ATTACHMENT OF GOVERNMENT

RESOLUTION #304 IN 2010.

ACTION PLAN TO IMPLEMENT “WATER” NATIONAL PROGRAMME

№	Programme objectives, primary line of activities	Implementation activities	Implementing institution	Implementing partners	Duration
1. The following measures shall be taken to create conditions for accumulation of water resources, provision of potable water that meets the requirements of health standards, improvement of water supply for industry and agriculture to provide an environment for sustainable development:					
First stage					
For protection and restoration of watersheds:					
1.1	Place under state or local protection the watershed areas that produce 70 percent of the surface water resources of Mongolia; restore forest and vegetation coverage and take measures to protect these areas from fire and harmful insects;	To assess the current condition of watershed area ecosystems for Selenge, Tuul, Orkhon, Kherlen, Onon, Ider, Chuluut, Tamir, Tsenkher, Zavkhan, Tes, Yeruu, Kharaa, Delgermurun, Eg, Shishkhed, Baidrag, Tui, Taats, Ongi rivers that forms 70% of surface water resources of Mongolia and define the watershed borders. Furthermore, include these areas under national and local protections and annually take measures to ensure restoration of forest and vegetation coverage and protection from wildfire and harmful insects based on the detailed annual work plans. To organize advocacy campaign throughout the country to increase the awareness of the population on the importance of the protection of river watersheds and stabilization of the water flow in order to prevent water shortages and sustainable ecosystem and socio-economic provision of river basins.	MNET NAMHEM Water agency Forest Agency	All level Governors	2011-2015
1.2	Install rain generators at Altai, Hangai, and Hentii mountains and their adjacent mountains to increase precipitation rates;	In order to crease precipitation, to install 10 rain generators in areas including Altai Tavanbogd, Mukhkhairkhan, Tsambagarav, Sutai, Baatarkhairkhan, Khukh Serkhiin nuruu mountains; 10 generators in mountain ranges ofKhangai and Bulnai and their branch mountains; 10 generators in Khentii mountain range and Khuvgul mountains and 5 generators in Arts Bogd of Altai mountain range	MNET NAMHEM	All level Governors	2011-2015

		and Gurvansaikhan mountain.			
		For protection of source for water supply:			
1.3	Establish specific or ordinary protection zones and hygiene sanitation zones around water sources;	To identify and establish water supply source protection and sanitary zones in urban areas and places with water reservoirs and maintain the regulation compliance.	MNET WATER AGENCY	Ministry of Health All level Governors	2011-2012
1.4	Perform inspections of the current condition of water supply sources and update their hygiene & sanitation zoning and watershed region, place these under local jurisdiction and identify regulations to be enforced;	To identify water supply source coverage regions in the capital city, aimag centers and rural settlements, and place them under local protection. To inspect the safety and law enforcement of sanitary and protection zones and eliminate the violations.	WATER AGENCY All level Governors	MRTCUD MNET Ministry of Health	2011-2013
1.5	Take measures in stages towards eliminating negative impacts to hygiene and sanitation zones, watersheds and water resources; improve their quality by restoration and purification; and implement these measures starting first with municipalities and then with aimag centres, soums, and settlement areas.	To terminate operations in the capital city with negative impacts on water resource, water quality, water regeneration and purification through progressive activities starting from 2011. To provide professional and methodical advice for aimag centers starting from 2012 and for rural settlements starting from 2013 and organize national level implementation activities.	All level Governors	MNET Water Agency	2011-2015
1.6	Continue protection of spring sources by protecting and upgrading not less than 140 annually (1-8 in each aimag depending on number of springs in the aimag);	To upgrade and protect not less than 140 spring sources every year. In order to prevent from water shortages and contamination, build fences around the water sources and upgrade the surrounding areas of the source of not less than 400 river, creek, spring and springlet sources by the end of 2015.	MNET	Water Agency All level Governors	2011-2015
		Second stage			
		For protection of river flow regeneration sources and water supply source :			
1.7	Establish in detail boundary limits of watershed areas for 80 percent of river flows and place under state or local protection Take measures to reduce or eliminate ongoing or planned activities with negative impacts on such areas;	To identify the accurate borderlines for watershed areas that generates 80% of river flow and to place these areas under national or local protection. Continue to take measures to reduce and eliminate ongoing and upcoming activities with negative impacts.	MNET	NAMHEM All level Governors Water Agency	2016-2020
1.8	If it is determined that measures to increase precipitation to benefit climate are effective, then install additional rain generators at Hangai and Hentii mountains;	To additionally install not less than 10 rain generators in Khangai and Khentii mountain ranges if the previously installed generators proved to be effective.	БОАЖЯ ЦУОШГ	Aimag and Capital city governors	2016-2020

1.9	Continue protection and site upgrading of spring sources;	To conduct an assessment on implementation result of protected water sources by the end of 2015. Depending on the assessment result, develop further planning for water source protection.	БОАЖЯ УГ	All level Governors	2016-2020
1.10	Enforce special or ordinary protection zones and hygiene sanitation zones for water sources;	To conduct an assessment on the enforcements of water source protection and sanitary zones in urban areas and places with water reservoirs by the end of 2015. Follow up activities should be taken in order to eliminate violations in the shortcoming areas.	All level Governors	MNET Ministry of Health Water Agency	2016-2020
2. The following measures shall be implemented toward establishment of a water resource and quality-testing network, covering all territories, which has constant and continuous operation and uses new technology to provide efficient information and management.					
For first stage					
For expansion and enhancement of water resource and quality-testing network:					
2.1	Develop a comprehensive programme for a water resource quality-testing network, secure approval, and implement;	By increasing the number of water monitoring stations, improving representative capacity and elaborating monitoring and testing programme, increase information dissemination promptness, information processing and information network to users.	MNET	NAMHEM Water Agency	2011-2015
2.2	Perform technological renovation of the state network of water, meteorology, environmental control and testing, and reduce its vulnerability to disasters;	To implement the detailed action plan for provision of personnel, technique and technology by integrating with other relevant programmes for enabling the national water, meteorology and environment monitoring and observation network for forecasting natural disasters to project accurate strength and environmental impacts by prognosing at regional level in order to warn with over 80% accuracy in 3-4 days prior to the actual episode.	MNET	NAMHEM Aimag and Capital city governors Water Agency NEMA	2011-2012

2.3	Establish a new nationwide underground water control and testing network, drill monitoring wells at mining and source areas for municipality and aimag center water supplies, and connect these to the network;	To establish not less than 200 underground water measuring stations and boreholes and to provide measuring tools, devices and personnel. To drill 40 boreholes in Ulaanbaatar, 10 boreholes in Dalanzadgad, 6 in Mandalgovi, 5 in Arvaikheer, 5 in Bayankhongor, 5 in Tsetserleg, 5 in Murun, 8 in Erdenet, 8 in Altai, 2 in Sukhbaatar, 5 in Ulgii, 2 in Khovd, 3 in Uliastai, 7 in Ulaangom, 4 in Underkhaan, 4 in Choibalsan, 7 in Baganuur and 2 in Darkhan and conduct underground water monitoring tests in each borehole. Increase the monitoring borehole numbers to 200 by equipping and networking the already drilled boreholes, pit shells and excavations for underground water explorations and surveys, geological exploration drawings and construction surveys conducted with finances from the state budget, private sector, foreign and domestic investment and other projects and programmes.	MNET	Water Agency NAMHEM Aimag and Capital city governors	2011-2015
2.4	Establish permafrost control and testing network by constructing permafrost stations at areas with continuous, cold permafrost;	To expand the water monitoring and testing network by drilling and equipping 17 permafrost monitoring boreholes in continues or intermittent permafrost areas.	MNET	NAMHEM	2011-2012
2.5	Expand the surface water control and testing network, construct a lake study station for Altai mountain in the Ulaangom soum, Uvs aimag and construct an ice study station at Bayan-Ulgii aimag;	To expand the surface water monitoring and testing network by up to 30 water guards depending on the number and representative capacity of Mongolian water monitoring and testing stations. To establish and operate Altai mountain Lake study station in Ulaangom and Ice study station in Bayan-Ulgii.	MNET	NAMHEM	2011-2015
2.6	Replace measurement tools, instruments, equipment for surface and underground water testing and install automatic meters; adopt a technology for efficient information and data transferring utilizing a modern communication system;	To progressively equip the surface and underground water monitoring and testing measurement tools with automatic and remote control devices. To adopt modern mobile and stationary communication technologies for information and data transferring, receiving and processing.	MNET	Water Agency NAMHEM	2011-2015

2.7	Improve the capacity of water testing laboratories, equip them with modern and highly sensitive analytic equipment; provide customers with detailed information on water quality and pollution;	To establish 1-2 laboratories nationwide that meet the international standards and requirements for water quality testing and equip with highly sensitive analytical devices and tools. To support the laboratories established with foreign and domestic investment under the implementation of projects and programmes, improve performance capacity and provide collaboration opportunities.	MNET SPIA	NCSM NAMHEM	2011-2015
Enhance border water relationships and establish a control-testing network:					
2.8	Contract with neighboring countries on the protection of border water, its proper use, information exchange based on the principles of equal rights and effective cooperation, and provide implementation;	To amend in the transborder water protection agreement with Russia and China for additional supports on protection of water source shortages and contaminations in trans-border rivers; Conduct joint study on the potential impacts of water resource project, needs assessment on monitoring, to improve effective and equal cooperative activities.	Government	MFA MNET MJIA Water Agency	2011-2015
2.9	Establish the means to perform regular control testing of border water using established indicators, and transfer this information to a central location;	To establish border area water control station and laboratory in Sukhbaatar city of Selenge aimag as stated in the Border area water agreement for fulfillment of contractual obligations.	NAMHEM Water Agency	MNET	2011-2015
Forming and developing water ecosystem monitoring:					
2.10	Develop a national biological index of major river basins in accordance with international standards; determine impacts to water ecosystems from river basin usage and climate change, and identify control indicators;	To establish a comprehensive database on results of previously implemented projects and studies. To conduct a survey on specific rivers, regulate the existing control indicators, methods, frequency, dissemination, processing and embrace in the national water monitoring and testing programme.	Water Agency	MNET MECS NAMHEM	2011-2015

2.11	Increase the capacity to process and transfer information at the national information database, improve software and hardware and its operation; implement modern information technology and achievements to have the capability to identify water resource, quality, and usage information in detail;	To improve and enrich the national integrated water database with dynamic operation and make it available for decision makers and users by processing the data.	Water Agency	MNET NAMHEM	2011-2015
Second Stage					
For elaboration and expansion of the water resource, water quality monitoring and testing network:					
2.12	Expand the surface water monitoring network by 60 stations, establish a lake study station in the steppe regions in Bayanhongor and Dornod aimags;	To expandsurface water monitoring and testing network by establishing 60 guard stations depending on the number, need and representative capacity. To establish and operate steppe region lake study stations in Bayankhongor and Dornod aimags. To utilize the information collected from the lake study stations for preventing natural disasters, decreasing climate change impacts, reducing desertification and managing specific river basins or national integrated water resource management.	NAMHEM	MNET	2016-2020
2.13	Equip not less than 200 wells with measuring instruments that meet criteria requirements for the monitoring network; implemented by private investment, foreign or local projects and programmes for scientific and research purposes; train personnel and connect these instruments to the national network;	To choose not less than 200 boreholes (among the bores drilled throughprivate investment, foreign and local projects and programmes for scientific and research purpose), those qualified for monitoring and testing network requirements and equip with measuring tools and provide professional personnel and embrace in the national integrated network.	Water Agency	MNET NAMHEM	2016-2020
2.14	Upgrade the surface and underground water control-testing network for constant operation to supply continuous information and management capabilities based on modern technology;	To upgrade the surface and underground water monitoring and testing network with continuous operation, information and advanced management system. To develop nationwide integrated water resource management and provide accurate information to populationand institutions.	MNET	NAMHEM Water Agency	2016-2021
2.15	Drill 150 monitoring wells with depths up to 40 metres throughout the country, based on regional hydrogeological characteristics, and add this information	Based on the regional hydro-geological characteristics, drill and equip 150 boreholes with depths up to 40m and link to national water	MNET	Water Agency NAMHEM	2016-2021

	to the national water information database.	database. To complete the underground water resource and quality monitoring network.			
	3. The following measures shall be taken towards creating conditions for the accumulation of water resources, provision of potable water, which should meet the requirements for health standards by improving water supply for industry and agriculture in order to provide sustainable environmental development:				
	First Stage				
	For water resource accumulation and its use:				
3.1	Develop designs for the construction and operation of a reservoir and a hydropower station at the Hovd river and its tributaries and at Northern Arctic Ocean Basin downstream of glaciers in order to create a water resource with 70,000-80,000 million cubic meter impoundment in the high mountain region;	To identify potential areas to establish water reservoir in the skirt of Altai mountain glaciers, and conduct necessary explorations and develop design drawings. To identify potential areas to establish flood water reservoirs around the Arctic ocean watershed rivers, conduct exploration and develop design drawings. To select one of the areas for launchinga pilot project.	MNET	MFALI MRTCUD MMRE Aimag and Capital city governors Water Agency	2011-2015
3.2	Perform studies on the possibility for regulating flow and constructing reservoirs at the Orhon, Selenge, Herlen, Tuul, Hovd, Bulgan, Halh, Onon, Eg, Harhiraa, Turgen, Shished, Eroo, Haraa, Tamir, and Bogd Rivers, and transporting water for various uses; perform designs at feasible locations and implement construction work;	To conduct feasibility study for Tuul-Selbe and Orkhon-Govi projects. To establish safe drinking water access and green walls in the regions with water resource shortages and implement anti desertification actions. To provide favorable conditions to develop agriculture, tourism and production industries.	MNET Water Agency	MMRE MFALI	2011-2015

For intensifying surveys and investigations for underground water:					
3.3	Intensify surveys and investigations for water supply sources for city and settlement areas, and perform source surveys and investigations for soum center water supplies; and establish sources and resource capacities;	To conduct water source exploration for improved water supply in Dalanzadgad city of Umnugovi aimag and Saintsagaan soum of Dundgovi aimag. Starting from 2011, water explorations will be conducted for additional water supply sources in Sainshand; and soum center water supply sources in Erdenebulgan soum of Arkhangai and Shivee-Ovoo soum of Govisumber aimags. From 2013, exploration for drinking water supply sources will continue in urban areas incompliance with proposals, development plans and requests from related institutes and governors.	MNET	Water Agency All level governors LACGCA	2011-2015
3.4	Perform surveys and investigations for underground water for economic development regions where major projects are planned, and establish sources and resource capacities;	To conduct hydrogeological search, exploration and extensive studies from gobi region where mining and centralization is gradually increasing and later in inner Altai gobi area and Great Lake Hollow.	MNET	MMRE Water Agency	2013-2015
3.5	Perform hydrogeological and balneology studies at hot spring locations not previously investigated;	To prepare research plan for unstudied mineral springs with high medical benefits and conduct hydrolgeological and balneology studies according to the plan; first in Yestii and Onon hot springs and later in Yeruu spring of Selenge aimag, Marz, Zart and Tsetsuukhiin springs of Zavkhan aimag.	MNET Water Agency	Ministry of Health All level governors	2013-2015
3.6	Intensify hydrogeological and hydrobiology, balneology studies for Mongolian mineral water deposits and create a catalogue and information database;	In the future, to plan proper use of the hydro-geological and balneology studies and provide regulation conditions for 3-5 mineral springs with high medical benefits.	MNET Water Agency	Ministry of Health All level governors	2013-2015
3.7	Perform studies on geothermal potential and study the possibilty to utilize deep hot water energy;	To intensify geothermal studies in geologically, hydro-geologically and technically potential areas near human settlement regions. To identify clean thermo energy such as geothermal energy and hot water energy, and start adopting technologies to utilize it.	Water Agency	MNET	2014-2015
For increasing the amount of irrigated agriculture:					

3.8	Construct a water reservoirs with volume of not less than 25.0 million cubic metres annually and irrigate annually not less than 10 000 hectares;	To introduce water saving advanced technology for irrigation system and install in following areas: -Two shifts of irrigation system in Erkhet, Mangirt, Tukhmiin spring, Tiiregiin valley and Orkhon and Selenge basin areas of Selenge aimag, Mendiin uzuur and Buuruljuut of Tuv aimag, Baruunturuun of Uvs aimag, Kharkhorin of Uvurkhangai aimag and Buyant of Khovd aimag. -Khurkhuruu of Govi-Altai aimag, Khundii of Ulaanbaatar, Shiveegovi of Govisumber aimag, Bayanmukhniin steppe of Khentii aimag, Dulaanii slope and Mekheerchiin bight of Undurkhaan, Ingetiin valley, Khongor ovoo, Namnagiin slope of Bulgan aimag, Khoid gol, Khar Uzuur, Ulziit, Khar Uzuur of Zavkhan aimag, Buurgiin ekh of Uvs aimag and Buurulj and Khundlun of Khuvsgul aimag. These irrigation systems will be used to irrigate not less than 10000 hectare areas a year. To develop construction design drawings for port in Zuunsalaa of Ulaanbaatar and Tsagaantolgoi of Selenge aimag, and develop design drawings for irrigation systems in Erdenburen of Khovd aimag and Melkhiit lake of Khentii aimag. To conduct research on irrigated hay and crop fields in Tuv and Selenge aimags. In 2011, total of 4740 hectare areas will be provided with irrigation system. To establish 1.7 million cubic meters of water reservoirs with capacity to irrigate 1300 hectares in the future.	MFALI	MNET Water Agency	2011-2015
3.9	Take measures to renovate existing irrigation systems, rehabilitate, and construct new headworks and irrigate 6,500 hectares area and implement systems to use water efficently and with savings;	To renovate the previously used irrigation systems and to install water savingsand cost-effective systems; and establish new head constructions in following areas: Delger-Uyanga in Jargalant soum of Tuv aimag, Tsagaantolgoi in Sant soum of Selenge aimag, Buurt in Khongor soum of Darkhan-Uul aimag, Dargiin gol and Kharkhorin of Uvurkhangai aimag, Shiluustein and Khureenii denj in Zavkhan aimag, Kherlenbayan-Ulaan in Khentii aimag, Kharkhiraa and Baruunturuun in Uvs aimag, Bayangol, Sugnugur, Arangat, Jargalant, Bukhugiin gol, Shariin am and Togosiin Khooloi in Tuv aimag, Zagdliin gol and Zuunkharaa in Selenge aimag and Rashaant in Khuvsgul aimag.	MFALI	MNET Water Agency	2011-2012

3.10	Increase the number of ponds and reservoirs to accumulate snow and rain water for irrigated agriculture;	To invest in restoration of municipally owned water accumulating hatch constructions in Ulaantolgoi of Uvs aimag and Shargiin-14 of Govi-Altai aimag. Based on the irrigated hay and crop fields and water source studies, establish over 40 reservoirs for accumulating surface waterflow and precipitation water, and utilize reservoirs to irrigate grassland, hay fields, crop lands, gardens and parks. Within the framework, establish surface and underground water reservoirs in Zuungovi of Uvs aimag, Ulziit in Khurmen soum, Shar Khooloi in Bayandalai soum and Dalan in Dalanzadgad city of Umnugovi aimag and Bumbatiin am in Bumbugur soum and Shiree Barlag in Jargalant soum of Bayankhongor aimag, rehabilitate ponds in Dundbulag in Khashaat soum of Arkhangai aimag, Daichin KHooloi in Biger soum and Khuurai nuur in Tsogt soum of Govi-Altai aimag and Ulaankhutul in Ulaanbadrakh soum of Dornogovi aimag; establish new ponds in Bogd and Baruunbayan-Ulaan soums of Uvurkhangai aimag. To conduct a research on not less than 90 ponds based on the previous exploration studies conducted by Water Agency and requests from provincial government, and establish new ponds in potential areas.	MNET	MFALI All level governors Water Agency	2011-2015
		For improvement of water supply in city and settlement areas:			
3.11	Construct a new water source facilities for Ulaanbaatar City, Biocombinat and Niseh Districts, Yarmag Microregion; and Erdenet, Darhan, Zuunmod, Suhbaatar, Arvaiheer cities, Shariin gol in Darhan Uul Aimag, Harhorin in Ovorhangai Aimag, Zamiin Uud Soum in Dornogobi Aimag; install technological equipment, renovate and expand existing facilities; implement management contol networks and water metering;	To construct new water source facility in Ulaanbaatar; renovate and expand water source facilities, water reservoirs and pump station facilities in Biocombinat, Nisekh district and Yarmag areas. To construct and launch water supply source facility in Ulaanbaatar city and Gachuurt tosgon. To renovate water supply source facilities and technological equipments in Darkhan, Shariin gol, Zuunmod and Sukhbaatar city. To construct new water supply source facility in Kharkhorin soum of Uvurkhangai aimag and expand the existing system. To renovate water supply source facility and water supply pipelines in Zamiin-Uud soum of Dornogovi aimag. To construct 20m water supply pipelines at Ongiin gol-Arvaikheer water source facility in Arvaikheer city of Uvurkhangai aimag and renovate the transmission pump station and water reservoir facilities. To construct and launch a new water supply source	MRTCUD	Aimag and Capital city governors LACGCA Water Agency	2011-2015

		facility in Erdenet city of Orkhon aimag. To implement management control and water metering networks in central water supply sources and pump station facilities of Ulaanbaatar city, Darkhan-Uul and Orkhon aimags. To construct and expand water supply pipelines in Mandalgovi and Altai cities. To conduct feasibility study on water supply and sewage system facilities for future settlementsin Oyutolgoi and Tavantolgoi mineries and initiate constructions. To install water meters in households, institutions and other water users in the capital city, aimag centers and large settlements.			
3.12	Perform expansion and renovation of apartment building engineering pipelines in Ulaanbaatar City and aimag centers;	To construct water supply pipelines for Uliastai-Khujirbulan, Tsaiz, Gandan, Naran, Unur and Tolgoit districts in Ulaanbaatar. To expand and renovate the water supply pipelines and water reservoir in Yarmag and Nisekh district areas. To expand and renovate the water supply pipelines and facilities in Ulaanbaatar city. To renovate the heating, hot water and sewage system equipments of Ulaanbaatat city. To expand and renovate water supply pipelines in Erdenet, Bayankhongor, Sukhbaatar, Ulaangom, Ulgii, Choir, Choibalsan and Undurkhaan cities. Within the framework of “New Creation” medium term programme and “100,000Housing” project, connect pipeline systems to the new residential buildings and ger districts in free-economic regions and aimag centers.	MRTCUD	Aimag and Capitail city governors LACGCA Water Agency	2011-2015
3.13	Increase water service density in Ulaanbaatar City and aimag centers by constructing kiosks and connect them to a centralized system;	To construct new water distribution kiosks in Sukhbaatar, Chingeltei and Songinokhairkhan districts, Ulaanbaatar.	MRTCUD	ГХБГЗЗГ Аймаг, нийслэлийн Засаг дарга нар	2011-2015
3.14	Intensify work for connecting hospitals, kindergardens, schools, and public service facilities in soums and settlement areas to centralized or community water supply and sewerage systems; annually construct and commission or rehabilitate water supply and	To improve water supply and sanitation facilities for hospitals of 8 soums in Dundgovi aimag, 7 in Govi-Altai aimag, 4 in Sukhbaatar aimag, 5 in Tuv aimag, 1 in Uvs aimag, 1 in Bayankhongor aimag, 1 in Bulgan aimag and 1 in Khovd aimag. To install new water supply and sewerage systems in publich buildings including schools, kindergartens and hospitals of 2 to 3 soums in	MRTCUD MNET	MECS Ministry of Health All level governors Water Agency	2011-2015

	sewerage systems for schools, kindergardens, and hospitals in 2-3 soums;	each aimag. To install disinfecting equipments in the soums, where drinking water sources not meeting hygienic and other standard requirements for water quality in the areas such as Uliastai, Shiluustei, Santmargats, Yaruu and Bayankhairkhan soums in Zavkhan aimag, Renchinlkhumbe, Arbulag and Tsagaan-Uul soums in Khuvsgul aimag, Sant, Bayan-Undur, Tugrug and Bogd soums in Uvurkhangai aimag, Yesunbulag soum in Govi-Altai aimag and Zamiin-Uud and Erdene soums in Dornogovi aimag and continue to take measures to improve the quality of the above mentioned water sources.		LACGCA	
3.15	Establish new water sources for border guard units and take measures for improving water quality;	To take measures to improve water supply and water quality at border petrol stations and border posts in Urgustei and Erdene soums of Govi-Altai aimag, Khatansuudal in Shinejinst soum of Bayankhongor aimag, Ingensevstei and Khuvd in Gurvan Tes soum, Tsailan in Noyon soum, Jaalshand in Nomgon soum, Buduunmod in Bayan-Ovoo soum and Gashuunsukhait in Khanbogd soum of Umnugovi aimag, Khetsuu-Ulaan and Uushig in Khatanbulag soum, Uzuurus in Erden soum and Khukhbulag in Urgun soum of Dornogovi aimag, Tsagaan-Ovoo and Bayantukhum in Bayandelger soum, Lamt in Dariganga soum and Kholboo zalaa in Erdenetsagaan soum of Sukhbaatar aimag, Avdrant in Sumber soum and Kharkhonit in Khalkhgol soum of Dornod aimag, and establish new borewells and water distribution points.	MNET Water Agency	MJIA	2011-2015
3.16	Improve water supply for military units and sections, and implement measures for improving water quality based on sector policy, planning and operating requirements;	To renovate and expand water supply and sanitation facilities for Military units and sections integrated with sector planning.	MNET Water Agency	Ministry of Defence	2011-2015
		For improving water supply for agriculture and industry:			
3.17	Improve water supply for people and animal husbandry in the countryside, take measures for watering pasture land and develop new or rehabilititate 800-1000 wells annually in coordination with policy and	To improve the underground water search and water point search in the grasslands. To establish and equip 2000 bore wells for water supply of rural population and animal husbandry based on the grazing capacity, demand and water resource.	MFALI Water Agency	MNET All level governors	2011-2015

	planning by local administrative organizations, pasture land users, and farms;				
3.18	Perform surveys and investigations of water sources for mining industry, light industry, food industry, the construction material industry, such as the planned Heating Power Station in Shivee-Ovoo, Tavan Tolgoi, and proposed coal processing industry in Choir and Nyalga, cooperating with the entities who are initiating the projects;	To develop and approve technical specification of water source exploration for planned construction of thermal power plants in Shivee-Ovoo, Tavantolgoi, Murun and Ulaanbaatar cities and coal processing factories in Choir and Nyalga. To conduct progress and performance monitoring constantly. To select water saving technologies such as ash disposing dry system and dust substance decreasing system and to take joint implementation measures.	MNET Water Agency		2011-2015

		For using hydro-energy:			
3.19	Take measures to improve planning for energy resources in Mongolian rivers, development projections of renewable energy, demands and requirements for energy, and sector policy and planning based on lessons, experience and difficulties during operation of the Taishir and Dorgon hydropower stations;	To improve the programme and planning of hydropower resource and rechargeable energy usage.	MMRE	MNET Water Agency	2011-2012
3.20	Review the feasibility study for 58MW Chargait hydropower station, 65MW Erdeneburen hydropower station and if it is possible, implement their connection with other water facilities;	To review the feasibility studies on Chargait, Erdeneburen and other hydropower stations, coordinate these feasibility studies with water construction planning and initiatethe feasible constructions.	MMRE	MNET MFALI Water Agency	2011-2012
3.21	Redevelop norms for major water users such as the mining industry, heavy industry, and heating power stations, and all other users, with promotion of the use of modern technologies, and require them to be implemented and regulated.	To improve sector norms and standards on water consumption with the idea of encouraging expedite adaptation of modern advanced technology. To enforce and monitor the improved amended norms and standards from 2011.	NCSM Water Agency	MNET MMRE	2011-2012
		Second stage			
		For developing water resource accumulation and use:			
3.22	Develop designs for construction and operation of a reservoir and hydropower station on Hovd river, and its tributaries, and at Northern Arctic Ocean Basin downstream of glaciers, in order to form a water resource with 70,000-80,000 million cubic meter impoundment in the high mountain region;	Depending on the outcomes of previously implemented actions, continue establishing and operating water reservoirs with 70 – 80 square km impoundment in the high mountain region rivers such as Hovd river and its tributaries, Orkhon and Selenge river basins and glaciers.	MNET	MFALI MRTCUD MMRE Water Agency	2016-2020
		For intensifying surveys and investigations for underground water:			
3.23	Water source surveys and investigations for regions with settled population, cities, and settlement areas, based on development planning by national and local governments, demands; order and continue works for establishing	Continue to conduct hydro-geological survey for underground water in soum and settlements with water shortages or with increasing demand due to the economic and social developments and determine the feasible water resource.	MNET Water Agency	MRTCUD LACGCA	2016-2021

	feasible underground water resources;				
3.24	Continue performing hydrogeological survey investigations at spring water deposits;	Continue to conduct hydro-geological and hydro-biological surveys on mineral springs and improve the integrated catalogy and database of Mongolian mineral spring.	MNET Water Agency	All level governors	2016-2021
3.25	Begin a study on the use of geothermal energy from deep hot water sources;	To identify potentail areas to utilize geothermal base study and underground hot water energy.	MNET Water Agency	MMRE	2016-2021
3.26	Build ponds at not less than 130 places in Mongolia based on surveys and investigations, and local needs and requests;	To establish ponds in not less than 130 areas based on the study results, feasibilty and local needs and requests.	MNET Water Agency	All level governors	2016-2021
3.27	Perform 1:100000 scale hydrogeologic survey and mapping at suitable locations for underground water accumulation in the gobi regions;	Perform 1:100000 scale hydrogeological survey and mapping in Ulaanbadrakh, Khuvsgul, Zuunbayan, Khatanbulag, Erdene and Zaiin-Uud soums of Dornogovi aimag, Gurvansaikhan, Undurshil, Ulziit, Govi-Ugtaal, Tsagaandelger and Bayanjargalan soums of Dundgovi aimag.	MNET Water Agency	MMRE Mineral Resources Authority	2016-2021
		For improving urban water supply:			
3.28	Construct new water sources for Ulaanbaatar City and aimag centres; and expansion and replacement of water supply pipelines; adopt computer management and control networks; and intensify water metering;	To expand and renovate the water supply source facilities in Choibalsan city of Dornod aimag, Undurkhaan city of Khentii aimag and Khovd city of Khovd aimag. To restore water supply pipelines in Dalanzadgad city of Umnugovi aimag. To progressively adapt computer control and management networks in the water source facilities and pump stations in aimag centers.	MRTCUD	Aimag and Capital city governors LACGCA Water Agency	2016-2021
3.29	Construct water supply pipelines at Altai, Choir, Dalandzadgad, Ulaangom, Hovd, Hotol; and continue expansion and replacement of existing pipelines;	To expand and renovate water supply pipelines and facilities in central and industrial districts and Meat processing plant in Ulaanbaatar. To implement Phase II of constructing water supply pipeline and facility in Tolgoit and Yarmag subdistricts of Ulaanbaatar. To establish water distribution kiosks in ger areas of Sukhbaatar and Songinokhairkhan districtsof Ulaanbaatar.	MRTCUD	Aimag and Capital city governors LACGCA Water Agency	2016-2021

		To expand and renovate water supply source facility in Choir city of Govisumber aimag. To construct water supply pipelines in ger areas of Dalanzadgad city of Umnugovi aimag, Ulaangom city of Uvs aimag, Khovd city of Khovd aimag and Khutul village of Selenge aimag.			
3.30	Perform feasibility studies for water supply and sewerage systems for the town or village to be constructed as part of the Oyu Tolgoi and Tavan Tolgoi deposit developments; and accomplish construction of the first phase facilities;	To continue expanding water supply facilities and sewerage systems in towns and settlements to be constructed based on the mineries.	MRTCUD	Aimag and Capital city governors LACGCA Water Agency	2016-2021
3.31	Perform feasibility studies for water supply and sewerage systems for group settlements, and implement in stages;	Within the framework of "New Creation" medium-term programme, progressively improve the access to dependable water supply source and construct sewerage pipelines in settlement clusters and inter-soum centers.	MRTCUD	LACGCA Water Agency	2016-2021
		For utilizing hydro energy:			
3.32	Perform feasibility studies for construction of a 300MW hydro power station at Selenge river, a 200MW hydro power station at the Egiin river, a 100MW hydropower station at the Orhon river, and study and determine the possibility of starting construction.	To conduct feasibility studies for construction of a 300MW hydro power station at Selenge river, a 200MW hydro power station at the Egiin river and a 100MW hydropower station at the Orhon river; and incorporate with development plan for hydro constructions in Orkhon-Selenge river basins and initiate feasible constructions.	MMRE	MNET MFALI Water Agency	2016-2021
		4. The following measures shall be taken towards proper use of water resources and water conservation; adopt and implement advanced technology for recycling wastewater treatment plants, prevention of flood disaster; and provide support to the activities and initiatives within the legislative framework:			
		First phase			
		For improving wastewater treatment plants and water recycling:			
4.1	Make technical and technological renovation of wastewater treatment plants in aimag centres, larger cities, settlement areas; and improve operation to meet standards;	To complete technical and technological renovations for wastewater treatment plants in Khovd and Arvaikheer cities, Zamiin-Uud soum, various aimag centers, big cities and settlements and improve the operations according to standards.	MRTCUD	MNET Water Agency	2011-2015
4.2	Promotional activities addressing water protection, increasing water supplies, treating and reusing wastewater;	To improve the legal context in order to encourage water protection, water accumulation and wastewater recycling.	MNET MRTCUD	Water Agency NAMHEM LACGCA	2011-2012
4.3	Adopt and implement small-scale	To adopt and implement echo latrines and small-scale			

	wastewater collection and treatment facilities with advanced technology at the tourist camps and public service facilities near Hovsgol, Ogii, Uvs, Hyargas, and Har Us Lakes, and large rivers;	wastewater collection and treatment facilities with advanced technology at the single-family houses, small towns and tourist camps without central water supply and sewage connections specially, areas near the surface water sources such as Hovsgol, Ogii, Uvs, Hyargas, and Har Us Lakes, and large rivers.	MNET	MRTCUD LACGCA Water Agency	2011-2015
4.4	Support activities and initiatives for wastewater treatment and reuse within the legislative framework;	By consession, implement the project for wastewater refining at the central wastewater treatment facility in Ulaanbaatar and recycling water from the industries. Furthermore, empower the legislations to encourage implementation of wastewater refining and recycling activities, initiatives and projects in aimag centers and other urban areas.	MNET MRTCUD	Aimag and Capital city governors State Property Committee LACGCA Water Agency	2011-2015
4.5	Construct new wastewater collectors in some microregions of Ulaanbaatar City; construct collector and branch pipelines in settlement centres, construct and expand water supply and sewerage pipelines in the aimag centres;	To establish wastewater treatment plantin Bagakhangai district. To construct new wastewater treatment facility in Altanbulag soum of Selenge aimag. To renovate wastewater treatment plant and sewerage pipelines in Arvaikheer city of Uvurkhangai aimag. To expand the wastewater treatment facility in Kharkhorin soum of Uvurkhangai aimag. To construct wastewater treatment plant and sewerage pipelines in Zamiin-Uud soum of Dornogovi aimag. To renovate the equipments of wastewater treatment plants and increase the capacity in Erdenet city of Orkhon aimag, Zuunmod city of Tuv aimag, Altai city of Govi-Altai aimag, Bayankhongor city of Bayankhongor aimag and Shariin gol soum of Darkhan-Uul aimag. To expand and renovate wastewater treatment facilities in Nisekh, Nairamdal subdistricts and Biocombinat area of Ulaanbaatar city. To restore manufactory wastewater treatment facility in Uliastai city of Zavkhan aimag.	MRTCUD	LACGCA Water Agency Aimag and Capital city governors	2011-2015
4.6	Perform technological renovation of the Tolgoit Wastewater Treatment Plant in Ulaanbaatar City; reuse wasterwater; treat wastewater to	After determining the alternatives of future development plan for central wastewater treatment plant in Ulaanbaatar city, develop design drawings on the optimal version.	MRTCUD LACGCA	Aimag and Capital city governors	2011-2015

	meet standard requirements;	To conduct technological renovation of central wastewater treatment plant in Ulaanbaatar city. To implement project for recycling the refined water from central wastewater treatmentplant.		Water Agency	
4.7	Renovate wastewater treatment equipment in the districts of Ulaanbaatar City, aimag centres, settlement areas; and increase their capacity;	To construct new wastewater collectors in Tolgoit, Yarmag, Tuul, Uliastai, Bayangol and Selbe subdistrict areas of Ulaanbaatar city. To construct new wastewater collectors and sectional pipelines in Ulaanbaatar city; construct sectional pipelines in Bayanzurkh district. To expand central wastewater collectors and pump stations in Bayan-Ulgii, Bayankhongor and Govi-Altai aimag centers. Continue constructing sewerage pipelines in Bayangoliin am of Ulaanbaatar city. To replace double sewerage pipeline in Shariin gol soum of Darkhan-Uul aimag. To recast water supply and sewerage pipelines in apartments of Umnugovi, Sukhbaatar, Uvs and Khuvsgul aimag centers.	MRTCUD LACGCA	MNET Aimag and Capital city governors Water Agency	2011-2015
4.8	Renovate water supply and sewage service trucks and equipment in cities and settlement areas;	To renew the special-purpose trucks and equipments in Arkhangai, Uvurkhangai, Govi-Altai, Govisumber, Bayankhongor, Darkhan-Uul, Dornod, Khuvsgul, Selenge, Dornogovi and Zavkhan aimags and Zamiin-Uud soum of Dornogovi aimag.	MRTCUD	Aimag and Capital city governors LACGCA	2011-2015
4.9	Establish fixed or portable laboratories for control of potable water and sewage at aimag centres and enhance their operation;	To implement Phase I of establishing accredited stationary or portable laboratories for drinking water and wastewater; and improving monitoring systems in Bayan-Ulgii, Zavkhan, Khovd, Uvs, Govi-Altai, Khuvsgul, Arkhangai, Bayankhongor, Bulgan, Orkhon and Uvurkhngai aimags.	MRTCUD MNET	Aimag and Capital city governors LACGCA Water Agency	2011-2015
4.10	Introduce new technology to treat wastewater by biological methods, develop biological processes suitable for Mongolian conditions.	To develop new biological treatment technology for household and industrial wastewater and experiment aboriginal or acclimatized microorganisms for decomposing organic and toxic substances.	MRTCUD LACGCA	MNET Water Agency	2013-2015
		For proper use of water resources and conservation:			
4.11	Adapt the roof designs for large buildings and facilities to collect	In order to accumulate rainwater for green facilities, make modifications on construction design drawings,	MRTCUD	MNET	2011-2015

	precipitation; incorporate collection of precipitation into designs and include in norms and regulations; and establish policies for domestic use or watering green spaces;	norms and regulations of large buildings and constructions based on the the appropriate technological solutions; and enhance enforcement. To enforce policy implementation for echo-efficient infrastructure and establish green city, schools and hospitals nationwide.	MoH	WaterAgencyГ LACGCA	
4.12	Study engineering solutions for separate potable water and domestic use water systems in new apartment buildings and facilities with municipal water supply supply; and treat domestic water (greywater) to use for sewerage systems and watering green spaces; and incorporate these solutions into design; limit potable water use for industry;	To separate the drinking water supply pipelines from households and factory water supply pipelines and recycle the wastewater primarly in Ulaanbaatar city and hereafter, Darkhan-Uul, Orkhon and other aimag, soum centers and settlements.	MRTCUD LACGCA	MNET Water Agency	2011-2015
		For flood protection:			
4.13	Review flood protection planning, operation and expansion for Ulaanbaatar City, aimag centres, other large cities and settlement areas; take measures to accomplish necessary upgrades.	To investigate the planning, operation and serviceableness of flood protection in Ulaanbaatar city, aimag centers and large settlements; make necessary modifications and implement. To start taking the above measures first in Ulaanbaatar, Erdenet and Darkhan cities and other aimag centers in needs. From 2016, establish bulwarks in soums and settlements depending on the characteristics of the land.	MRTCUD Aimag and Capital city governors	NEMA Water Agency LACGCA	2011-2015
		Second stage			
		For improving teatment level of sewage and its reuse:			
4.14	Make technological renovations and increase the capacity of the wastewater treatment plants in Moron City, Hovsgol Aimag, Darhan City, and the Baganuur District of Ulaanbaatar City;	To implement Phase II of wastewater treatment facility in Yarmag subdistrict of Ulaanbaatar city. To renew the technics and equipments, and increase the capacity of wastewater treatment plants in Murun city of Khuvsgul aimag and Darkhan city.	MRTCUD LACGCA	Water Agency Aimag and Capital city governors	2016-2018
4.15	Replace sewage collectors as needed in some aimag centres, cities, and settlement areas; Expand the wastewater treatment plant in the Baganuur District of Ulaanbaatar City;	To restore the wastewater collectors incorporated with urban development in Ulaangom city of Uvs aimag, Shariin gol soum of Darkhan-Uul aimag, Sainshand city of Dornogovi aimag, Choibalsan city of Dornod aimag, Khutul village of Selenge aimag and Undurkhaan city of Khentii aimag. To expand and renovate wastewater pump station in Baganuur district of Ulaanbaatar city.	MRTCUD LACGCA	Aimag and Capital city governors Water Agency	2016-2021

4.16	Repair water supply and sewage service trucks and equipment in cities and settlement areas;	To progressively renew the special-purpose trucks and equipments for water supply and sewerage services in Tuv, Dundgovi, Dornod, Sukhbaatar and Khentii aimags.	MRTCUD LACGCA	Aimag and Capital city governors	2016-2021
4.17	Establish control systems for water supply and sewage systems in all aimag centres, cities, and enhance their operation;	To progressively establish accredited stationary or portable laboratories for drinking water and wastewater and improve monitoring systems in Govisumber, Darkhan-Uul, Dornogovi, Dundgovi, Umnugovi, Selenge, Tuv, Khentii, Dornod and Sukhbaatar aimags.	MRTCUD LACGCA	Aimag and Capital city governors Water Agency	2016-2021
4.18	Adopt advanced and environmentally friendly technology for toilets (biological and dry toilets) and reuse of waste (grey) water by households, entities and tourist camps not connected to centralized water supply or sewage systems, and reduce the amount of wastewater generated from their daily operation.	From 2016, adopt environmentally friendly sanitation facility (echo latrine) and grey water refining and recycling technologies for households and institutions that are not connected to central water supply and sewerage systems in order to reduce the amount of wastewater.	MRTCUD MNET	All level governors Water Agency LACGCA	2016-2021
5. The following measures shall be taken for advancing water resource use and management, develop a legislative environment, and institutiional development to coordinate and develop water usage capacity building:					
First stage					
For advancing water resource use and management:					
5.1	Establish river basin council for rivers that receive impact from business operations or have other major loads. Develop comprehensive planning for proper use and planning for water other natural resources;	To develop and implement the integrated water resource management plan for Tuul, Kherlen, Orkhon, Selenge and Zavkhan river basins.	MNET Water Agency	Aimag and Capital city governors	2011-2012
5.2	Develop integrated water resource management planning in Mongolia and establish possible limits of water to be appropriated from the rivers of high water usage and demands; develop and secure approval for river basin management plans and provide for their implementation;	To develop and implement management programme and plan for proper use of water resource integrated with proper use and conservation of other natural recources for rivers from the front of Khangai mountain range, Khovd, Buyant, Kherlen, Kharaa, Yeruu rivers and southern gobi water basin areas.	MNET Water Agency	Aimag and Capital city governors	2011-2013
5.3	Develop common methodologies for water management in Mongolia and develop common methodologies for developing river basin management and implement them;	To develop and enforce a methodology for integrated river basin management based on international experiences.	MNET	Water Agency	2011-2012
For institutional development and capacity building:					
5.4	Promote registration and education of national water sector personnel	In order to improve the collaboration of water related institutions, organize intersectoral meetings and	Water Agency	MNET	2011-2015

	and implement modern human resource management;	discussions in every 2 year.			
5.5	Develop foreign relations in the water sector, improve benefits of projects on water resources and their use and protection financed by international organizations and foreign countries, and correlate them with government policy and programmes; focus on solutions for prevention of environmental pollution based on mutually beneficial cooperation; participate in a wide range regional and international meetings, and cooperate in expressing the position of our country;	In order to improve the coherence and efficiency of water related projects financed by international donors and domestic research projects, incorporate the projects activities with Government policies and activities and increase the monitoring.	Ministry of Finance MNET	National Water Committee Water Agency	2011 оноос
5.6	Establish state owned corporation, with branches at aimag centres and rural locations for water resource management and to be responsible for operation and maintenance services for state owned facilities;	To establish state owned corporation in charge of water resource management and maintainance and operation of state owned water facilities.	MNET State Property Committee	MoF Water Agency	2011-2012

For improving the legal environment:					
5.7	Study the coverage of all existing water-related laws in order to refine the legal environment for advanced coordination of multisided relationships, such as integrated river basin management, water sector management and institutional structures, coordination of activities by organizations and the setting and payment of user fees.	To improve the legal environment by making alterations to the Law on Water in order to improve institutional structure of water sector, apply fees on water and spring, apply compensation on water resource contaminating activities and enhance participation of government agencies, non-government organizations and private parties.	MNET Water Agency		2011-2012
Second stage					
Refine water resource use and management:					
5.8	Integrated river basin management councils shall be established for the medium-sized rivers with high loading due to business activity. Continue implementation of comprehensive management plans in conjunction with proper use and protection of natural and water resources;	To regulate the use of water resource incorporated with use of other natural resources; To implement and stabilize the integrated river basin management.	MNET Water Agency	All level governors	2016-2020
5.9	Establish complex structures needed to implement integrated river basin management and develop their operation;	To develop integrated water resource management plan for 29 river basins based on the characteristics and stabilize the implementation mechanism.	MNET Water Agency	All level governors	2016-2020
5.10	Develop the framework for integrated water resource management and form water management structure suitable for dry regions that experience drought	To evaluate efficiency and stability of water management based on the integrated river basin water management and incorporate with the recommendations for improvement.	MNET Water Agency	All level governors	2016-2020

Following measures shall be taken to publicize information on water resources and their proper use, using advanced technology enriched with customs and traditions, to young people and citizens:					
First stage					
6.1	Establish a tradition to organize public programs twice per year at municipalities, aimag centres, soums, settlement areas, and herder groups to encourage protection of their water resources, follow correct hygiene and sanitation practices, and prevent negative impacts;	In order to clean the rivers, lakes, ponds, springs and water sources from household and industrial wastes, restore the natural balance, to utilize the land and protect the water sources, facilitate all residents, private entities and institutions twice a year in May and October (Saturdays of the second weeks) within 20-50 km radius in large cities and aimag centers, 10km radius in soum settlement and 5km radius in Bag and camp of gers starting from 2011.	MNET MoH Water Agency	MFALI All level governors	2011-2015
6.2	Introduce world-class, advanced technologies for the proper and beneficial use of water, reducing pollution, and treatment by adapting them to Mongolian conditions;	In order to set correct understanding, attitude and practice towards water and sanitation, organize water and sanitation advocacy campaign, trainings and information disseminattion regularly.	Water Agency	MoH MRTCUD MNET All level governors	2011-2015
6.3	Develop curricula for junior, medium and high schools, and institutes that will give effective ecological education;	To enhance and intensify the prevention measures of water relates diseases. To intensify the adaptation of advanced technologies for proper and effective use of water, reduction of water contamination and water refining.	MECS Water Agency	MoH MNET Academy of Science	2011-2015
6.4	Improve curricula for water sector professionals in terms of content and quality; identify classifications for new water professions, develop and implement a masters degree curriculum for integrated water management for institutes and universities; intensify training for skilled professional workers and technical staff;	To improve curriculum for water sector professional trainings in terms of content and quality and improve the environmental study; identify classifications and indexes for new water related majors. To develop curriculum for Master's degree programme in integrated water resource management and start the programme. To improve the content of higher education in water sector and to reinstate and intensify the trainings for technical staff and professional workers.	MECS	MNET MRTCUD Water Agency	2011-2015

6.5	Publicize customs and traditions of Mongolian people to respect, protect and properly use water, enriched with advanced technology, for young people and citizens; and cooperate regularly with water organizations and educational, cultural, mass media organizations;	To enrich the Mongolian traditional customs and moral principles on water with modern science, advanced methods and technologies; regularly publicize these combination to the young generation and all citizens through all level of water related institutions jointly with educational, cultural and art institutions and media.	Water Agency Mongolian National Public Radio and Television Media	MECS MNET Culture and Art Committee	2011-2015
6.6	Participate actively in programmes organized for World Water Day and by international or regional organizations; organize measures in our country and publicize the results to the public;	To actively participate World Water Day and other water related international and regional events. To organize those events in Mongolia and report the results to the public regularly.	MNET Water Agency	All level governors	2011-2015
6.7	Organize traditional water ceremonies of offering, integrating these with modern civilization and creating a public tradition;	To study water related Mongolian traditions and religious practices and apply the combination in practice of water source protection and proper use.	All level governors	MNET Water Agency	2011-2015
6.8	Bring water sector scientific and study work to a new level; study and implement advanced technology on the proper use of water, water conservation, water metering, water treatment, and the processing of water nano structure to improve water supplies, usage, operating level, and benefits; make the priority orientation to efficiently learn and implement the results of these investigations, including knowledge of water physics, chemistry, biology, mineralogy, and characteristic of information transforming, storing, replacing material and forming into new material;	To prioritize and exercize the prompt evaluation and adaptation of study findings and achievements on physical, chemical, biological and mineral characterisctics of water, information dissemination, data storing, substitute materials and characteristics to create new materials. To include the primary study topics in state proposals incorporated with priority development of Mongolian Science and Technology and list of core technologies; facilitate the financing of studies. To improve the academic research and studies of water sector into new level and enhance the sector innovations.	MNET MECS Academy of Science	MRTCUD MMRE Water Agency	2011-2015

6.9	Direct fundamental scientific study and investigation work in the water sector to address climate change, its worldwide impact and exposure in Mongolia, impact trends, and identify measures to adjust, soften or neutralize negative impacts and support processes for accumulating and preserving water resources.	To identify the exposure, impacts, tendency of Global Climate Change in Mongolia and activities to adapt to the changes and moderate the negative impacts. Based on the requisits of line Ministries, prioritize the financing of studies on preserving water resource formation and water resource conservation through Science and Technology Foundation; intensify the public access tothe results.	MNET MECS Academy of Science	MMRE MRTCUD Water Agency	2011-2015
Second stage					
6.10	Study all advanced achievements of technology for water conservation, water treatment, and reuse; and develop a framework to give policy, legislative, and economic support for their introduction and adaptation to the conditions of our country;	To incorporate mechanisms for encouraging the initiatives to introduce and adapt water savings, wastewater treatment and water recycling technologies with the state policy and regulations. To provide economic support.	MNET MoF	MRTCUD MJIA MECS Water Agency	2016-2021
6.11	Organize campaigns involving citizens, entities and organizations to clean rivers, lakes, ponds, springs, and water points of domestic and industry waste at 20-50 km. radius in municipalities, aimag centres and larger cities, 10 km. radius in soums and settlement areas, 5 km. radius in bags and herder groups, and make a tradition that each citizen participats; not less than 2 times per year (5 May during the spring season, 15 October during the autumn season);	To organize a nationwide event for the purpose of protecting water source, maintaining water purity and preventing from negative impacts twice a year in May and October. (Saturdays of the second weeks)	MNET All level governors	Water Agency NGOs	2016-2021

6.12	Continue fundamental study work in the water sector, at a level to support activities for adjusting to climate change and accumulating water resources.	Continually organize trainings, advocacy campaigns and information disseminations to set correct understanding, attitude and practice towards water and sanitation.	MECS MoH MNET MRTCUD	All level governors Water Agency	2016-2021

List of abbreviations:

-LACGCA- Land Affairs, Construction, Geodesy and Cartography Agency
- NAMHEM-National Agency for Meteorolgy, Hydrology and Environment Monitoring
-NEMA-National Emergancy Management Agency
-NGOs- Non Government Organizations
-NCSM-National Center for Standardization and Meteorolgy
-SPIA-State Professional Inspection Agency
-MNET-Ministry of Nature, Environment and Tourism
-MoH-Minsitry of Health
-MoF-Ministry of Finance
-MMRE-Ministry of Mineral Resource and Energy
-MFAIL-Ministry of Food, Agriculture and Light Industry
-MECS-Ministry of Education, Culture and Science
-MRTCUD-Ministry of Road, Transportation, Construction and Urban Development
-MJIA-Ministry of Justice and Internal Affairs
-MRA-Mineral Resources Authority