alfa,, CJSC Shrjanayin 2/2	R. Alumyan 77-71-42	property		3930/25
225.	"Rafayel Tatev,, LLC Svachyan 1 2 / 7	K. Sargsyan 74-45-45	property		6000/1200
226.	"Holy Mother of God,, MC maternity hospital B-4 h.	N. Dallakyan 46-18-41	property		3.0003ha/ 232
227.	"Hayatom,, CJSC Isakov 50	V. Petrosyan 74-21-30	property		5000/98
	*	H. Tadevosyan	property	1	6 workers. 90

220	Food production technical school	A.Vardanyan 441403,			70/679
229.	Arshakunyats 40	home. 487668			
230.	Fine art college after	Arushanyan Narek		-	89/715
250.	P.Terlemezyan, Arshakunyats 39	443804, 442672 442542			3600m ²
231.	Yerevan State culture college,	Sargsyan Nadejda			5 0/250
	Bagratunyats 37	480580, 480581			2000m ²
232.	State Industry college, G.Njdeh 23	Sargsyan Aghasi 460344, 429425			65/456 3600 m ²
	Pedagogy college after A.Bakunts,	Kostanyan			56/400
233.	G.Njdeh 20	Vardges			1838 m ²
	,	440231, 443409			
234.	Yerevan State technology college,	Melqonyan Anahit			40/275
254.	Bagratunyats 71	480641, 487140			
	Craftsmanship high school No.1	Davtyan Slavik			42/202
235.	Arshakunyats 65	443701, 443200			5019 m ²
		443701			20/010
236.	Children and youth sports Olympic fencing school of Armenia sport	Navasardyan Aleksan 485314			23/218
230.	union, Noragavit 1str. bld.99	403314			
	Cycle racing school under	Hovhannisyan Hovhanes			16/183
237.	Aremenian State Sports	441454			-,
	Committee Bagratunyats 48				
		Vardanyan Robert			90/500
238.	Quantum college, Bagratunyats	460391, 423382 122217,			2400 m ²
	23/2	099473336			
	N. 26	091221395			
239.	No. 26	Manucharyan Donara			
239.	"Vachi" OICC	Withing Charly all Dollara			
	«Kashi» OJSC	3	4	5	6
1	2	3	4	5	6
	2 No.41 41 «Hayelektrameq» CJSC	3 Dallaqyan Mariam		_	6
240.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5	3 Dallaqyan Mariam 426549		_	6
1	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana			6
1 240. 241.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801			6
240.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna			6
1 240. 241. 242.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465			6
1 240. 241.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna			6
1 240. 241. 242. 243.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465			6
1 240. 241. 242.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya			6
1 240. 241. 242. 243. 244.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara			
1 240. 241. 242. 243.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601			40
1 240. 241. 242. 243. 244.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet			40
1 240. 241. 242. 243. 244.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451	 		
1 240. 241. 242. 243. 244.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik	 		40
1 240. 241. 242. 243. 244. 245. 246.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73	Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840,	 		40 150
1 240. 241. 242. 243. 244. 245. 246.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik	 		40 150 150
1 240. 241. 242. 243. 244. 245. 246.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik Azati	 		40 150
1 240. 241. 242. 243. 244. 245. 246. 247.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC	3 Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik	 		40 150 150
1 240. 241. 242. 243. 244. 245. 246.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC Arshakunyats 67	Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik Azati 442674, home. 529533			40 150 150
1 240. 241. 242. 243. 244. 245. 246. 247. 248.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC Arshakunyats 67 "Plastpolimer" SRI	Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik Azati 442674, home. 529533 Oskanyan Patvakan			40 150 150 100 34
1 240. 241. 242. 243. 244. 245. 246. 247.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC Arshakunyats 67 "Plastpolimer" SRI Arshakunyats avenue 127 "Ariaq" Applied chemistry SRI Bagratunyats street No. 70	Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik Azati 442674, home. 529533 Oskanyan Patvakan 488090, 077240223 441852			40 150 150 100 34 80
1 240. 241. 242. 243. 244. 245. 246. 247. 248.	No.41 41 «Hayelektrameq» CJSC in the yard of G.Njdeh bld.5 No. 82 «Kabel» CJSC G.Njdeh 12 No. 176 «Hayelektrameq» CJSC Shirak 15 No. 216 «Hayelektrameq» CJSC Eghbayrutyan 11a «Elektron» CJSC Sharur 5 «Viasphere» technopark CJSC Arshakunyats 41 «Neytron» SPU Bagratunyats str. 73 «Andron» SRI of CE Manandyan str. 33 «Dvin» concern CJSC Arshakunyats 67 "Plastpolimer" SRI Arshakunyats avenue 127 "Ariaq" Applied chemistry SRI	Dallaqyan Mariam 426549 Mnatsakanyan Svetlana 421801 Alanakyan Susanna 429465 Barseghyan Amalya Hakobyan Tamara 420891 Vardanyan Aram 442188, home. 487601 Badalyan Hamlet 481390, home. 571451 Demirchyan Galik Hrachi 423840, Sargsyan Rafik Azati 442674, home. 529533 Oskanyan Patvakan 488090, 077240223			40 150 150 100 34

252.	No. 17	Khachatryan Sofia			11
	Bagratunyats 1 backstreet bld.9	421292			
253.	No. 32 N.Shnegavit 12str. house 15	Khachatryan Susanna 480601			6
254.	No. 35 Noragavit 1str. 95a	Nkrtchyan Shushan 484587			2
255.	«Holy Mother of God» MC CJSC branch (former No.6 medical union) Bagratunyats 1	Tonoyan Taron Artashesi 421183, 091411589 home. 442593			144 3550 m ²
256.	«Holy Mother of God» MC CJSC (former «Ambulance» children clinical hospital) Artashisyan 46a	Dallaqyan Nikolay Hovhannesi 461841, 461740 228189,091400714			462 0,0245 m ²
257.	«Shnegavit» medical center (former No. 3 maternity hospital) Manandyan 9	Urumyan Sergey Aleqsandri 449503, home, 523636			320 4955 m ²
258.	«Holy Mother of God» MC CJSC «Arshakunyats polycl.» (former No.18 polyclinic) Arshakunyats 43	Petrosyan Gagik Sergeyi 440223, 440123 091821835			139 5600 m ²
259.	«No. 4 medical. clinic» Bagratunyats 70	Harutyunyan V. 449162			
260.	No. 13 polyclinic SCJSC N.Shnegavit 9th str. 32	Galstyan Aram Hovhannesi 482151, home. 365240			148 0,195 ha
1	2	3	4	5	6
261.	No. 3 children stomatological polyclinic, Chekhov 14	Khachatryan Irina Levoni 461606, home. 268778			40
262.	Stomatological center «Denta elita» (former No. 3 stomatological polyclinic) Bagratunyats12	Harutyunyan Zohrab Tatuli 420162, home. 562139			82 695 m ²
263.	No. 23 polyclinic «Noragavit» SCJSC Noragavit 1str. 7	Araqelyan Sargis home. 581834			78 887 m ²
264.	Shengavit regional Center of State HASI (Hygienic and anti-epidemic Supervision Inspection) Araratyan 4	Antonyan Gayane 480501, 480040 home. 447553			60
265.	No. 14 drugstore «Aleks» PE «Devit farm» LLC G.Njdeh 29	Davtyan Aram 445672			20
266.	No. 8 drugstore «Shnegavit» PE Bagratunyats 14	Mandel Igor Aroni 421633 home. 265458			35
267.	«Holy Mother of God» Red hill (former No. 9 polyclinic) Red hill street No. 27	Sargsyan Hakob 461470 home. 583012			58
		12. Qanaqer-Zeitun			
268.	CLC (Centralized library complex) NGNCO, Dro 16a	Meloyan Tsovinar 28-42-66	Property of school		86/ 411m²

269.	Yerevan special educational complex №8 for children with	Varduhi Kheboyan 28- 53-51	Property of school		176/ 3179 m ²
270.	speech disorders «Zeitun culture center» NGNCO D. Anhaght 21	Sargsyants Aram 24-92-84	property		61/ 662 m ²
271.	«Museum of Kh. Abovyan» SNCO Qanaqer 2 str. 4	Zatikyan Hovhannes 28-46-86	property		22/ 7139 m ²
272.	Music college after A.Babajanyan Azatutyan 18	Harutyunyan Armen 28-53-20	Property of college		360/ 7778 m ²
1	2	3	4	5	6
273.	European college foundation in Armenia D.Anhaght 10	Gasparyan Tigran 091-43-56-65	Property of college		463/ 1500 m ²
274.	Yerevan State Humanities Technical college A.Tigranyan 21	Margaryan Aghasi 25-06-18	Property of college p		447/ 4987 m ²
275.	European Educational Regional Academy D.Anhaght 10	Avetisyan Andranik 24-27-46	property of university		1500/ 3762 m ²
276.	«French University in Armenia» foundation, D.Anhaght 10	Anna-Mari Shloser 24-96-51	property of university		1040/ 3888 m ²
277.	Eurasia International University Azatutyan 24	Ohanyan Suren 24-94-38	property of university		673/ 5639 m ²
278.	Armenian Stata University of Economy, Faculty of informatics and statistics P.Sevak 77	Aroan Koryun 52-17-20	property of university		651/3361 m ²
279.	«Institute of Chemical Physics after A.B. Nalbandyan» SNCO NAS RA P. Sevak 5/2, 5th floor	Tavadyan Levon 28-14-81	Chemicals		79/8224 m²
280.	«Institute of apllied problems of physics» SNCO NAS RA Hr. Nersisyan 25	Mkrtchyan Artak 28-18-61			230/ 13265 m ²
281.	< <scientific and="" technological<br="">center of organical and pharmaceutical chemistry>> SNCO NAS RA Azatutyan 26, Z. Qanaqertsu 167ª</scientific>	Topuzyan Vigen 28-83-34	Organic and inorganic chemical substances		303/1950 m ²
282.	< <institute biology="" molecular="" of="">> SNCO NAS RA Hasratyan 7</institute>	Boyajyan Anna 28-20-61	Organic and inorganic chemical substances		128/ 11529.4 m ²
283.	Institute of problems of informatics and automatization NAS RA P. Sevak 1	Sahakyan Vladimir 28-20-80 57-70-90	Property of institute		238/ 12028 m ²
284.	Institute of Biochemistry after Buniatyan NAS RA P. Sevak 5/1	Gevorgyan Gevorg 28-18-40 28-18-01	Organic and inorganic chemical substances		158/ 13041 m ²
285.	Scientific center of zoology and hydroecology SNCO NAS RA P. Sevak 7	Sargisov Gagik 28-59-61	property		112/ 12675 m ²

287. Scientific medical center Hr. Nersisyan 7 288. Scientific medical center Hr. Nersisyan blind alley 19 288. Yerevan anti-tuberculosis dispensary Rubinyants 7 289. Property, medicine 289. Property, medicine 289. Property, medicine 289. Property, medicine 289. Professor Yolyan>> CJSC Hr. Nersisyan 7 National oncological center after V.A.Fanarjyan CJSC Fanarjyan 76 290. Scientific medical center after Property, medicine 288. Daghbashyan Smbat 288-38-93 Property, medicine 289. Galstyan Hayrapet 28-69-62 28-70-22 291. CJSC Tamazyan Artur Property, medicine 291. CJSC Tamazyan Artur 28-15-51 Property, medicine		3794/ 13.500 m ² 258/ 6300 m ² 248/ 7800 m ² 1068/ 38.113 m ² 351/ 3230 m ²
288. Yerevan anti-tuberculosis dispensary Rubinyants 7 289.		258/ 6300 m ² 248/ 7800 m ² 1068/ 38.113 m ²
288. Rubinyants 7 Color Rubinyants 7 Rubinyants 7 Color Rubinya		248/ 7800 m ² 1068/ 38.113 m ²
289. Professor Yolyan>> CJSC Hr. Nersisyan 7 National oncological center after V.A.Fanarjyan CJSC Fanarjyan 76 CMikayelyan surgical institute>> CJSC Daghbashyan Smbat 28-38-93 Property, medicine Property, medicine Property, medicine Property, medicine Property, medicine Property, medicine		1068/ 38.113 m ²
290. V.A.Fanarjyan CJSC Fanarjyan 76 Colored Salstyan Hayrapet 28-69-62 28-70-22 Colored Salstyan Hayrapet 28-69-62 28-70-22 Colored Salstyan Hayrapet 28-69-62 28-70-22 Tamazyan Artur 28-15-51 Property, medicine 28-15-51		38.113 m ²
291. CJSC Tamazyan Artur Property,		351/3230 m ²
		55 1, 5 2 50 111
292.		296/ 380 m ²
293. < <gapeks>> ophthalmologic clinic Gabrielyan Robert Property, medicine</gapeks>		11/ 257.5 m ²
294. < <normed>> MC Altunyan Surik Property, Hr. Nersisyan 6 28-95-28 medicine</normed>		48/ 318.9 m ²
295.		83/ 1546 m ²
296. «MTSKH» surgical medical center Ter-Avetiqyan Zareh Property, Hr. Nersisyan 7 28-50-99 medicine		31/ 1200 m ²
297. «Special polyclinic» CJSC of MH RA Hovhannisyan Anna 20- Property, Hr. Nersisyan 7 93-13 medicine		147/ 814.3
Chemically dangerous facilities		
Arabkir R.Harutyunyan technical and	22 t	682 / 27.5 ha
1 «Grand-San» LLC 28-22-62 nitric acid	644kg	082 / 27.3 Ha
Ajapnyak		
2 §Elite Shant LLC ammonia	3t	
3 §Yerevan Katl LLC ammonia	1,6 t	
Erebuni ammonia	15t	
4 §Factory of fine iron OJSC animolia acid	50t	
5 §Urartul OJSC	1,6 t	
6 §Haykl CJSC	3t	
7 §Golden penguin¦ LLC	1,6 t	
Kentron Pear of Variation CICC Pearl decourse Ash et 52 communication		
8 «Beer of Yerevan» CJSC Baghdasaryan Ashot 52- ammonia 48-69	5t	450 /20000m2
9 "Dzyunik refrigerator", LLC L.Margaryan ammonia 52-62-00	12t	200 /2.34ha
Shnegavit		
10 §Nairit factory CJSC ammonia chloride	112	
11 Grand Candy §Armenian- ammonia	33	1

	Canadian JE LLC								
Qanaqer-Zeitun									
12	«Yerevan's factory of champagnes and vines» OJSC Tbilisyan highway 20	Hakobyan Fiameta 28-54-76	ammonia		200/				

In Yerevan city there are 39 explosive facilities,

159 fire-explosive facilities,

279 fire prone facilities,

12 chemically dangerous facilities

The number of people evacuated after the earthquake by time frame

		Population evacuated one day after the event		Population evacuated four days after the event		Population evacuated one month after the event	
Administrative district	Population	Population to be evacuated	Population living in shelters	Population to be evacuated	Population living in shelters	Population to be evacuated	Population living in shelters
Ajapnyak	108,200	58,903	38,287	57,196	37,177	52,894	34,381
Avan	51,000	35,982	23,388	34,510	22,431	31,148	20,246
Arabkir	130,800	83,171	54,061	79,102	51,416	70,464	45,802
Davtashen	41,100	16,874	10,968	15,757	10,242	12,907	8,389
Erebuni	121,900	79,235	51,503	76,502	49,726	70,835	46,043
Kentron	130,600	91,313	59,353	89,283	58,034	84,818	55,131
Malatia-Sebastia	141,800	65,341	42,471	63,418	41,222	58,007	37,704
Nor-Nork	147,000	89,769	58,350	84,574	54,973	73,089	47,508
Nork-Marash	11,300	8,174	5,313	7,917	5,146	7,403	4,812
Nubarashen	9,700	6,176	4,015	5,835	3,793	5,143	3,343
Shengavit	146,500	85,810	55,776	83,081	54,003	77,185	50,170
Kanaker-Zeytun	79,300	50,584	32,880	47,538	30,899	41,147	26,746
Yerevan city	1,119,200	671,331	436,365	644,712	419,063	585,041	380,277

Appendix 2 of Mayor's decision N ____ dated on «__»___ 2012

FUNCTIONAL RESPONSIBILITIES OF THE STAFF OF THE TEMPORARY SHELTER

Evacuation is one of the main ways of population protection. It is carried out by means of temporary transfer and distribution of people from dangerous places to safe areas. Evacuation takes place in case of occurrence or the direct threat of emergency situations due to which certain factors having negative influence on the everyday conditions of life and vital activity can arise in specific areas (residential areas, facilities).

Population can be evacuated in a pedestrian way or by means of transport, motorcades, railway rolling stock and water transport.

Evacuation bodies during emergency situations and martial law are guided by the RA law about "Population protection in emergency situations", the decisions of the RA Government N 1180-N about "Approving the order of population evacuation from a dangerous territory" dated on August 18, 2011 and N 824-N about "Approving the order of life provision of evacuees in distribution places" dated on June 24, 2010 as well as the decision of the Mayor of Yerevan city about "Evacuation of population of Yerevan city during emergency situation and martial law" dated on March 3, 2010.

The overall management of evacuation activities is carried out by the evacuation committee established by the decision of the Mayor of Yerevan city which organizes and manages the activities of evacuation and distribution of population and organizations of Yerevan city.

Temporary shelters (TS) are set up for the purposes of complete implementation of reception and distribution activities of homeless population. One or more temporary shelters can be set up in a residential area on the principle of serving as many people as possible. Temporary shelters are established in free, green areas or similar places in the form of tent or container house area. TS are provided with communication means, medical centers, rooms (tents) of mother and child and rest taking into account the requirements of 3,5m² per person, food provision, availability of utilities and anti-fire norms. It is important to envisage also means giving an opportunity to handicapped people and invalids to move.

Portions of life provision of population in emergency situations are mentioned in the plan on "Preparatory activities of the process of life provision of population in emergency situations" approved by point 1 of the decision N 2380-A of the Mayor of Yerevan city dated on March 12, 2012.

GENERAL TASKS OF THE STAFF OF TEMPORARY SHELTERS

1. During everyday activities

- Development of documents of TS and those for the planning of evacuation and their in-time clarification together with the evacuation committee,
- Planning of activities carried out TS during population reception,
- Preparation and periodic checking of the territory, forces and means.

2. Upon receiving the order of bringing into readiness

- Checking of schedule of population reception,
- Organization of bringing into readiness and activities of deployment,
- Organization of food, means of life provision and provision of first aid of population in TS,
- Maintenance of public order,
- Checking of the number of arriving population (by health, sex-age peculiarities) with the help of the secretary of the evacuation committee.

3. upon receiving the order of distribution of population

- Registration, distribution and organization of life provision of arriving population,
- Involvement of volunteers in the activities being carried out,
- Organization of medical provision of the sick in TS,
- Provision of periodic information to the evacuation committee about the activities being carried out.

Reception and registration group

- Carries out the registration of arriving population,
- Provides information to the head of TS about arriving population,
- Cooperates with working groups included in the evacuation committee permanently,
- Establishes communication with the evacuation committee, attached evacuation points, temporary distribution points and long-term settlement places.

Public order maintenance group

- Organizes patrol service in TS,
- Secures maintenance of public order in TS,
- Stays in permanent touch with other groups of TS.

Inquiry desk

- Organizes the activities of inquiry during the whole process of work,
- Cooperates with all the working groups of TS and other inquiry desks of evacuation bodies,
- Possesses corresponding information and provides the population with the information about the distributed people within its competency,
- Establishes a permanent communication with the evacuation committee,

- Reports to the head of TS about the orders and instructions of the superior evacuation bodies.
- Periodically informs the evacuation committee about the process of distribution of population.

The commandant

- Organizes and keeps the approved order in TS territory,
- Decides parking places of means of transport,
- Provides necessary equipment, devices and signboards,
- Organizes the preparation of working rooms and rooms necessary for the arriving people.

Mother and child's room (tent, container house)

- Provides the reception of nursing mothers and children, their accommodation and care,
- Organizes the order and sanitary condition of rooms (tents) in TS.

Medical center

- Organizes and provides necessary medical aid to the people in TS,
- Supervises the maintenance of sanitary condition in the building and territory,
- Takes measures for the detection and isolation of people having infectious diseases among the arriving population,
- Takes preventive measures by the instruction of the head of the medical service.

Group of acceptance and distribution of food and other material means

- Cooperates with corresponding working groups of evacuation committee,
- Carries out provision of necessary food, water and material means,
- Organizes the life provision means of the people distributed in TS.

Group of fire protection

- Organizes the fire protection in TS,
- Provides the availability and functioning of anti-fire devices,
- Carries out a permanent supervision over keeping the fire rules.

THE HAED OF TEMPORARY SHELTER

The head of TS is appointed by the decision of the head of administrative district. He is accountable to the head of the evacuation committee, the head of the administrative district and the head of the division of Yerevan Rescue Department.

He is responsible for the recruitment of the staff, its permanent readiness and organization of population distribution works. He is the direct head of the whole staff during population distribution. He has to:

1. during everyday activities:

- Know his obligations, the tasks, organizational structure of TS, the order of warning and gathering of its staff,
- Reman the TS,
- Know the order of deployment TS and bringing it into readiness,
- Decide the rooms (tents) of working groups, parking places of arrival of means of transport, maintenance and points patrol service,
- Periodically organize the preparedness of the staff by means of trainings and courses.

2. upon receiving the order of bringing into readiness

- Organize the warning and gathering of the staff, establish 24 hours duty service,
- Task the heads of TS working groups based on the created situation,
- Organize the provision of the staff with individual protection means,
- Check the list and positions of the staff and take measures for remaning,
- Organize the bringing of protective structures located in the territory of TS into readiness and carry out a supervision over the construction of simple shelters,
- Periodically report on the process of bringing into readiness and the works,
- Organize the provision of arriving population with food, water and other necessary material means.

- Deploy TS and organize the works of the staff for population reception,
- Carry out the registration of the people being distributed and report about the process of works.
- Report to the head of the evacuation committee about the failures in the process of population distribution,
- Report to the head of the administrative district in written after completing the distribution of population in TS.

THE DEPUTY HAED OF TEMPORARY SHELTER

The deputy head is appointed by the order of the head of TS. He is accountable to the head of TS and fulfills the obligations of the head of TS in case of the absence of the later. He is the direct head of the staff during population distribution. He has to:

1. during everyday activities:

- Know his obligations, the tasks of TS, the order of population evacuation and distribution as well as the order of warning and gathering,
- Participate in the development of the documents of TS and know the staff of TS,
- Know the distribution places of TS groups and the places of the arrival of the transport,
- Conduct trainings with the staff by the plan approved by the head of TS,
- Know the number of facilities, population, arriving motorcades (cars) attached to the TS for evacuation.

2. upon receiving the order of bringing into readiness

- Receive tasks from TS,
- Carry out the warning and gathering of the staff,
- Organize the preparation of working rooms (tents) of the staff by means of the commandant of TS.
- Report to the head of TS about the readiness of the staff.

- Receive tasks of population distribution from the head of TS,
- Establish a control over the situation and preparedness of the staff in the territory of TS,
- Prepare the reports of the head about the process and completion of population distribution to be submitted to the evacuation committee of Yerevan city, head of administrative district and the division of YRD,
- Report to the head of the TS after the completion of population distribution and periodically check the availability of staff.

GROUP OF RECEPTION AND REGISTRATION

The head of the group of reception and registration is appointed by the order of the head of TS. He is accountable to the head of TS and his deputy. He is the direct head of the staff of the group during population distribution. He has to:

1. during everyday activities

- Know the tasks of his group and obligations of the staff of the group, the order of warning during working and non-working hours as well as the territories allocated to the staff to work,
- Participate in compiling the necessary documents,
- Keep the staff of the group in permanent readiness,
- Check the number of population attached to the TS.

2. upon receiving the order of bringing into readiness

- Organize the warning and gathering of the group,
- Receive tasks from the head of TS and inform the staff of the group,
- Receive and prepare distribution documents,
- Check the schedule of the arriving documents,
- Receive individual protection means for the staff of the group and provide to the members,
- Organize cooperation with the groups of TS on the issues of information exchange,
- Report to the head of TS about the readiness of the group.

3. upon receiving the order of population distribution

- Check the readiness of the group and report to the head,
- Receive tasks from the head and inform the staff of the group,
- Carry out the reception and registration of the arriving population,
- Establish communication with the facilities attached to the TS.

GROUP OF ACCEPTANCE AND DISTRIBUTION OF FOOD AND OTHER MATERIAL MEANS

The head of group of acceptance and distribution of food and other material means is appointed by the order of the head of TS. He is accountable to the head of TS, his deputy and the head of trade and service department of the staff of the municipality Yerevan city. He is the direct head of the staff of the group during population distribution.

Addition employees from trade and service department of the staff of the municipality of Yerevan city can become members of the group during population distribution by the order of the head of the mentioned department.

The head of the group has to:

1. during everyday activities

- Know the structure of the group, its tasks and capacities, the order of recruitment of the staff.
- Have the lists of the staff and know the order of their warning and gathering,
- Improve the readiness of the staff permanently,
- Know the locations of TS and supply points,
- Have necessary facilities and means for the organization of acceptance and distribution of food.

2. upon receiving the order of bringing into readiness

- Organize the warning and gathering of the group,
- Receive tasks from the head of TS and inform the staff of the group,
- Prepare relevant working places for the work of the group inside TS building,
- Receive individual protection means and distribute them among the staff of the group,
- Report to the head of TS about the readiness of the group.

3. upon receiving the order of population distribution

- Receive tasks from the head of TS and inform the staff of the group,
- Organize supply service in TS, carry out also smooth supply of hot food and other necessary supplies,
- Establish and be in permanent contact with trade and service department of the staff of the municipality of Yerevan city and supplying organizations,
- Report to the head of TS about all incidents and measures taken for their prevention.

GROUP OF MAINTENANCE OF PUBLIC ORDER

The head of group of maintenance of public order is appointed by the order of the head of TS. He is accountable to the head of TS, his deputy and the commandant. He is the direct head of the staff of the group during population distribution.

Employees from police can become members of the group during population distribution by the order of the head of Yerevan department of Police of the Republic of Armenia on the principle of one policeman per 1000 inhabitants.

He has to:

1. during everyday activities

- Know the structure of the group, its tasks and capacities, the order of recruitment of the staff,
- Have the lists of the staff and know the order of their warning and gathering,
- Improve the readiness of the staff permanently,
- Know the locations of TS and sentry posts,
- Have the complete set of traffic signs and necessary lists,
- Work out the order (schemes) of evacuation from TS and deliver it to the staff.

2. upon receiving the order of bringing into readiness

- Carry out the warning and gathering of the group,
- Receive tasks from the head of TS and inform the staff of the group,
- Prepare relevant working places for the work of the group in the territory of TS,
- Receive individual protection means and distribute them among the staff of the group,
- Report to the head of TS about the readiness of the group.

3. upon receiving the order of population distribution

- Receive tasks from the head of TS and inform the staff of the group,
- Organize patrol service in the TS, install security points,
- Carry out concealing actions by a relevant decision,
- Prohibit the entry of unauthorized persons to the territory of TS,
- Establish and be in permanent contact with Yerevan department of Police of the Republic of Armenia,
- Secure maintenance of public order,
- Prevent the panic and disorders among population,
- Report to the head of TS about all incidents and measures taken for their prevention.

GROUP OF FIRE PROTECTION

The head of group of fire protection is appointed by the order of the head of LTSP. He is accountable to the head of LTSP and his deputy. He is the direct head of the staff of the group during population distribution.

Addition employees can become members of the group during population distribution by the order of the head of the Yerevan Rescue Department.

The head of the group has to:

- 1. during everyday activities
- Know the structure of the group, its tasks and capacities, the order of recruitment of the staff,
- Have the lists of the staff and know the order of their warning and gathering,
- Improve the readiness of the staff permanently,
- Know the location of TS,
- Have the complete set of necessary firefighting means,
- Work out the order (schemes) of evacuation from TS in case of fire and deliver it to the staff.

2. upon receiving the order of bringing into readiness

- Organize the warning and gathering of the group,
- Receive tasks from the head of TS and inform the staff of the group,
- Prepare firefighting means in the territory of TS,
- Report to the head of TS about the readiness of the group.

- Receive tasks from the head of TS and inform the staff of the group,
- Organize firefighting service in the TS,
- Secure the maintenance of the order fire protection,
- Report to the head of TS about all incidents and measures taken for their prevention.

INQUIRY DESK

The head of the inquiry desk is appointed by the order of the head of TS. He is accountable to the head of TS and his deputy. He is the direct head of the staff of the inquiry desk.

The head of the inquiry desk has to:

1. during everyday activities

- Know the tasks and capacities of the inquiry desk, the order of distribution organization,
- Know the order of their warning and gathering,
- Establish telecommunication with the evacuation committee of Yerevan city, head of the administrative district and district division of Yerevan Rescue Department,
- Know the data of TDPs, EPs and LTSPs attached to the TS.

2. upon receiving the order of bringing into readiness

- Receive tasks from the head of TS,
- Prepare relevant working places for the organization of works in the territory of TS,
- Stay in contact with the evacuation committee of Yerevan city, head of the administrative district and district division of Yerevan Rescue Department by telephone,
- Receive individual protection means and distribute them among the staff of the group,
- Report to the head of TS about the readiness of the inquiry desk.

- Receive tasks from the head of TS and inform the staff of the inquiry desk,
- Know the situation in the territory, the place of the head of TS and his deputy, organization of patrol service, the places of distribution of subdivisions,
- Establish and be in permanent contact with the evacuation committee of Yerevan city, head of the administrative district and district division of Yerevan Rescue Department by telephone,
- Report to the head of TS about the orders, signals and instructions received from evacuation bodies,
- Report to the evacuation committee about the process of population distribution and the occurred problems in time,
- Periodically check the data of involved volunteers,
- Register the received and transmitted signals and orders.

THE COMMANDANT

The commandant is appointed by the order of the head of TS. He is accountable to the head of TS and his deputy. He is the deputy of the head of the TS on security issues

He has to:

- 1. during everyday activities
- Know the tasks and capacities of the TS, the order of distribution organization,
- Have the lists of the staff and know the order of their warning and gathering,
- Know the location of TS and sentry posts,
- Organize the implementation anti-fire measures.
- 2. upon receiving the order of bringing into readiness
- Receive tasks from the head of TS,
- Prepare relevant areas for the organization of works in TS,
- Organize the distribution of individual protection means among the staff,
- Carry out anti-fire measures,
- Report to the head of TS about the readiness.
- 3. upon receiving the order of population distribution
- Receive tasks from the head of TS and inform the staff,
- Know the situation in the TS, the place of the head of TS and his deputy, organization of patrol service, the places of distribution of subdivisions,
- Report to the head of TS about the orders, signals and instructions received from evacuation bodies,
- Report to the evacuation committee about the process of population distribution and the occurred problems in time,
- Permanently supervise anti-fire measures,
- Register the received and transmitted signals and orders.

MEDICAL CENTER

The head of medical point of TS is appointed by the order of the head of LTSP. It is recruited by the attached staff by the order of the head of Health Department of the municipality of Yerevan city. He is accountable to the head of LTSP, his deputy as well as the head of Health Department of the municipality of Yerevan city.

The head of medical center has to:

- 1. during everyday activities
- Know the tasks of the medical center and his functional responsibilities,
- Have the lists of the staff, know the order of their warning and gathering,
- Know the working places allocated to the medical center and the order of medical provision of measures,

- Check the place of deployment of medical point and the list of organizations providing equipment, devices and ambulance cars for works,
- Work out the order of isolation and hospitalization of the infectious patients detected among the evacuees.

2. upon receiving the order of bringing into readiness

- Receive tasks form the head of TS,
- Carry out the warning and gathering of the staff,
- Prepare medical equipment and working place for the works of medical center,
- Carry out checking of sanitary condition of the territory and rooms of TS,
- Report to the head of TS about the readiness of the medical center.

3. upon receiving the order of population distribution

- Receive tasks from the head of TS and inform the staff,
- Carry out the medical treatment of patients in TS,
- Establish a supervision over the sanitary condition in the building and territory of TS,
- Take measures for the isolation and hospitalization of the infectious patients detected among the evacuees,
- Provide preventive means in case of necessity,
- Report to the head of TS and the head of Health Department of the staff of the municipality of Yerevan city about the number of detected patients, their isolation and measures for the prevention of the spread of the occurred infectious diseases.

MOTHER AND CHILD'S ROOM

The head of mother and child's room is appointed by the order of the head of TS and is accountable to the head and deputy head of TS. The head of mother and child's room has to:

1. during everyday activities

- Know the tasks of mother and child's room and his functional responsibilities,
- Have the lists of the staff, know the order of their warning and gathering,
- Know the working places allocated to mother and child's room,
- Check the place of deployment of mother and child's room and the list of organizations providing equipment and devices for works,
- Work out the order of service of nursing mothers and minor children among the population.

2. upon receiving the order of bringing into readiness

- Receive tasks form the head of TS,
- Prepare working room for the works of mother and child's room,
- Carry out checking of sanitary condition of the rooms,
- Receive individual protection means and distribute them among the staff of mother and child's room,
- Report to the head of TS about the readiness of the mother and child's room.

- 3. upon receiving the order of population distribution
- Receive tasks from the head of TS and inform the staff,
- Provide the accommodation of nursing mothers and children and their care,
- Organize the order in the rooms and keep the sanitary condition,
- Pay a special attention to children during works,
- Organize the provision of food in distribution places in case of need.

GROUP OF RECEPTION, REGISTRATION AND DISTRIBUTION OF VOLUNTEERS

The Head of the group of reception, registration and distribution of volunteers is appointed by the order of the head of TS and is recruited by the staff allocated from the coordination body of volunteers of Yerevan municipality. He is accountable to the head and deputy head of TS as well as to the head of the coordination body of volunteers of Yerevan municipality. The Head of the group of reception, registration and distribution of volunteers has to:

1. during everyday activities

- Know the tasks of volunteers and his functional responsibilities,
- Have the lists of the staff, know the order of their warning and gathering,
- Know the allocated working places and the order of measures,
- Check the list of organizations providing equipment, devices and cars for the works of volunteer.

2. upon receiving the order of bringing into readiness

- Receive tasks form the head of TS,
- Carry out the warning and gathering of the staff,
- Prepare working rooms for the works of the groups and reception of volunteers,
- Assist the works of deployment of TS,
- Report to the head of TS about the readiness.

3. upon receiving the order of population distribution

- Receive tasks from the head of TS and inform the staff,
- Carry out reception and tasking of volunteers arriving at TS,
- Take measures for the involvement of volunteers available among the population,
- Report to the head of TS about the measures taken.

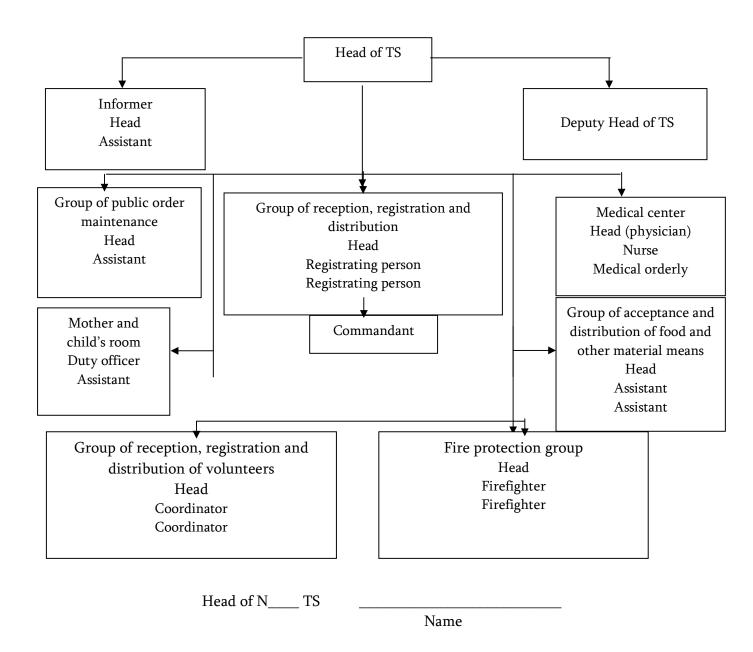
 $\label{eq:schedule} S\,C\,H\,E\,D\,U\,L\,E$ of the main activities of the temporary shelter

N/N	Activity	Period of implementation	Responsible for implementation		
1	2	3	4		
	1. Upon receiving the or				
1.	Warning and gathering of the staff	T +1.5	Head and deputy head of TS, heads of groups		
2.	Tasking of the staff, preparation of actions for deployment of TS. Distribution of TS documents to the staff.	T + 2	Head of TS		
3.	Establishment of direct communication with the division of YRD and secretary of evacuation committee.	T + 2	Deputy head of TS		
4.	Checking the schedule of evacuation and distribution of population.	T + 2	Informer, deputy head of TS, commandant		
5.	Checking the shelter places of evacuees located in TS in case of the signal of "Air-raid alarm". Bringing of protective structures and simple shelters into readiness.	T + 2	Deputy head of TS		
6.	Checking the level of recruitment of TS staff and reman in case of need. Furnish the working rooms of the TS staff and prepare transport boarding places.	T + 2	Head of TS, heads of groups		
7.	Furnishing the working rooms of the TS staff and prepare transport boarding places.	T + 2	Commandant, heads of groups		
8.	Checking the schedule of motorcades arriving at the TS.	T + 2	Head of motorcade group		
9.	Checking the sanitary condition in the territory of TS, boarding points and working rooms.		Head of medical center		
10.	Checking the organizational chart of public order maintenance service in TS and establish security points.	T + 2	Head of the group maintenance of public order		
11.	Provision of the staff of TS with individual protection means.	T + 4	Deputy head of TS, commandant		
12.	Establishment 24 hours duty service in TS.	T + 2	Commandant of TS		
13.	Reporting to the division of YRD and the secretary of evacuation committee about the readiness of TS.	T + 6	Head of TS		

14.	Upon receiving the signal of "Air-raid alarm" repeating it by megaphone and shelter the population in protective structures and simple shelters.		Deputy head of TS, commandant
	2. Upon receiving the order of evacuation	on and distribution	on of population
1.	Tasking of TS staff during the implementation of population evacuation and distribution.	T + 1	Head of TS
2.	Getting prepared for the works of TS deployment and reporting to the division of YRD and the secretary of the evacuation committee about the readiness of TS.	T + 2	Head of TS, heads of groups
3.	Being in permanent contact with the division of YRD, the secretary of the evacuation committee and evacuation committees of facilities under TS by means of established communication means.	T + 10 minutes	Informer
4.	Putting the schedule of population evacuation and distribution into action within the defined period.	T + 2	Head of TS
5.	Installation of security points, regulation points for patrol and traffic according to the worked out scheme.	T + 10 minutes	Head of the group of TS
6.	Organization of blackout activities in TS during night hours.		Deputy head of TS, commandant
7.	Organization of the reception and registration of population arriving at the TS and their intime distribution by boarding points.	T + 2	Head of the group of reception, registration and distribution
8.	Distribution of evacuees by motorcades, the organized distribution of people by boarding points and their in-time leaving for safe areas.	T + 2	Head of the column group
9.	Registration of population arriving at TS, types of means of transport, staff of facilities being evacuated.	T + 2	Heads of groups, inquiry desk
10.	Provision of accommodation and care of nursing mothers and children.	T + 2	Mother and child's room
11.	Provision of first aid to the evacuees arriving at TS and detected patients.		Head of medical center
12.	Preparation of reports for the division of YRD and evacuation committee about the process and completion of population evacuation and distribution.	T + 4	Deputy head of TS, informer
13.	Recording the orders received from evacuation committees in the register and reporting to the head of TS.	immediately	Inquiry desk

14.	Reporting to the head of TS about the violation of evacuation schedule in time.	immediately	Head of the group of reception and registration, inquiry desk
15.	Maintenance of public order and provision of population sheltering in case of the signal "Airraid alarm" and taking of measures for the prevention of panic and disorders among evacuees.		Head of the group maintenance of public order, Deputy head of TS and commandant

 $\begin{array}{c} \textit{CHART} \\ \text{OF ORGANIZATION OF TEMPORARY SHELTER N}__ \text{ OF YEREVAN CITY AND ITS} \\ \text{WARNING} \end{array}$



STAFF LIST OF THE STAFF OF N ___ TS

N/ N	Position held in TS	Name	Address	Civilian position held	Telephone (office/ home, cell.)	Remarks
1	2	3	4	5	6	7
1.	Head of TS					
2.	Deputy Head of TS					
		Group of re	ception, registration	and distribution		
1.	Head					
2.	Registrating person					
3.	Registrating person					
		Grou	p of public order ma	aintenance		
1.	Head					
2.	Assistant					
3.	Assistant		<u></u>			
			Fire protection gro	oup		Г
1.	Head					
2.	Firefighter					
3.	Firefighter	C	1 1: 4 11 4: 000	1 1 1 1 1 1 1		
1		p of acceptance ar	nd distribution of foo	od and other material	means	
1.	Պետ					
2.	Assistant					
3.	Assistant		T C			
1	TT 1		Informer			
1.	Head					
2.	Assistant		Commondant			
1	Commandant		Commandant		1	
1.	Commandant		Mother and child's	room		
1.	Chief duty officer			100111		
2.	Duty officer					
۷.	Duty officer		Medical center			
1.	Head (physician)		Tyledical celler			
2.	Nurse					
3.	Medical orderly					
		Group of reception	n registration and di	stribution of voluntee	ers	
1.	Head	22300 22100000101	-, 55:00			
2.	Coordinator					
3.	Coordinator		1			
-		IEAD OE N	TC		1	l .

HEAD OF N ____ TS -----

Name /signature/

CALCULATION OF EQUIPMENT, DEVICES AND PROPERTY REQUIRED FOR N__ TS

								W	ho	it	is	envis	saged	l fo	r					
N/N	Equipment	Head and	deputy head	Registration	group	Motorcade	organizing	Stoup	Group of public	order	mannenance	Inquiry desk	Commandant	Mother and	child's room	14.4:-1	center		Territory	Total
	Office furniture																			
	Telephone set																			
	Safe																			
	Electric lantern																			
	Candles																			
	Megaphone																			
	Red flags (30*20)																			
	Red armband																			
	Gas masks																			
	Safety mask																			
	Bandage																			
	Loudspeaker																			
	Sign boards of the rooms of TS (30*10)																			
	Table-lists of facilities being registered																			
	Notes and lists (40*20)																			
	Table of TS (60*80)							-			4							1		
	List of TS (60*40)							+			+					-				
	Stationery																			

HEAD OF N	_ TS	
	_	Name /signature/

Plan of provision of evacuation activities

N/ N	Activities	Actions	Implementing organizations	Supporting organizations	Costs	Time period	Remarks
1	2	3	4	5	6	7	8
			1. Preparatory stag	ge			
1.	Preparation of governing bodies and population	Organization of courses	Crisis Management State Academy of MES of RA	State governing and local self- governing bodies		periodical ly	classes per
		Technical equipping of Management Center of Emergency Situations	Yerevan municipality	MES of AR			
		Corresponding literature	Crisis Management State Academy of MES of RA	State governing and local self- governing bodies			
		Conduct of evacuation drill	Territorial subdivisions of MES of RA, organizations	Yerevan municipality		periodical ly	Once a year
2.	Improvement of warning system	Recovery, maintenance and improvement of warning systems	Yerevan municipality, YRD of MES of RA	Ministry of Transport and Communication, telephone operators			
3.	Improvement of plans	Clarification and updating of evacuation plans	Yerevan municipality, YRD of MES of RA	organizations		periodica lly	Once a year

1	2	3	4	5	6	7	8
4.	Engineering-technical measures	Enhancement of seismic stability of buildings along evacuation routes	Yerevan municipality	Ministry of Urban Development, organizations			
		Construction and maintenance of roads (evacuation routes) according to normative documents	Yerevan municipality	Ministry of Urban Development, organizations			
5.	Organization of preparation of distribution	\mathcal{C}	Evacuation committee, YRD of MES of RA	organizations			
		Adding of free (green) areas	Yerevan municipality	Ministry of Urban Development, organizations			
6.	Organization of preparation of life-provision	Concluding of contracts on provision of stocks	Yerevan municipality	organizations			
		Distribution of water supply tanks	Yerevan municipality	organizations			
		Creation and optimal distribution of storages	Yerevan municipality	organizations			

1	2	3	4	5	6	7	8
			2. During evacuat	ion			
7.	Population warning	Warning of population and governing bodies by means of mass- medias and loudspeakers of police	MES of RA Police of RA Evacuation committee of Yerevan city	Mass-media Cell. phone operators	State budget, Budget of Yerevan city		
8.	Warning and gathering of evacuation bodies	Warning and gathering of evacuation committee of Yerevan city, tasking and clarification of calculations of evacuation of population from probable dangerous zones	Evacuation committee of Yerevan city, YRD of MES of RA	Management Center of Emergency Situations of Yerevan city, Cell. phone operators			
9.	Management of evacuation places	Deployment of evacuation bodies and bringing them into readiness, organization of 24 hour work Organization of communication and recovery Control over the work	Evacuation committee of Yerevan city, YRD of MES of RA Evacuation committee of Yerevan city Evacuation committee of Yerevan city, YRD of MES of RA	Cell. phone operators Subdivisions (radio stations) of MES and Police of RA Evacuation bodies			

1	2	3	4	5	6	7	8		
10	Evacuation	Organization of evacuation of population from dangerous areas	Evacuation committee of Yerevan city, YRD of MES of RA	Evacuation bodies					
11	Provision of activities	Organization of transport, technical, material and medical provision	Evacuation committee of Yerevan city, YRD of MES of RA	Evacuation bodies					
	3. During distribution								
12	Construction of temporary shelters	Provision of container houses and tents	Evacuation committee of Yerevan city, YRD of MES of RA	Organizations					
13	Comprehensive provision	Provision of stocks	Evacuation committee of Yerevan city, YRD of MES of RA	Organizations					
14	Provision with flats	Reconstruction of damaged buildings and construction of new ones	Yerevan municipality	Ministry of Urban Development, organizations					
15	Complete recovery of lifelines	Recovery of water, gaz and electricity supply systems	Yerevan municipality	Companies of water, gaz and electricity supply					





EVACUATION SHEET

Evacuation is carried out in case of emergency situations or the threat of its occurrence in the form of temporary transfer and distribution of people, animals and material values from dangerous areas to safe ones.

Warning during the evacuation is carried out by means of sirens, mass-media, loudspeakers, announcements and other ways.

Population should know the following about the evacuation

- 1. Safe ways (window, emergency exits and so on) for going out of the building during evacuation;
- 2. Safe places to be protected in case of staying in the building (earthquake, a number of chemical disasters);
- 3. Their gathering place and further actions after going out of the building of the organization;
- 4. People responsible for evacuation (director, head of staff and so on);
- 5. Upon receiving "Information" or "Recommendation" about evacuation one should get ready or evacuate to the attached evacuation point by own means in case one wishes;
- 6. Upon receiving **"Order"** about the evacuation it is necessary to take an ID, some amount, food and water for 3 days and go to the evacuation point on foot;
- 7. If is necessary to make the house or building safe after leaving it cut the electricity, close the gas; water, windows and doors move dangerous and inflammable materials into safe places;
 Follow the instructions of the people responsible for procession and keep traffic rules during evacuation;
 The person responsible for your route is:

		(name, position)				
8.	Obey the orders of instructors and responsible people by all means in evacuation point;					
	Your evacuation point is:					
	•	(address, name of organization, telephone)				

- 9. Stay calm and assist those who need it **during distribution** and, in case of possibilities, join volunteers,
- **10. Return home** after checking the security of the house.

Necessary assistance will be provided to you and your security will be guaranteed by state governing, local self-governing and other responsible bodies **during the whole process of evacuation**.

	Αŗ	pendix 5
of Mayor's de	ecisio	on N,
dated on «	>>	2012

The guideline of involvement of volunteers

Section 1. Classification of volunteers

- 1. Volunteers can participate in the activities of prevention of emergency situations, reduction and liquidation of possible consequences, rescue and other operations.
 - 2. Volunteers are classified into:
 - 1) general volunteers who can be any person,
 - 2) special volunteers who special knowledge and skills.
 - 3. The followings are the main supports by government organizations for volunteer issues:
 - 1) Yerevan Municipality establishes Disaster volunteer center.
 - 2) District offices establish disaster volunteer district center.
 - 3) Disaster volunteer center registers volunteers before and after earthquakes.
- 4) Disaster volunteer center dispatch volunteers according to the request of disaster volunteer district center.
 - 5) Disaster volunteer district center manage volunteers in their district.
- 6) Disaster volunteer district center understand the needs and problems on volunteer issues and send those information to disaster volunteer center.

Section 2. registration of volunteers

- 4. Disaster management volunteer center is being established in Yerevan Municipality for registration of volunteers. Volunteers get registered prior to disasters.
 - 5. The following is the information of volunteers for registration:
 - 1) Name,
 - 2) Age and sex,
 - 3) Contact address (address, telephone number, and e-mail),
 - 4) Specialty,
 - 5) District he/she wants to work in disaster situation,
 - 6) (In case of NGO) the number of the staffs and the organization's specialty.
 - 6. Disaster management volunteer center prepares a registration manual.
 - 7. Registered volunteers take part in a seminar in Crisis Management Center.
 - 8. Registration information is shared with the district offices and schools.
 - After occurrence of earthquake, registration of volunteers is done in disaster management volunteer center.

Section 3. Coordination center

- 10. The roles of disaster management volunteers are as below:
 - 1) Collection and dissemination of information on disasters and livelihood
 - 2) Support activities for evacuees including outside cooking in evacuation places and cleaning
 - 3) Distribution and transportation of relief goods and equipments
 - 4) Administration on acceptance and introduction of disaster volunteers
 - 5) Special works by disaster volunteers with special knowledge and skills
- 11. The district offices establish disaster volunteer district center immediately after earthquake involving their staff and selected and registered volunteers.
 - 12. Disaster management volunteer center cooperates with Yerevan Municipality.
- 13. Disaster management volunteer district centers provide information on needs and necessary human resources to disaster management volunteer center.
- 14. Disaster management volunteer center collect necessary number of volunteers for each district according to requests from disaster management volunteer district centers.
- 15. Disaster management volunteer district center accepts dispatched volunteers and distributes to evacuation places.

Section 4. Matching needs and allocation

- 16. For acceptance and dispatch of volunteers, the following are considered:
 - 1) Intention of evacuation places should be considered.
- 2) Disaster management volunteer district office informs volunteers about activity contents, status of affected area, volunteer insurance, and other basic knowledge and ask them to work.
 - 3) It is necessary to identify and show status of volunteer to local people.
- 4) It is necessary to publicize to volunteers that they need to make the framework to work without increasing the strain to affected people and to participate in the volunteer activities.
- 5) Volunteer needs vary with the change of time. Disaster management volunteer district center makes efforts to understand requests and skills of volunteer and dispatch volunteer after giving orientation.
- 6) Disaster management volunteer district center gives volunteers, especially volunteer coordinator, time to leave working places and have temporal leave.
 - 17. The following are skills of special volunteer:
 - 1) Rescue and first aid
 - 2) Medical services
 - 3) Care
 - 4) Determination of building damages

- 5) finger language
- 6) Information and communication
- 7) Coordination of volunteers
- 8) Transportation

Section 5. Responsibility of Volunteers

- 18. It is the fundamental responsibility that volunteer participate in volunteer activities with voluntary intention and responsibility in disaster affected area.
- 19. Persons who intend to participate in volunteer activities make a judgment whether they participate or not through collecting information in affected area by themselves. It is important that their families understand their intention.
- 20. Persons who intend to participate in volunteer activities contact disaster management volunteer center beforehand and confirm how to participate in volunteer activities and words of caution.
- 21. Due to the activities in affected area persons may be in dangerous situation and do a heavy labor. The persons need to secure their safety and health by themselves and participate in activities with understanding of it. It is important to stop participation in case the persons don't feel well.
- 22. It is necessary that volunteers secure their own accommodation if the government can not provide. Volunteers need to prepare water, food, and other necessary things beforehand and start volunteer activities.
- 23. When volunteers reach the affected area, they need to register themselves in disaster management volunteer center. Volunteers who have registered beforehand also need to register themselves again in order to start activities.
- 24. Volunteers confirm emergency contact number and communication network in the affected area and carry out activities with understanding geography, climate, and other information of the affected area.
- 25. Volunteers pay attention to the feelings and privacy of the affected people and carry out activities with good manner and appropriate vocabulary.
- 26. Volunteers carry out activities under instruction of disaster management volunteer center, volunteer coordinators and other organizations accepting volunteers. Volunteers refrain from solitary activities. Volunteer can have large power if they work organizationally.
- 27. Volunteers carry out activities which they can do and take appropriate rests. Unreasonable works lead to unexpected accidents. The accidents are a burden for affected people.
 - 28. Volunteers take out volunteer insurance.

App	pendix 6
of Mayor's decision	N,
dated on «»	2012

Methodology of conduct of evacuation trainings

The authority of each organization is responsible for the security and evacuation of the whole staff of the organization.

The decision n evacuation is made by the director of the organization and in case of his absence – by the person substituting him.

The authority of the organization should have an evacuation plan of the staff of organization where the activities are divided into three groups:

- evacuation before the disaster,
- evacuation during the disaster,
- evacuation after the disaster.

The evacuation drills can include both the whole process of evacuation and the mentioned separate stages.

In the cases when it is necessary to organize evacuation drill of staff, it is important to base on the possible situation – dangerous area (residential area), the number of people and so on according to instructions.

During the drill a special attention is paid to the activities of the evacuation committee and evacuation points of the given place, reception and registration of evacuees, organization and provision of means of transport for their evacuation as well as provision of security.

Knowledge provided during the trainings:

- 1) Preparedness for evacuation in individual level
- 2) Preparedness for evacuation in household level
- 3) Preparedness for evacuation in neighborhood level
- 4) Location of evacuation places
- 5) Process of evacuation
- 6) Roles of organizations related to evacuation plan
- 7) Differences between general people and vulnerable people
- 8) Problems and the improvement of stay in evacuation places

Knowledge provided during the education:

- 1) Preparedness for evacuation in individual level
- 2) Preparedness for evacuation in household level
- 3) Preparedness for evacuation in neighborhood level
- 4) Location of evacuation places
- 5) Process of evacuation
- 6) Differences between general people and vulnerable people
- 7) Problems and their improvement on stay in evacuation places

Targets of trainings:

- 1) Staffs of Yerevan Rescue Department
- 2) School principals
- 3) School teachers
- 4) Principal of condominium association

- 5) Volunteer groups
- 6) Registered volunteers and volunteer coordinators
- 7) Evacuees' reception bodies
- 8) Staffs of special evacuation places (e.g. staffs of social welfare facilities)
- 9) Administrators of organizations

Targets of education:

- 1) The citizens
- 2) School students
- 3) Organizations

Trainings and education providers:

- 1) Crisis Management State Academy
- 2) Non-commercial organization

Crisis Management State Academy is in charge of implementation of training and education and development of training and education materials. In case of education for the citizens, there are so many targets that Crisis Management State Academy can cover. In this case, non-commercial organization conducts disaster education for citizens in cooperation with Yerevan Municipality and the heads of district offices.

Types of the drills of evacuation:

- 1. Integrated in the whole area of Yerevan City and with participation of all stakeholders
- 2. at the district level
- 3. at schools students and teachers
- 4. at schools with students' parents
- 5. at schools with local community
- 6. with organizations
- 7. with volunteers
- 8. with personnel of evacuation gathering point

Objectives of the drills:

- 1. Collection of information,
- 2. Management at the level of government,
- 3. Management at the level of government for planning of long term settlement,
- 4. Cooperation between evacuation committee and the district offices,
- 5. Cooperation between the district offices and schools,
- 6. Cooperation among school teachers,
- 7. Guiding people to evacuation places,
- 8. Guiding people from evacuation places to long term settlements,
- 9. Deployment of evacuation places by school teachers,
- 10. Deployment of TDP, LTSP and temporary shelters,
- 11. Information dissemination from the government to the citizens,
- 12. Information exchange,
- 13. Management of evacuation places,
- 14. Management of vulnerable people in evacuation places

Encourage participation

- 1. Schools organize drills at the end of the day to involve as many parents as possible.
- 2. Condominium association publicizes drills to the community and gathers participants.
- 3. Organizations develop their own disaster management plan including evacuation plan and inform their staffs about conducting drills.

4. Staff of special evacuation places develop their own disaster management plan including evacuation plan. Staff of special evacuation places inform their staffs about conducting drills. If possible, staff of special evacuation places include as many people as possible in the facilities.

Evacuation training Plan includes the following items:

- 1. Date and time
- 2. Participants and participating organizations
- 3. Purposes of the drill
- 4. Process and time schedule of conduct
- 5. Role definition of organizers (including participants)
- 6. Points to keep in mind Evaluation way

The way of evaluation of evacuation training:

- 1. Questionnaire
- 2. Interview
- 3. Workshop

Each type of evacuation training should be evaluated by higher bodies and the Head of appropriate subdivision of MES according to the Table.

The each type of drills and its evaluator

Type of drill	Evaluators		
Integrated	 Ministry of Emergency Situation Armenian Rescue Service 		
at the district level	 Evacuation Committee of Yerevan Yerevan Rescue Department		
at schools - students and teachers	 Department of Education of Yerevan Municipality Schools 		
Evacuation drill at schools with students' parents	 Department of Education of Yerevan Municipality Non-commercial organization Schools 		
Evacuation drill at school with local community	 Department of Education of Yerevan Municipality Non-commercial organization Schools 		
Evacuation drill in business sectors	 Administrator of business sectors Armenian Rescue Service 		
Evacuation drill for volunteers	Volunteer coordinatorDisaster volunteer center		
Evacuation drill in special evacuation center (social welfare facilities)	 Administrators of the facilities Ministry of Health 		

Of decision N ____ of Mayor of Yerevan city, dated on «__»___ 2012

LIST
OF MAIN EVACUATION ROUTES

1 evacuation route	Mashtots aveM.Baghramyan ave Orbeli str Kievyan- Halabyan
2 evacuation route	Saryan str Moskovyan str. – Azatutyan ave.– Komitas ave.
3 evacuation route	Nalbandyan – Koryun str. – Heratsi str. – Amaranocayin str.
4 evacuation route	Abovyan str Myasnikyan – Khudyakov or Rubinyants
5 evacuation route	Charents strNar-Dos str. – Khorenatsi str. – Azatamartikneri str.
6 evacuation route	Hanrapetutyan str. – Tigran Mets str. – Artsakh str.
7 evacuation route	Arshakunyats ave. – G. Nzhdeh str. – Bagratunyats str.
8 evacuation route	Ad. Isakov – Sebastia str. – Raffi str.

Note: Based on the emergency situation the mentioned routes can also be used in opposite directions

LIST
Of territories envisaged for the deployment of temporary shelters

	. -	1 7 1 7		
N/N	Address	Name of organization	Surface (m ²)	Remarks
1	2	3	4	5
		Arabkir		
1.	Park of V. Davtyan str.	Arabkir "Kamar" CJSC	17946	
2.	HES park of Kanaker	Arabkir "Kamar" CJSC	12636	
3.	Arabkir park	Arabkir "Kamar" CJSC	35510	
4.	Grove of clock factory	Arabkir "Kamar" CJSC	3541	
5.	Grove in front of Wedding house	Arabkir "Kamar" CJSC	4901	
6.	Grove of Kanaker HES	Arabkir "Kamar" CJSC	316000	
7.	Field part of Palyana canyon	Arabkir "Kamar" CJSC	103000	
8.	Park in front of "Rosal-Armenal" CJSC	Arabkir "Kamar" CJSC	510534	
	Total		1004068	
	1000	Avan	1001000	
9.	Varuzhan district	Grove	2400	
10.	Babajanyan str.	Next to the church	11000	
11.	Hovhannisyan str.	Yard-grove	8000	
12.	Isahakyan str.	Yard-grove	10000	
13.	Sayat-Nova str.	Yard-grove	7000	
14.	Narekatsi str.	Yard-grove	6000	
15.	Charents str.	Yard-grove	8000	
16.	Duryan str.	Yard-grove	8500	
17.	Kuchak str.	Yard-grove	7500	
18.	Tumanyan str.	Yard-grove	11000	
19.	Avan-Arinj	Family park	8700	
19.	Total	raililly park	88100	
	Total	Ajapnyak	88100	
20	Shiraz str.	Ajapnyak Park	3100	
20. 21.		Park	121100	
22.	Halabyan str.	Park		
23.	Halabyan str.		2600	
24.	Sebastia str.	Aquarium park	3100	
24.	Vahagni district	Garden	145700	
	Total		275600	
2.5	D 4 1 18t 1: 4 : 4	Davtashen Tamitaman 44 N 200 mlast	0500	Area belonging to
25.	Davtashen 1 st district	Territory next to N 200 school	9500	school N 200
26.	Eghvard highway N 22	Private ownership	19900	
	Total		29400	
		Erebuni		•
27.	Erebuni 38	Erebuni historical-archeological reserve-museum	600000	
28.	Artsakh 75	"Maqur Erkat factory" OJSC	50000	
29.	Mushakan	Territories belonging to gardening	200000	
	11103111111	organizations and their adjacent areas close to Mushakan residential area	20000	
30.	Territories adjacent to the road taking to Mushakan	Territories adjacent to the road taking to Mushakan	200000	
31.	Territories on the right edge of the road going from Davit Bek street to TV tower	Territories on the right edge of the road going from Davit Bek street to TV tower	250000	

32.	Territories adjacent to Nubarashen	Territories adjacent to	100000	
33.	highway Territories next to school N 47 of	Nubarashen highway school N 47 of Territories next to school N 47 100000		
	Sari Tagh	of Sari Tagh		
34.	Territories next to Verin Jrashen Territories next to Verin Territories next to Verin Territories next to Verin		200000	
	residential area	Jrashen residential area	1700000	
	Total	TZ 4	1700000	
2.5	C. Larrani di V.Canarani	Kentron	10(00	
35. 36.	G. Lusavorich V.Sargsyan Zakyan V. Sargsyan	Theatrical park Children's park	19600 16900	
37.	Zakyan v. Sargsyan Zoryan	Saryan grove	12710	
38.	Hrazdan canyon	Children's railway	38800	
39.	Baghramyan str.	Lovers' park	14600	
40.	Teryan Abovyan	Students' park	17770	
41.	Abovyan str.	Abovyan park	7103	
42.	Tamanyan	Garden belonging to Gafeschian foundation	6726	
43.	Ring park	1-6 parts	123700	
44.	Mashtots Sayat-Nova	Freedom square	35754	
45.	Tsitsernakaberd area	Forest-park	1191731	
46.	V.Sargsyan	Park of 2750 th anniversary	11726	
47.	Kirov park	Children's park	42715	
48.	Isakov avenue	Park of Isakov monument	3500	
49.	Conservatoire park	Park	12306	
	Total		1555641	
		Malatia-Sebastia		
50.	Sebastia str.	Paros forest	310000	
51.	Hovnatan str.	In the back part of 40 th anniversary park	3000	
52.	Mirakyan str.	Forest of youth palace	47000	
	Total	, ,	360000	
		Nor Norq		
53.	1 st massif	Azatamartikneri park	36600	
54.	1 st massif	Park of Gay monument	6900	
55.	1 st massif	Nansen park	45900	
	1 st massif	"Norq" cinema park	11800	
56. 57.	2 nd massif	Totovents park	42100	
58.	2 nd massif	Park in the territory next to	8600	
36.	2 11103311	administrative building	0000	
59.	2 nd massif	Tigran Mets park	19300	
60.	4 th massif, 1 st part	-	7000	
61.	5 th massif	Tumanyan park	4900	
	7 th massif	Mikoyani park		
62.	8 th massif	Park next to "Hayordac tun"	55600	
63.		Lovers' park	3300	
	Total		242000	
		Nubarashen		
64.	Nubarashen street 11	Park	5200	
65.	Nubarashen street 9	Central park	18800	
66.	Nubarashen street 7	Park of P. Nubar "Nubaryan"	1100	
	Total		25100	
		Norq-Marash		
67.	Norqi Ayginer 193	Boarding school for deaf	1635	
	1 70	and dumb		
68.	Norqi Ayginer 180	Hovard Karagyozyan	3000	
	1 1 7 0 2			

		organization		
69.	Armenakyan 153	"Norq" infectious clinical hospoital	23960	
70.	Hovsepyan 20	Psychiatrically clinical center	7400	
71.	Hovsepyan 95	Armenian TV and Radio network	2850	
72.	Hovsepyan 91	School N 61	1000	
73.	Norq street 11, 62	School N 157	57785	
74.	Hovsepyan 6	Olympus educational complex	1151575	
75.	Norqi Ayginer 247	Auxiliary school N 2	10992	
	Total		1260197	
		Shengavit	·	
76.	Arin-Berd crossroad	Shengavit gardening CJSC	40860	
77.	Artashat highway	Shengavit gardening CJSC	31323	
78.	Area adjacent to 6 th hospital	Shengavit gardening CJSC	35300	
	Total		107483	
		Kanaker-Zeytun		
79.	Azatutyan avenue	"Haghtanak" park	335000	
80.	P. Sevak	P. Sevak grove	6800	
81.	Dro and P. Sevak streets	Grove	8700	
82.	Davit Anhaght street	Davit Anhaght grove	4900	
83.	Azatutyan avenue	Paronyani grove	1900	
84.	Cholakyan street	N 1 grove	14000	
85.	Varshavyan street	N 2 grove	10500	
	Total		381800	
	Total in Yerevan		7029389m ²	

Of decision N	of Mayor of	Yer	evan city,
	dated on «	>>	2012

REQUEST of provision with outfit, food, technique, lubricants and other material means

N/N	Name	Quantity	Unit	Remarks
<u> </u>				
		(position)		
		<i>(</i> :		
		(signature, name)		

«<u></u>»____2012

of decision N ___ of Mayor of Yerevan city, dated on «__»___ 2012

The number of homeless population during implementation of evacuation measures by administrative districts

N/N	Administrative district	Homeless population	Remarks
1.	Avan	15450	
2.	Arabkir	15800	
3.	Ajapnyak	15700	
4.	Davtashen	9600	
5.	Erebuni	25036	
6.	Kentron	30939	
7.	Malatia-Sebastia	28207	
8.	Nor Norq	30225	
9.	Nubarashen	600	
10.	Norq-Marash	4160	
11.	Shengavit	15500	
12.	Kanaker-Zeytun	11600	
13.	Total in Yerevan	202817	

添付4 業務継続計画(BCP)

Ministry of Emergency Situations			

Business Continuity Plan

Rescue Service

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	of estimation	of estimation of number of

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Chapter 1 Introduction

1. Preface

RS has an important task to rescue and maintain the lives, health, and properties in emergency situations, including direct assistance to inhabitants and coordination among governmental, public, and private organizations. In order to fulfill the task, RS prepares an earthquake disaster management plan to promote measures to be taken before/during/after severe earthquakes.

In case of a severe earthquake, RS also suffers damage in its staffs, facilities, and equipment, and which damage causes difficulty in proper operations to fulfill its tasks. A business continuity plan (BCP) is prepared for minimizing the internal damage and quick restoration of RS operation system as a part of the earthquake disaster management plan.

Training is required for upgrading the skills of staffs and their familiarization of this plan. Based on the result of the training and accumulation of experiences/knowledge on disaster management, this BCP should be updated every year, together with the earthquake disaster management plan.

In addition, a BCP will be prepared for each organization, since all organizations have tasks in emergency situations to fulfill the task of each organization to fulfill their tasks properly, especially at the time of a severe earthquake, as it is stipulated in the earthquake disaster management plan.

2. Basic concept

RS secures its business continuity to fulfill the tasks in severe earthquake time, based on the following basic concept.

- (1) Fulfilling emergency response activities, placing the highest priority on securing lives, health, and properties of residents.
- (2) Maintaining the management system of emergency situations in the nation as well as local authorities and communities.
- (3) Setting human resource, materials, and information of RS to be key points for the business continuity.
- (4) Securing safety of staffs of RS.

3. Result of earthquake risk assessment and its adverse influence to the operations of RS

According to the result of earthquake risk assessment, estimated damage by the Garni scenario earthquake was the most serious as summarized in Figure 1 and Table 1, and the estimated damage is the condition of this BCP.

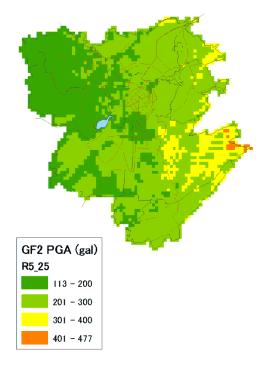


Figure 1 Seismic Intensity Map of the Garni Scenario Earthquake (M 6.5)

Table 1 Conditions of the BCP

Table 1 Conditions of the BC1		
Item		Damage
Multi-story apartment		8,600 (20%) out of 4,370
Buildings	Individual house	12,800 (30%) out if 42,630
	Housing unit	53,700 (20%) out of 264,900
Bridge		3 out of 40
Water supply sys	tem	274 points in total length of 1,293.1 km
Sewerage system	ļ	714 points in total length of 865.2 km
Electric line	Aerial	22.4 km out of 1,950.2 km
Electric line	Underground	305.1 km out of 3,517.1 km
Cosminalina	On-the ground	221.1 km out of 1,027.0 km
Gas pipeline	Underground	2.9 points in total length of 67.6 km
Telephone line	Aerial	1.9 km out of 301.5 km
Telephone fine	Underground	0.0 km out of 301.5 km
Death toll		150,000 out of 1,119,200
Injured		205,000 out of 1,119,200
Just after		370,195
Evacuees in 1 day after		429,186
evacuation points	4 days after	411,489
1 month after		376,094

Chapter 2 Priority works to be continued

4. Tasks of RS

The overall tasks of RS are stipulated in the Law on Armenian Rescue Service as shown in Table 4.1.

Table 4.1 Main tasks of RS, stipulated in the Law on Armenian Rescue Service

1	Saving and maintenance of the lives and health of people in emergency situations and martial						
	law (at war)						
2	Pursuing of state joint policy in the field of civil defense and population protection in						
	emergency situations						
3	Organizing and implementing rescue, accident-rescue, urgent accident-reconstruction,						
	firefighting and other activities						
4	Participating in coordination and organization of the activities of, state/local governing bodies						
	and organizations on civil defense and population protection in emergency situations,						
5	Participating in prevention of emergency situations, reduction and liquidation of the possible						
	consequences, processing of plans and projects of civil defense and population protection and						
	securing the implementation						
6	Participating in organization of population training on the main issues of civil defense and						
	population protection in emergency situations,						
7	Delivering state fire service,						
8	Studying phenomena causing emergency situations and implementing measures aimed at						
	prevention of emergency situations and liquidation of the consequences						
9	Other competencies defined by law.						

Some of tasks stipulated in Plan of Organization of Protection of Population of the Republic Armenia in Case of a Severe Earthquake (Government Decision N919) as shown in Table 4.2.

Table 4.2 Tasks of MES, stipulated in the Government Decision N919

a	Submission of a proposal to the Prime Minister of the Republic of Armenia about putting the action plans in case of a severe earthquake into action totally or partially,					
b	Organization of implementation of activities envisaged by the action plan in case of a severe earthquake,					
С	Organization, coordination and implementation of rescue and other urgent accident-reconstruction activities,					
d	Organization of stable operability of subdivisions under its subordination,					
e	Warning and awareness of population and governing bodies,					
f	Organization of works of preparation of management, communication and warning systems and putting them into action,					
g	Organization and coordination of reconnaissance of the territory affected by the earthquake,					
h	Implementation of cooperation with the bodies involved in the plan aimed at organization and fulfillment of population protection activities,					
i	Coordination of activities of state and local authorities and organization on the issue of population protection,					
j	Elaboration of proposals for the establishment of financial, food, medical and other material resources and funds in advance aimed at providing assistance to the population affected by the earthquake, submission of the mentioned proposals to the Government of the Republic of Armenia as well as regulation of issues regarding their accumulation and further purposeful use,					
k	Permanent provision of information about the current seismic regime, occured seismic event (earthquake) as well as development of seismic situation to relevant bodies,					
1	De-inventory and alienation of material values securing the uninterrupted works of important fields of economy and vital provision of population from state reserve fund,					

m	Forecasting of weather in the required territories,
n	Organization of provision of 24-hour basis functioning of observation points of air quality,
o	Provision of firefighting security,
р	Fulfillment of other competences defined by the Legislation of the Republic of Armenia in the
	field of population protection.

5. Analytical result of adverse effects and selection of priority works

Major work items of RS in emergency situations are shown in Table 5.1. In Table 5.1, influence (importance) of each work items are evaluated with the criteria shown in Table 5.2 in each time scale I (0 to 1 hour after a severe earthquake), II (1 to 24 hours after), III (1 to 3 days after), IV (3 to 7 days after), V (7 days to 1 month after), and VI (1 moth or more).

Table 5.1 Major work items of RS in emergency situations

	Table 3.1 Major work items of K5 in emergency situations						
		I	II	III	IV	V	VI
		(0 to 1 hr)	(1 to 24hrs)	(1 to 3 Days)	(3 to 7 days)		month
1. Dire	ector		<u> </u>			month)	or more)
						2	2
		3	4	3	2	2	2
	Responsible for implementation of the tasks and functions of RS		•		_	2	2
2. Dep	artment of Organization of Population Protection and Liqui	datio	n of I	Disast	er		
Cons	sequences						
2.1	Developing plans on prevention of emergency situations	2	5	3	2	1	1
	and liquidation of the consequency						
2.2	Coordinating monitoring activities on radiation,	3	4	3	2	2	1
	chemical, bacteriological situations						
3. Dep	artment of Medical Provision						
3.1	Providing medical service to rescures and their families	2	4	2	1	1	1
3.2	Particpating in provision of medical staff and medical	3	3	2	2	1	1
	points						
3.3	Participating in reception, analysis, and evaluation of	3	3	3	2	1	1
	information for providing medical measures						
3.4	Participating provision of Medical measures	1	3	3	2	2	1
	artment of Rear and Logistical Provision						
	Confirming, arranging, and allocating usability of	1	3	3	2	1	1
	materials and technical means of RS						
4.2	Conducting or arrenging the repair works of utilities	2	3	3	2	1	1
	(water, power, gas) and allocating food for the activities						
	of RS						
5. Dep	artment of Rescue Force						
5.1	Organizing and realizing firefighting and rescue works	4	5	4	3	1	1
5.2	Cordinating activities of rescue forces and rescue	2	4	3	2	1	1
	formations						
5.3	Participating organization of rescue forces of RA with	2	2	3	3	2	1
	international rescue works						
6. Department of Service Organization							
	Participating activities in the field of population	2	3	2	2	1	1
	protection						
	Participating in the processing of agreements of legal acts	1	1	2	2	1	1
	with other organizations						
	Supervising legitimacy and discipline of RS activities	1	2	2	1	1	1
	onnel Department						
	· · · · · · · · · · · · · · · · · · ·						

7.1 Safety confirmation of RS staffs and their families	5	4	2	1	1	1	
7.2 Confirmation of warkability of RS staffs, and reallocation	3	3	2	1	1	1	
of staffs, if requrired							
7.3 Request of manpower for assistance to authorized	1	3	2	1	1	1	
officials and allocation of the manpoewr							
8. Department of Organizaion of Civil Defense Measures	•						
8.1 Arraneging for confirmation and repairof buildings and	3	2	1	1	1	1	
constructions of RS							
9. Operative Management Department			*				
9.1 Collecting damage information, and disseminating the	4	5	2	1	1	1	
information and warning							
9.2 Assessing damage situations for the prevention of	2	5	4	2	1	1	
emergency situations and liquidation of consequences							
9.3 Arranging subdivisions of RS for implementation of	2	5	4	3	2	2	
services (damage reconnaissance, search & rescue, and							
other assistances)							
9.4 Transferring warning and order of authorized officials to	3	3	3	2	1	1	
subdivisions of RS as well as organizing population							
warning and awareness							
10. Yerevan Rescue Department			I _		1 -	_	
10.1 Coordinating and supervising rescue activities in Yerevan	3	4	3	2	2	2	
City, and also providing information to state governing							
bocies	4	5	4	2	2	2	
10.2 Organizing and implementing rescue, accident- recovery, and firefighting activities in Yerevan City	4)	4	2	2	2	
10.3 Supervising the implementation of measures securing the	2	3	2	2	1	1	
operational stability of special and important objects in	2	3	2	2	1	1	
Yerevan City							
11. Regional (Marz) Rescue Departments							
						1	
activities in Yerevan			7		1	1	
11.2 Receiving functions of RS that seriously damaged in	1	1	2	2	1	1	
Yerevan and cannot be restored in short time	1	'	_		'	1	
referring and cannot be restored in short time							

Table 5.2 Criteria for evaluation of importance

	1
Level 1	Slight Influence
	Although no rehabilitation work is done at the time, there is no distinct
	disturbance and inconvenience in society
Level 2	Small Influence
	There are small influences, which requires preparation for the commencement of
	rehabilitation works.
Level 3	Moderate Influence
	There are moderate inflences such as inconvenience in life of residents, delay of
	official procedure, and delay of contract fulfillment, which requires the
	commencement of rehabilitation works
Level 4	Big Influence
	There are big influences such as violation of regulation and delay of important
	officila procedure, which reqires immediate rehabilitation works
Level 5	Serious Influence
	There are serious influences such as threat of human life, serious problem in
	safety/security, and strained conditions of most of victims, which rehabilitation
	work shold have been commenced.

Most of major work items are evaluated to be high;, and the items on Table 5.2 are in the highest

priority.

Table 5.3 The highest priority work items

	Work Item	Leading department
1.1	Control the activities of RS	Director
2.1	Developing or adjusting plans on prevention of emergency situations and liquidation of the consequency	Department of Organization of Population Protection and Liquidation of Disaster Consequences
5.1	Organizing and realizing firefighting and rescue works	Department of Rescue Force
7.1	Safety confirmation of RS staffs and their families	Personnel Department
9.1	Collecting damage information, and disseminating the information and warning	Operative Management Department
9.2	Assessing damage situations for the prevention of emergency situations and liquidation of consequences	Operative Management Department Department of Organization of Population Protection and Liquidation of Disaster Cosequences
9.3	Arranging subdivisions of RS for implementation of services (damage reconnaissance, search & rescue, and other assistances)	Operative Management Department
10.2	Organizing and implementing rescue, accident- recovery, and firefighting activities in Yerevan City	Yerevan Rescue Department

In order to clarify necessary resources (human resources, Information, and Materials), the highest priority work items are arranged in a time frame as shown in Figure 5.4, considering the principle of BCP shown in Attachment 2.

As shown in Figure 5.4, the order of work items is clarified, and all the work items are overlaying, which means that several works should be done simultaneously, putting priority, according to the time frame.

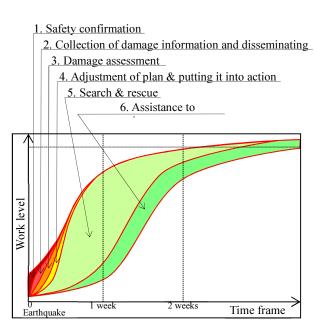


Figure 5.4 The highest priority work items in a time frame of BCP

6. Necessary resources and procedures for the continuation of the priority works

Necessary resources consist of human resources, information, and materials (including equipment and devices). Necessary procedures (or rules) are what require for the arrangement of the resources. The resources and procedures are clarified for each of the highest priority work items in the

succeeding clauses.

7. Human resources

For all the work items, securing human resources is primarily important. Especially for the continuity of the highest priority work items, the followings are stipulated in this plan.

- (1) Designation of staffs for immediate gathering
- (2) Procedure and rule of gathering
- (3) Procedure and rule of safety confirmation
- (4) Procedure and rule of allocation

The timing of the above-mentioned actions is shown in Table 7.1 The flow is divided into two cases; one is for a severe earthquake, another is for a small earthquake. The severe earthquake is defined as follows.

- an earthquake of Magnitude 5.5 or more (as stipulated in the Law on Seismic Protection) in the territory of Armenia and surroundings
- an earthquake of MSK intensity 5 or more in the territory of Yerevan and the surroundings

The earthquake information will be announced by Survey for Seismic Protection agency of MES (SSP). Although no announcement is made, staffs should gather autonomously, since there is a possibility of failure of communication devices due to an earthquake.

Action **Timing** A severe earthquake Another earthquake (M 5.5, MSK 5 or more) (less than M 5.5 or MSK 5.5) Before an earthquake Designation of staffs for immediate gathering Immediate after an Autonomous gathering of all staffs · Autonomous gathering of earthuake Safety confirmation designated staffs Staff allocation, if necessary After warning for staff - Gathering of all staffs - Safety confirmation gathering - Staff allocation, if necessary

Table 7.1 Timing and Actions

7.1 Designation of staffs for immediate gathering

Each department/section designates necessary staffs, based on the estimation of the proportion of staffs who cannot gather in a severe earthquake on Table 7.2.

Basically, the heads and deputies of departments as well as the head of sections should be on the list, so that important issues on management and operation of RS can be discussed among representatives, at least one representative from each department/section.

In case of the head or deputy is the out of Yerevan due to duty trip, vacation, or others, the succeeded staff of the duty should be clarified.

The list of the designated staffs with the place of gathering for each staff should be updated at least twice a year and submitted from each department/section to the Personnel Department.

Table 7.2 Estimation of the proportion of staffs who cannot gather in a severe earthquake

Time scale	I	II	III	IV	V	VI
Reason of inability of gathering	(0 to 1 hr)	(1 to 24hrs)	(1 to 3 Days)	(3 to 7 days)	(7 days to 1 month)	(1 month or more)
a. Road blockage	70	30	10	10	0	0
b. Injury of staffs and their family (10% in max)	10	10	7	5	5	5
c. Assisting activities for neighbours (30% in max)	30	30	20	10	3	0
d. Percentage of staffs inable to gather	81	56	35	23	8	5
e. Percentage of staffs gathered	19	44	65	77	92	95

Unit: %.

 $d=a+(1-a)*b+[1-\{a+(1-a)*b\}]*c$ e=1-d

The conditions of estimation of a, b, and c are in Attachment 1.

7.2 Procedure of and rule of gathering

Basic rule for gathering is divided into two cases as follows.

- (1) In case of a severe earthquake, all staffs should immediately and autonomously gather the working points. Staffs, who are in duty at working points at the time of the severe earthquake, should continue stationing at the working points.
- (2) In case of another earthquake of less than M 5.5 or MSK 5, the designated staffs should immediately and autonomously gather the working points. Other staffs should be stand-by for gathering. Staffs, who are in duty at working points at the time of the earthquake, should continue stationing at the working points.

Related rules are as follows.

(1) Safety first

Since many dangerous situations are foreseen during moving to a work point, staffs should pay attention to their own safety.

(2) Participation to urgent rescue activities

In case that a staff encounters very critical situations, requiring urgent assistance especially to safe life, the staff can participate by his/her own decision, after reporting the delay of gathering.

(3) Reporting on inability of immediate gathering

In case that a staff cannot gather immediately mentioned in the procedure above, the staff or his/her neighbors should report necessary matters as shown in Table 7.3.

Table 7.3 Reporting when unable to gather

Items to be reported - Department/section

- Name
- Reason of unability of gathering
- Contant information (adress, telephone number, etc.)

Point of contact

- Designated staffs for immediate gathering: Personnal Department
- Other staffs: Department or Section which the staff belongs to

Possible reasons of inability of gathering

- The staff or a family member is injured, requiring medical treatment or

hospitalization.

- The staff is on sick leave, annual leave, care leave. etc.
- The house of the staff, relatives or close neighbors is damaged, and the staff is evacuated or bound by restoration and arrangement of necessitis.
- The staff is required to attend rescue activities on the way to the gathering point.
- The staff has no way of gathering other than walking for the distance of 20 km or more.

(4) Observing and reporting damage situations

During moving to a working point, Staffs should observe damage situations during moving to their working points and report to the head of his/her department/section when they arrive the working points, so that the head can report to the Operative Management Department to share damage information in RS and among related organizations.

(5) Bringing urgent survival bag

As far as possible without hampering moving, staffs bring an emergency survival bag, containing the goods shown in Table 7.4, since the staffs may stay in the working points for several days.

Table 7.4 Goods in an emergency survival bag

First important
- Water
- Food, eatable without cooking
- Cellular phone
Second imporant
- First aid kit
- Helmet
- Flushlight
- Portable radio
Third important
- Cash
- Towel
- Lighter or matches
- Knife
- Tools of writing

7.3 Procedure and rule of safety confirmation

Safety confirmation should be done on the procedure shown in Table 7.5.

Table 7.5 Procedure of safety confirmation

	Action	Remarks
1	Confirmation by each staff	Immediately after a severe earthquake or warning
		for staff gathering in another earthqauke, each staff
		confrim safety of his/her family members.
2	Reporting the individual	Soon after the confirmation, each staff report to
	confirmation	department or section to which he/she belongs.
		Items to be reported are as follows.
		a) Total number of family members, including the
		staff $(a=b+c+d+e+f)$
		b) Number of the members who are safe
		c) Number of the members who are slightly injured

		d) Number of the members who are seriously injurede) Number of the members who is deadf) Number of members whose safety has not been		
		confirmed		
		g) Conditions of injured members and		
		* In case that the staff can not gatherimmediately,		
		report on inability of gathering is made at this		
		time.		
3	Sum up of the confirmation	Each department or section sum up the reporting		
	result by each department	result by staffs on a form shown in Attachment 3.		
	or section			
4	Reporting the sum up result	Within one hour after a severe earthquake or		
	to Personnel Department	warning for staff gathering in another earthquake,		
		each department or section submits the result on the		
		form to Personnel Department.		

In case that communication about reporting from a staff is not available, effort to make communication should be made on the following rule.

From RS side

- The head of department or section appoint a staff for regular trial for communication, and the
 appointed staff should make regular trial for the communication with fixed and cellular
 telephones.
- (2) In case that number of gathered staffs is not enough for regular trial, Personnel Department assigns the staff for the trial, according to the request of the head of department.
- (3) Considering the implementation status of urgent works, Personnel Department sends a staff to confirm safety of staff unable to have contact.

From staff side

- (4) In case that a family member of a staff is in serious condition, the staff should take care the family member. The staff should report the situation by means of any communication means.
- (5) In case that the staff evacuated with family members, the staff can report the situation from an evacuation point, where communication means are available.
- (6) In case that no communication means is available, the staff can send a message to the department/section.
- (7) In case that the staff can proceed to the working point, trial for communication can be done by a cellular phone or other means on the way. The staff can report at least at the time of arrival of the working point.

7.4 Procedure and rule of allocation of staffs

Minimum required number of staffs for the highest work items is estimated, based on the necessary work details, number of staffs of responsible department/section, and percentage of staff gathering as shown in Table 7.6.

The rule relating to allocation of staffs is as follows.

- (1) The head of each responsible department/section should adjust the number of necessary staffs, based on the actual situation and actual work to be done.
- (2) In case that number of gathered staffs is not sufficient in a department/section, the department/section should report to Personnel Department for arrangement and assignment of

- staffs among departments/sections.
- (3) In case that number of gathered staffs is not sufficient in RS after the arrangement and assignment, Personnel Department should report to the Director of RS for his further arrangement among other related organizations.

Table 7.6 Minimum required number of staffs for the highest work items

Work item Dept. or *1		*1	Time (hour or D:day)						No.			
	work item	sec.		1-	2-	3-	6-	12-	24-	3D-	7D-	staffs
1	Control the activities of RS	Director		1	1	1	1	1	1	1	1	1
2	Safety confirmation	Personnel Dept.		5	5	3	3	3	2	1	1	10
3	Collection of damage information and disseninating	OM Dept. (CMC)	M O	5 20	5 20	5 20	5 20	5 20	5 20	3 10	1 5	15 50
4	Damage assessment	OM Dept.			5	5	5	5	5	3	1	15
5	Adjustment of plan & rutting into action	Dept. OPL				5	5	5	5	5	3	50
6	Search & rescue	Dept. RF	M				30	40	40	60	40	100
		YR Dept.	O O				150 200	180 240	200 260	300 300	150 100	450 (700)
7	Assistance to evacuees, etc.	YR Dept.	M O							10 100	30 350	700
	% of staff gathering		·	19	22	27	35	40	44	65	77	

^{*&}lt;sup>1</sup> M: for management, O: for operation

8. Information

Information to be collected for the fulfillment of the highest priority work items is shown in Table 8.1.

Table 8.1 Information to be collected

	Work item Dept. or sec.		Information to be collected	Form	Source of the information	
1	Control the activities of RS	Director	Safety of staffs	Attchment 3	Staffs (by	
2	Safety confirmation	Personnel Dept.	Safety of starts	Attenment 3	telephone, message, oral)	
3	Collection of damage information and disseninating		Base map (Topomap with locations of objects mentioned below)	S=1:5,000 to 10,000	(beforehand)	
			Human damage	Attachment 4 and locations on the map	Reconnaisace teams, YEMC, CMC (Call	
		OM Dept. (CMC)	Damage to important facilities	Attachment 5 and locations on the map	center)	
			Damage to dangerous facilities	Attahment 6 and locations on the map		
			Damage to medical facilities	Attachment 7 and locations on		

				41	
				the map	
			Damage to infrastructures	Attachment 8	
				and locations on	
				the map	
			Damage to buildings	Attachment 9	
			(Mainly for ollapsed and	and locations on	
			heavily damaged)	the map	
			Damage to supporting	Attachnent 10	
			facilities	and locations on	
				the map	
4	Damage assessment		Base map (Topomap with	S=1:5,000 to	OM Dept.
'	Bamage assessment		damaged objects arranged	10,000	OW Bept.
			the above works (3)	10,000	
			Damage information	Collected and	OM Dept.
			Damage information	arranged the	OWI Dept.
		OM Dept.		above works (3)	
			Distribution of seismic	Seismic intensity	NCCD through
1				•	NSSP through CMC
			intensity	distribution map	
1			Existing damage	Map and tables	(beforehand, RS
_	A 1'		estimation result	G 1.5.000 /	GIS section)
5	Adjustment of plan		Base map (Topomap with	S=1:5,000 to	OM Dept.
	& putting into		damaged assessment	10,000	
	action		resutls arranged the above		
			works (4))		
			Summary of safety	Attachment 3	Personnel Dept.
			confirmation of RS staffs		
			Damage assessment	Assessed result,	OM Dept.
				prepared in the	
				above work (4)	
		Dept. OPL	Instruction	Instruction made	The head of RS,
		Dept. Of L		by the leaders	Minister of ES,
					CMC, YEMC,
					etc.
			Request and demand	Issued request by	CMC, YEMC
			•	other ministries,	,
				etc. and arison	
				demand of	
				population	
			Existing plan and related	Attachment 11	(beforehand)
			regulations		[`
6	Search & rescue		Base map (Topomap with	S=1:5,000 to	Dept. OPL
			damaged assessment and	10,000	1
			adjusted plan in the above		
			works (5))		
			Summary of safety	Attachment 3	Personnel Dept.
			confirmation of RS staffs		
		Dept. RF	Damage assessment	Assessed result,	OM Dept.
		YR Dept.		prepared in the	J 2 Cp
		11. Бори		above work (4)	
			Adjusted plan	Adjusted plan,	Dept. OPL
			rajustea pian	prepared in the	Dopt. Of L
				above work (5)	
			Deplyed forces and safety	Attchment 12	YR Dept.
			1	Attenment 12	I K Dept.
			in operation		

			Progress, request, and result of serach & rescue	Attachment 13	YR Dept.
			Instruction	Instruction made by the leaders	The head of RS, Minister of ES, CMC, YEMC, etc.
			Request and demand	Issued request by other ministries, etc. and arison demand of population	CMC, YEMC
7	Assistance to evacuees, etc.	YR Dept.	Base map (Topomap with damaged assessment, adjusted plan, and serach & rescue result done in work in (6))	S=1:5,000 to 10,000	Dept. RF YR Dept.
			Instruction, related information, etc. on assiting work to be done	Instruction made by the leaders	The head of RS, Minister of ES, CMC, YEMC, etc.

9. Materials and infrastructures

Materials required for immediate actions are shown in Table 9.1.

 Table 9.1
 Materials and facilities for immediate actions

Estimated situation	To be done			
Estimated situation	Just after a severe earthquake	Beforehand		
A. Building and rooms				
Buildings of RS may be damagend and rooms may not be safe.	- Safty confirmation of buildings and rooms of RS	 Fixing shleves and furniture to prevent their turn down Prepare a procedure of building diagnosis and safety confirmation of rooms Reserving repairing tools of work area 		
B. Power				
Availability of public power suppy 3 days after: 0% 1 week after: 10% 1 month after: 60%-70%	- Safety confirmation of electric facilities and devices - Repairing of broken parts and divices - Emergency power supply with generators	- Reserving back-up power system at least for 1 week Generators with fuel and lubricant (a generator of 2kVA with fule of 10 lit./day, for office work with two computers and lighting) - Making a contract with suppliers of fuel and luricant for priority delivery in an emergency - Reserving repairing kits of power supply system		
C. Water				
Avaialble public water supply 3 days after: 0% 1 week after: 50% 1 month after: 100%	- Leakage check - Repairing of broken parts - Reserved water delivery	 Reserving water in bottles or tanks for 10 days (5 lit./day/staff) Making a contract with water suppliers for priority delivery in an emergency Reserving reparing kits of water 		

	T	T ,
		supply system Remind gathering staffs to bring water
		in an emergency suvival bag
D. Gas		ili ali ellergelicy suvivai bag
	Laskage shock and safety	Descripe venering kits of gas supply
Available public gas suppy 3 days after: 0%	- Leakage check and safety confirmation of gasfacilities and	- Reserving <u>reparing kits of gas supply</u> <u>system</u>
1 week after: 0%	devices	System
1 month after: 0%	- Repairing of broken parts and	
	devices	
E. Communication means		
Due to black out,	- Reparing broken pars and	- Reserving wireless communication
communication by	devices	means (warky talkies) with batteries
telepohone is not available.	- Emergency power supply with	and laud speakers for internal
Dedicated wireless	generators	announcement.
communication means also		- Reserving reparing kits of
does not function, because		communiction means
of no backup power supply		
as well as damage to antenas		
and lead-in lines.		
F. Digital data		
Some computers are turn	- Emergency power supply with	- Fixing computers to avoid their
down, and broken. Due to	generators	turndown
black out, digital data cannot		- Installing UPS to desktop comupeters
be used, and some data		- Increse number of laptop computers
under processing are		- Installing data potable digital data back
dispeared.		up devices
		- Keeping hard copies of important
		information such as the list of
		communication
G. Food		
Most of food shops are	- Confirmation of available food	- Reserving <u>food</u> at least for 10 days
closed, and no food is		(The list of the food is in Annex 17 of
available in opened shops.		Government Decision N 919)
		- Making a contract with food suppliers
		for priority delivery in an emergency
		- Remind gathering staffs to bring food in
II Facilities of rest and sleani		an emergency suvival bag
H. Facilities of rest and sleeping		Describe montable bada and black
Some staffs stay in office for	- Arrangement of safe space and	- Reserving portable beds and blankets
long time, because of the loss of their houses and	facilities for rest and sleeping of	- Making a contract with hotels for staffs
	staffs	needing to stay
busyness of emergency works.		
I. Toilet	<u>I</u>	1
Since there is no water for	- Normal use of toilets is	Reserving tools for human waste
flusing. Toilets in	prohibited.	collection or materials of portable
buildings can not be used.	- Setting potable toilets, such as	toilets.
condings can not be used.	that utilizing manholes	
	- After installation of collecting	
	tools of human waste, toilets	
	may be open to use.	
J. Tools for rescue and repair		
Some staffs may be injured	- Damage reconnaissance and	- Reserving tools for rescue and repair.
or confined in a room.	confirmation of function of	Crowbars, hammers, steel wires, nails,

Facilities may be broken.	facilities.	nippers, adhesive tapes, first aid kits
		will be resered.
K. Tentative office facilities		
Buildings of RS may be	- Safety confirmation of buildings	- Establishing the procedure of building
damaged and be in	of RS.	diagnosis for safety confirmation.
dangerous condition.		- Reserving tents for tentative offices in
		open spaces, in case that buildings are in
		dangerous conditions.

Chapter 4 Other Considerations

10. Formulation of detailed plan/rule in each department and section

All departments and sections of RS should formulate detailed plan and rule, such as designation of staffs for immediate gathering. The detailed plans and rules should be approved by the head of RS and kept in each department and Operative Management Department.

11. Education, training, and updating the plan

11.1 Understanding the contents of this plan

All staffs should go through this plan to understand the contents of this plan, so that all staffs can take initial response properly. Leading departments for the highest priority work items should clarify tasks of each staff.

11.2 Training and seminar

For the business continuity, it is a key point that all staffs should understand the importance of the continuity, even in ordinary times, which can be said that all staffs should have "Culture of Disaster Management". Training and seminar should be carried out so that all staffs have images of emergency situations and proper response.

The training can be divided into followings

- Comprehensive training on an earthquake disaster management
- Training on gathering without using transportation means
- Training on communication without public power supply
- Training of initial response without public power supply
- Training on arrangement of materials for initial response

The evaluation result should be used for the betterment of response, communication, reserves, etc.

11.3 Updating BCP

Based the result of training and daily activity, BCP should be updated at least once a year. Working group with advisors from other organizations will be manage the updating.

11.4 Formulation of BCP of other organizations

RS should promote and support for the formulation of BCP of other organization. In the course of the formulation of BCP of other organizations, RS should clarify the tasks and responsibility among the related organizations.

Attachment 1 Condition of estimation of number of gathering staffs

- a. Road blockage
- Due to the road blockage, no transportation mean is available, and thereby, walking is noly the way of gathering.
- General working speed is set to be 4 km/hour, and accordingly, staffs stay within 4 km from the gathering points can be gathered in 1 hour. The percentage of staffs who do not stay within 4 km from the gathering points is estimated to be 70%.
- Staffs who live in the areas of 10 km or more from the gathering points cannot gather due to complete blockage of roads before the clearance of debris. The percentage of staffs who cannot gather due to the road blockage is estimated to be 30% in 24 hours and 10% in 7 days.
- b. Injury of staffs and their family
- 5% of staffs may be injured.
- 20% of family members of staffs may be injured (5%/family and 4 members in a family) and one fourth of the staffs may be bound for the care of the injured member up to 3 days after.
- c. Assisting activities for neighbors
- 30% of staffs may be bound for search and rescue activities for the neighbors, based on the result of interview of victims of Kobe earthquake.
- The percentage may decrease to be 20% in 3 days, 10% in 7 days, and 3% in 1 month.

Reference: Actual records of gathering of officials in case of Kobe earthquake

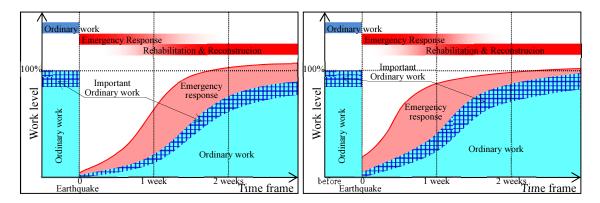
Table Percentage of staffs who could not gather

	\mathcal{L}			\mathcal{C}	
Office	1 day	2 days	3 days	4 days	5 days
					or more
Hyogo Prefecture	80%			30%	
Kobe City	59%	40%	30%	20%	10%
Itami City	25%	20%	17%	15%	
Nishimoniya City	49%	34%	31%	22%	
Ashiya City	58%	48%	40%	39%	
Takarazuka City	40%				

Source: Japanese Cabinet Office HP

Attachment 2 Principle of BCP

BCP shows procedure and preparation for the quick restoration of indispensable work in a severe disaster, based on the estimation of damages, focusing on resources (human resources, information, and materials).



Without BCP (pre-defined procedure and preparation), initial response is delayed. Accordingly, the restoration of ordinary work is delayed due to the delay of emergency response as shown in the left-side figure.

Attachment 3 Form and sample of summarized result of safety confirmation

						Safe	ty C	onfir	matio	n Re	port					
Department																
or Section																
Prepared by	(Name)	Person	in cl	narge	in th	e de	pt.	Dat	e & '	Гіте						
Checked by	(Name)	Head	of De	pt.				Dat	e & [Гіте						
Received by	(Name)	Persor	nnel I	ept.				Dat	e & '	Гіте						
Position	Nar	ne	Rep	ort	Saf	ety		Gat	herin	ıg	Fan	nily (excl	uding	g the	staff)
			Y	N	S	Ĭ	D	G	F	U	T	S	Ι	D	M	Remarks
Head, Dept	AAA		~		/			~			4	4	0	0	0	
Deputy head	BBB		V			'			V		6	4	1	0	1	
Assistant	CCC		~		~			~			3	3	0	0	0	
Sub total		3	3	0	2	1	0	2	1	0	13	11	1	0	1	
Section or subs	ection (A	A)														
Head, section	DDD		~		~			~			5	4	0	0	1	
Deputy	EEE		~		~				'		4	4	0	0	0	
Staff	FFF			'	A	A		A	_	A	A	A	A	A	A	No communication to the staff
Staff	GGG		~		~				V		2	0	1	0	1	
Sub total		4	3	1	3	0	0	1	2	0	11	8	1	0	2	
Section or subs	ection (I	3)														
Head, section	ННН		~		/	ļ	ļ		V		3	2	0	0	1	
Deputy	III		~		~	<u> </u>	<u> </u>		~		5	5	0	0	0	
Staff	JJJ		~		~			V			7	4	1	0	2	
Sub total		3	3	0	3	0	0	1	2	0	15	11	1	0	3	
Section or subs		ction (C)														
Head, section	KKK		~			<u>'</u>	<u></u>			V	3	0	2	1	0	
Deputy	LLL		V		~	ļ	ļ		~		A	A	A	A	A	No communication to family
Staff	MMM		V		~				~		3	3	0	0	0	
Sub total	-	3	3	0	2	1	0	0	2	1	6	3	2	1	0	
Grand tota	al	13	12	1	10	1	0	4	7	1	45	33	5	1	6	

"Report" Y: Yes, N: No, "Safety" S: Safe, I: Injured, D: Dead, "Gathering" G: Gathered, F: will gather, N: Unable to gather, "Family" T: Total number, S: Safe, I: Injured, D: Dead, M: Missing

Attachment 4 Summary sheet of human damage

			Summary	sheet of human	damage			
Pre	epared by	(Name) Person i Dept.		Operative Man		Date & Time		
Ch	ecked by	(Name) Head of	Operative	Management Do	ept.	Date & Time		
	District/Area	Popuration	Injured	(Hospitalized)	(to be hospitalized)*	Dead	Evacuated	Missing
A	Ajapnyak	85,838						
	Block 1	31,022	11,237	859	1,300	2,398	33,423	1,293
	Block 2				-			
	Block 3							
	Block 4							
В	Avan	45,349						
	Block 5							
	Block 6							
	Block 7							

^{*1:} number of "hospitalized" and "to be hospitalized" should be included in "Injured"

Attachment 5 Summary sheet of damage to important facilities

			Summa		of damage			ties	
	pared by		son in charge	e in Ope	rative Mana	gement I		Date & Time	
Che	ecked by	(Name) Hea	ad of Operati	ve Mana	agement De	pt.		Date & Time	
	Name		Building	Staff	Commu- nication	Water	Power	Function	Remarks
1	President off	ice							
2	Pariament								
3	Ministry of I	ES							
4	M. Defense								
5	M. Healthcar	re							
6	M. Transpor								
7	M. Energy &								
8	M. Foreign A								
9	M. Urban De								
10	M. Territoria	ıl Adm.							
11	M. Finance								
12	M. Economy	7							
13	M. Natural P								
	(to be contin	ued)							
	CMC								
	YEMC	207							
	Yerevan City	office							
	Ajapnyak	1							
	administrativ	e district							
	office Avan admini	atmativa							
	district office								
	Arabkir								
	administrativ	e district							
	office								
	Davitashen								
	administrativ	e district							
	office								
	Erebuni								
	administrativ	e district							
	office								
	Kentron								
	administrativ	e district							
	office (to be contin	ned)		1					
	(10 DE COIIIIII	ucu)							
	Rescue Serv	ice		<u> </u>					
	RS Ajapnyal								
	RS Avan	-							
	RS Arabikir								
	RS Davitash	en							
	(to be contin								
	Police, Yerevan								

Police in districts				
(to be continued)				

Attachment 6 Summary sheet of damage to dangerous facilities

			Sun		neet of da				`						
Pre	epared by	(Name	Person in char								te &				
Ch	ecked by	(Name) Head of Opera	ntive Ma	nagemer	nt Dep	t.			Dat Tin	te & ne				
								Damag	e					_	
			Toxic material	Qt. (ton)	Acci- dent	Building	Staff	Commu- nication	Water	Power	Expected time/date of repair			Expected time/date of operation	Action to be taken
											E da	Y	N	E D	Ac
1	«Maqur Erka factory» CJS		Ammonium HC acid	40 50	No	OK	2 injur ed	Difficu t	Stop	OK	-		~	13:00/ 6 May	
2	«Voske Ping Ltd.		Ammonium	1.6	No	OK	OK	Difficu lt	OK	OK	-	>		-	-
3	«Urartu» OJ		Ammonium	-	No	OK	OK	OK	Stop	OK	-	~		-	-
4	«Champagne ne factory» OJSC	e-wi	Ammonium	1.5	Small accidnet	Crack (not seriou s)	4 injur ed	OK	Stop	Stop	12:00/ 7 May		>	10:00/ 15 May	Monitoing only by RS team
5	«Nairit facto CJSC	ry»	Ammonium Chlorine Nitric acid HC acid	102 225 20.5 121.6											
6	«Cocal-Cola bottlers Arm CJSC		Ammonium	3											
7	«Grand-san»		Nitric acid	28.7											
8	«Yerevan Be OJSC	er»	Ammonium	5											
9	«Dzyunik refrigerator»	Ltd.	Ammonium	18											
10	«Grand Cand Ltd.	•	Ammonium	15											
11	«Hayk» CJS		Ammonium	3											
12	«Shant-plus» Ltd.		Ammonium	8											
13	«Yerevan mi CJSC		Ammonium	1.6											
14	Yerevanyan	Rese	-	-											
15	Vardavari Reservoir		-	-											
	(Fuel station reported	s) if													

Attachment 7 Summary sheet of damage to medical facilities

				Summary sl	heet of dama	age to medic	cal fa	cilitie	es					
P	repared by	(Name) Pe	erson in char								ate &			
		**	1 00								me			
C	hecked by	(Name) H	ead of Opera	ative Manag	gement Dept	•					nte & me			
										111	ille			_
	Name		Urgent premedical assistant team	Urgent medical assitant team	Ambulance team	Additional deplaoyed beds	Building	Staff	Communication	Water	Power	Function	Action to be taken	Remarks
A	Ajapnyak		/19	/10	/4	/605								
1	Armenia m		/5	/5	/4	/400								
2	Ophthalmog after Mal		/3	/1		/70								
3	Perinatology of gynecologica		/3			/45								
4	Dermatolog sexual disease cente	e medical	/3	/2		/30								
5	Eurodent den			/2										
6	Radiological Combustion scientific of	ology	/5			/60								
В	Avan		/16	/17		/180								
	N 12 poly		/6	/6										
	(to be cont	inued)												

Attachment 8.1 Summary sheet of damage to infrastructures

					sheet of dam						ctures (1) F			
Pı	repared by	(Name) Perso										Date & Time		
C	hecked by	(Name) Head	of One	erative	Manageme	nt Γ)ent					Date &		
		(1 (41110) 11044	огорч			2	· P	•				Time		
			Dlag	kage	Blocked		Obs	cto	مام		A -4: 4 -	T-11	Estimated.	
	Ro	oad	N	Y	section	D				О	Action to be taken	Taken by Time (h:m)	Estimated time open	Remarks
1	Strategic No.	1 (North)												
	Sayat-Nova		V		-	-	-	-	-	-	-	-	-	-
	Baghramyan			~	56-58	~					Debris clearance	AAA (16:30)	6 h	Ask to Eng. Dept.
				~	12-20				>		Traffic control	BBB (16:45)	0.5 h	Ask to Police
	Kasyan		V		-	-	-	-	-	-	-	-	-	-
	Komitas (part)	V		-	-	-	-	-	-	-	-	-	-
	Sasna Tsres (p	part)												
	Yeghvard (par													
	H4	-												
2	Strategic No.	2 (South)												
	Tigran	-												
	Artsakh													
3	Stratgic road	No.3 (West)												
	Beirut													
	Argishiti (part	t)												
	Isakov													
4	Strategic No.	4 (East)												
	Abovian													
	Saralanji													
	Azatutyan													
	Tbilisyan													
	M4													
5	Strategic No.	5 (Northeast))											
	Sebastia													
	Hasratyan													
	Shiraz													
	Chaush													
	Ashtarak (M	1)												
						_								

[&]quot;Blockage" Y: Yes, N: No, "Obstacle" D: Debris, R: Road surface, B: Bridge, V; Vehicle, O: Others

Attachment 8.2 Summary sheet of damage to infrastructures

							to infrastructures					
Prep	pared by	(N	ame) Per				Management Dep		Date	e &		
	,		ĺ						Time	e		
Che	cked by	(N	ame) He	ad of	Ope	rative Manageme	nt Dept.		Date	e &		
	-								Time	e		
I			P	ass-				1			_ [
		D 11	ab	ility		Dama		Action be take		Estimat time op		Remarks
		Bridge	Y	N	No		'es	oc take	711	ине ор	CII	
					- 110	Superstructure	Substructure					
1	Friendship S	Square										
2	Vatutin str.											
3	Riga str.	V maan Diga atn										
5	Komitas ave	W near Riga str.										
-		Avan 1st bridge										
7	Avan 1st bri Avan 2nd br											
8	Yerevan - Se		-	-								
9	2nd road		-	-								
10		tashen transport										
11	7th road	tusiicii trunsport										
12	Arin-Berd st	tr.		-								
13	Davtashen b											
14	Kiev bridge											
15	near the Kie	v bridge										
16	near the Yer											
17	Haghttanak	bridge										
18	New highwa	ny										
19	New highwa	ny										
20	Heratsi str.											
21	Charents str.	•										
22	Khanjyan st											
23	Tigran Mets											
24	Khorenatsi s											
25		r Kristapor str.										
26	G. Lusavorio											
		azdan Stadium										
28	Isakov ave.	.1										
29	Argavand br		1337									
30		to Echmiadzin H	1 W	-	-							
31	near Nubara											
32	Galshoyan s Jrvejh river											
34	Garegin Nzł				-							
		r Shahamiryann	er									
35	str.											
36	•	r Tamantsineri s	tr.									
37	Subway ove											
38	Shirak str. 1											
39		Araratyan str.										
40	Shirak str. 2	nd bridge										

Function \times : not functioning, Δ :partly functioning, \circ :functioning

Attachment 8.3 Summary sheet of damage to infrastructures

			Summa	ry s	heet	t of d	amag	e to i	infrastr	uctur	es (3)) Railway, subw	ay, an	d air	oort
Pre	pared by		(Name)	Pers	on i	in cha	arge i	n Op	erative	Man	agem	ent Dept.	Date		
Cl	.1.11		ar 11	T T	1 . (200		1.1		D	4		Time		
Che	ecked by		(Name)	Неа	d 01	Ope	rative	e Mai	nageme	ent D	ept.		Date Time		
				1											
					lo O			Da	mage				100	, T	
					Operation		50						9	tion	
]	Facility		d	ă O	No	Building	Staff	Commu- nication	Water	Power	Action to be taken	·‡	of operation	Remarks
						Z	uil	Sta	Jom nica	Wa	Pov	taken	200	of o	
				Y	N		Н) 1				Estimated time/ data)	
1	Railway ma	naging faci	ility												
2	Yeravan rail	l													
3	Railway trac	cks													
4	Other railwa	ay facilities	}												
5	Subway mar	naging faci	lity												
6	Subway stat	tions													
7	Subway trac	cks													
8	Other subwa	ay facilities	3												
9	Zvartnots ai facility	rport mana	ging												
10	Zvartnots ai facilitis	rport navig	ation												
11	Zvartnos air	port runwa	ıy												
12	Zvartnos air facilities	port termir	nal												
13	Zvartnots ai facilites	rport cargo	١												
14	Zvartnots lo														
15	Erebuni airp facility														
16	Erabuni airport pavigation														
17	Erebuni airp														
18	Erebuni airp facilities	al													
19	Erebuni airp	acilites													
20	Erebuni logi	istics facili	ties												

Attachment 8.4 Summary sheet of damage to infrastructures

			S	Summary sheet o	f damage to infras	tructures	(4) Gas		
Pr	epared by		(Name) Person	n in charge in Op	erative Managemo	ent Dept.	Date Time		
Cl	necked by		(Name) Head	of Operative Man	nagement Dept.		Date Time	&	
		Accident		Da	mage	Action to be	Estimated time/date	Estimated time/date of	Remarks
	Locatio	on	Situation	Location	Situation	taken	of repair	operation	Remarks
1	Gas supply	managing f	acilities		T			Ι	
2	Gas storage	facilities							
	Gas storage	lacinties							
3	High pressu	re gas netw	ork		T			1	
			2 111 1						
4	Gas pressur	e regulating	tacilities	-	T	1		I	
5	Gas distribu	tion networ	·k		T	1			
6	Lead-in faci	lities and o	ther facilies ins	ide factories, hou	ses, etc.	1		T	

Attachment 8.5 Summary sheet of damage to infrastructures

			Sum	mary sheet of da	amage to infrastruc	tures (5)	Electricity		
Pr	repared by				erative Manageme		Date		
CI	hecked by		ar) Head	of On quotive Mar	macamant Dant		Time Date		
C	пескей бу		(Name) Head (of Operative Mar	nagement Dept.		Time		
						Action	Estimated	Estimated	
		Acciden			mage	to be	time/date	time/date of	Remarks
	Locatio		Situation	Location	Situation	taken	of repair	operation	
1	Hydro-pow	er station m	nanaging facilitie	es	1	T			
_	Vanarian hari	1	-4-4:						
2	Yerevan hyo	iro-power s	station		1				
3	Kanaker hy	dro-nower	station						
	Transact ny	aro power	Station						
4	High voltag	e transmiss	sion network						
-									
5	Substations	<u> </u>			1				
6	Distribution	network	The state of the s		Ţ	T		<u> </u>	
7	Lood in fooi	litias and f	Cailitian innida f	actories, houses.	ata .				
/	Leau-III IdC		acinues inside is	actories, nouses.	eic.				
	1	ı			1			1	

Attachment 8.6 Summary sheet of damage to infrastructures

			Sumn	nary sheet of dan	nage to infrastruct	ures (6) V	Water supply	I	
Pr	epared by		(Name) Person	n in charge in Op	erative Manageme	ent Dept.	Date Time	&	
Cl	necked by		(Name) Head	of Operative Man	nagement Dept.		Date Time		
		Accident			mage	Action to be	Estimated time/date	Estimated time/date of	Remarks
<u> </u>	Location		Situation	Location	Situation	taken	of repair	operation	
1	Reservoirs a	and springs			T			<u> </u>	
2	Major water	r ways and	water lines		<u> </u>		<u> </u>	<u> </u>	
3	Regulating	ponds							
		<u> </u>							
4	Pulification	facilities			l				
				-					
5	Major water	r tanks, tow	ers or booster s	tations	Ī			<u> </u>	
	Distribution								
6	Distribution	network							
7	Lead-in fac	ilities and fa	acilities inside f	actories, houses.	etc.				

Attachment 9 Summary sheet of damage to buildings

Sui	mmary sheet	of damage	to build	dings (Ma	inly for co	llapsed	and he	avily dan	naged)	
Prepared by	(Name) Per	son in cha	rge in O	perative	-	Date &	t Time			
	Managem	ent Dept.								
Checked by	(Name) Hea	ad of Oper	ative Ma	anagemen	t Dept.	Date &	t Time			
District/Area	Adress	Building type*	No. of stories	Damage grade	No of confined/ missing	No. of injured	No. of dead	Related accident	Action to be taken	Remarkds
A. Ajapnyak										
Block 1				•						
Block 2										
								·		
D11-2										
Block 3										

Block 4								·····		
Block 1				•	***************************************				***************************************	
B. Avan				I	I		l	l		1
Block 5										
Block 6										

D1 1 7										
Block 7										
+			-							
		+	 			 				
		1								
				1	~ ~•				~ ~	L.

Building type O: Official (Republican), F: Factory, S: Shops or for only commercial, C: Collective, I: Individual

Related accident F: Fire, G: Gas leak, W: Water leak, E: Explosion, O: Others (description)

Attachment 10 Summary sheet of damage to supporting facilities

			Summary sheet of da	mage	to su	ıpportii	ng fa	cilitie	es		
Prepared by		(Name) Person Dept.	in charge in Operati	ve M	anage	ement	Da	te &	Time		
Checked by		(Name) Head	of Operative Manage	ive Management Dept.					Time		
Name of of facility or comany		Adress	Situation of damage to the supporting materials	Building	Staff	Commu- nication	Water	Water		Action be take	Remarkds
A. Food				1	I		I				
B. Water (Drinl	ks)		1	<u> </u>							
C. Medical sup	plies										
D. Cloths, shoe	s go	ods for sleeping	r etc								
2. 010413, 31100	<u>, 5</u> 0	ous for siceping	,,, с.с.								

Attachment 11 Plans and regulations to be followed in emergency response

Category	Status	No.	Title	Year
Overall	Law	AL 265	Law on Population Protection in Emergency Situations	1998
	Law	AL 309	Law on Civil Defense	2002
	Law	AL 367	Law on Seismic Protection	2002
Warning	G_Decis	N 1304	Decision on Approving the Order of Reception of	2003
_	ion	N	Information and Warning about Occurrence of	
			Emenrgency Situations in the Territory of Repblic of	
			Armenia	
	G_Decis	N 1494	Decision about Defining the Order of Warning of	2004
	ion		Population and Governing Bodies	
	G_Decis	N 1925	Decision on approving the procedure of the population	2005
	ion	N	warning about emergency situations in the territory of	
			the Repbulic of Armenia	
Plan	G_Decis	N 919	Plan of Organization of Protection of Population of the	2010
	ion		Republic of Armenia in Case of Severe Earthquake	
	M_Deci	N 941	Evacuation of Population of Yerevan City during	2010
	sion	A	Emergency Situations and Martial Law	
			Plan of population evacuation in case of a severe	
			earthquake in Yerevan city	

Attachment 12 Deployment and safety of staffs in search and rescue operation

Group	Leader	No. of staffs	Purpose	Area	Duration	Communication means	Safety information	Remarks				
A. Aja												
No.1												
No.2												
No.3												
B. Ava	ın											
No.4												
No.5												

添付5 階層分析法(AHP)

AHP

(Analytical Hierarchy Method)

for

Prioritization of Projects

Procedure and Result

- 1. Evaluation items
- 2. Evaluation of criteria
- 3. Weighting of evaluation items
 - 3.1 Level 1
 - 3.2 Level 2
 - 3.3 Total weight
- 4. Projects to be prioritized
- 5. Evaluation of projects
- 6. Prioritization of projects

1. Evaluation items

Two levels of items for evaluation were determined as shown in Table 1.

Level 1 consists of four items; A. Validity, B. Direct Effect, C. Indirect Effect, and D. Sustainability. Each item of Level 1 consists of four or three sub-items in Level 2.

Table 1 Items for evaluation

I	tem (Level 1)		Item (Level 2)	Remarks				
		1	Conformity with policy, regulations, and plans	Whether necessity or validity has been stated in existing policy, regulations, or plans?				
A	Validity	2	Needs and consensus of residents and communities	In the level of residents, enterprises, and schools, is there demand for improvement or implementation? and is it easy to formulate consensus?				
		3	Initial investment (Budget)	Scale of initial investment (budget) and the possibility of securing the amount				
		4	Implementing organization and its human resources	Is an implementing body clear? Can human resources be secured for the implementation?				
			Risk reduction	The scale of target risk to be reduced in the project and the degree of reduction of the risk by the project				
		6	Awareness raising	The degree of effectiveness in terms of raising awareness of related personnel and residents				
В	Direct Effect	7	Capacity development	The degree of capacity development in disaster management of the related personnel and residents in the course of and as the result of the project implementation				
		8	Implementation of similar project	Has a similar project been in implementation? Is there any limitation in effectiveness due to duplication in targeting result?				
		9	Autonomous development (in the implementing project)	Is there effect on further promotion of implementing project in terms expansion of targeting personnel, objects, and areas?				
С	Indirect Effect	10	Impact (to related projects or activities)	Is there effect on promotion of related projects or activities?				
		11	Economic effect to other projects	Is there effect on promotion in development of related industry and local society?				
		12	Operational expense	Can monetary resources be secured for operation, maintenance, and management?				
D	Sustain-ability	13	Organizational Framework for operation	is it possible to arrange regulation and organization and to secure manpower for the operation?				
		14	Effort and ambition for the operation	Is there effort and ambition in the operating organization and personnel for continuity and expansion of the project/				

2. Evaluation criteria

Criteria for the evaluation of each sub-item are shown in Table 2. Evaluation was done, based on the point on the upper column in Table 2.

		5	Clear statement in policy, regulations, or plans	Big demand and easy for formulating consensus	5 mil or less; possible or secured source 5-50 mil.; secured source	An implementing body is clear and human resources are secured	Target risk is big and the degree of reduction is big	Rasing awareness can be effectively done for mamy of the object personnel	A lot of personnel develop the capacity effectively	A similar project has not been implemented, and targeting result can be efficiently obtained	The above-mentioned "B Direct Effect" is expanded in terms of targeting personnel objects, and are as	Related projects or activities are promoted sufficiently	There is a big effect on promotion in development of related industry and local society	The monetary resources can be secured, regardless of the amount	The arrangement and securing has been done already done	There is enough effort and ambition in the operating organization and personnel for the continuity and expansion of the project
				Big dem		An implem	Target	Raising aw for ma	A lot of p	A sir	The above expanded	Related pro	There is developme	The mone re		
		4	Well related statement in policy, regulations, or plans	(interme diate)	5 mil. or less; no source so far 5-50 mil.; possible source 50-500 mil.; secured source	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(interme diate)	(intermediate)	(interme diate)	(intermediate)	(intermediate)	A part or all of the arrangement and securing for operation has not been done, and the arrangement and securing will be done easily	The effort and ambition is expectable in the operating organization and personnel for the continuty and expansion of the project
	Point	3	Related statement in policy, regulations, or plans	Moderate situations in demand and formula ting consensus or or one of the two is in good situation	5-50mil; no source so far 50-500 mil; possible source 500 mil or more; secured source	Moderate situation in implementing body and human resources or or one of the two is in good situation	Moderate situations in the scale of risk and the degree of reduction or one of the two is in good situation	Moderate in number of personnel and effectiveness or or one of the two is in good situation	Moderate situation in number of personeel and effectiveness in terms of capacity development or one of the two is in good situation	Although a similar project has been implemented, there is no duplication in the targeting results	Expansion of the effects is moderate or the expansion is available to some parts of the targeting personnel, objects, and areas	There is possibility on the promotion of related projects or activities or the projects or activities are promoted to some extent	There is a little or limited effect on promotion in development of related industry and local society	A big amount of the resources is required and it can be secured OR a small amount of the resources is required and there is a little possibility to secure it.	A part or all of the arrangement and securing for operation has not been done, and there is a possibility for the arrangement and securing	The effort and ambition is not clear in the operating organization and personnel for the continuity and expansion of the project
Evaluation Criteria		2	Somewhat related statement in poloicy, regulations, or plans	(intermediate)	50-500 ml.; no source so far 500 ml. or more; possible source	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(intermediate)	(intermediate)	A part or all of the arrangement and securing for operation has not been done, and there is a little possibility for the arrangement and securing	The effort and ambition is not expectable in the operating organization and personnel for the continuty and expansion of the project
Table 2		-	No related statement in policy, regulations, or plans	small demand and difficulty in formulating consensus	500 mil. or more; no source so far	An implementing body is unclear and difficulty in securing human resources	Target risk is small and the degree of reduction is small	A small number of personnel and small degree of the effectiveness	A small number of personnel and small effectiveness in terms of capacity development	A similar project has been implemented, and targeting results are duplicated	The above-mentioned "B Direct Effect" is not expanded in terms of largeting personnel, objects, areas	Few possibility in promotion of related projects or activities, other than the implementing project	There is no effect on promotion in development of related industry and local social	It is difficult to see ure the monetary resources	A part or all of the arrangement and securing for operation has not been done, and there is difficulty in the arrangement and securing	mbition in the personnel for of the project
5	Domorfe	Nellidins	Whether necessity or validity has been stated in existing policy, regulations, or plans?	In the level of residents, enterprises, schools, is there demand for improvement or implementation? and is it easy to formula te consensus?	Scale of initial investment (budget) and the possibility of securing the amount	Is an implementing body clear? Can human resources be secured for the implementation?	The seals of target risk to be reduced in the project and the degree of reduction of the risk by the project	The degree of effectiveness in terms of raising awareness of related personnel and residents	The degree of capacity development in disaster management of the related personnel and residents in the course of and as the result of the project implementation	Has a similar project been in implementation? Is there any limitation in effectiveness due to duplication in targeting result?	Is there effect on further promotion of implementing project in termsof expanding targeting personnel, objects, and areas?	Is there effect on promotion of related projects or activities?	Is there effect on promotion in development of related industry and local society?	Can monetary resources be secured for operation, maintenance, and management?	is it possible to arrange regulation and organization and to secure manpower for the operation?	Is there effort and ambition in the operating organization and personnel for continuity and expansion of the project/
	Them (I areal 2)	(150vel 2)	Conformity with policy, regulations, and plans	Needs and consensus of residents and communities	Initial investment (Budget)	Implementing organization and its human resources	1 Risk reduction	2 Awareness raising	3 Capacity development	Implementation of similar project	Autonomous development (in the implementing project)	Impact (to related projects or activities)	Economic effect to other projects	1 Operational expense	Organizational Framework for operation	3 effort and ambition for the operation
	I love (Lavel 1)	nem (bever 1)		A Vol. Editor	Yallar Yallar			Direct	Effect	-	***************************************	C Indirect Effect			D Sustain- ability	

3. Weighting of evaluation items

3.1 Level 1

For the weighting of each item, relative importance of items in Level 1 was determined in each pair of items as shown in Table 3.

Table 3 Relative importance of each pair of items of Level 1

_	Left side Item	n is more impo	rtant				Right	side Item is m	ore important	
Item	5	4	3	2	1	1/2	1/3	1/4	1/5	Item
Validity	\vdash	-	\oplus	-	-	-	-	-	\perp	Direct Effect
Validity	\vdash	-	+	\oplus	-	-	-	-	\dashv	Indirect Effect
Validity	\vdash	-	+	-	\oplus	+	-	+	\dashv	Sustainability
Direct Effect	\vdash		-	-	-	\oplus	-	-	\dashv	Indirect Effect
Direct Effect	\vdash	-	-		-	\oplus			\dashv	Sustainability
Indirect Effect	 	-	-	-	-		\oplus	-	\vdash	Sustainability

The weight of each item of Level 1 is calculated as shown in Table 4.

Table 4 Weight of items in Level 1

	Viability	Direct Effect	Indirect Effect	Sustain- ability	Geometric average	Weight
Viability	1	3	2	1	1.5651	0.3535
Direct Effect	1/3	1	1/2	1/2	0.5373	0.1214
Indirect Effect	1/2	2	1	1/3	0.7598	0.1716
Sustain- ability	1	2	3	1	1.5651	0.3535
				sum	4.4273	1.0000

CI= 0.0341

CI : Consistency Index

3.2 .Level 2

On the same way, the weight of sub-items in Level 2 is calculated as shown in Tables 5.

Table 5 Weight of sub-items in Level 2

Validity						
	Conformity with policy, regulations, and plans	Needs and consensus of residents and communities	Initial investment (Budget)	Implementing oraganization and its human resources	Geometric average	Weight
Conformity with policy, regulations, and plans	1	3	1/2	1	1.1067	0.2558
Needs and consensus of residents and communities	1/3	1	1/2	1/2	0.5373	0.1242
Initial investment (Budget)	2	2	1	2	1.6818	0.3888
Implementing oraganization and its human resources	1	2	1/2	1	1.0000	0.2312
		CI=	0.0390	sum	4.3258	1.0000
Direct Effect						
	Risk reduction	Awareness raising	Capacity development	Implementation of similar project	Geometric average	Weight
Risk reduction	1	2	1	3	1.5651	0.3545
Awareness raising	1/2	1	1/2	1	0.7071	0.1602
Capacity development	1	2	1	3	1.5651	0.3545
Implementation of similar project	1/3	1	1/3	1	0.5774	0.1308
		CI=	0.0069	sum	4.4146	1.0000
	Indirect Effect					
		Automonous development (in the implementing project)	Impact (to related projects or activities)	Economic effect to other projects	Geometric average	Weight
	Automonous development (in the implementing project)	1	1	1/2	0.7937	0.2599
	Impact (to related projects or activities)	1	1	1	1.0000	0.3275
	Economic effect to other projects	2	1	1	1.2599	0.4126
		CI=	0.0268	sum	3.0536	1.0000
	Sustainability					
		Operational expense	Organizational Framework for operation	Effort and ambition for the operation	Geometric average	Weight
	Operational expense	1	1/2	2	1.0000	0.3108
	Organizational Framework for operation	2	1	2	1.5874	0.4934
	Effort and ambition for the operation	1/2	1/2	1	0.6300	0.1958
		CI=	0.0268	sum	3.2174	1.0000

3.3 Total weight

Total weight is calculation, multiplying the weights of Level 1 and Level 2 as shown in Table 6.

Table 6 Total weight of evaluation items

Item in Level 1	Weight (level 1)	Item in Level 2	Weight (level 2)	Total Weight
		Conformity with policy, regulations, and plans	0.2558	0.0904
*** 1.40	0.3535	Needs and consensus of residents and communities	0.1242	0.0439
Viability	0.3535	Initial investment (Budget)	0.3888	0.1374
		Implementing oraganization and its human resources	0.2312	0.0817
		Risk reduction	0.3545	0.0430
Direct Effect	0 1214	Awareness raising	0.1602	0.0194
Direct Effect	0.1214	Capacity development	0.3545	0.0430
		Implementation of similar project	0.1308	0.0159
		Automonous development (in the implementing project)	0.2599	0.0446
Indirect Effect	0.1716	Impact (to related projects or activities)	0.3275	0.0562
		Economic effect to other projects	0.4126	0.0708
		Operational expense	0.3108	0.1099
Sustainability	0.3535	Organizational Framework for operation	0.4934	0.1744
		Effort and ambition for the operation	0.1958	0.0692
			sum=	1.0000

4. Projects to be prioritized

Projects to be prioritized were selected, utilizing contingency scenario and evaluation of the present situation on mitigation and preparedness, as shown in Table 7.

Table 7 Projects selected for prioritization

		Table / Projects selected for prioritization								
	No	Project								
o	1	Training of staffs on emergency response								
ons	2	Training of staffs on information and communication systems								
Basic Considerations	3	Conservation of important documents								
deı	4	Clarifying disaster prevention goal in a long term plan								
nsi	5	Evaluation on existing plans and projects								
ပ္	6	Betterment of a law on earthquake disaster management								
sic	7	Clarifying methods to disseminate information by TV, radio, homepage								
Bas	8	Establishment strong motion observation network								
	9	Assessment of quake resistance on existing building and infrastructure								
	10	Reviewing and implementing measures and policies for promotion quake resistance of buildings								
	11	Review of building code								
an	12	Seismic reinforcement of important buildings								
Pl	13									
ion	14									
Mitigation Plan	15	Designating evacuation points								
liti	16	ξ ,								
\geq	17	r · · · · · · · · · · · · · · · · · · ·								
	18	Development of earthquake engineering and aseismic technology as well as the cultivation of engineers of								
		those fields								
	19	Formulating BCP and emergency response manual of the government								
п	20									
Preparedness Plan	21	Clarifying and formulating communication chains inside and outside government								
ss]	22	Preparation of emergency communication means such as satellite phones and establishment of organizational								
lne		network on communication								
rec	23									
eba	24	Preparation of hardware such as emergency back-up power supply system for emergency response as well as								
P_{Γ}	tools and materials for the repair facilities Designating and constructing strategic roads for emergency response									
	26 Reserving water and foods as well as formulating distribution plan of water and foods									
	27	1 61 1 7 81								
		Improving capacity of search and rescue								
		Establishment of the system and procedure for urgent diagnosis on buildings and infrastructures								
		Betterment of collection and assessment of damage information								
lan	31	Formulating a plan for maintaining social security								
э Б	32	Improving emergency medical service								
suc	33									
sbc	34									
Emergency Response Plan		Formulating a traffic control plan Formulating an avacuation plan and its discomination to the public								
cy	36	<u> </u>								
en	37 38	7 8 1								
erg		, c c								
Em	39 40	Formulation of plan for the dealing of dead bodies and burial Formulating a plan and policy for treatment of garbage and debris in emergency								
	41	Formulating emergency re-construction plan for lifeline utilities such as water-supply, electricity-supply and								
	42	gas-supply								
	43									
	44	Evaluation of existing disaster records								
7	45									
Rehabilitation/ Reconstruction	46	Formulating a plan for establishment of headquarters for reconstruction								
itat	47	Formulation of guideline on compensation of disaster damages and dissemination of the guideline								
bili	48									
sha co	49	• • • • • • • • • • • • • • • • • • • •								
Re		Developing a plan for proving temporary houses								
	51									
$\overline{}$	- 4									

5. Evaluation of projects

Evaluation value for each project was calculated; 1) multiplying weight and point in each sub-items, and 2) summing up the multiplied value for each project as shown in Table 8 and Figure 1.

Table 8 Evaluation result

<u> </u>			A. Vi	oblitu			B Dire	et Effect			C. Spread Effect			D. Sustainability			
Evaluation and We Category and		1. Conformity with policy, regulations, and plans	2. Needs and consensus of residents and communities	3. Initial investment (Budget)	4. Implementing oraganization and its human resources	1. Risk reduction	2. Awareness raising	3. Capacity development	4. Implementation of similar project	1. Automonous development (in the implementing project)	2. Impact (to related projects or activities)	3. Economic effect to other projects	1. Operational expense	2. Organizational Framework for pperation	3. Effort and ambition for the opration	Evaluation Value	Priority
Project No.		0.090	0.044	0.137	0.082	0.043	0.019	0.043	0.016	0.045	0.056	0.071	0.110	0.174	0.069		
	1	3.75	2.75	2.44	2.75	2.78	3.38	2.75	2.88	3.00	3.00	2.56	2.13	3.00	3.63	2.861	15
	2	3.57	2.63	2.00	3.13	3.13	3.38	2.63	2.86	3.25	2.75	2.38	2,50	2.38	3.78	2.745	25
	3	3.25	2.44	2.25	4.11	2.22	3.00	2.56	2.29	3.00	2.57	2.43	2.75	2.88	3.13	2.817	20
	4	3.13	2.71	2.71	3.25	2.86	3.00	3.11	2.33	2.57	2.43	2.67	2.00	2.63	3.67	2.764	24
suc	5	3.13	2.78	3.25	2.88	3.00	2.25	2.63	2.71	2.50	2.63	2.63	2.88	2.75	3.33	2.886	14
Basic Considerations	- 6	4.00	2.67	2.89	3.25	2.88	3.13	3.13	3.38	2.88	3.13	3.38	2.63	3.13	3.25	3.115	4
onsid	7	2.75	2.63	2.50	3.00	2.75	3.38	3.11	3.00	3.00	2.88	2.75	2.50	2.89	3.63	2.838	18
sic C	9	3.63 2.78	2.63	3.11 2.56	3.25	3.22	2.63	3.56 2.78	3.43 2.29	3.13 2.63	3.38 2.38	3.13 2.50	2.63	3.25 2.50	3.67	3.193 2.602	39
Ba	10	2.88	2.11	2.75	2.78	2.89	2.33	2.78	2.13	2.33	2.38	2.44	2,38	2,38	3.22	2.589	41
	11	2.78	2.56	2.67	3.00	3.00	2.25	2.67	2.71	2.25	2.22	2.00	2,33	2.78	3.50	2.656	34
	12	3.22	2.89	2.44	2.56	2.67	2.89	2.89	2.50	2.33	2.78	2.75	2.33	2.44	3.33	2.666	33
	13	3.38	2.25	2.25	2.56	2.75	2.00	2.50	2.25	2.38	2.11	2.67	2.13	2,38	3.50	2.526	43
	14	3.67	3.13	2.89	3.50	3.00	2.75	3.25	2.71	3.13	3.38	2.75	2.75	3.38	3.22	3.155	3
	15	3.00	3.00	3.13	3.56	3.00	2.88	2.63	3.00	3.11	2.25	2.56	2.38	3.67	3.75	3.075	5
	16	2.63	2.67	2.38	2.63	2.44	3.25	2.50	2.71	3.00	2.63	2.38	1.75	2.00	2.88	2.404	49
	17	3.38	3.25	2.38	3.00	3.00	3.11	3.25	3.13	3.11	2.67	2.89	1.88	2.89	3.56	2.848	16
	18	3.50	2.63	2.57	2.71	2.86	3.29	3.13	2.88	2.57	2.86	3.14	2.43	2.57	2.86	2.785	21
Plan	19	3.25	3.11	2.50	3.44	2.75	3.38	2.88	3.00	2.88	2.67	2.75	2.44	3.00	3.38	2.909	12
Mitigation Plan	20	2.75	2.50	2.22	2.67	3.00	3.00	2.75	3.43	3.67	2.88	2.88	2.44	2.75	3.13	2.735	26
Mittig	21	2.50	3.00	2.22	3.50	3.25	3.25	3.11	2.38	3.25	3.22	2.38	2.50	2.75	3.75	2.832	19
	22	2.75 3.38	2.38	2.38	2.22	2.63 3.50	2.56 3.25	2.67 3.13	2.38	2.38	2.38	2.38 3.25	2.25	2.13	3.25	2.426 3.063	47 6
	24	3.11	3.00	2.88	2.63	2.88	2.78	2.67	2.71	2.38	2.25	2,75	2,25	2.67	3.38	2.731	28
	25	3.25	2.78	2.78	2.88	3.00	2.75	2.67	2.43	3.00	3.38	3.00	2.25	3.00	3.88	2.943	11
	26	3.50	2.38	2.38	2.75	2.67	2.67	2.63	2.57	2.50	2.50	2,50	2.44	2.63	3.50	2.690	31
	27	3.78	3.13	2.50	3.63	3.38	3.56	3.13	3.00	3.25	3.13	2.63	2.63	2.63	3.67	3.022	8
	28	3.13	2.56	2.44	3.22	2.56	2.78	2.67	2.57	2.78	2.78	2.11	2.44	3.00	3.56	2.781	22
æ	29	3.33	2.67	2.11	2.33	2.56	2.22	2.44	2.57	2.22	2.44	2.22	2.00	2.22	3.22	2.423	48
ld sss PI	30	3.11	3.44	2.44	2,56	2.22	2.56	2.67	2.88	1.78	2.44	2.44	2.44	2.56	3.44	2.626	35
redne	31	3.56	2.78	3.11	3.13	2.78	3.33	3.00	2.57	2.56	2.78	2.88	2,56	2.89	3.50	2.981	10
Preparedness Plan	32	3.88	2.88	2.78	3.25	2.89	2.67	3.44	3.38	3.33	3.00	3.00	2.13	2.89	3.38	3.003	9
	33	2.78	2.56	2.33	2.78	2.89	2.11	2.00	2.38	2.56	2.78	2.00	2.22	2.67	3.33	2.552	42
	34	3.50 4.00	2.88	3.22	3.00	3.38	2.78	2.67 3.13	3.29	3.11 2.75	3.11 2.88	3.00	2.63	2.56	3.50	2.907 3.035	13 7
	36	4.00	2.75	3.33	3.22	3.25	3.22	3.13	3.29	2.75	3.56	3.00	2.89	2.89	3.78	3.212	1
	37	2.88	2.88	2.50	2.88	2.38	2.63	2.50	2.63	2.50	2.50	2.75	2.63	2.63	3.50	2.703	30
	38	3.50	3.11	2.67	3.00	2.56	2.89	2.67	3.13	3.13	3.00	2.38	2.38	2.63	3.63	2.841	17
'lan	39	2.88	3.00	2.25	3.11	2.44	2.33	2.33	2.71	2.67	2.75	2.13	2.44	2.67	3.13	2.623	36
n se F	40	2.67	2.78	2.44	2.88	2.22	2.56	2.56	2.14	2.50	2.50	2.33	2.13	2,25	3.22	2.490	45
Em ergency Response Plan	41	3.00	2.50	2.13	2.13	2.33	2.44	2.44	2.71	2.38	2.78	2.44	2.13	2.50	3.50	2.490	44
ncy F	42	3.22	2.67	2.78	2.89	2.38	2.44	2.75	2.86	2.75	2.56	2.75	2.44	2.63	3.67	2.781	23
ıerge	43	2.88	2.78	2.75	2.88	2.75	2.56	2.25	2.43	2.50	2.75	2.75	2.50	2.63	3.50	2.734	27
直	44	2.86	2.71	2.29	2.71	2.38	2.43	2.50	3.13	2.86	2.71	2.13	2.29	2.86	3.14	2.618	37
	45	3.00	3.38	2.38	2.89	2.33	2.75	2.75	3.14	2.63	2.63	2.44	2.11	2.78	3.22	2.681	32
	46	3.00	2.89	2.44	2.89	2.22	2.56	2.89	2.50	2.56	2.44	2.33	1.88	2.67	3.33	2.598	40
	47	2.50	2.78	2.44	1.78	2.33	2.22	2.22	1.86	2.11	2.22	1.88	1.78	2.50	3.00	2.289	50
ation/ ction	48	2.88	3.25 2.63	2.56	2.78	1.75	2.88	2.89	3.00 1.88	3.00	2.89	1.89	2.13	2.63	3.50	2.730	29 46
Rehabilitation/ Reconstruction Plan	50	2.63	2.38	2.11	2.88	2.38	2.67	2.44	2.57	2.22	2.44	2.63	2.22	2.67	3.63	2.445	38
Rehi	51	2.86	2.29	1.57	2.43	2.14	2.43	2.13	1.86	2.14	2.14	2.03	1.86	1.86	3.00	2.148	51
L		2.00	2.27	1.57	2,43	2.14	2,43	2.14	1,00	2.14	2.14	2,27	1,00	1,00	5.00	2.170	

6. Prioritization of projects

Prioritization can be done, simply arranging the evaluation results in order of priority as shown in Figure 2.

Figure 1 Evaluation Result

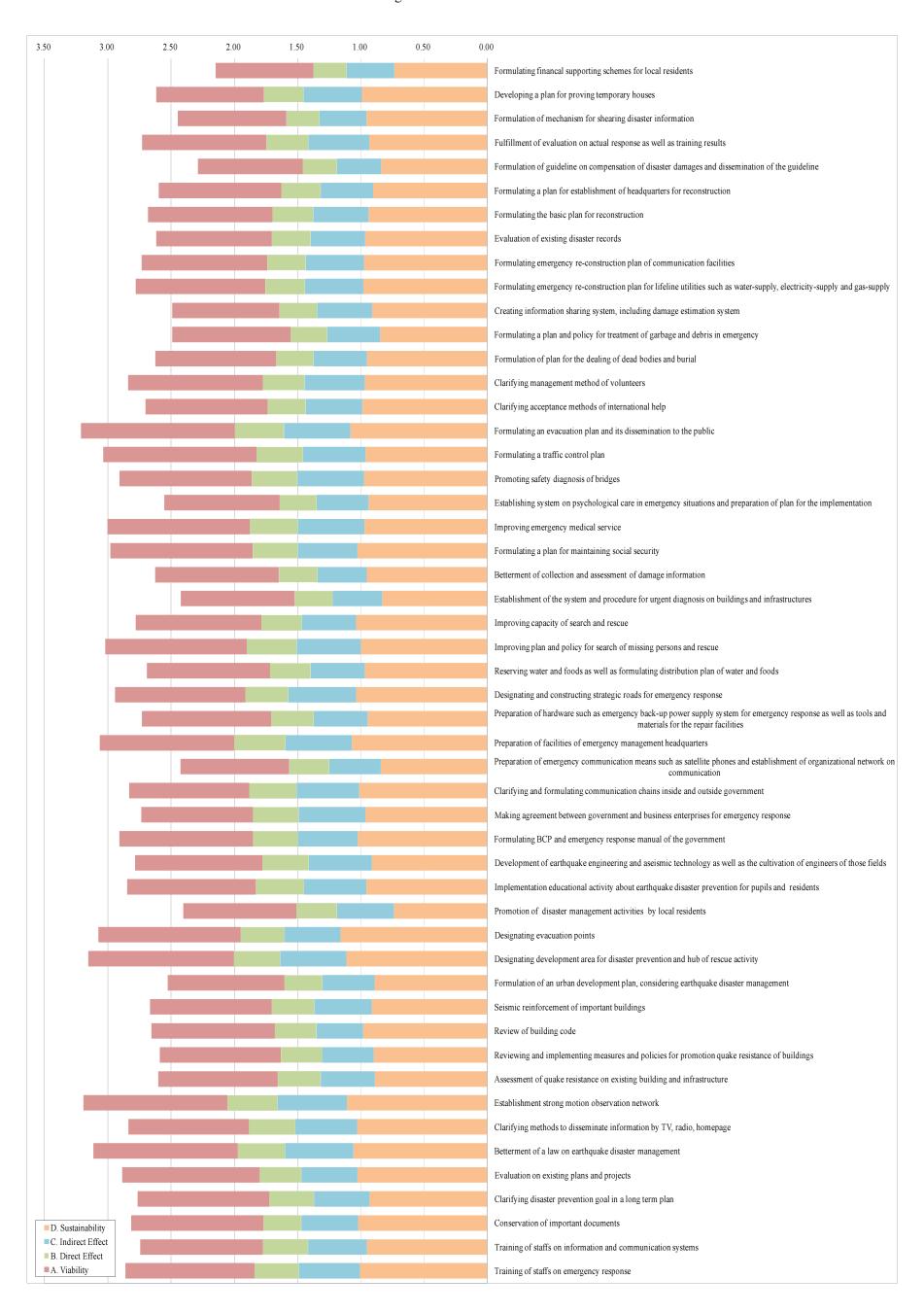
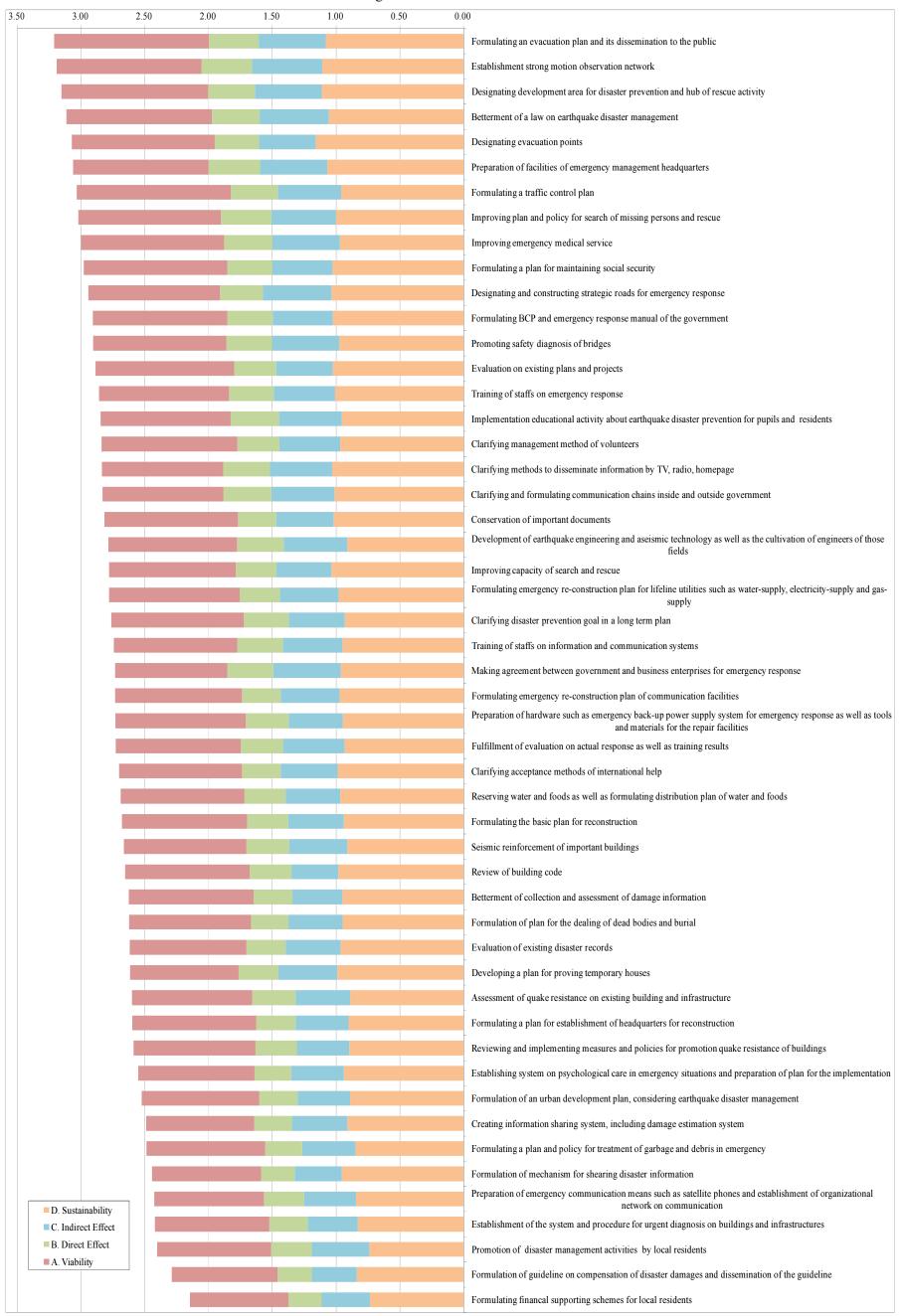


Figure 2 Prioritization Result



添付6 実施計画

計画策定の流れ

本プロジェクトで策定されたエレバン市地震防災対策計画では、多岐に亘る分野・項目を広く網羅して、必要な対策とその実施機関等を示した。

同時に、エレバン市の現状に基づいて、できるところから着実に効果的な対策を実施するために、実施計画を策定した。

上記の流れを下図に示す。

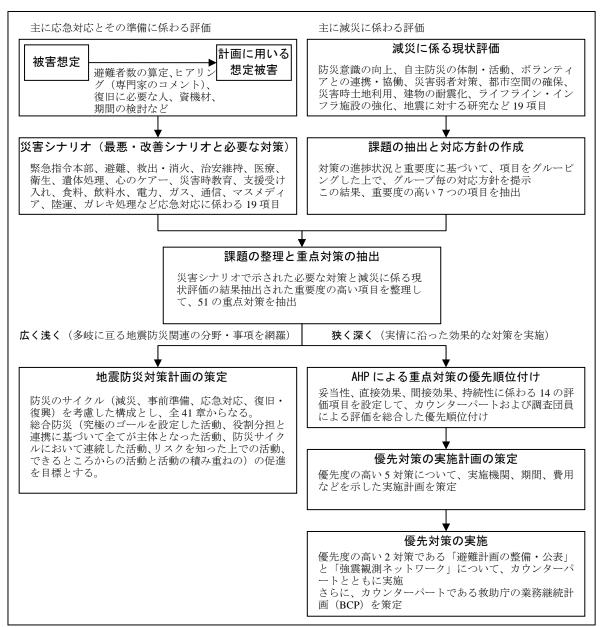


図 計画策定の流れ

実施計画策定

目的

エレバン市の地震災害リスクを軽減するために、できるところから着実に効果的な対策を実施するために、優先度の高い対策の計画を策定する。

計画策定

応急対応および減災に係わる評価を行った結果から、51の重点対策を抽出した。

抽出された重点対策を階層分析法(AHP)によって優先順位付けを行った。AHPによる評価過程と結果を添付5に示す。この結果、優先度が高いと評価された5つの対策(下表参照)について、実施計画を作成した。

表 優先度が高いと評価された対策

- 1. 避難計画の策定・公表
- 2. 強震観測ネットワークの整備
- 3. 防災重点地区・支援拠点の指定・整備
- 4. 地震防災に関する法令・基準の整備
- 5. 避難所の指定・整備および準備の促進

運営体制・実施機関・予算

AHPによる評価項目の重み付けの結果では、運営体制・実施機関・予算の重みが大きい。これらの項目が対策の実施においても重要であると判断されため、実施計画においてこれらを明記した。

なお、2011 年度のアルメニアの国家予算は、で約1兆ドラム(約2,000億円)であり、非常事態省と救助庁の予算は合わせて約65億ドラム(約13億円)であることから、多くの予算が必要な対策の実施のためには国家予算以外の資金源も考慮する必要がある。

実施計画 1 避難計画の策定・公表(実施済)

#作成であった地震時の避難計画を策定し、その内容を公表することにより、関係機関・コミュニティ・住民の準備を促進するとともに、地震発生時に冷静・迅速・適切な避難行動がとれるようにする。 方法 管理機関の指示・監督の下で、調査団と実施機関が原稿を作成し、関係機関への回覧・意見聴取を経て、市長令として承認を受けて公表する。 管理機関・非常事態省散助庁 実施機関: 来の大学を発生のでは、大学を発生のでは、大学を発生のでは、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を発生して、大学を表し、は、大学を発生して、大学を発生して、大学を表しましまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しましまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しましまして、大学を表しましまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しましまりまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しましまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しまして、大学を表しましまりまりまして、大学を表しまして、大学を表しましまりまりまりまして、大学を表しましまりまりまりまりまりまりまりまりまりまりまりまりまりまりまりまりまりまり		
回覧・意見聴取を経て、市長令として承認を受けて公表する。	目的	係機関・コミュニティ・住民の準備を促進するとともに、地震発生時に冷静・迅
接関 実施機関:	方法	
(2) 本調査の計画策定ワーキンググループにおいて、計画の骨子の設定 (3) 救助庁エレバンレスキューサービスと調査団が主体となって、関係部署とともに原稿を作成 (4) エレバン市および関係機関への内容説明・意見聴取 (5) 市長への承認申請 (6) 関係機関への回覧・意見聴取 (7) 市長令としての承認・公表	機関	実施機関:救助庁エレバンレスキューサービス
時期	内容	 (2) 本調査の計画策定ワーキンググループにおいて、計画の骨子の設定 (3) 救助庁エレバンレスキューサービスと調査団が主体となって、関係部署とともに原稿を作成 (4) エレバン市および関係機関への内容説明・意見聴取 (5) 市長への承認申請 (6) 関係機関への回覧・意見聴取
世ス、調査団、関係機関の要員の作業人日は、それぞれの内容で、(1):4人日、(2):5人日、(3):30人日、(4):4人日、(5):2人日、(6):10人日、(7):3人日、合計で58人日である。これらの作業は、それぞれ要員の既定業務に含まれるため、当対策に係わる新たな人件費の発生はない。	時期	内容 12 1 2 3 4 5 6 7 8 9 (1) 既存の避難計画のレビュー (2) 計画の骨子の設定 (3) 原稿作成 (4) 内容説明・意見聴取 (5) 請 (6) 関係機関への回覧・意見聴取 (7) 市長令としての
参照 作成された避難計画は、添付3のとおりである。	費用	ビス、調査団、関係機関の要員の作業人日は、それぞれの内容で、(1):4人日、(2): 5人日、(3):30人日、(4):4人日、(5):2人日、(6):10人日、(7):3人日、合計で 58人日である。 これらの作業は、それぞれ要員の既定業務に含まれるため、当対策に係わる新た
	参照	作成された避難計画は、添付3のとおりである。

実施計画2 強震観測ネットワークの整備(実施済)

	日と一定成就は「フェン・フジーに開く久地方」
目的	エレバン市において、強震計観測網、データ送信・解析システムを導入し、地震直後に震度分布を明らかにすることにより、防災管理機関の迅速で適切な対応に資するとともに、震度情報をSMSによって住民へ伝えることにより、住民の適切な行動に資する。
方法	・調査団とNSSPによる強震計観測網、データ送信・解析システム、およびSMS情報配信システムの導入 ・調査団と救助庁エレバンレスキューサービスによる住民の準備と震災時の適切な行動を促すポスターの作成と掲示
機関	管理機関:非常事態省 実施機関:NSSP、救助庁エレバンレスキューサービス 主な関係機関:携帯電話会社、エレバン市
内容	 (1) システム導入可能性調査 (2) システム基本設計(即時震度表示、SMS) (3) 機材購入 (4) ソフト開発(即時震度表示、SMS) (5) 機材設置 (6) システム導入(即時震度表示、SMS) (7) 動作テスト(即時震度表示、SMS) (8) ポスターの作成と掲示
時期	年月 2010 7 10 1 4 7 10 1 4 7 10 1 1 4 7 10 1 1 4 7 10 1 1 1 4 7 10 1 1 1 4 7 10 1 1 1 4 7 10 1 1 1 1 4 7 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
費用	人件費:上記の内容の実施に必要なNSSP、調査団、関係機関の要員の人件費は、それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる費用の発生はない。なお、上記の要員が作業に要する人月は、それぞれの内容で、(1):2人月、(2):2人月、(3):1人月、(4):3人月、(5):2人月、(6):1人月、(7):1人月、(8):1人月、合計で13人月である。機材費等:ネットワーク機器(500万AMD)、地震計(6,250万AMD)、サーバ(500万AMD)、即時震度表示ソフト開発委託費(1,500万AMD)、SMSソフト開発委託費(500万AMD)で、計9,250万AMDである。

実施計画3 防災重点地区・支援拠点の指定・整備

関果的に地震防災活動を促進するために、地震防災上の脆弱性・重要性を考慮して、対策の必要性が高い地区を防災重点地区として指定するとともに、支援拠点を指定して、整備を進める。		10 例外至然地位 久族族派の旧龙 亚洲
ガランドデザイン、重点項目を決めて、公園等の整備・重要建物の強化・住民組織や学校における防災活動の促進をそれぞれの担当機関が実施・支援する。 管理機関:教助庁 実施機関:教助庁エレバンレスキューサービス、都市開発省、市建築都市開発部主な関係機関:開発会社、レスキューサービスの区支部、危機管理アカデミー、学校 (1) 地震防災上の脆弱性、重要性の検討に基づく、重点地区・支援拠点の指定(2) 重点地区・支援拠点のグランドデザイン(3) 重点整備項目の決定(4) 公園・道路・支援施設の整備(5) 重要建物の強化(6) 住民の組織化・自主防災活動の支援(7) 学校における防災教育・訓練の支援 (4) 公園・道路・支援・協助の支援(7) 学校における防災教育・訓練の支援 (1) 拠点の指定	目的	て、対策の必要性が高い地区を防災重点地区として指定するとともに、支援拠点
機関 実施機関: 救助庁エレバンレスキューサービス、都市開発省、市建築都市開発部主な関係機関: 開発会社、レスキューサービスの区支部、危機管理アカデミー、学校	方法	グランドデザイン、重点項目を決めて、公園等の整備・重要建物の強化・住民組
(2) 重点地区・支援拠点のグランドデザイン (3) 重点整備項目の決定 (4) 公園・道路・支援施設の整備 (5) 重要建物の強化 (6) 住民の組織化・自主防災活動の支援 (7) 学校における防災教育・訓練の支援 (1) 整点地区・支援 (1) 拠点の指定 (2) グランドデザイ (3) 乗店整備項目の決定 (4) 公園・道路・支援 (5) 重要建物の強化 (6) 住民の組織化、自主防災の支援 (7) 学校の防災教育 (7) 訓練の支援 (7) 学校の防災教育 (8) 重要建物の強化 (6) 自主防災の支援 (7) 学校の防災教育 (7) 訓練の支援 (7) 学校の防災教育 (8) 重要建物の強化 (9) 自主防災の支援 (1) 登点に必要な救助庁、都市開発省などの要員の人件費は、それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる費用の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):4人月、(2):2人月、(3):2人月、(4):12人月、(5):18人月、(6):15人月、(7):15人月、合計で68人月である。機材費等:グランドデザイン委託費(2,500万AMD)、公園等の整備費(30,000万AMD)、重要建物の強化費(50,000万AMD)、自主防災支援機材等の費用(1,000万AMD)、数材製作等の費用(500万AMD)その他の関連調査・資料整理・広報費(1,000万AMD)で合計85,000万AMD)。その他の関連調査・資料整理・広報費(1,000万AMD)で合計85,000万AMD)。	機関	実施機関:救助庁エレバンレスキューサービス、都市開発省、市建築都市開発部 主な関係機関:開発会社、レスキューサービスの区支部、危機管理アカデミー、
内容	内容	 (2) 重点地区・支援拠点のグランドデザイン (3) 重点整備項目の決定 (4) 公園・道路・支援施設の整備 (5) 重要建物の強化 (6) 住民の組織化・自主防災活動の支援
 それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる費用の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):4人月、(2):2人月、(3):2人月、(4):12人月、(5):18人月、(6):15人月、(7):15人月、合計で68人月である。 機材費等:グランドデザイン委託費(2,500万AMD)、公園等の整備費(30,000万AMD)、重要建物の強化費(50,000万AMD)、自主防災支援機材等の費用(1,000万AMD)、教材製作等の費用(500万AMD)その他の関連調査・資料整理・広報費(1,000万AMD)で合計85,000万AMD。 	時期	内容
参 昭	費用	 それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる費用の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):4人月、(2):2人月、(3):2人月、(4):12人月、(5):18人月、(6):15人月、(7):15人月、合計で68人月である。 機材費等:グランドデザイン委託費(2,500万AMD)、公園等の整備費(30,000万AMD)、重要建物の強化費(50,000万AMD)、自主防災支援機材等の費用(1,000万AMD)、教材製作等の費用(500万AMD)その他の関連調査・資料整理・広報費
	参照	

実施計画4 地震防災に関する法令・基準の整備

スピタック地震以降、地震防災対策の枠組みを定めて防災活動を促進するための法令・基準が多く定められたものの、その一部に現状にそぐわない、他との軽力をな規定が必要な分野がみられる。既存の法令・基準をレビューした上で、更新・統合・追加など(整備)を行い、対策がより効率的に実施できるものとする。 管理機関による方針の決定に従って、実施機関が既存の法令・基準の課題を整理して、現状に則した更新・統合・追加を行う。関係機関への回覧によって得られたコメントを基に修正を行った後、管轄機関の法務部門によるチェック・審査を経て、法令としての承認を得る。 管理機関:非常事態省実施機関:エレバン市、放助庁レスキューサービス (1) 関係機関や職者からのヒアリング、既存の法令・基準の課題や問題点の整理、方針の決定(管理機関) (2) 既存の法令・基準のレビューと整備が必要な事項の抽出(実施機関) (3) 法令・基準の更新・統合・追加など(実施機関+関係機関) (4) 関係機関への回覧と得られらコメント等に基づいた修正(5) 法務部門によるチェック・審査(実施機関) (6) 管轄機関の長による承認と法令・基準としての公布 中月 2013 1 4 7 10 1 4 ロー・アリング、方針決定など(2) レビューと必要事項加出 1 4 7 10 1 4 ロー・アリング、方針決定など(2) 上ビューと必要事項加出 1 4 7 10 1 4 ロー・アリング、方針決定など(2) 上ビューと必要事項加出 1 4 7 10 1 4 ロー・アリング、方針決定など(2) 上ビューと必要事項加出 1 4 7 10 1 4 ロー・アリング、方針決定など(3) 法令・基準の関係機関の長による 5 チェックと審査 (5) 赤部部門による 5 チェックと審査 (5) 赤型の既定業務に含まれると考えられるため、当対策に係わる新たな人件費の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):2人月、(2):9人月、(3):21人月、(4):3人月、(5):3人月、(6):1人月、合計で39人月である。		1
大田	目的	法令・基準が多く定められたものの、その一部に現状にそぐわない、他との整合性が保たれない、重複がみられることがある他、必要な対策について新たな規定が必要な分野がみられる。既存の法令・基準をレビューした上で、更新・統合・
機関 実施機関: 救助庁、エレバン市・救助庁レスキューサービス (1) 関係機関や識者からのヒアリング、既存の法令・基準の課題や問題点の整理、方針の決定(管理機関) (2) 既存の法令・基準のレビューと整備が必要な事項の抽出(実施機関) (3) 法令・基準の更新・統合・追加など(実施機関+関係機関) (4) 関係機関への回覧と得られらコメント等に基づいた修正 (5) 法務部門によるチェック・審査(実施機関) (6) 管轄機関の長による承認と法令・基準としての公布 (1) 針決定など (2) 事項の抽出 (3) 新・統合・追加 (3) 新・統合・追加 (4) 関係機関への回 (5) 修正 (5) 法務部門による (5) チェックと審査 (5) 新統合・追加 (6) よる承認と公布 (6) よる承認と公布 (7) 10 1 4 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1	方法	して、現状に則した更新・統合・追加を行う。関係機関への回覧によって得られ たコメントを基に修正を行った後、管轄機関の法務部門によるチェック・審査を
方針の決定(管理機関) (2) 既存の法令・基準のレビューと整備が必要な事項の抽出(実施機関) (3) 法令・基準の更新・統合・追加など(実施機関+関係機関) (4) 関係機関への回覧と得られらコメント等に基づいた修正 (5) 法務部門によるチェック・審査(実施機関) (6) 管轄機関の長による承認と法令・基準としての公布 中月 2013 4 7 10 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	機関	実施機関:救助庁、エレバン市非常事態委員会、法令・基準の管轄機関
時期	内容	方針の決定(管理機関) (2) 既存の法令・基準のレビューと整備が必要な事項の抽出(実施機関) (3) 法令・基準の更新・統合・追加など(実施機関+関係機関) (4) 関係機関への回覧と得られらコメント等に基づいた修正 (5) 法務部門によるチェック・審査(実施機関)
それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる新たな人 費用 件費の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):2 人月、(2):9人月、(3):21人月、(4):3人月、(5):3人月、(6):1人月、合計で39 人月である。	時期	内容 1 4 7 10 1 4 (1) ヒアリング、方 針決定など (2) レビューと必要 事項の抽出 (3) 法令・基準の更 新・統合・追加 (4) 関係機関への回 覧、修正 (5) 法務部門による チェックと審査 (6) 所轄機関の長に
	費用	それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる新たな人件費の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):2人月、(2):9人月、(3):21人月、(4):3人月、(5):3人月、(6):1人月、合計で39
	参照	

実施計画 5 避難地点の指定・整備および準備の促進

目的	地震災害時に避難が迅速・的確に行えるように、地震災害の特徴を踏まえて新た に策定した地震時の避難計画に則して避難地点を指定・整備し、関係機関と住民 へ周知し、準備を促す。
方法	実施機関による避難地点の指定に引き続き、住民用と避難運営者向けの資料作成・配布、避難地点の運営体制の確認、避難地点の資機材の整備を行った上、住民や生徒を含めた準備の促進のために講習や避難訓練を行う。
機関	管理機関:救助庁、エレバン市避難委員会 実施機関:救助庁エレバンレスキューサービス、エレバン市避難委員会 主な関係機関:エレバン市、学校、レスキューサービスの区支部、危機管理アカ デミー
内容	 (1) 既存の避難地点の見直しと必要に応じた避難地点の変更・追加 (2) 避難地点・避難方法・避難時の心得などを示した住民向け掲示板・資料・パンフレットなどの作成・配布 (3) 避難地点の責任者、避難地点への派遣職員、各担当者などの避難地点運営要員とその役割の確認 (4) 避難地点に設置する資機材の整備と取り扱いの確認 (5) 避難マップ、名簿、連絡網、対応マニュアルなどの資料の整備 (6) 上記の準備の確認・運用・改善を目的とした講習・訓練の実施
時期	内容
費用	人件費:上記の内容の実施に必要な救助庁、エレバン市避難委員会などの要員の行う作業は、それぞれ要員の既定業務に含まれると考えられるため、当対策に係わる費用の発生はない。なお、要員が作業に要する人月は、それぞれの内容で、(1):4人月、(2):2人月、(3):2人月、(4):12人月、(5):18人月、(6):15人月、(7):15人月、合計で68人月である。機材費等:避難地点調査委託費(1,500万AMD)、住民配布資料作成費(500万AMD)、資機材購入費(2,000万AMD)、訓練用材料費(500万AMD) その他、資料整理・
	広報費(1,000万AMD)で合計5,000万AMD。