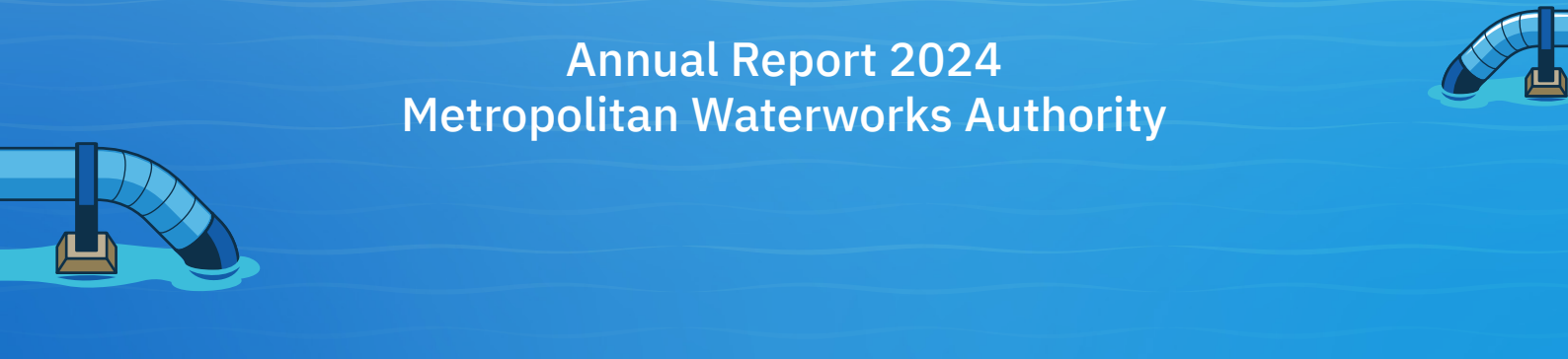




Quality Water for Quality Living

Annual Report 2024
Metropolitan Waterworks Authority







Quality Water for Quality Living



“Quality Water for Quality Living”

The Metropolitan Waterworks Authority’s commitment is to improve water services by focusing on achieving quality, stability, and sufficiency through innovation, technology, and corporate governance to ensure sustainability and meet stakeholder needs according to 5 key operating guidelines as follows:



Water Stability

Develop infrastructure and manage the entire water system to support urban expansion.



Adaptive Organization

Adopt innovation and digital technology in services and define effective work process improvement.



Sustainable Partnership

Operate with transparency and build partnership across all sectors.



High Financial Performance

Achieve efficient capital management and cost control.



Business Plus

Expand related businesses to generate income and achieve financial stability through a variety of services under One Stop Water Services by MWA Project.



One Stop Water Services by MWA



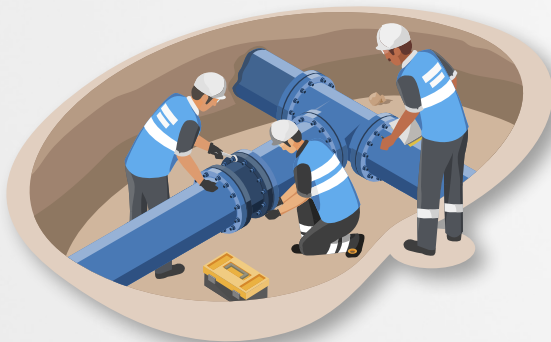
“Good Water for Good Life”

The Metropolitan Waterworks Authority has enhanced services to deliver value and meet consumer needs beyond their expectations via One Stop Water Services by MWA, which aims to meet every consumer requirement through 5 business categories as follows:



Water System Design and Improvement Services

For public and private sectors by providing expert consulting team to meet every requirement in water system management, whether small or large.





One Stop Water Services at Consumer Place

With no worries about water supply concerns in building, residence, and commercial property through service packages, including inspecting, surveying, and repairing water systems, as well as cleaning both large and small water storage tanks to maintain water quality according to standards.



Water System Standard Testing Center

Perform testing services for water quality, meter accuracy, and material standards used in water systems according to ISO 17025 standard by experts and certified laboratories.





Water Technology and Innovation

Develop water management technology and water management platform via CIS 365 digital system to enhance the effectiveness of agency and organization in support of effective infrastructure system expansion.



MWA Water Excellence Center



Serve as a center of training and water personnel development operated in collaboration with public and private sectors for knowledge transfer and developing water technology courses according to industrial standards while strengthening personnel competence to enhance water services and develop sustainable water system.



The Metropolitan Waterworks Authority is ready to move toward a sustainable future with related businesses through professional personnel and reliable services. We are committed to creating value for society via One Stop Water Services and raising water management standards to create confidence among our consumers while driving the organization towards stable and sustainable business growth.



One Stop Water Services by MWA: “Good Water for Good Life”

Contact Channels:



MWA Call Center: 1125



Application: MWA onMobile



Website: www.mwa.co.th



Facebook/LINE/Instagram/X (twitter): @MWATHAILAND

Facebook/YouTube/TikTok: One Stop Water Services by MWA



The Metropolitan Waterworks Authority (MWA)

The MWA is a state enterprise under the supervision of the Ministry of Interior that has been operating since 16 August 1967, pursuant to the Metropolitan Waterworks Authority Act, B.E. 2510 (1967). The main mission is to procure raw water resources for waterworks, produce, deliver, and distribute water in Bangkok, Nonthaburi, and Samut Prakan, and operate other businesses related or beneficial to waterworks.



Vision
**Quality Water
for Quality Living**

Missions

1

To operate one-stop core water business adhering to water quality standards for improving the people's quality of life.

2

To become a crisis-capable organization.

3

To operate related businesses for creating value to stakeholders while creating sustainable organizational growth.

Shared Values

QWATER



There are 3 policy levels of public sector shareholders towards state enterprises:

1. Policies for Overall State Enterprises

Serving as state mechanisms to drive the country's economy and society for security, prosperity, and sustainability.

2. Policies for State Enterprises in Public Utilities

Developing basic infrastructure and real estate to raise the people's quality of life while sustainably supporting urbanization and economic areas.

3. Policies for the Metropolitan Waterworks Authority

Improving and expanding water networks for quality and sufficiency to meet the emerging urbanization while developing related businesses to create added value for the organization.

Pride Awards



SOE Awards 2024

- Outstanding Strategic Partnership for Development from the “Project on Data Integration to Enhance Customer Service Efficiency in Collaboration with Metropolitan Waterworks Authority and Metropolitan Electricity Authority”
- Outstanding Service Award from the “Project for Enhancing the Efficiency of Complaint Management Process Using Digital Technology”



Public Sector Excellence Awards 2024 (Public Service Delivery)

in Good Service Innovation from “Thararak”: an analysis system for water leaks using AI and data management via cloud network



Leadership of the Year Award 2024

in Organization Management and Development



Certificate of Excellent Integrity and Transparency Assessment (ITA) for Fiscal Year 2024

with a score of 98.84, ranking first among state enterprises under the Ministry of Interior and the second among all 51 state enterprises

Sustainability Disclosure Award 2024

in Honorary Award Category for 5 consecutive years (2020 - 2024)



Outstanding Official Information Center Award in the Category of “Silver Shield” (Very Good Level) for 6 Consecutive Years (2019 - 2024)



Thon Buri Water Treatment Plant is awarded as the national outstanding model establishment in safety, occupational health, and work environment in 2024

ISO/IEC 27001:2022 Standard Certification

to implement and maintain an effective Information Security Management System (ISMS) for preventing information security risks



Gold Medal Award for AquaPM

A dashboard of machine status and availability in water production system, from the WorldInvent™, Singapore 2024” (WoSG)



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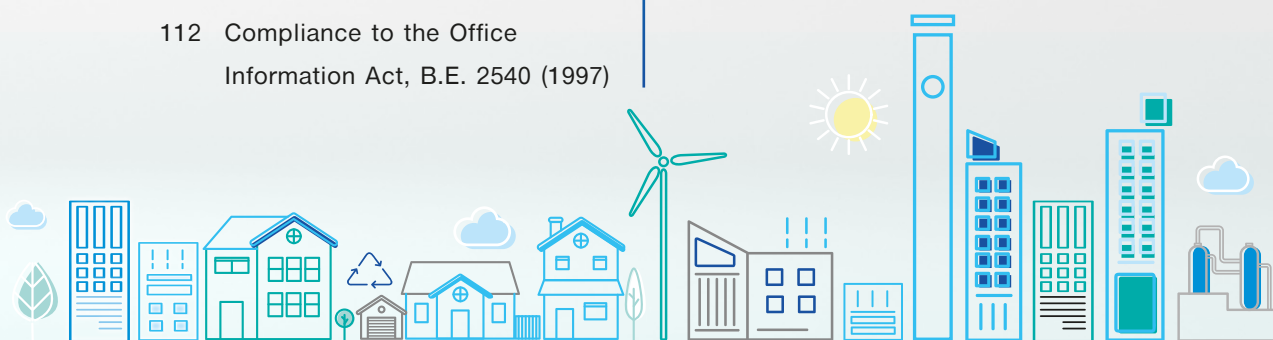
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Message from the Chairman

Year 2024 is the 57th year of the Metropolitan Waterworks Authority, which is committed to operating under One Stop Water Services, adhering to water quality standards for improving the people's quality of life. The related businesses are also implemented to deliver value for stakeholders and create continuous organizational growth amidst various crises in accordance with key strategic frameworks such as the 20-year National Strategy, the Master Plans under the National Strategy, the 13th National Economic and Social Development Plan (2023 - 2027), National Reform Plans, the State Enterprise Oversight and Management Development Act, the State Enterprise Development Plan (2023 - 2027), the Ministry of Interior's Action Plans under the Thailand 4.0 concept, and related government policies and work plans, with the aim to drive the organization toward becoming Smart Enterprise for Smart Value.

The Metropolitan Waterworks Authority Board of Directors recognizes the importance of people's quality of life through clean, safe, and potable water for the people in Bangkok, Nonthaburi, and Samut Prakan. It is a core mission for the Metropolitan Waterworks Authority to maintain and enhance service continuity while adopting technologies as essential tools to increase effectiveness in monitoring, solving problems, and alleviating people's suffering. Our achievements are apparent through numerous awards; for instance, the Outstanding State-Owned Enterprise Award (SOE Awards) 2024 in 2 categories: Outstanding Strategic Partnership for Development from the "Project on Data

Integrating to Enhance Customer Service Efficiency in Collaboration with Metropolitan Waterworks Authority and Metropolitan Electricity Authority" and the Outstanding Service Award from the "Project for Enhancing the Efficiency of Complaint Management Process Using Digital Technology", Public Sector Excellence Award from "Thararak": an analysis system for water leaks using AI and data management via cloud network, Sustainability Disclosure Award 2024 in Category 1: Honorary Award for five consecutive years, and Certificate of Excellent Integrity and Transparency Assessment (ITA) for 2023 with a score of 98.84 ranking the second among all 51 state enterprises and the first among state enterprises under the Ministry of Interior.

On behalf of the Metropolitan Waterworks Authority Board of Directors, executives, employees, and contract workers, I would like to thank every related sector. We commit to perform extensive and equitable professional water services for the people in regards of transparency, including maintaining service continuity, creating value for stakeholders, and achieving sustainable organizational growth according to the Vision of **"Quality Water for Quality Living"**.



(Mr. Chaiwat Chuenkosum)
Chairman of the Metropolitan
Waterworks Authority

“The Metropolitan Waterworks Authority is committed to operating under One Stop Water Services, adhering to water quality standards for improving the people’s quality of life. The related businesses are also implemented to deliver value for stakeholders and create continuous organizational growth.”



Message from the Governor

For the past 57 years, the Metropolitan Waterworks Authority has been a state enterprise operated under the supervision of the Ministry of Interior which committed to performance in accordance with the Ministry of Interior's mission to **"Alleviate Suffering and Promote Happiness"** prioritizing for people through providing water services in Bangkok, Nonthaburi, and Samut Prakan as a part of core mission in order to achieve the vision of **"Quality Water for Quality Living."**

The management context as a part of the effort to create sustainable water services in the long term is a major challenge to the Metropolitan Waterworks Authority in the managerial dimensions of limited water resources, infrastructure management, including under construction projects, maintenance of aging infrastructure, and service management in the digital age, while creating balanced stakeholder participation from upstream to downstream, and most importantly, raising awareness of water use to the people and society for creating sustainability.

One of the efforts that the Metropolitan Waterworks Authority has undertaken to support macroeconomics is to maintain water tariffs for over 25 years, with the primary hope of easing the people's expense burden. However, the Metropolitan Waterworks Authority still upholds water quality standards exceeding the standards set by the World Health Organization (WHO) while maintaining service stability to ensure continuous 24/7 access to clean water for the people to use and consume. The service mission can significantly foster pride among the Metropolitan Waterworks Authority employees.

The Metropolitan Waterworks Authority's next step is to build alliance networks, to create opportunities and greater value from organizational knowledge and expertise while also accelerating various commercial innovations in the country and overseas. We firmly believe that our capabilities and strengths will reinforce the organization to become an organization of national pride that strives for prolonged security and sustainability.



(Miss Suwara Thawitchasri)
Governor of the Metropolitan
Waterworks Authority

“ The Metropolitan Waterworks Authority’s next step is to build alliance networks, to create opportunities and greater value from organizational knowledge and expertise while also accelerating commercial innovations.

We firmly believe that our capabilities and strengths will reinforce the organization to become an organization of national pride that strives for prolonged security and sustainability ”





Organization Structure



Workforce Structure

(Information as of September 2024)

As of 30 September 2024, the Metropolitan Waterworks Authority has 5,090 personnel, categorizing as 4,060 employees and 1,030 contract workers, while total workforce expenses are 3,576.79 million baht, categorizing as employee expenses 3,345.43 million baht and contract workers expenses 231.36 million baht.

Functional Line	Workforce (persons)		
	Employees	Contract Workers	Total
1. Governor	157	31	188
2. Deputy Governor (Administration)	291	72	363
3. Deputy Governor (Finance)	152	13	165
4. Deputy Governor (Engineering)	354	54	408
5. Deputy Governor (Water Production)	674	184	858
6. Deputy Governor (Planning and Development)	142	35	177
7. Deputy Governor (Digital Technology)	113	10	123
8. Deputy Governor (Eastern Services)	1,133	318	1,451
9. Deputy Governor (Western Services)	1,044	313	1,357
Total	4,060	1,030	5,090

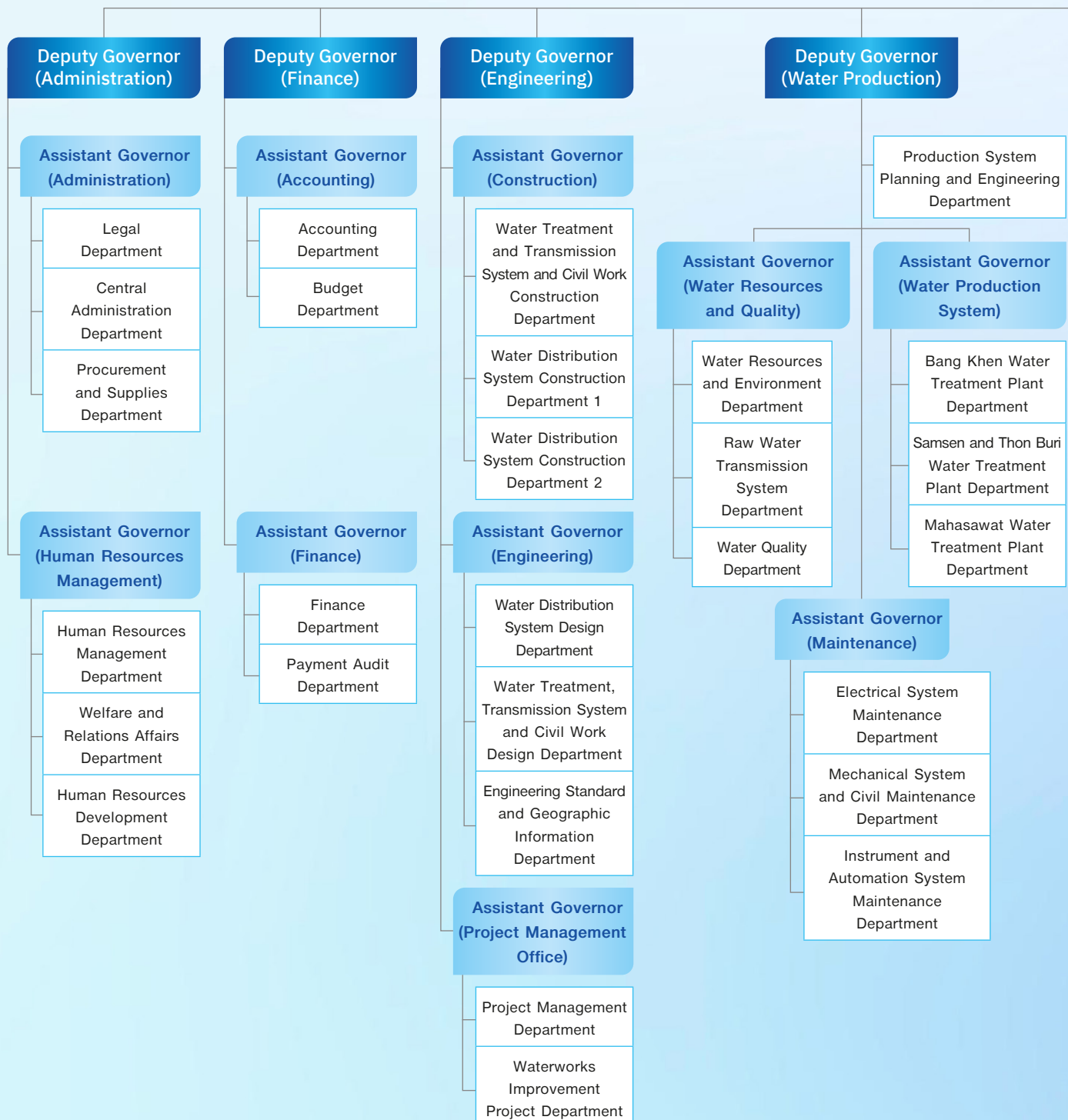
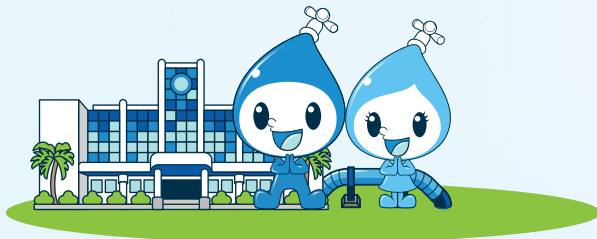
Workforce Expenses in the Past 3 Years

(Information as of September 2024)

Functional Line	Expenses (Million baht)								
	Employees			Contract Workers			Total		
	2024	2023	2022	2024	2023	2022	2024	2023	2022
1. Governor	181.05	174.16	158.75	7.25	4.25	3.69	188.30	178.41	162.44
2. Deputy Governor (Administration)	238.28	235.85	235.70	12.26	11.67	11.04	250.54	247.52	246.74
3. Deputy Governor (Finance)	146.22	144.89	139.76	1.99	2.02	2.13	148.21	146.91	141.89
4. Deputy Governor (Eastern Services)	898.35	874.83	848.89	73.85	73.14	73.20	972.20	947.97	922.09
5. Deputy Governor (Western Services)	864.78	839.63	809.81	91.38	89.53	90.89	956.16	929.16	900.70
6. Deputy Governor (Engineering)	208.79	210.07	230.29	9.24	9.58	8.82	218.03	219.65	239.11
7. Deputy Governor (Water Production)	572.14	547.25	529.73	31.58	29.90	32.32	603.72	577.15	562.05
8. Deputy Governor (Planning and Development)	125.71	124.19	127.59	2.25	5.69	5.38	127.96	129.88	132.97
9. Deputy Governor (Digital Technology)	110.11	107.15	102.28	1.56	1.51	1.59	111.67	108.66	103.87
Total	3,345.43	3,258.02	3,182.80	231.36	227.29	229.06	3,576.79	3,485.31	3,411.86

Organization Chart

(Information as of October 2024)



MWA Board of Directors

Governor

Office of MWA Board of Directors

Corporate Governance Department

MWA Board of Directors Affairs Department

Office of Governor

Corporate Communication Department

Social Responsibility Management Department

Deputy Governor (Planning and Development)

Assistant Governor (Planning and Development)

Policy and Strategy Department

Risk Management Department

Deputy Governor (Digital Technology)

Assistant Governor (Digital Technology)

Digital Strategy and Innovation Department

Digital System Development Department

Digital Technology Infrastructure Department

Deputy Governor (Eastern Services)

Assistant Governor (Services 1)

Sukhumvit Branch Office

Phra Khanong Branch Office

Samut Prakan Branch Office

Thung Mahamek Branch Office

Assistant Governor (Services 2)

Mansri Branch Office

Phaya Thai Branch Office

Lat Phrao Branch Office

Marketing and Customer Relationship Department

Deputy Governor (Western Services)

Assistant Governor (Services 4)

Bangkok Noi Branch Office

Taksin Branch Office

Phasi Charoen Branch Office

Suksawat Branch Office

Assistant Governor (Services 5)

Nonthaburi Branch Office

Bang Bua Thong Branch Office

Mahasawat Branch Office

Service Support Department

Assistant Governor (Business)

Corporate Innovation Department

Business Development Department

Assistant Governor (Services 3)

Prachachuen Branch Office

Bang Khen Branch Office

Min Buri Branch Office

Suvarnabhumi Branch Office

Assistant Governor (Services)

Water Meter Department

Water Loss Management Department

Assistant Governor (Water Transmission and Distribution System)

Water Distribution Pumping Station Department

Water Transmission and Distribution Control Department

MWA Board of Directors List

(Information as of 31 December 2024)



Mr. Chaiwat Chuenkosum
Chairman

Mr. Chodnarin Koedsom
Director

**Lieutenant General
Sumat Promtrut**
Director and
Independent Director



Mr. Sanit Khowsa-ard

Director and
Independent Director



Police Captain Piya Raksakul

Director and
Independent Director



Miss Piang-or Loahavilai

Director and
Independent Director

MWA Board of Directors List

(Information as of 31 December 2024)



**Police Lieutenant General
Krisda Kanchana-alongkorn**
Director and Independent Director

Mr. Nitat Maneesilasan
Director and
Independent Director

**Associate Professor
Chaiwat Oottamakorn**
Director and
Independent Director



Miss Trithip Sivakriskul

Director and
Independent Director

Mr. Chaitat Saetang

Director and
Independent Director

Mr. Kiatnarong Wongnoi

Director

Miss Suwara Thawitchasri

Director and MWA Governor

MWA Board of Directors

(Information as of 31 December 2024)

Mr. Chaiwat Chuenkosum

Position: Chairman

Age: 57

Education/Training:

- Bachelor of Political Science (Government), Chulalongkorn University
- Master of Political Science (Government), Chulalongkorn University
- Top Executive Program in Commerce and Trade (TEPCoT), Class 9, University of the Thai Chamber of Commerce
- The Program for Senior Executives on Justice Administration (Class 25), Judicial Training Institute
- National Defence Program (Class 65), National Defence College

Work Experience:

- Governor of Ratchaburi Province
- Governor of Loei Province
- Governor of Pathum Thani Province
- Deputy Permanent Secretary for Interior
- Director-General of Community Development Department, Ministry of Interior

Current Positions:

- Governor of Nakhon Ratchasima Province
- Board Member, National Science and Technology Development Agency
- Chairman, Metropolitan Waterworks Authority

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Governor of Nakhon Ratchasima Province
- Board Member, National Science and Technology Development Agency

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Mr. Chodnarin Koedsom

Position: Director

Age: 56

Education/Training:

- Bachelor of Law, Ramkhamhaeng University
- Bachelor of Agricultural Technology (Cooperative Economics), Maejo University
- Master of Public Administration, Prince of Songkla University
- New Wave Leader Development Program (Class 4), Office of the Civil Service Commission (OCSC)
- Advanced Certificate Course in Public Administration and Law for Executives (Class 10), King Prajadhipok's Institute
- Governing Executive, Higher Level (Class 59), Ministry of Interior
- Senior Executives in Industrial Business Development and Investment Program (Class 5), Institute of Business and Industrial Development (IBID)
- Digital Leadership for Executive Level (Class 1), Thailand Digital Government Academy (TDGA)
- Workshop on "Creating Leaders of Change According to the Framework of the National Reform, Strategy and Cohesion" (RSC 2), Class 5
- CEO Learning Through Experience (Class 1), Digital Economy Promotion Agency (DEPA)
- Senior Executive Development Program, Royal Thai Police
- Financial and Fiscal Management Program for Senior Executives (FME), Class 10, the Comptroller General's Department

Work Experience:

- Deputy Governor of Prachuap Khiri Khan Province
- Deputy Governor of Phang-nga Province
- Deputy Governor of Ranong Province
- Governor of Chumphon Province
- Deputy Permanent Secretary for Interior

Current Positions:

- Governor of Songkhla Province
- Director of Metropolitan Waterworks Authority
- Chairman, MWA Corporate Governance (CG) and Corporate Social Responsibility (CSR) Subcommittee
- Vice Chairman, MWA Procurement Subcommittee
- Member, MWA Governor Nomination Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Governor of Songkhla Province

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Lieutenant General Sumat Promtrut

Position: Director and Independent Director

Age: 57

Education/Training:

- Bachelor of Science, Chulachomklao Royal Military Academy
- Master of Public Administration, Krirk University
- Command and General Staff College Program (Class 80), Command and General Staff College
- The Certificate Program in Rule of Law for Democracy, the Office of Constitutional Court
- National Defence Program (Class 65), National Defence College

Work Experience:

- Chief of Staff, Counter Terrorist Operations Center, Royal Thai Armed Forces Headquarters
- Deputy Commander, Counter Terrorist Operations Center, Royal Thai Armed Forces Headquarters
- Bangkok Military Court Judicial Service Commissioner
- Advisor of National Defence Studies Institute, Royal Thai Armed Forces Headquarters

Current Positions:

- Commander, Counter Terrorist Operations Center, Royal Thai Armed Forces Headquarters
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Audit Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Commander, Counter Terrorism Operations Center, Royal Thai Armed Forces Headquarters

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Mr. Sanit Khowsa-ard

Position: Director and Independent Director

Age: 62

Education/Training:

- Bachelor of Political Science (Public Administration), Thammasat University
- Master of Political Science (Government), Chulalongkorn University
- Doctor of Philosophy (Innovative Management), Suan Sunandha Rajabhat University
- District Chief Program (Class 44), Institute of Administration Development, Ministry of Interior
- Senior Administrative Officer Program (Class 40), Institute of Administration Development, Ministry of Interior
- National Defence Program (Class 54), National Defence College
- The Ministry of Interior's Executive Competency Development Program for Excellence, Damrong Rajanubhab Institute

Work Experience:

- Governor of Phetchaburi Province
- Chief Inspector-General, Ministry of Interior
- Governor of Bueng Kan Province
- Director, Institute for Continuing Education and Human Resources, Thammasat University
- University Council Director, Maha Sarakham Rajabhat University
- Subcommittee Member, Office of Civil Service Commission, Office of the Permanent Secretary for Interior

Current Positions:

- Director, Metropolitan Electricity Authority
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Relations Affairs Committee
- Member, MWA Governor's Performance Appraisal Subcommittee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Director, Metropolitan Electricity Authority

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Police Captain Piya Raksakul

Position: Director and Independent Director

Age: 56

Education/Training:

- Bachelor of Laws, Sripatum University
- Master of Arts (Political Science-Justice Administration and Security), Kasetsart University
- Public Economic Management for Senior Executives Program (Class 5), King Prajadhipok's Institute
- Provincial Prosecutor Program (Class 34), Office of the Attorney General
- Middle Level Justice Administration Program, Class 37, Police College
- The Certificate Program in Environmental Governance for Senior Executives (Class 5), Department of Environmental Quality Promotion
- The Justice Administration Advance Course (Class 10), Ministry of Justice
- Training Course on Advanced Political and Election Development (Class 10), Office of the Election Commission
- The Civil Service Executive Development Program: Visionary and Moral Leadership (Class 92), Office of the Civil Service Commission
- The Executive Program on the Implementation of International Standards and Norms in Crime Prevention and Criminal Justice (iCPCJ), Class 1, Thailand Institute of Justice (Public Organization)
- The Certificate Program in Rule of Law for Democracy (Class 11), the Office of the Constitutional Court
- Director Certification Program (DCP), Class 343/2023, Thai Institute of Directors Association (IOD)

Work Experience:

- Director, Bureau of Special Case Management, Department of Special Investigation
- Director, Bureau of Financial, Banking and Money Laundering Crime, Department of Special Investigation
- Deputy Director-General, Department of Special Investigation, Ministry of Justice

Current Positions:

- Deputy Secretary-General, Southern Border Provinces Administrative Center
- Director, Thai Oil Public Company Limited
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Human Capital Management Subcommittee
- Chairman, MWA Legal and Appeal Subcommittee
- Member, MWA Governor's Remuneration Subcommittee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Deputy Secretary-General, Southern Border Provinces Administrative Center
- Director, Thai Oil Public Company Limited

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Miss Piang-or Loahavilai

Position: Director and Independent Director

Age: 60

Education/Training:

- Bachelor of Political Science (Public Administration), Thammasat University
- Master of Business Administration (MBA in International Business), Seoul National University, Seoul, Republic of Korea
- Doctor of Science, Chiang Mai University
- Train the Trainer Course, Korea Productivity Center
- KPF Fellowship Program, Korea Press Foundation
- Director Certification Program (DCP), Class 307/2021, Thai Institute of Directors (IOD)
- The Successful Formulation & Execution of Strategy Course (SFE), Class 37/2021, Thai Institute of Directors (IOD)
- Certificate of Corporate Governance for Director and Senior Executive of State Enterprises and Public Organization (PDI), Class 24, King Prajadhipok's Institute

Work Experience:

- Director, the Transportation Company Limited
- Director, Aeronautical Radio of Thailand Limited
- Executive Director, KEC (Thailand) Company Limited, KEC Corporation (Republic of Korea)
- Academic Staff of Master Degrees, International College of Digital Innovation, Chiang Mai University

Current Positions:

- Academic Staff of Master Degrees and Director of Sister Cities Research Center, International College of Digital Innovation, Chiang Mai University
- Director, Wiang Kosai Development Company Limited
- Director, Chiang Mai Food Polis Company Limited
- Director, Beidou (Thailand) Company Limited
- Director, General Hospital Products Public Company Limited
- Director, Rail Technology Research and Development Agency (Public Organization)
- Director, Metropolitan Electricity Authority
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Digital Technology Development Subcommittee
- Vice Chairman, MWA Corporate Governance (CG) and Corporate Social Responsibility (CSR) Subcommittee
- Vice Chairman, MWA Human Capital Management Subcommittee
- Vice Chairman, MWA Water Loss Monitoring and Water Pressure Management Subcommittee
- Vice Chairman, MWA Governor's Performance Appraisal Subcommittee
- Member, MWA Governor Nomination Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Director, Wiang Kosai Development Company Limited
- Director, Chiang Mai Food Polis Company Limited
- Director, Beidou (Thailand) Company Limited
- Director, General Hospital Products Public Company Limited
- Director, Rail Technology Research and Development Agency (Public Organization)
- Director, Metropolitan Electricity Authority

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Mr. Nitat Maneesilasan

Position: Director and Independent Director

Age: 58

Education/Training:

- Bachelor of Science (Computer Science), University of the Thai Chamber of Commerce
- Bachelor of Law, Ramkhamhaeng University
- Diploma Attorney, Batch No. 48, Lawyers Council of Thailand under the Royal Patronage
- Master of Management (General Management), College of Management, Mahidol University
- Advance Diploma in Public Administration and Law (Class 21), King Prajadhipok's Institute
- Certificate of Corporate Governance for Directors and Senior Executive of Regulators, State Enterprises and Public Organizations, Class 26, Public Director Institute, King Prajadhipok's Institute
- Director Accreditation Program (DAP), Thai Institute of Directors (IOD)
- Mini MBA of Retail Management
- Real Estate Entrepreneurs Program, Kasetsart University

Work Experience:

- Chairman of the Executive Committee and Managing Director, Solution Corner (1998) Public Limited Company
- Director, Media Executive Group Company Limited
- Vice President of IT, University of the Thai Chamber of Commerce Alumni Association
- Vice President, the Association of Thai Software Industry
- Advisor and Secretary of the Police Commission, the House of Representatives
- Advisor and Specialist Committee on Land, Natural Resources and Environment, the House of Representatives
- Specialist of the Representative, the House of Representatives
- Working Group Study on State Security for Nuclear Energy Case, Energy Commission, the House of Representatives
- Working Group on Considering Further Study on Service Places Act, B.E. 2509, the House of Representatives
- Board of Directors on considering the application for BOI promotion, Software Industry Promotion Agency (Public Organization)
- Honorary Advisor, Software Industry Promotion Agency (Public Organization)
- Subcommittee of Software Industry Promotion Agency (Public Organization)

- Subcommittee, Organization Management, Office of Trade Competition Commission
- Subcommittee, Investment Management, Social Security Fund, Social Security Office
- Advisory Board of Deputy Minister of Public Health Office of the Minister, Ministry of Public Health
- Advisory Committee to the Deputy Minister of Interior, Minister's Office, Ministry of Interior
- Audit Committee, Office of Trade Competition Commission
- Subcommittee on Legal and Appeals, Rubber Authority of Thailand

Current Positions:

- Chief Executive Officer (CEO), Openserve Company Limited
- Risk Management Subcommittee, Social Security Fund, Social Security Office
- Independent Director, Audit Director, Nomination Director, and Risk Oversight Director, Capital Link Financial Group Public Company Limited
- Independent Director, Audit Committee and Nomination Committee, Capital Link Credit Foncier Company Limited
- Director, Third Dragon Company Limited
- Director, Happy Serve Company Limited
- Director, Little Hill Place Company Limited
- Lawyer/Legal Advisor, JKL Law Firm
- Director of Metropolitan Waterworks Authority
- Chairman, MWA Water Loss Monitoring and Water Pressure Management Subcommittee
- Member, MWA Digital Technology Development Subcommittee
- Member, MWA Governor Nomination Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Chief Executive Officer (CEO), Openserve Company Limited
- Independent Director, Audit Director and Nomination Director, Capital Link Credit Foncier Company Limited
- Independent Director, Audit Director, Nomination Director, and Risk Oversight Director, Capital Link Financial Group Public Company Limited
- Director, Third Dragon Company Limited
- Director, Happy Serve Company Limited
- Director, Little Hill Place Company Limited

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Police Lieutenant General Krisda Kanchana-alongkorn

Position: Director and Independent Director

Age: 53

Education/Training:

- Bachelor of Public Administration, Royal Police Cadet Academy
- Bachelor of Laws, Sukhothai Thammathirat Open University
- Master of Social Science in Development Administration, University of Birmingham, United Kingdom
- Master of Business Administration (Executive), SASIN Graduate Institute of Business Administration, Chulalongkorn University, Thailand
- Justice Administration Program, the University of Virginia
- FBI 196th Session, FBI National Academy
- Police Management Development Program, Australian Institute of Police Management
- International Innocent Images Task Force Program, FBI National Academy
- Senior Police Administration Course, Police College

Work Experience:

- Deputy Commander of Investigation, Provincial Police Region 1, Office of Royal Thai Police
- Commander of Immigration Division 4, Immigration Bureau, Office Royal Thai Police
- Deputy Commander, Immigration Bureau, Office of Royal Thai Police
- Commander Attached to Office of the Commissioner General, Office of Royal Thai Police
- Director, Port Authority of Thailand
- Qualified Member of the Civil Aviation Business License Screening Committee, Civil Aviation Authority of Thailand

Current Positions:

- Inspector General of Police
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Governor Nomination Committee
- Chairman, MWA Procurement Subcommittee
- Chairman, MWA Governor's Remuneration Subcommittee
- Vice Chairman, MWA Improvement Subcommittee
- Vice Chairman, MWA Legal and Appeal Subcommittee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- None

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Associate Professor Chaiwat Oottamakorn

Position: Director and Independent Director

Age: 53

Education/Training:

- Bachelor of Engineering, Electrical Engineering (Communication), Chulalongkorn University
- Master of Science, Electrical Engineering (Communication), Polytechnic Institute of New York University, USA
- Doctor of Philosophy, Electrical Engineering (Communication and Computer Networks), Polytechnic Institute of New York University, USA
- Balanced Scorecard Course, Faculty of Commerce and Accountancy, Chulalongkorn University
- The Top Management Program for Higher Education, Office of the Higher Education Commission
- Three-dimensional Financial Statement Analysis and Training Course, TP Consult and Training
- Budget Preparation and Management Course, TP Consult and Training
- Financial Analysis of Mega Project Investment Course, Telecommunications and Energy Economics Research Center, Faculty of Economics, Chiang Mai University

Work Experience:

- Telecommunications Engineer, Siemens AG., Thailand
- Researcher, Panasonic Information and Networking Technologies Laboratory (PINTL), Princeton, New Jersey, USA
- Director of Computer Center, Assistant Professor, Lecturer of Electrical and Computer Engineering Department
- Assistant Professor and Lecturer, Department of Information and Computer Technology, Sirindhorn International Institute of Technology, Thammasat University
- Deputy Director, Software Park Thailand, National Science and Technology Development Agency
- Technology Advisor, National Science and Technology Development Agency

- Assistant to the President, Sripatum University
- Risk Management and Internal Control Subcommittee, Provincial Waterworks Authority
- Member, Digital Technology, Knowledge Management, and Innovation Committee, Electricity Generating Authority of Thailand

Current Positions:

- Associate Professor and Lecturer, Master of Science Program, College of Innovation, Thammasat University
- Senior Financial and Accounting Consultant, Loxley Evolution Technology Company Limited
- Senior Financial and Accounting Consultant, Srinanaporn Marketing Public Company Limited
- Advisor to the Chairman of the Board of Executive Directors, Panjawattana Plastic Public Company Limited
- Managing Director, Origami Wash and Dry Company Limited
- Director, Marketing Organization
- Director and Independent Director, Metropolitan Waterworks Authority
- Member, MWA Audit Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Director, Marketing Organization.
- Managing Director, Origami Wash and Dry Company Limited

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Miss Trithip Sivakriskul

Position: Director and Independent Director

Age: 58

Education/Training:

- Bachelor of Business Administration (Finance and Banking), Chulalongkorn University
- Master of Business Administration (Marketing & Finance), Sasin School of Management, Chulalongkorn University
- Top Executive Program (Class 9), Capital Market Academy (CMA)
- Director Certification Program (DCP 158/2012), Thai Institute of Directors (IOD)
- Corporate Governance for Director and Senior Executive of State Enterprises and Public Organization (PDI), Class 22, King Prajadhipok's Institute
- Advanced Audit Committee Program (AACP 39/2021), Thai Institute of Directors (IOD)
- Democratic Politics and Governance Course for Top Executives (Class 26), King Prajadhipok's Institute

Work Experience:

- Director, State Railway of Thailand
- Director, Expressway Authority of Thailand
- Director, Government Pharmaceutical Organization
- Director of SRT Asset Company Limited

Current Positions:

- Director and Audit Committee, Super Energy Corporation Public Company Limited
- Director, Airports of Thailand Public Company Limited
- Director and Independent Director, Metropolitan Waterworks Authority
- Chairman, MWA Improvement Subcommittee
- Chairman, MWA Risk Management and Internal Control Subcommittee
- Chairman, MWA Governor's Remuneration Subcommittee
- Vice Chairman, MWA Governor Nomination Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Director and Audit Committee, Super Energy Corporation Public Company Limited
- Director, Airports of Thailand Public Company Limited

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Mr. Kiatnarong Wongnoi

Position: Director

Age: 59

Education/Training:

- Bachelor of Accountancy, Thammasat University
- Master of Public and Private Management (Public Administration, Public and Private Management), National Institute of Development Administration
- Executive Development Program (Mini MBA), Thammasat University
- Government Chief Information Officer Program, Thailand Digital Government Academy, Digital Government Development Agency (Public Organization)
- National Defence Program (Class 61), National Defence College

Work Experience:

- Director of Information Technology Center, the Comptroller General's Department
- Advisor of Information and Communication Technology, Office of Permanent Secretary for Finance
- Advisor of Fiscal and Financial System Development, the Comptroller General's Department
- Director, TOT Public Company Limited

Current Positions:

- Inspector General of the Ministry of Finance, Ministry of Finance
- Chairman, the Syndicate of Thai Hotels and Tourists Enterprises Limited
- Director, Krungthai Computer Services Company Limited
- Director, Metropolitan Waterworks Authority
- Member, MWA Audit Committee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Chairman, the Syndicate of Thai Hotels and Tourists Enterprises Limited
- Director, Krungthai Computer Services Company Limited

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Mr. Chaitat Saetang

Position: Director and Independent Director

Age: 45

Education/Training:

- Bachelor of Arts (B.A.) in Mass Communication, Ramkhamhaeng University
- Master of Business Administration (MBA) (Marketing), Ramkhamhaeng University
- Doctor of Business Administration (DBA) (Business Management), Phranakorn Rajabhat University
- Director Certification Program (DCP 222), Thai Institute of Directors (IOD)
- Family Business Governance (FBG 13), Thai Institute of Directors (IOD)
- Senior Management Program in Urban Development (Metropolitan Development), Class 5, Navamindradhiraj University
- Digital Chief Executive Officer (CEO) Program, Class 1, Digital Economy Promotion Agency
- Senior Executive Management for Industrial Business Development and Investment, Class 5, Institute of Business and Industrial Development
- Top Executive Program in Commerce and Trade (TEPCoT), Class 12, Commerce Academy, University of Thai Chamber of Commerce
- Advanced Retail Management (ARM) Program, Class 28, Office of Business Networking Management, CP All Public Company Limited
- Project Management Essential Program, Career for the Future Academy
- Top Executives for Nation Building Program, Class 1, Nation-Building Institute
- Advanced Certificate Course of Capital Market Academy Programs (Class 31)
- Certificate of Corporate Governance for Directors and Senior Executives of Regulators, State Enterprises and Public Organizations, King Prajadhipok's Institute
- The Smart City Leadership Program, Class 4, Digital Economy Promotion Agency (DEPA)
- Director Certification Program (DCP), Class 375/2024, Thai Institute of Directors (IOD)
- Board's Oversight and the Role of CEOs in ESG Super Series, Class 5, Institute for Research and Development of Public Organizations (IRDPA Foundation)

Work Experience:

- Advisor for Digital Content Marketing & IMC
- Advisor for IT Human Transformation
- Advisor for Digital Signage Design
- Advisor for Adaptation of Sufficiency Economy Philosophy for Sustainability
- Advisor for Presentation Skills for Small Businesses

Current Positions:

- Chief Executive Officer (CEO), Chaiyagarn Consulting Company Limited
- Director, CGC Group
- Director, My Wallet Company Limited
- Director, CGSE Company Limited
- Expert Member of the Board of Directors, Expressway Authority of Thailand (EXAT)
- Director, Metropolitan Waterworks Authority
- Vice Chairman, MWA Digital Technology Development Subcommittee
- Vice Chairman, MWA Risk Management and Internal Control Subcommittee
- Vice Chairman, MWA Governor's Remuneration Subcommittee

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- Chief Executive Officer (CEO), Chaiyagarn Consulting Company Limited
- Director, CGC Group
- Director, My Wallet Company Limited
- Director, CGSE Company Limited
- Expert Member of the Board of Directors, Expressway Authority of Thailand (EXAT)

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Miss Suwara Thawitchasri

Position: Director and MWA Governor

Age: 57

Education/Training:

- Bachelor of Political Science (International Relations), Chulalongkorn University
- Master of Labour and Welfare Development, Thammasat University
- Strategic and Appreciative Business Development Program (The Master) Class 8, Institute of Strategic and Appreciative Business (ISAB)
- Practical Project Management in Global Market, the Republic of the Philippines
- Joint Staff College Course (Class 57), Joint War College, National Defence Studies Institute
- Financial and Fiscal Management Program for Senior Executives (FME), the Comptroller General's Department
- Good Governance for Sustainability Development (Class 8), Office of the Public Sector Development Commission (OPDC)
- Human Resource Development Certificate Program (Class 20), Faculty of Economics, Chulalongkorn University
- Executive Development Program for MWA Future Leaders by DDI-Asia/Pacific International Co., Ltd.
- Corporate Governance for Executives (CGE), Thai Institute of Directors (IOD)
- Director Certification Program (DCP) Class 375/2024, Thai Institute of Directors (IOD)

Work Experiences:

- Water Academy and International Affairs Division Director
- Director of MWA Waterworks Institute of Thailand
- Social Activities Department Director
- Social Responsibility Management Department Director
- Corporate Communication Department Director
- Assistant Governor (Office of MWA Board of Directors)
- Deputy Governor (Administration)

Current Positions:

- Director of Metropolitan Waterworks Authority
- Governor of Metropolitan Waterworks Authority

Director/Senior Executive in Other State

Enterprises/Juristic Persons:

- None

Holding Juristic Person Securities (Shares)

Related to MWA Core Business:

- None

Juristic Persons Related to MWA Director:

- None

Definitions

- (1) Holding Juristic Person Shares Related to MWA Core Business refers to holding of securities (shares) by the MWA director in juristic person related to the MWA core business over 10 percent of all voting shares.
- (2) Juristic Persons Related to MWA Director: refers to a juristic person that is expected to have transactions related to the Metropolitan Waterworks Authority in which the spouse, underage child/adopted child of the MWA directors having control authority, such as holding voting shares more than 50 percent of all voting rights or having control authority over the majority of votes in the shareholder meeting or having control authority to appoint or remove directors at least one half of all directors.
- (3) Director/Senior Executive in Other State Enterprises/Juristic Persons refers to the MWA director holding a director or senior executive in other state enterprises or juristic persons.

Note: The Metropolitan Waterworks Authority has no subsidiaries/affiliated companies.

MWA Executives

(Information as of 7 January 2025)



Miss Suwara Thawitchasri

MWA Governor

Education/Training

- Bachelor of Political Science (International Relations), Chulalongkorn University
- Master of Labour and Welfare Development, Thammasat University
- Strategic and Appreciative Business Development Program (The Master) Class 8, Institute of Strategic and Appreciative Business (iSAB)
- Practical Project Management in Global Market, the Republic of the Philippines
- Joint Staff College Course (Class 57), Joint War College, National Defence Studies Institute
- Financial and Fiscal Management Program for Senior Executives (FME), the Comptroller General's Department
- Good Governance for Sustainability Development (Class 8), Office of the Public Sector Development Commission (OPDC)
- Human Resource Development Certificate Program (Class 20), Faculty of Economics, Chulalongkorn University
- Executive Development Program for MWA Future Leaders by DDI-Asia/Pacific International Co., Ltd.
- Corporate Governance for Executives (CGE), Thai Institute of Directors (IOD)
- Director Certification Program (DCP) Class 375/2024, Thai Institute of Directors (IOD)

Work Experiences

- Water Academy and International Affairs Division Director
- Director of MWA Waterworks Institute of Thailand
- Social Activities Department Director
- Social Responsibility Management Department Director
- Corporate Communication Department Director
- Assistant Governor (Office of MWA Board of Directors)
- Deputy Governor (Administration)



Miss Chawewan Uthaipibool

Deputy Governor (Eastern Services)

Education/Training

- Bachelor of Political Science (Public Administration), Thammasat University
- Master of Arts (Public Administration), National Institute of Development Administration (NIDA)
- Naval War College Program, Royal Thai Navy
- The Civil Service Executive Development Program: Visionary and Moral Leadership, Office of the Civil Service Commission (OCSC)
- Leadership Succession Program (LSP), Institute of Research and Development for Public Enterprises (IRDPE)
- Senior Executives on Justice Administration (Class 26), National Justice Academy, Judicial Training Institute

Work Experiences

- Deputy Governor (Administration)
- Deputy Governor (Planning and Development)



Mr. Raksak Suriyaharn

Deputy Governor (Water Production)

Education/Training

- Bachelor of Engineering (Civil Engineering), Khon Kaen University
- National Defence College Course (Class 63), National Defence College of Thailand
- Super Series Class 5, Institute of Research and Development for Public Enterprises (IRDPE)
- Director Certification Program (DCP) Class 321, Thai Institute of Directors (IOD)
- Air War College Program, Royal Thai Air Force
- Advanced Metropolitan Administrator Program, Bangkok Metropolitan Administration
- Corporate Governance for Directors and Senior Executives, King Prajadhipok's Institute
- Public Administration and Public Law, King Prajadhipok's Institute

Work Experiences

- Deputy Governor (Western Services)
- Deputy Governor (Engineering)



Miss Busagon Procks-anocha

Deputy Governor (Finance)

Education/Training

- Bachelor of Science (Accounting), Kasetsart University
- Master of Accountancy (Financial Accounting), Chulalongkorn University
- Master of Science (Information Technology), Eastern Asia University
- Corporate Governance for Directors and Senior Executives of Regulators, State Enterprises and Public Organizations, Public Director Institute (PDI)
- Financial and Fiscal Management Program for Senior Executives (FME), the Comptroller General's Department
- e-Government Program for Chief Executive Officer (e-GCEO), Thailand Digital Government Academy (TDGA)

Work Experiences

- Assistant Governor (Internal Audit Office)
- MWA Inspector Level 10



Mr. Suthep Euapakorn

Deputy Governor (Western Services)

Education/Training

- Bachelor of Engineering (Civil Engineering), Khon Kaen University
- Master of Public and Private Management Program (Public and Private Management), National Institute of Development Administration (NIDA)
- Naval War College Program (Class 49), Royal Thai Navy
- Senior Executive Training Program on Metropolitan Development (Class 7), Navamindradhiraj University
- Leadership Succession Program (LSP), Institute of Research and Development for Public Enterprises (IRDP)
- High-Level Anti-Corruption Strategy Executives Program, Office of The National Anti-Corruption Commission (ONACC)

Work Experiences

- Assistant Governor (Services)
- Deputy Governor (Eastern Services)



Mrs. Rachirach Uthayo

Deputy Governor

(Planning and Development)

Education/Training

- Bachelor of Communication Arts (Public Relations), Bangkok University
- National Defence College Course (Class 63), National Defence College of Thailand
- The Senior Executive Development Program, Royal Thai Police
- The Executive Program for Crime, Prevention and Criminal Justice (Batch 27), Judicial Training Institute

Work Experiences

- Assistant Governor (Office of Governor)
- MWA Expert Level 10



Mr. Paripan Pinsurong

Deputy Governor (Digital Technology)

Education/Training

- Bachelor of Science (Computer Science), Rangsit University
- Master of Business Administration (Information Systems), Oklahoma City University
- Advanced Police Administrator Program, Police College
- Digital CEO, Digital Economy Promotion Agency (DEPA)

Work Experiences

- Technology and Communication Department Director
- Assistant Governor (Digital Technology)



Mrs. Thimaporn Wimonanupong

Assistant Governor (Engineering)

Acting Deputy Governor (Engineering)

Education/Training

- Bachelor of Engineering (Agricultural Engineering), Kasetsart University
- Master of Economics, Ramkhamhaeng University
- Naval War College Program, Royal Thai Navy
- Executive Program in Urban Leadership Development (Class 10), Navamindradhiraj University

Work Experiences

- Water Meter Department Director
- Engineering Standard and Geographic Information Department Director



Mr. Sanchai Pongputtachart

Assistant Governor (Administration)

Acting Deputy Governor (Administration)

Education/Training

- Bachelor of Engineering (Industrial Engineering), Rajamangala University of Technology Phra Nakhon
- Master of Arts (Political Science), Kasetsart University
- Superintendent Course, Police College
- Senior Executive Training Program on Urban Leadership Development, Navamindradhiraj University
- The Pinnacle Leadership Program (PLP), Suan Dusit University

Work Experiences

- Water Meter Department Director
- Bang Khen Branch Office Manager



Miss Widchuda Liamsanguan

MWA Expert Level 10

Education/Training

- Bachelor of Engineering (Irrigation Engineering), Kasetsart University
- Master of Engineering (Water Resources Engineering), Chulalongkorn University
- Master of Business Administration (Management), Thammasat University
- Global Mini MBA: Entrepreneurial Manager Series (Class 83), Thammasat University

Work Experiences

- Project Management Department Director
- Assistant Governor (Planning and Development)



Mrs. Nisapas Wongpat

MWA Expert Level 10

Education/Training

- Bachelor of Science (Genetics), Chulalongkorn University
- Master of Engineering (Civil Engineering), Kasetsart University
- Army War College Program, Army War College
- Senior Executive Training Program on Urban Leadership Development, Navamindradhiraj University
- Financial and Fiscal Management Program for Senior Executives (FME), the Comptroller General's Department

Work Experiences

- Assistant Governor (Waterworks Academic Development)
- Assistant Governor (Business)



Mr. Washirawit Powichit

MWA Expert Level 10

Education/Training

- Bachelor of Science (Civil Engineering), University of Northern Philippines
- Master of Engineering (Water Resources Engineering), Kasetsart University
- Towards Well-Performing Water Utilities and Supply Reliability Program, Singapore
- Joint Staff College, Joint War College (Class 54), National Defence Studies Institute
- Advanced Police Administrator Program (Class 41), Police College
- Local Development Administration for Sustainability (Class 4), King Prajadhipok's Institute
- Senior Executive Training Program on Urban Leadership Development (Class 11), Navamindradhiraj University
- Strategic Board Master Class (SBM), Class 14/2024, Thai Institute of Directors Association (IOD)

Work Experiences

- Assistant Governor (Water Resources and Quality)
- Assistant Governor (Services 5)



Mr. Archawan Im-erbtham

MWA Expert Level 10

Education/Training

- Bachelor of Engineering (Environmental Engineering), Chiang Mai University
- Master of Engineering (Environmental Engineering), Chulalongkorn University
- Doctor of Business Administration (Industrial Business and Human Resource Development), King Mongkut's University of Technology North Bangkok
- Strategist Course, National Defence Studies Institute
- Air War College Program, Royal Thai Air Force
- Senior Administration Course, Ministry of Interior

Work Experiences

- Samut Prakan Branch Office Manager
- Assistant Governor (Services 1)

● Executives (Assistant Governor and Equivalent)

(Information as of 1 October 2024)

Line of Governor



Miss Kornvilai Yeawyasat
Assistant Governor
(Office of Governor)



Mr. Siam Jittharm
Assistant Governor
(Internal Audit Office)



Mr. Thanapong Kausangunsilp
Assistant Governor
(Office of MWA Board of Directors)

Line of Deputy Governor (Administration)



Mr. Sanchai Pongputtchart
Assistant Governor
(Administration)



Mr. Sutthisak Lapprasert
Assistant Governor
(Human Resource Management)

Line of Deputy Governor (Finance)



Miss Pornwilai Sinwirote
Assistant Governor
(Finance)



Miss Anoottaree Prasertchai
Assistant Governor
(Accounting)

Line of Deputy Governor (Eastern Services)



Mr. Kittipat Uthikamporn
Assistant Governor
(Services 1)



Miss Jitaree Mungkun
Acting Assistant Governor
(Services 2)



Mrs. Maytawee Suchartlumporn
Assistant Governor
(Services 3)

Line of Deputy Governor (Western Services)



Mr. Sarawut Boonwong
Assistant Governor
(Services 4)



Mr. Piyapong Srisomboon
Assistant Governor
(Services 5)



Mr. Supichete Tavorntaveevong
Assistant Governor
(Services)



Mr. Pummate Chaitragul
Assistant Governor
(Water Transmission
and Distribution System)

Line of Deputy Governor (Engineering)



Mr. Pravej Ampornrat
Assistant Governor
(Construction)



Mrs. Thimaporn Wimonanupong
Assistant Governor
(Engineering)



Mr. Winyu Roongadulpisan
Assistant Governor
(Project Management Office)

Line of Deputy Governor (Water Production)



Mr. Pornsak Samornkraisorakit
Assistant Governor
(Water Resources and Quality)



Mr. Somsak Passananon
Assistant Governor
(Water Production System)



Mr. Yongyut Srimode
Assistant Governor
(Plant Maintenance)

Line of Deputy Governor (Planning and Development)



Mr. Chiranuwat Narong
Assistant Governor
(Planning and Development)



Mr. Chaiyaporn Rattanatanangpong
Assistant Governor
(Business)

Line of Deputy Governor (Digital Technology)



Mrs. Pitsawart Phapsuwan
Assistant Governor
(Digital Technology)

MWA Expert Level 9



Mrs. Suwanna Parkros



Miss Orawan Suraiman



Miss Duangkamol Rienpuech



Miss Warangkana Sudto



Mrs. Pajongjit Saovajantr



Mrs. Nittaya Pibul



Mrs. Saikwan Chaowanagit



Mrs. Tatrapa Kanjanasint



Mr. Manawat Preechachon

MWA Inspector (Level 9)



Mr. Sinut Sinittarnon

Executives (Department Director and Equivalent)

(Information as of 1 October 2024)

Line of Governor		
Mr. Kitti	Sriprommune	Corporate Communication Department Director
Miss Nattaya	Bunkerd	Social Responsibility Management Department Director
Miss Jarunee	Rotcharoen	Developing and Supporting Process Audit Department Director
Mrs. Araya	Sukyuang	Core Business Audit Department Director
Mrs. Chavina	Wiratyosin	Corporate Governance Department Director
Mrs. Wisakhar	Montian-art	MWA Board of Directors Affairs Department Director

Line of Deputy Governor (Administration)		
Mrs. Kantana	Meechai	Legal Department Director
Mr. Prat	Boonchut	Central Administration Department Director
Mrs. Kamonrat	Subprasert	Procurement and Supplies Department Director
Miss Somruedee	Songsang	Human Resources Management Department Director
Miss Pattana	Witchajutakul	Welfare and Relations Affairs Department Director
Miss Natthaya	Jittham	Human Resources Development Department Director

Line of Deputy Governor (Finance)		
Mrs. Jiraporn	Thassanasugarn	Finance Department Director
Miss Duangjai	Pruekpaisarn	Payment Audit Department Director
Miss Daorung	Phusantisamphan	Accounting Department Director
Mrs. Patcharee	Kunklon	Budget Department Director

Line of Deputy Governor (Engineering)		
Miss Madira	Suparp	Water Treatment and Transmission System and Civil Work Construction Department Director
Mr. Somboon	Sirichantakul	Water Distribution System Construction Department 1 Director
Mr. Chodanun	Surapeepong	Water Distribution System Construction Department 2 Director
Mr. Chana	Pongpothakul	Water Distribution System Design Department Director
Mr. Anuruk	Promchai	Engineering Standard and Geographic Information Department Director
Mr. Dollachet	Klahan	Water Treatment, Transmission System and Civil Work Design Department Director

Line of Deputy Governor (Engineering)

Mr. Vittaya	Kongkeatvanit	Project Management Department Director
Mr. Noppatat	Malerak	Waterworks Improvement Project Department Director

Line of Deputy Governor (Eastern Services)

Mr. Luanchai	Kanjanasint	Sukhumvit Branch Office Manager
Mr. Teerasak	Jangwiboon	Phra Khanong Branch Office Manager
Mr. Pratan	Leardcharoenroek	Samut Prakan Branch Office Manager
Mr. Sarawut	Apiluk	Thung Mahamek Branch Office Manager
Mrs. Phongpan	Wattanasermkit	Mansri Branch Office Manager
Mr. Kamol	Wisansawat	Phaya Thai Branch Office Manager
Mr. Decho	Wacharayoo	Lat Phrao Branch Office Manager
Miss Achara	Poramathikul	Marketing and Customer Relationship Department Director
Miss Roskon	Dankul	Prachachuen Branch Office Manager
Mr. Phanrat	Payak	Bang Khen Branch Office Manager
Mr. Assavin	Jariyanapiwart	Min Buri Branch Office Manager
Mr. Boonchok	Panyaprasitkit	Suvarnabhumi Branch Office Manager

Line of Deputy Governor (Western Services)

Mr. Nurach	Noisopa	Bangkok Noi Branch Office Manager
Mr. Wimarn	Marsjaroon	Taksin Branch Office Manager
Mr. Pornchai	Mongkolkrut	Phasi Charoen Branch Office Manager
Mr. Sukit	Musikphan	Suksawat Branch Office Manager
Mr. Pakorn	Amornruji	Nonthaburi Branch Office Manager
Mr. Phichet	Wongphitak	Bang Bua Thong Branch Office Manager
Mrs. Sasithorn	Meekuniam	Mahasawat Branch Office Manager
Mr. Chumpon	Kongkasem	Service Support Department Director
Mr. Nutthaphan	Oumtrakul	Water Meter Department Director
Mr. Natthapong	Suwannarat	Water Loss Management Department Director
Mr. Komgrit	Pochai	Water Distribution Pumping Station Department Director
Mr. Teeradeach	Katchpakerin	Water Transmission and Distribution Control Department Director

Line of Deputy Governor (Water Production)

Mr. Supukkaj	Bunnahirun	Production System Planning and Engineering Department Director
Miss Chatsinee	Surasen	Water Resources and Environment Department Director
Mr. Chaiwat	Chotkongkatitham	Raw Water Transmission System Department Director
Miss Chaweepan	Suangkiattikun	Water Quality Department Director
Mr. Thanitpong	Settachaisri	Bang Khen Water Treatment Plant Department Director
Mr. Khajornpong	Chooman	Samsen and Thon Buri Water Treatment Plant Department Director
Mr. Thanomsak	Duangdee	Mahasawat Water Treatment Plant Department Director
Mr. Sarawut	Siriwattanatrakul	Electrical System Maintenance Department Director
Mr. Thaveesak	Ngarmwacha	Mechanical System and Civil Maintenance Department Director
Mr. Pisarn	Thudee	Instrument and Automation System Maintenance Department Director

Line of Deputy Governor (Planning and Development)

Mr. Jirawat	Kanpayan	Policy and Strategy Department Director
Mr. Sorakrit	Nunduangkaew	Risk Management Department Director
Mrs. Sunisa	Piyasuwan	Corporate Innovation Department Director
Mrs. Petiporn	Chantawong	Business Development Department Director

Line of Deputy Governor (Digital Technology)

Mr. Banpot	Chanhom	Digital Strategy and Innovation Department Director
Mr. Suriyan	Wongmuangkaen	Digital System Development Department Director
Mr. Phakphoom	Pirachai	Digital Technology Infrastructure Department Director

MWA Expert Level 8

Mrs. Wantanee	Chumpoo	Miss Sumalee	Boonsaner
Mr. Khajhonwatch	Suwanla-iad	Mrs. Patchaya	Kanchanavilai
Miss Nuchnapa	Wongmongkhon	Mr. Attaboon	Benjabunluekul
Mrs. Aimchit	Chumchalerm	Mr. Wutipon	Laoarun
Mr. Arttachai	Ketrattanabovorn	Mr. Komkrit	Liangthavorn
Miss Jaroonrat	Thanaolan	Mrs. Siriporn	Chaichana
Miss Thiranut	Thamlethong	Miss Tipwan	Wattanapitayakul
Mrs. Dalina	Klayklung	Mr. Songsak	Sridowan
Miss Wanicha	Yotkham	Mr. Chatchai	Chardwattanon
Mr. Pongtape	Nootbootsaba	Miss Anchalee	Sompong
Mr. Naruchit	Kanittakul	Mr. Piyapong	Khemkhao
Mrs. Benjawan	Kaploy	Mr. Peerasak	Khanom
Mr. Narit	Singha-udom		

Auditor Level 8

Mr. Bundit	Seanglew
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Retired Senior Executives in the Fiscal Year 2024

Mr. Arnuparp	Supapant	Deputy Governor (Water Production)
Mr. Wison	Midtrapanon	MWA Expert Level 10



Metropolitan Waterworks Authority

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Present and Future

2023 2024 2025 2026 20

● State of the Industry and Future Trends

The International Monetary Fund (IMF) projects a global economic growth of 3.2 percent in 2024 and 2025. The global economy tends to continue recovery due to slowing inflation rates worldwide, causing many central banks to cut interest rates along with increasing investments. However, the risks from policy uncertainty and geopolitical risks still exist in each country. The economic growth of the United States of America is expected to expand by 2.8 percent in 2024 before turning down to 2.2 percent in 2025. Meanwhile, the economy of the European Union (EU) is expected to pass the lowest point, but the growth outlook is still low, with a projected growth of 0.8 percent in 2024 before increasing to 1.2 percent in 2025. In contrast, China's growth forecast for 2024 is 4.8 percent, but slow down to 4.5 percent in 2025 due to an increase in export uncertainty resulting from trade competition between the United States and the People's Republic of China, as well as import tariffs on electric cars from Europe, and the ongoing real estate crisis. However, the recovery in domestic consumption is a significant driving force behind China's economic expansion. For the economy of developing countries in Asia and the Pacific in 2024, the Asian Development Bank estimates economic growth at 5 percent due to higher exports in the region, which improve domestic demand. While the economic growth outlook for 2025 remains at 4.9 percent.

In 2024, the World Bank predicts that Thai economy will grow by 2.4 percent, with supporting factors from the continuous expansion of private consumption,

including the recovery of tourism and exports. In 2025, the economic growth is expected at 2.8 percent due to the recovery in exports resulting from better recovery in global trade, rising domestic and international demand, along with private consumption and tourism, which are the key factors driving and supporting the economic recovery. Meanwhile, tourism is expected to return to pre-COVID-19 pandemic in mid 2025, the risks and challenges include high household and business debt, strict lending measures, global economic and financial volatility, China's economy is slowing down due to trade protectionism, and tensions between the United States of America and the People's Republic of China, which affect the trade and service sectors, especially Thailand's tourism.

For the GDP growth rate in the manufacturing sector in the second quarter of the year 2024, the National Economic and Social Development Council concludes that the gross agricultural product shrinks by 1.1 percent. While the non-agricultural sector expands by 2.6 percent, with high-growth business groups such as accommodations, food services, and wholesale and retail groups. The supporting factors include better government consumption, exports of goods and services, expansion of private consumption, and ongoing recovery of the tourism sector. In 2024, private consumption and export value are expected to expand by 4.5 percent and 2 percent, respectively. Meanwhile, the average inflation rate is in the range of 0.4 - 0.9 percent.



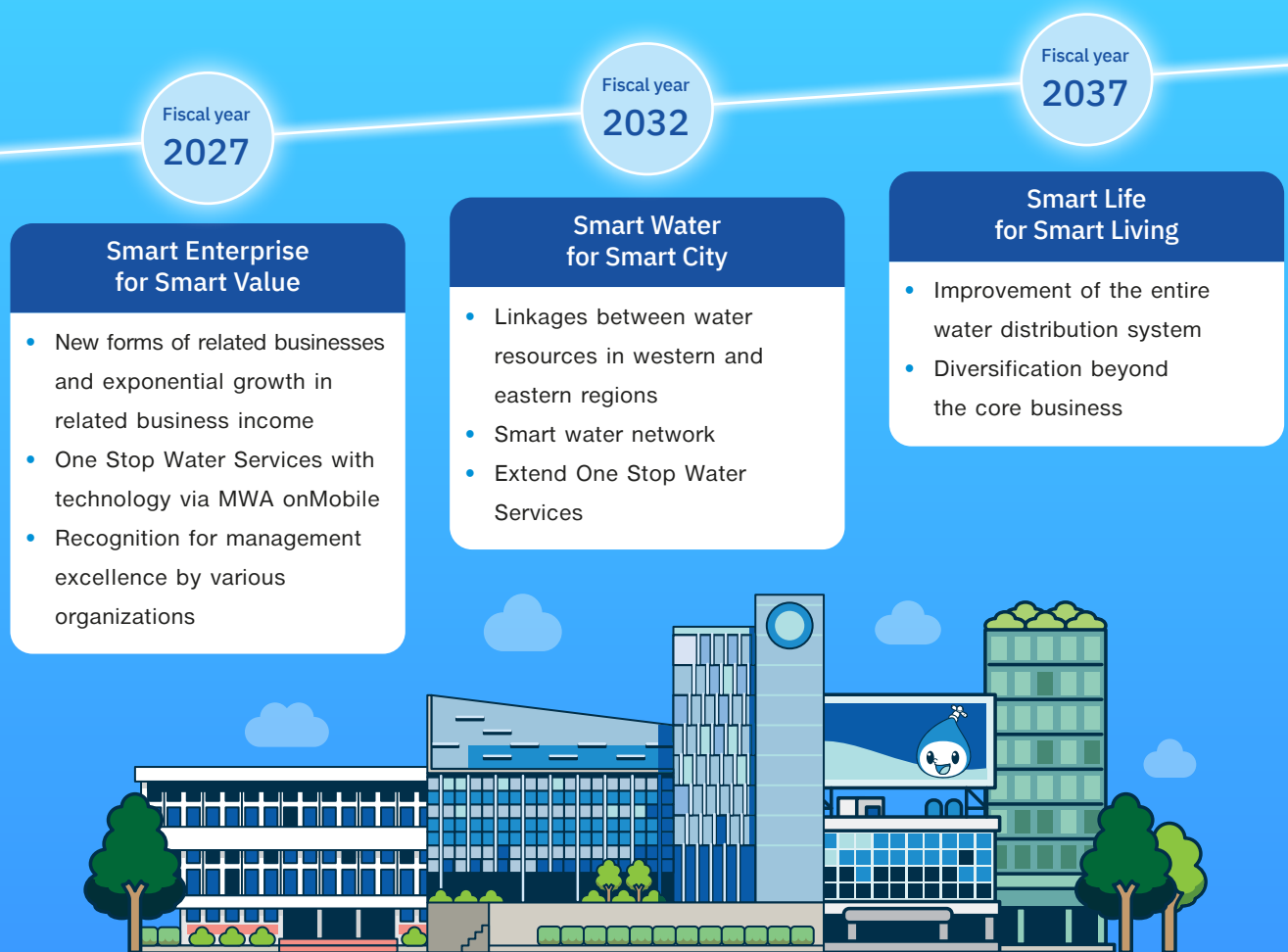
Important Work Plans and Projects

Projects	Period Duration (years)	Project Costs (Million Baht)	Performance up to Fiscal Year 2024 (%)
1. The Eighth Bangkok Water Supply Improvement Project Enhance production capacity at Bang Khen and Mahasawat Water Treatment plants each 400,000 cubic meters per day, construct additional clear water storage tanks at Rat Burana and Phet Kasem Water Distribution Pumping Stations, in addition to procurement and installment of raw water pumps and water transmission and distribution pumps, and the construction and installation of water pipes and other related works.	2008 - 2024	7,494.00	88.67
2. The Ninth Bangkok Water Supply Improvement Project* Enhance production capacity at Mahasawat Water Treatment Plant by 800,000 cubic meters per day and increase the efficiency of the water distribution system by construction of water transmission tunnel, construction of Bang Mot Water Pumping Station and expanding clear water storage tanks, the construction and installation of water pipes and other related works.	2017 - 2032	42,750.00	38.66
3. Work to Enhance Water Pumping Potential in Trunk Main System** Implement the installation of new water pipes and improve water pipes under the MWA responsible areas, covering all 18 branch offices.	2016 - 2027	3,798.05	34.76
4. Project to Improve Water Pipe System for Stability of Water Distribution System Improve water distribution pipes for water loss reduction and improve the overall efficiency of the MWA's pipe network.	2012 - 2027	1,520.42	78.02
5. Project to Improve Raw Water Transmission System and Permanent Flood Protection Improve eastern raw water transmission system (the raw water source for Bang Khen Water Treatment Plant, Sam Sen Water Treatment Plant, and Thonburi Water Treatment Plant) from Bang Khen Water Treatment Plant to the Sam Lae Raw Water Pumping Station for transmission potential and permanent flood protection along water supply canal.	2013 - 2026	3,573.64	62.35

* The Ninth Bangkok Water Supply Improvement Project is expected to be completed in fiscal year 2032.

** The performance of Work to Enhance Water Pumping Potential in Trunk Main System is decreased from fiscal year 2023 due to an increase in the number of contracts in fiscal year 2024, resulting in a decrease in the overall performance of the entire project.

Roadmap of the Sixth MWA Strategic Management Plan



The MWA divides strategic goals into **3** phases as follows:

1. Short-term goals (Fiscal year 2027)

focus on driving the organization towards Smart Enterprise for Smart Value through important activities; for instance, provision of alternative raw water reserves, service enhancement and operational efficiency for digital service and digital utility with the aim to be a technology-driven organization and easy access to related businesses with an emphasis on proactive communication as well as product/service development for reaching consumer needs and expectations, and an establishment of affiliated company, etc.

2. Medium-term goals (Fiscal year 2032)

focus on providing One Stop Water Services for Smart Water for Smart City with the aim of being an organization with One Stop Water Services that meet consumer needs in each area, with an emphasis on technology to manage environmentally friendly products for maximum efficiency through important activities; for instance, linkages between water resources in western and eastern regions, smart water network, and one stop water businesses, etc.

3. Long-term goals (Fiscal year 2037)

focus on clean/appropriate water through Smart Life for Smart Living towards social responsibility organization regarding on social well-being and interests supporting significant needs of society and the country in terms of environment, society, and economy through important activities; for instance, an improvement of entire water distribution systems, and creating business diversification beyond the core business, etc.

● Strategic Objectives and Tactics to Drive the Organization



Based on the short-term goals (fiscal year 2027), the strategic positions are defined into 3 sub-phases: 1) short-term (fiscal year 2023), 2) medium-term (fiscal year 2024 - 2026), and 3) long-term (fiscal year 2027) by considering 3 dimensions as follows: 1) quality water supply system, 2) service excellence, and 3) sustainable

management. The indicator of strategic position is to be Organizational Excellence in fiscal year 2024, Organizational Growth in Related Businesses in fiscal year 2024 - 2026, and Smart Enterprise for Smart Value in 2027, together with driving Strategic Objective (SO) to achieve those indicated strategic positions.

Future Policies and Plans



Construction Project for Raw Water Reservoir on the east side is to increase the amount of raw water storage in the Eastern Waterworks Canal by 0.5 million cubic meters in fiscal year 2027.



Greenhouse Gas (CO₂) Emission Reduction Project is to enable the organization to continuously reduce the amount of greenhouse gas (CO₂) emissions.



Smart Water Grid Project is to establish water loss monitoring areas in sub-areas to clearly separate the amount of water loss between trunk main system and distribution system by installing buried type flow meters, water pressure meters, remote water gate control devices, and pipe leak detection devices for activities to detect pipe leaks, monitor water loss, and manage water pressure in the area. Those activities assist the efficiency of analysis and decision-making in high water loss areas, in addition to implementing other related activities and also supporting effective high-pressure water distribution.



Customers/Consumers Journey and Customers/Consumers Persona Project for each target customer group is to enhance service responding to extensive needs and expectations while developing products/services responding to niche market to generate continuous income for the MWA.



Related Business Plans:

Integrated Waterworks Service is to analyze each customer group's requirements and provide services meeting those customer requirements.

- **One Stop Home Care Service** is to provide on-site services at consumer locations along with design services, construction, and installation of water pipes.
- **Water Testing Center** is to provide water quality testing services, water meter accuracy testing service, and plumbing product testing and certification services.
- **Innovation and Technology Service** is to provide and develop water management system services (CIS 365) for serving consumers according to contract conditions and commercial innovation work plans, in addition to creating commercial operation guidelines to generate additional income/launch products in the market and analyze costs, service tariffs (if any) and the breakeven point.
- **The MWA Excellent Center** is to provide water technology training services and an establishment of consulting center to provide consultation related to water systems ensuring services to meet consumer needs, as well as the plumbing professional skills testing and assessment center



Establishment/Joint Venture Investments in Affiliated Companies is to study and formulate an establishment plan for affiliated companies, as well as business operations plans for affiliated companies through selecting current potential related businesses with capabilities and/or any other related growing businesses, along with preparing business procedures and service tariffs in line with market positioning.



Commercial Innovation is to involve an innovation for generating income for an organization.



Business Performance



Business Performance Based on the Action Plan for Fiscal Year 2024 under the Sixth MWA Strategic Management Plan

The MWA is committed to driving the organization towards Smart Enterprise for Smart Value by applying technology throughout the entire supply chain, including raw water source management, production, water distribution, sale and pipeline installation service, and after sale and home service, as well as using technology in organizational management to become a high performance organization that can deliver value to meet

stakeholder needs under the vision of “**Quality Water for Quality Living**”. In order to achieve the goals according to the vision, the MWA has adjusted work content, goals, and activities in a timely manner and is appropriately driving toward achieving goals. The approaches to convey strategies to implementation are summarized as follows:

Water Stability

For quality products and services along with sufficient and stable standards and strong demand support, the MWA creates stability and security in water system (water distribution system, water treatment system, and transmission and distribution system) to provide continuous water supply to people under responsible areas. Information technology is also applied to manage water loss and water pressure, in which fiscal year 2024, an accumulated water loss rate reduced by 25.68 percent or 86,950 million liters through aging pipeline replacement with new pipelines. In the past 10 years, the MWA implements pipeline replacement more than 5,700 kilometers and set a goal to reduce water loss by 23 percent, which is a challenging goal for fiscal year 2027 along with water pressure by 7.75 meters, in addition to managing the quantity and quality of water throughout the entire water system (upstream to downstream) to deliver the people with every drop of clean and safe water suitable for consumption. The MWA has upgraded water treatment system to more efficient operations in accordance with Water Safety Plan of the World Health Organization (WHO) by applying good treatment practices and risk management principles to manage water quality throughout water supply chain, from raw water resources to consumers. The MWA performs water quality testing by experienced scientists at a laboratory and certified by the ISO/IEC 17025 standard in terms of quality, chemistry, and bacteria to achieve a score of 100 percent.

Water system security network also implements to support urban expansion and strengthens Thailand's economy and society under the Ninth Bangkok Water Supply Improvement Project through the investment to enhance water stability for service providing to support the expansion of the border area between Bangkok and vicinity by expanding water production capacity of Mahasawat Water Treatment Plant, constructing the transmission tunnel for connecting pipeline network across eastern and western sides, constructing a new water distribution pumping station and additional clear water storage tanks, and laying various sizes of pipelines to expand the water distribution system.



Adaptive Organization

The MWA is concerned about the enhancement of organization's capabilities by using knowledge management to develop innovations, using technology to adjust supporting process and service process, and providing more convenient, rapid, and easy access in all aspects of quality service. Every step of our services combines with innovation and technology in the form of online services such as the MWA onMobile application to provide convenience for all water services via smartphone and the MWA e-Service website, accessed by only clicking on eservicesapp.mwa.co.th throughout 24-hour service, which includes the requests for new water connections, water bill payments, water usage statistics, etc., offering water services similar to the MWA branch offices (Virtual Branch). Moreover, 24-hour contact is available via the MWA Call Center 1125, and the MWA's news and information can be monitored from any place and at any time through online social media such as LINE, Facebook, X (Twitter), and Instagram under the official account @MWATHailand. Additionally, the MWA provides "One Stop Water Services by MWA," offering services such as cleaning water storage tanks and inspecting-repairing pipelines by the MWA experts, giving the people confidence in clean and safe water supply at their household, as if directly delivered by the MWA's water treatment plants. In addition, a command center is established for solving public problems and difficulties relating to water supply with the purpose of swiftly monitoring,

inspecting, correcting, and overseeing the problems and difficulties facing by the public in addition to using complaint information and public incident reports to set various levels of policies and plans for analysis and decision making, resulting a combination of systematic management and effectively convenient experiences for the people. Therefore, the service satisfaction score on information technology is at 4.40 points (total 5).

For enhancing innovation, the MWA has researched, developed, and created innovative works applied in actual operations, resulting in the MWA receiving both domestic and international awards for "Thararak", an analysis system for water leaks using AI and data management via cloud network. It is a leak detection device using AI that assists less experienced surveyors to listen, analyze, decide, and accurately identify the location of leaking pipelines with more accurate and faster performance, exceeding 95 percent through AI software on mobile phone. The tool functions via two key components run through the application on mobile phone and acoustic leak detection system via cloud network. Both components require checking for water leak warning on the screen, instead of the traditional survey that required exclusively acoustic experience and expertise. As a result, the surveyors expedited both components, leading to higher water pressure while decreasing water loss and water resource loss.



Sustainable Partnership

The MWA is concentrated on an organization that operates under the principles of good corporate governance, transparency, and stakeholder engagement while actively creating added value for stakeholders through driving each aspect as follows:

- 1) **Creating long-term sustainable value for stakeholders** under the project to promote the good corporate governance practices of the Board of Directors, executives, and employees and the project to develop systems/mechanisms for the prevention and suppression of corruption enhancing the MWA corporate governance in accordance with international standards. In fiscal year 2024, the MWA is awarded Certificate of Excellent Integrity and Transparency Assessment (ITA) with a score of 98.84, ranking first among state enterprises under the Ministry of Interior and the second among all 51 state enterprises.
- 2) **Sustainability management with social and environmental responsibility** under Water Saving Label Project to promote using water wisely while leading to the conservation of the country's water resources for sustainable use. The MWA already certifies 11 water-saving products and launches the project to reduce greenhouse gas emissions (CO₂) to enable all agencies to use energy efficiently and reduce dependence on imported fuels for electricity generation, in addition to reducing global warming, which affects the lives of people around the world.
- 3) **Improving stakeholder and customer engagement** under the project to drive the enhancement of sustainable stakeholder engagement, which includes communicating various operations and encouraging all MWA stakeholder engagement through public relations channels and various activities, such as field visits to build networks to participate in community development, addressing needs and expectations of various communities, and conducting activities related to social and environmental responsibility such as the MWA Plumbing System for School Project and the MWA Project to Conserve Watershed

Forest in collaboration with the Electricity Generating Authority of Thailand (EGAT), and the Upstream Community Relations Project.

High Financial Performance

The MWA aims to create organization's sustainability by identifying opportunities for business growth with the ultimate aim of generating income and return, including managing operating expenses such as reviewing the appropriate asset utilization period in accordance with accounting standards for economic benefits, controlling budgetary spending, and planning and constructing pipelines for extending water supply service. As a result, the EBITDA margin for fiscal year 2024 is reported at 55.97 percent.

Business Plus

The MWA aims to expand related businesses for generating income to the organization due to the MWA's policy to increase additional income from the core business and creation of financial stability to the organization such as sale and pipeline installation service, after sale and home service, water meter accuracy testing service, water quality testing service, plumbing product testing and certification, as well as water system development service for local government organizations and water technology training business under the One Stop Water Services by MWA Project. Those activities generate the MWA additional income from related businesses equal to 1,030.35 million baht.





Risk Management

The MWA recognizes the importance of risk management to ensure operational effectiveness and efficiency in line with good corporate governance principles and corporate strategies. The organization operations are summarized as follows:

Raw Water Quantity and Quality

In fiscal year 2024 from November 2023 to June 2024, the MWA is affected by the El Niño phenomenon, leading to low water level in dams and rising sea level. Then around August to October, a storm moved into Thailand, leading to heavy rains, sudden floods, water overflowing banks, and high turbidity level in raw water. However, the MWA effectively monitors and handles the water situation in time to ensure a continuous supply of quality water by joining meetings and coordinating with both public and private agencies for an aspect of collaborative water management in the long term. The MWA launches the projects to expand production capacity, maintenance, and increase clear water storage tanks while renovating water canal to enhance raw water holding capacity can help address future water needs. The MWA also closely follows up and monitors by adding key risk indicators on water quality in western resources to effectively monitor raw water resources for water treatment.

Stability in Water Treatment, Transmission, and Distribution Systems

The MWA implements Preventive Maintenance (PM) plans for machinery and equipment in water treatment, transmission, and distribution systems, including expands the production capacity of water treatment plants, renovates water infrastructure, reinforces water supply network to support future water demand, and maintains the stability in water treatment, transmission, and distribution systems under the MWA responsible areas.

Responsibility to Stakeholders

The MWA concerns on resilience management in a state of readiness to deal with incurring disasters and emergencies in order to effectively handle any crisis. In fiscal year 2024, the MWA enables to maintain Business Continuity Management System (BCMS) according to ISO 22301:2019 standards with the scope covering raw water management, water treatment, transmission, and distribution, service provision, supporting activities. Meanwhile, rehearsing emergency response and Business Continuity Plan are practiced to assure the confidence among stakeholders that quality water can be continuously provided to consumers, even if the organization faces various crises that may arise in the future.

Finance

The MWA is currently facing organizational management challenges, especially in terms of finance. Currently, expenses tend to constantly rise while slightly increasing in incomes that are unable to keep up with expenses. Therefore, it is crucial for appropriate financial planning and management to the economic situation and organization's financial status. The MWA develops various tools to facilitate operations as well as to ensure that the MWA's financial management maintains sufficient liquidity and availability, which are summarized as follows:

- “SAP Analytics Cloud (SAC)” tool presents information through a modern dashboard for the executives to realize actual cash inflow and outflow movements and to make a projection at any given time. The tool can be used to accompany monitoring, analysis, and liquidity planning and management to sufficiently meet operational needs based on the corporate key mission.
- A tool for assisting calculations for funding arrangements developed from advanced Microsoft Excel, such as “Term Loan Model” and “Bond Model” for the MWA to estimate more rapid and precise loan arrangements while covering every repayment condition appropriate to the corporate financial status.



Information Technology

The MWA is aware of Cyber Threats and recognizes the importance of preventive and mitigation measures to control risks that may be targeted attacks. Therefore, the MWA implements the project to enhance the effectiveness of the communication network system and the stability of water treatment and transmission systems in order to improve cybersecurity effectiveness. In doing so, significant activities are carried out such as the use of firewall system, the establishment of Security Operation Center (SOC) to prevent and monitor attacks, along with data access control and regular system reviews and evaluation of risks resulting from information system vulnerabilities as well as to raise awareness on data leak prevention to employees. In addition, the MWA also conducts rehearsal of Business Continuity Plan (BCP) for information technology in the event of emergencies.

Improving Efficiency of Water Loss Reduction

The MWA implements the work plan to improve the efficiency of water loss reduction by defining water loss management work plan into 5 categories: reduction of water loss in water distribution system, reduction of water loss in the trunk main system, maintenance of related pipe and accessory system, reduction of water loss from management, and water pressure management. Category 1: reduction of water loss in water distribution system includes an important work plan hiring Performance Based Contract (PBC) to reduce water loss rate to achieve the set target. It is an effort ongoing from the previous year, in addition to emphasize on water loss management. Therefore, the MWA formulates the relevant risk management plans, including water loss target control plan from PBC. The results of the risk management plan are completely carried out according to the activities and plan, especially BCP, which requires handling broken pipes and expediting pipe laying useful to monitor the performance in line with the set guidelines and to appropriately achieve the organization's goals.

Internal Control

The MWA complies internal control in accordance with the Ministry of Finance regarding Internal Control Standard and Practical Guideline for Government Agency B.E. 2561 (2018) as follows:

Control Environment

It is prioritized in strengthening organizational culture, focusing on integrity, and establishing the MWA Code of Ethics as a part of the MWA Corporate Governance Policy, as well as establishing governance structures at the corporate, department, and unit levels.

Risk Assessment

All departments and divisions unaffiliated with departments are required to set internal control system and to conduct Control Self-Assessment according to their allocated works at least once a year or whenever situational or environmental changes occur.

Control Activities

Control activities are set to be implemented in every work process to ensure confidence that the organization will achieve goals. The MWA's Corporate Governance Policy is set as the corporate governance framework, while Risk Management Policy and Business Continuity Policy serve as risk management guidelines to meet the organization's objectives, and various policies are disseminated by the management to every level of employees.

Information and Communication

The MWA Enterprise Performance Management (MEPM) system has been developed as an information system that integrates good corporate governance with strategic planning, risk management, internal control, internal audit, and business continuity management in order to holistically manage the organization by enhancing management and monitoring capabilities for the executives. The system is expected to be completed in fiscal year 2025.



Monitoring Activities

Information technology systems are constantly adopted to provide information support top executives for monitoring significant operations such as Data Warehouse system and information for top executives serving as a central database, Corporate Performance Management (CPM) system, and Governance Risk and Compliance (GRC) system.

In fiscal year 2025, the MWA will focus on integrating varied operations via MEPM information system to achieve strategic goals under the corporate's missions in addition to achieving the vision "Quality Water for Quality Living" in line with the government's policies for national development and promotion of sustainable growth.



Internal Audit

The Internal Audit Office plays the primary role of operation to provide assurance and consulting services in a fair and independent manner by assisting the Audit Committee and the management in their duties to monitor risk management, internal control, corporate governance, and other various MWA operations in a systematic manner, in addition to auditing performance, financial reports, and compliance with laws, regulations and policies. The roles and responsibilities of the Internal Audit Office are clarified in the Charter of the Internal Audit Office, which is revised and updated at least once a year. The roles and responsibilities are communicated to the executives and employees of the Audit Unit for acknowledgement. The policy is set to perform duties with fairness and integrity while retaining independence according to professional standards and ethics, in addition to developing skills and expertise in using technology systems and knowledge exchange to improve work processes and enhance work performance according to the seven criteria for Core Business Enablers.

Audit Performance and Report

A five-year long-term Audit Plan (2022-2026) and an annual Risk-Based Audit Plan for 2024 emphasize the organization's key risks in line with the vision, goals, and the MWA Strategic Management Plan. Additionally, a project exists to develop the MWA Enterprise Performance Management (MEPM) to integrate and enhance the corporate governance process with an Intelligent Internal Audit system for Continuous Auditing and Monitoring. Hybrid Collaboration and Data Analytics techniques are used to support operations. In fiscal year 2024, the operations are completed according to the annual Audit Plan together with

advice provided to the executives and the Audit Unit according to the plan, thereby assisting to increase an efficiency and create value for the organization. Furthermore, audit results are reported to the executives of the Audit Unit, the Governor, the Audit Committee, the MWA Board of Directors, and regulatory agencies, and lessons learned from the audit are extracted by knowledge management process and knowledge exchanges towards continuous process improvement. In this regard, the audit operations of the Internal Audit Office present the independence, no restrictions on expressing opinions, and no unresolved issues of conflict between the Audit Unit and the Internal Audit Office.

Maintaining Work Quality of Internal Auditors

The internal auditors adhere to the practice guidelines set forth in the Internal Audit Operation Manual. The quality assessment is conducted after audit performance by the Audit Unit, and peer review is assessed by the Audit Committee and top executives once a year. The assessment results and recommendations are used as feedback information for improving and enhancing the efficiency of audit performance and providing consultation. In this regard, the plan for developing and retaining competent audit personnel by encouraging internal auditors to develop themselves to receive international professional certificates and supporting annual maintenance fees, as well as providing in-house and external training of at least 40 hours per person per year.

Auditor's remuneration: State Audit Office of the Kingdom of Thailand is the MWA auditor for the fiscal year 2024 with an auditor's remuneration of 4 million baht.



MWA Corporate Social and Environmental Responsibility Policy

The MWA recognizes the importance of all sectors of stakeholders and adopts the principles of social and environmental responsibility in line with the ISO 26000 international standard, which consists of seven behavioral principles such as Accountability, Transparency, Ethical Behavior, Respect for stakeholder Interests, Respect for the Rule of Law, Respect for International Norms, and Respect for Human Rights, as an operational framework for consideration throughout the entire value chain. As a result, the formulation of Corporate Social and Environmental Responsibility Policy has been established practical guidelines for the MWA Board of Directors, the Governor, executives, and employees as follows:

1. Commit to improving water services owing to an organizational main mission along with Corporate Social and Environmental Responsibility in process (CSR in Process) and carry out social activities (CSR after process) complying with 7 core issues of the ISO 26000 international standard as follows: Governance, Human Rights, Labor Practices, Environment, Fair Operating Practices, Consumer Issues, and Community Involvement and Development, with emphasis on stakeholder involvement in regard to prevent impact that may arise from the organization's operations along with the obvious goals.



2. Promote employee awareness at all functional levels for performing in a manner of social responsibility, ethics, and morals until becoming a part of corporate culture.
3. Build systematic stakeholder engagement according to the AA1000 Stakeholder Engagement Standard (AA1000SES), which result in effectiveness and achievement of stakeholder management in significant issues focusing on using the organization's expertise to advocate and meet stakeholder needs and expectations.
4. Promote sustainable development and corporate performance reporting relying on a sustainability reporting framework based on the guidelines of the Global Reporting Initiative (GRI) to enhance the organization's operational potentials and the international recognition of reliable performance reports.

Furthermore, the MWA employees commit to the Corporate Social and Environmental Responsibility Policy as part of their performance. The MWA is committed to conducting social and environmental responsibility, which is the fundamental of the organization's development toward a Sustainable Organization.

In addition, the MWA realizes the importance of being responsive to balance stakeholder needs under corporate governance and concerning social and environmental responsibility, leading to the development and strengthening of the corporate fundamentals towards a high-performance and sustainable growing organization. **The Announcement of the MWA Board of Directors on Stakeholder Management Policy** and the international principles of AA1000 Stakeholder Engagement Standard (AA1000SES) have been applied with stakeholder management in accordance with core work processes throughout the entire value chain.



Stakeholder Management
Policy and Practice Guideline

● Corporate Social and Environmental Responsibility Performance

The MWA deals with the communities in various related areas through many projects to improve people's quality of life and promote community progress in varied dimensions, including water and natural resource conservation, improvement of water systems in community areas, organizing training for knowledge transfer about water systems as an organization's core competency and expertise, as well as organizing activities close to the communities in a sustainable and unified way.

Key Community Strengthening Project

The MWA implements Key Community Strengthening Project by participating in activities to strengthen key communities that use the organization's core competencies. It is the implementation for communities/society that lack access to clean water with an aim to provide water for use and consumption to ensure good hygiene and a better quality of life by providing and improving the water supply systems in schools, developing underground water systems, water filtration systems, water pumping systems, water pipe systems, and providing tall tanks for storing rainwater and underground water, along with gutters for rainwater collection, or by engaging in other activities that are beneficial to schools. In doing so, the MWA considers the criteria for selecting the key communities, such as the areas where possible to use the MWA's expertise to strengthen important communities; for example, communities in the MWA's operating areas along the eastern and western waterworks canals, and communities in the MWA's service areas (Bangkok, Nonthaburi, and Samut Prakan). In fiscal year 2024, the MWA visits those areas to improve water systems, drinking water filtration systems, including to renovate school buildings, bathrooms, and ceilings, in addition to painting buildings and renovating surrounding landscape for local schools and communities around 3 areas of Tha Muang raw water intake as follows:

- Wat Pho Si Sukharam School, Wang Sala Sub-district, Tha Muang District, Kanchanaburi Province.
- Ban Mai Sub-district Learning Promotion Center, Ban Mai Sub-district, Tha Muang District, Kanchanaburi Province.
- Nong Tako Temple School, Khao Noi Sub-district, Tha Muang District, Kanchanaburi Province.



MWA Plumber for People Project

MWA Plumber for People Project aims to transfer knowledge as an organization's core competency and expertise to the general public. Project participants take professional plumber training, basic maintenance of plumbing system and knowledge exchange among plumbers through a collaboration network. The project allows the trainees to apply their knowledge to repair pipe systems in their homes and various communities, and to pursue a career as professional plumbers to generate another income. In fiscal year 2024, the MWA offers 3 training courses called **"MWA Plumber for People Project"** and takes the participants who pass the training to repair plumbing systems for temples/schools in **CSR Water for People activities** for 2 schools.

In addition to providing knowledge and skills to the general public, the MWA also provides training course to employees who retire in the fiscal year 2022 - 2024 and general employees to learn about professional plumbing, plumbing systems, sanitary wares, and repairing home plumbing equipments for themselves and their families. In fiscal year 2024, the training was provided in



"Basic Plumber for Employees and Retirees" for 2 courses with 77 training participants. In addition, to pursue opportunities for developing skills and careers to the society, the MWA expands the project in collaboration with Correctional Institutions, Juvenile Observation and Protection Center providing professional plumber training to good class of inmates called **"Creating Opportunity, Creating Career"**, by which the basic plumbing training providing to inmates was organized for two courses at Klong Prem Central Prison, Lat Yao Sub-district, Chatuchak District, Bangkok, and Bang Kwang Central Prison, Suan Yai Sub-district, Mueang Nonthaburi District, Nonthaburi Province, with a total of 60 inmates.

Youth Water Conservation and Water Conservation School Network Project

The Youth Water Conservation and Water Conservation School Network Project aim to promote, stimulate, and raise awareness among youth to recognize the importance of water resources and the environment, and to use water wisely in order to grow up to be a significant force in the sustainable conservation of water resources and the environment, while expanding results to their families and communities, together with schools serving as a support network, in addition to coping with the water crisis caused by abnormal droughts or the El Niño phenomenon in the long term. In fiscal year 2024, the MWA organizes the youth water conservation activities under the Youth Water Conservation and Water Conservation School Network Project 4 times as follows:

- First, at Wat Sadet Community School, Mueang Pathum Thani District, Pathum Thani Province, with 4 schools under the Office of the Primary Education Zone 1, Pathum Thani Province, participating in the activity.

- Second, at Wat Nawong School, Mueang Pathum Thani District, Pathum Thani Province, with 4 schools under the Office of the Primary Education Area Zone 1, Pathum Thani Province, participating in the activity.
- Third, at Thung Song Hong School (Kuptasathien Uthit), Thung Song Hong Sub-district, Lak Si District, Bangkok, with 4 schools under the Lak Si District Office, Bangkok, participating in the activity.
- Fourth, at Wat Thong Sutharam School, Wong Sawang Sub-district, Bang Sue District, Bangkok, with 4 schools under the Bang Sue District Office, Bangkok, participating in the activity.



MWA Project to Conserve Watershed Forest

The MWA continues the integrated natural resources conservation and restoration project model through the “MWA Project to Conserve Watershed Forest” in fiscal year 2024 to promote water resource, forest, and soil conservation, and create continuous and stronger participation with upstream communities, network agencies, and the MWA. That supports the MWA’s core mission of producing quality water to ensure a sufficient and sustainable source of raw water. In fiscal year 2024, the activities to improve the community quality of life and conserve natural resources in upstream areas under the “MWA Project to Conserve Watershed Forest” are organized in Song Khwae District, Chiang Klang District, and Pua District, Nan Province as follows:

- Construct a multi-purpose building and renovate the solar water system for Ban Pang Kom School, Chon Daen Sub-district, Song Khwae District, Nan Province.
- Renovate the mountain water system for Ban Pha Nam Yoi School, Phaya Kaeo Sub-district, Chiang Klang District, Nan Province.
- Donate computers for education to 6 schools in the local area, including Ban Sakad Tai School, Si Sa Wong School, Ban Pha Nam Yoi School, Ban Pha Wiang School, Ban Na Bong School, and Ban Pang Hok School.



- Participate in forest ordination activity and create a forest firebreak with the local community at Ban Huai Hat Community Forest, Uan Sub-district, Pua District, Nan Province.
- Organize a volunteer activity to build weirs on the auspicious occasion of His Majesty the King’s 6th Cycle Birthday Anniversary on 28 July 2024, together with a group of volunteers from Bhumibol Dam, community leaders, and local people in Yan Ri Sub-district, Wang Man Sub-district, Sam Ngao Forest Conservation Group and a forest protection unit at To Ko. 16 (Denmai Sung) to construct 123 semi-permanent weirs in Ban Pak community forest at the entrance of Bhumibol Dam.

Water Saving Label Project

The MWA expands the extensive use of water-saving label products by inviting entrepreneurs of both residential and non-residential real estate development projects from both public and private sectors to play a role in conserving water resources and the environment by using or switching to water efficiency label (water saving label) products certified by the MWA. In fiscal year 2024, Britannia Public Company Limited signed Memorandum of Understanding (MOU) with the MWA by installing 22,887 sets of certified water saving label equipment in 25 residential projects, totaling 4,558 households, resulting in a reduction in water usage by 50,782.76 liters per minute and a reduction in water loss by 40,626.21 liters per minute.



The MWA Stakeholders and Stakeholder Engagement

The MWA Stakeholders

The MWA recognizes the importance of stakeholders as a result of the identification of stakeholders, which is annually reviewed according to the international concept of the stakeholder engagement process under the AA1000 Stakeholder Engagement Standard (AA1000SES). The consideration is comprehensive according to the work processes throughout the value chain MWA and includes the objectives and scope of engagement that have been set as an operational framework. It is to ensure that stakeholders need to be given importance to engage appropriately in each period and situation. Upon the reviews, the activist/independent organization/civil society/academic groups are reduced due to few data of these stakeholder groups in the Stakeholder Profile database. Instead, they are combined with community and social groups, and the definitions are expanded to be more comprehensive. Consequently, the MWA stakeholder categories are reduced from 9 to only 8 groups as follows:

1. Policy-makers and government shareholders
2. Mission-based related agencies
3. Trade partners
4. Alliances
5. Consumers
6. Employees and contract workers
7. Communities and societies
8. Mass media

Thus, the definition of the 2 groups of stakeholders is adjusted to be more obvious and comprehensive, such as customers and communities and society, based on the organizational operations to meet the requirements and expectations of different stakeholders. The MWA sets guidelines for treating the organization's stakeholders in the same direction under the announcement of the MWA's Board of Directors on the policies and guidelines for stakeholder management, which was announced on 7 September 2023.

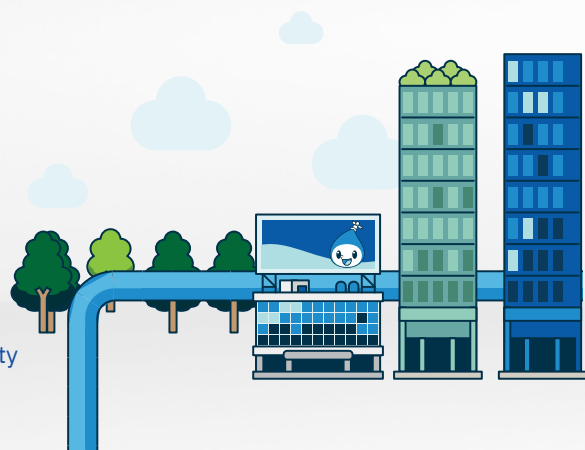
Stakeholder Engagement Plan

The MWA department units analyze stakeholder information according to the AA1000SES guideline and formulate an annual action plan on stakeholder engagement covering 5 concepts and 11 projects for a total of 22 work plans. The performance based on the annual action plan on stakeholder engagement in fiscal year 2024 are implemented according to each work plan and project as follows:

1. Proactive communication to create an image of a sustainable organization
2. Enhancing stakeholder engagement
3. Sharing knowledge toward effective work operations
4. Knowledge exchanges in management, innovation, and digital technology
5. Building good relationships to support services

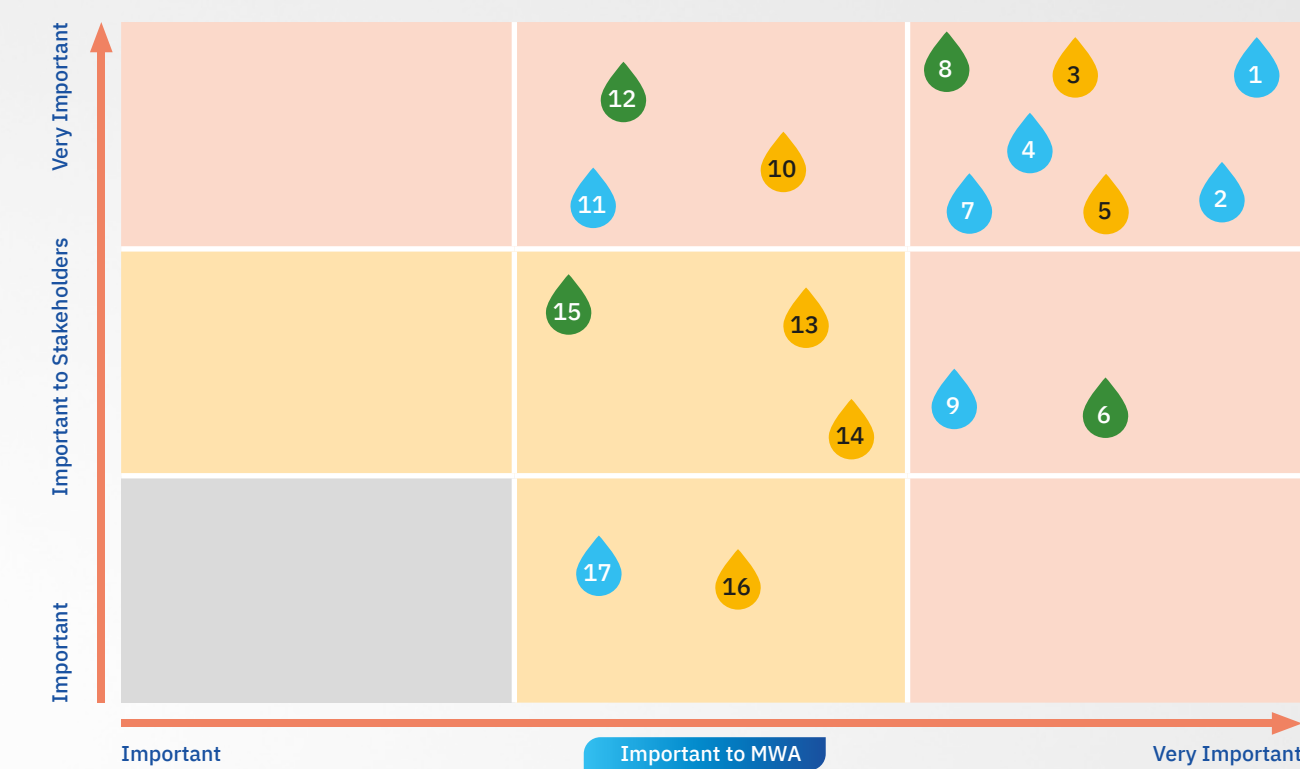
The implementation of the above plans leads to positive relations and an increase in satisfaction among stakeholders, resulting in the stakeholder satisfaction survey on activities organized under the above plans in fiscal year 2024 having a score of 4.43 (out of 5).

In any case, the MWA disseminates and communicates the stakeholder engagement performance, including economic, social, and environmental performance in the MWA Sustainability Report in accordance with the Global Reporting Initiative (GRI). In doing of such report, a process of identification and selection of sustainability materiality topics and prioritization of the topics is completed from the internal and external perspectives of the organization as shown in the MWA Sustainability Materiality Topic and Prioritization Map for fiscal year 2024 (Materiality Matrix):



MWA Sustainability Material Topics and Prioritization Map for Fiscal Year 2024

Prioritization by MWA



MWA Sustainability Material Topics for Fiscal Year 2024		
Economy and Governance	Society and Human Rights	Environment
1. Transparency and Integrity	3. Personnel Competency Development	6. Water Resources and Water Loss
2. Effective Communication	5. Water Quality	8. Energy Management
4. Effectiveness and Service Continuity	10. Occupational Health and Safety	12. Wastewater and Wastes
7. Innovation and Digital	13. Non-Discrimination and Equal Opportunity	15. Greenhouse Gas Emissions
9. Cooperation and Coordination with Other Agencies	14. Welfare and Security	
11. Efficiency of Internal Management Process	16. Local Communities	
17. Service Access and Affordable Tariff		

Performance According to the Annual Action Plan on Stakeholder Engagement for Fiscal Year 2024

Water Production Process Chart



Remarks

- The monitoring and analysis of water quality within the water production system are carried out by the laboratory of the water treatment plants, which is accredited in accordance with recognized standards, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 22301:2019, GHP, and HACCP.
- Water quality inspection and monitoring are conducted in accordance with the 2022 guidelines of the World Health Organization. Analyses are performed by the Water Quality Department's laboratory, which is accredited under ISO/IEC 17025:2017 and complies with ESPReL safety standards.
- Online Water Quality Monitoring System of the Water Resources and Environment Department.

Unit: million m³/day

Water Treatment Plant

Max. Production Capacity

Sam Sen Water Treatment Plant	0.42
Thonburi Water Treatment Plant	0.10
Bang Khen Water Treatment Plant	4.20
Mahasawat Water Treatment Plant	1.60

11 Consumers



9 Surge Tower

To reduce water back pressure and protect the pump from water hammer damage.

10 Distribution Pumping Station



To pump and distribute tap water through the water pipeline network to consumers in various areas.

8 Transmission Pumping Station

To pump water from the clear water reservoir of the water treatment plant into the water transmission tunnel and large water pipelines to various distribution pumping stations.



7 Clear Water Reservoir



The filtered water is chlorinated in the clear water storage tank before being distributed as tap water to consumers.

10 Distribution Pumping Station



To pump and distribute tap water through the water pipeline network to consumers in various areas.

11 Consumers



Length of Pipes and Equipment (Information as of 30 September 2024)

Dia. Size (mm)						
	ST	ST		CI	PC-ST	
		SCP	RCP (ST)			
Tunnel and Conduit						
3,400	10.367				6.582	
3,200	40.846					
3,000	16.286					
2,800	0.070				25.124	
2,500	11.980				6.172	
2,300	19.497				1.755	
2,000	36.801				8.153	
1,500	7.289					
Total in Transmission System (km)	143.135	0.000	0.000	0.000	47.786	
Trunk Main						
1,800	12.583	0.676				
1,500	103.624	11.806	12.540			
1,200	155.280	14.930	4.387			
1,000	575.448	16.593	47.622	12.881		
900	26.909			16.923		
800	474.443	0.330	0.172	8.885		
700	39.315			7.956		
600	134.781			15.731		
500	37.169			19.109		
400	20.280			17.991		
Total in Trunk Main (km)	1,579.832	44.335	64.721	99.476	0.000	
Distribution Pipe						
400	36.067			6.345		
300	309.048			2.254		
250	1.674			0.394		
200	153.907			1.532		
150	185.914			0.109		
100	25.485			0.571		
50	0.048			0.057		
Total in Distribution Pipe (km)	712.143	0.00	0.00	11.262	0.00	
Total in Distribution System (km)	2,435.110	44.335	64.721	110.738	47.786	

Pipe Length (km)								
	PC	AC	DI	PVC	GI	HDPE	PB	Total
								16.949
								40.846
								16.286
								25.193
								18.152
								21.252
								44.954
								7.289
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	190.921
								13.259
								127.970
	0.354		0.013					174.964
	4.533							657.077
	2.322					1.254		47.408
	4.835		0.423			3.041		492.129
	6.831					1.338		55.440
	5.009	3.786	2.704			0.582		162.593
	12.217	2.702				0.127		71.324
	0.222	0.142				0.172		38.807
	36.323	6.630	3.140	0.000	0.000	6.514	0.000	1,840.971
								257.456
	1,009.623	1.346	5,037.682	0.059	137.838	0.145		6,497.995
	14.779		1.008					17.855
	352.330		4,874.166	0.013	231.121	0.131		5,613.200
	787.761		10,008.955	21.986	12.953	1.280		11,018.958
	285.659		13,666.336	151.150	199.919	2.828		14,331.948
	0.410		32.172	27.072	3.083	1,717.531		1,780.373
	0.00	2,548.001	1.346	33,732.215	200.280	590.623	1,721.915	39,517.785
	36.323	2,554.631	4.486	33,732.215	200.280	597.137	1,721.915	41,549.677

*Length of pipes and equipment, excluding the length of service pipes (Size 1/2 - 3 inches)

Number of fire hydrant size 150 mm	33,423
Above-ground fire hydrant	33,388
Underground fire hydrant	35

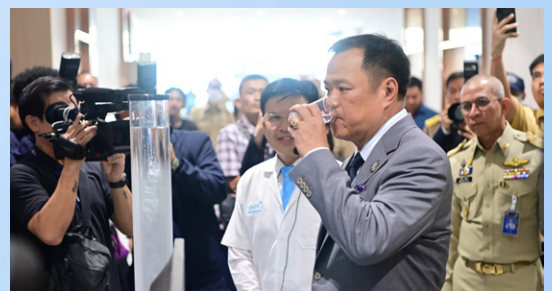
Number of gate valve (Distribution Pipe)	157,406
Number of gate valve (Trunk Main)	4,282
Number of DMA gate valve	2,936
Total	164,624
Butterfly valve	2,752

Services of MWA Branch Office

(Information as of 30 September 2024)

Branch Office	Service Area	Consumers	New Connection	Water Production	Water Distribution		
					Water Sales	Other Water	Total
	Km ²	Connection	Connection	Million cubic meter	Million cubic meter	Million cubic meter	Million cubic meter
Service 1	637.56	598,115	12,069	578.93	401.25	28.97	430.22
Sukhumvit	95.34	132,395	2,360	152.83	103.50	8.57	112.07
Phra Khanong	122.84	164,403	2,940	141.96	98.46	11.55	110.01
Samut Prakan	387.51	230,580	6,299	200.43	142.05	7.21	149.26
Thung Mahamek	31.86	70,737	470	83.71	57.24	1.64	58.88
Service 2	195.14	327,657	3,565	345.95	255.67	7.98	263.65
Phaya Thai	60.91	88,802	886	127.57	90.51	6.19	96.70
Mansri	35.81	66,846	497	115.46	82.23	1.08	83.31
Lat Phrao	98.42	172,009	2,182	102.92	82.93	0.71	83.64
Service 3	1,057.46	591,526	16,907	372.70	300.58	5.57	306.15
Prachachuen	77.87	120,870	1,984	83.89	63.18	0.54	63.72
Bang Khen	84.85	139,065	3,004	74.71	56.16	1.45	57.61
Min Buri	425.41	183,771	5,629	95.05	79.96	1.59	81.55
Suvarnabhumi	469.33	147,820	6,290	119.05	101.28	1.99	103.27
Service 4	664.93	638,651	10,856	467.06	298.53	19.51	318.04
Bangkok Noi	114.17	139,813	2,450	111.51	68.03	6.13	75.32
Taksin	154.94	161,708	1,603	117.01	83.51	0.38	82.06
Phasi Charoen	134.90	180,783	2,963	109.67	76.42	2.32	78.74
Suksawat	260.92	156,347	3,840	128.87	70.57	10.68	81.25
Service 5	639.91	488,228	13,115	273.49	182.74	14.02	196.76
Nonthaburi	91.96	133,640	1,386	94.24	66.16	1.93	68.09
Bang Bua Thong	340.23	165,531	5,959	87.39	54.96	9.74	64.70
Mahasawat	207.73	189,057	5,770	91.86	61.62	2.35	63.97
Total	3,195.00	2,644,177	56,512	2,038.13	1,438.77	76.05	1,514.82

● Activities in Fiscal Year 2024



Minister of Interior's policy to maintain drinking water standards and service enhancement



Deputy Minister of Interior's policy to prioritize public interest and continue service enhancement





Clean Water Clinic



“Unite to Deliver Water to School” Project
in honor of His Majesty the King on the Auspicious
Occasion of His Majesty the King’s
6th Cycle Birthday Anniversary, 28 July 2024



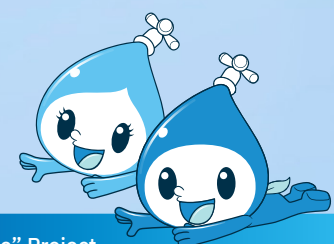
“Clean Drinking Water for Community”
Project in honor of His Majesty the King on the Auspicious
Occasion of His Majesty the King’s 6th Cycle Birthday
Anniversary, 28 July 2024



57 Years of MWA "Quality Water for Quality Living" to provide drinking water service for reducing expenses to the public



MWA associates with PWA to restore water systems in disaster-affected areas



"MWA Meets People" Project



"MWA Plumber for People" Activity



"MWA Water Family" Project



Volunteer activity to construct water control weir in honor of His Majesty the King on the Auspicious Occasion of His Majesty the King's 6th Cycle Birthday Anniversary, 28 July 2024



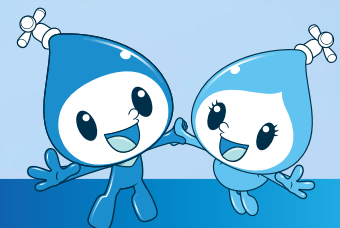


“Yod Nam & Friends” Activity, Season 2

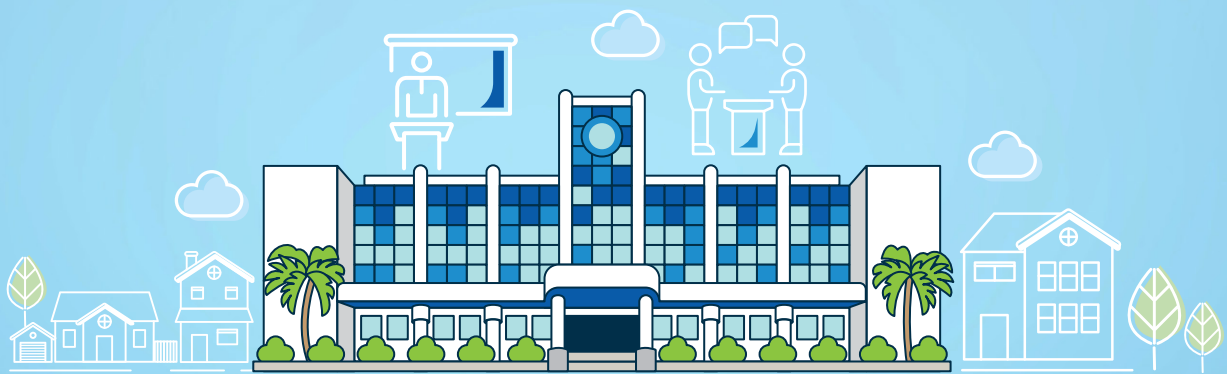
MOU between MWA and Britania to support equipment with MWA water conservation labels



MOC among the Bank of Thailand, Digital Government Development Agency (Public Organization), MEA, PEA, PWA, and the MWA regarding the use of information for water and electricity bill payments



MWA collaborates with the Department of Health to build confidence in water quality and deliver clean and safe water to the public



Implementation

of Corporate Governance Policy



Corporate Governance Policy

The Metropolitan Waterworks Authority commits to comply with the framework of good corporate governance in accordance with the international standards of the Organisation for Economic Co-operation and Development (OECD) and the State Enterprise Policy Office (SEPO). The Board of Directors of the Metropolitan Waterworks Authority pays attention to organizational management based on cooperate governance promoting transparency, verifiability, free from corruption, efficiency, and aiming to be the high performance organization. To ensure sustainable confidence of all stakeholder groups, the Corporate Governance Policy is formulated covering important issues as follows:



1. The role of public sector
2. The role of fair marketing
3. The equal rights of shareholders
4. The role of stakeholders
5. Information disclosure
6. The Board of Directors
7. Risk management and internal control
8. The code of ethics
9. Sustainability and innovation
10. Performance monitoring

In addition, the Metropolitan Waterworks Authority carries out corporate governance policy through performing in line with Corporate Governance Master Plan under the supervision of the Board of Directors and the Corporate Governance (CG) and Corporate Social Responsibility (CSR) Subcommittee in form of a performance report on a monthly basis in order to acknowledge suggestions and observations, including guideline solutions in case of problems or obstacles that may arise from operational issues.

Review in Compliance With Corporate Governance Guidelines and Principles

The Metropolitan Waterworks Authority regularly reviews Corporate Governance Policy Manual and other relevant policies on a yearly basis. Prior to starting the fiscal year, the review ensures the consistency with changes in policies and contexts under the supervision of the Board of Directors of the Metropolitan Waterworks Authority and the subcommittee assigned by the Board of Directors. The Steering Committee is comprised of each functional line of deputy governors to scrutinize appropriateness and completeness ensuring that the contents of Corporate Governance Policy are consistent with international standards.



Corporate Governance

Principles of the Metropolitan Waterworks Authority

The Metropolitan Waterworks Authority aims at efficiency and effectiveness of organizational management. The guidelines are formulated to operate justly and to promote equality while recognizing importance to balance all stakeholder groups, respecting to organization rules, regulations, and requirements, promoting transparency and verifiable operation in every work process. The Metropolitan Waterworks Authority adheres to 6 principles of the Corporate Governance consistent with the country's good corporate governance as follows:

1. The Rule of Law refers to fair rules and regulations applied to every party, developing equitable enforcement without double standard, supervision of compliance with rules, regulations, and timeframe without seeking illegitimate gains, operating within the bounds of respect for human right and freedom, and updating rules and regulations consistent with the current situation.

2. Virtue refers to adherence to good and right performing duties serving as a good role model for society, encouraging the people for self-improvement together, transforming Thailand into a society of integrity, sincerity, endurance, and discipline, and doing honest professions without supporting or engaging in any corruption, as well as preventing corruption in the organization.

3. Transparency refers to transparency in management and verifiable operation in every aspect such as clear and disclosable work systems, clear processes for verifying correctness, and accurate and transparent information disclosure directed to the public benefit in line with the times and situation.

4. Participation refers to an opportunity for employee participation in management relating to giving recommendations and decision-making in various matters, including allocation of corporate resources that affect business operations, employees, and owners through giving information, listening and expressing opinions, giving advice, consultation, collaborative planning, collaborative action, and controlled by stakeholders.

5. Accountability refers to an awareness of rights, duties, conscious responsibility, attentiveness, enthusiasm for problem-solving, offering a chance and readiness for verification and assessment that reflect the responsibility to stakeholders, as well as accepting the results arising from performing duties and business operations.

6. Efficiency & Effectiveness refer to efficient and effective management, use of worthwhile resources for the best interest as a whole, providing quality products and services that gain competitiveness and retain society and environment for lasting abundance as specified by key performance indicators and independent entity or individual recognized by society to act as an assessor.

Corporate Governance

Performance of the Metropolitan Waterworks Authority

The Metropolitan Waterworks Authority is committed to managing in the framework of Corporate Governance Policy and dealing with constantly changing situation in accordance with the government's policy on promoting good corporate governance in public administration and preventing and suppressing corruption and misconduct in the public sectors, and the Sixth Metropolitan Waterworks Authority Strategic Management Plan (2023 - 2027). Those ensure that the Metropolitan Waterworks Authority is a state-owned enterprise

carrying out activities according to an organizational mission while driving the organization to achieve a vision stated "Quality Water for Quality Living" regarding the performance in corporate social responsibility as a key factor for organization development toward sustainability.

The corporate governance activities of the Metropolitan Waterworks Authority prioritize promoting ethics and morals at all levels of employees through different learning processes, such as trainings, study visits, an awareness campaign on public relations medias such as circular letters, posters, video clips. Moreover, employee engagement activities through the establishment of the Metropolitan Waterworks Authority Corporate

Governance Council aim to promote employees who are selected as a member of the council involving in communication and serving as spokespersons in promoting knowledge and understanding of corporate governance in their own departments, as well as creative participation in monitoring, surveilling, and reporting suspicions of corruption occurring in the organization.

In addition, the Metropolitan Waterworks Authority is committed to recognize the significance of prevention and anti-corruption through doing important activities. For example, the Board of Directors of the Metropolitan Waterworks Authority, subcommittees, all executives and employees mutually make Declaration of Intention “MWA – Transparency, Accountability, Anti-corruption on and Efficiency” to express their

intention on honesty and integrity in management. Moreover, the Metropolitan Waterworks Authority issues an announcement on the policies and practice guidelines for preventing conflict of interest, use of internal information, and connected transactions to prevent any conflict of interest occurring between an employee’s personal interests and collective interests of the Metropolitan Waterworks Authority. The Metropolitan Waterworks Authority also establishes the Metropolitan Waterworks Authority Anti-Corruption Center to promote ethics, morals, and anti-corruption and announces the policy regarding reporting on corruption and protecting whistleblowers to ensure that activities follow set procedures while protecting the confidentiality of personal data.

Remuneration of the Governor and Senior Executives

- The Governor of the Metropolitan Waterworks Authority is recruited under the employment contract for a term not over four years. The remuneration is based on the consideration of the Board of Directors of the Metropolitan Waterworks Authority in terms of knowledge, competence, duties and responsibilities, and organization’s ability to pay under specified remuneration framework.
- The remuneration of senior executives (Deputy Governors and equivalent) is based on the wage structure of the state enterprise contract workers (53 tiers). In addition, the remuneration includes monetary and non-monetary compensation, including other benefits pursuant to rules and regulations of the Metropolitan Waterworks Authority.

Unit: Million Baht

Item	2024	2023	2022	Difference in 2024 - 2023 Increased (Decreased)	
				Million Baht	Percent
Remunerations of the Governor	2.54	4.85	4.71	(2.31)	(47.63)
Remunerations of Deputy Governors and Equivalent	16.84	23.10	21.02	(6.26)	(27.10)
Total	19.38	27.95	25.73	(8.57)	(30.66)

Notes: Remuneration for Fiscal Year 2024 (1 October 2023 - 30 September 2024) decreased from the previous year due to the following:

1. The Governor’s term ended on 30 March 2024, and a new appointment has not yet been made.
2. Deputy Governors and equivalent executives retired on 1 October 2023, with successors appointed on 1 May 2024; as a result, some remuneration figures reflect partial-year service.

Prevention of Conflict of Interest, Use of Internal Information and Connected Transactions

The Board of Directors of the Metropolitan Waterworks Authority recognizes the importance of preventing any conflict of interest occurring between an employee's personal interests and collective interests of the Metropolitan Waterworks Authority. As a result, policies and practice guidelines are formulated to prevent the conflict of interest, use of internal information, and connected transactions, including relevant rules and regulations. Both policies and practice guidelines are reviewed regularly on a yearly basis to ensure that shareholders' rights are managed transparently and efficiently according to good corporate governance principles and practice guidelines. The Metropolitan Waterworks Authority has disseminated those policies and practice guidelines in Corporate Governance Manual of the Metropolitan Waterworks Authority for employee's acknowledgment and compliance.

1. Conflict of Interest Prevention Policy and Practice Guidelines

The following actions or situations are considered as a conflict of interest:

- (1) Use of the Metropolitan Waterworks Authority's information to seek benefits for self or other parties.
- (2) Being a party to a contract or holding a stake in the contract made with the Metropolitan Waterworks Authority or operating business with a competitive nature to the Metropolitan Waterworks Authority occurring an employee's personal interests conflicts with or contradicts the interests of the Metropolitan waterworks Authority or impacts discretionary decision-making in the duty of employee as employees of the Metropolitan Waterworks Authority.
- (3) Holding the position as managing director, manager, major shareholder, consultant, representative, employee or contract worker of a private business supervised, controlled or inspected by the Metropolitan Waterworks

Authority occurring an employee's personal interests conflicts with or contradicts the interests of the Metropolitan Waterworks Authority or impacts discretionary decision-making in the duty of employee as an employee of the Metropolitan Waterworks Authority unless assigned to do so in writing by the Metropolitan Waterworks Authority.

The actions in (1), (2), and (3) performed by the employee's spouse are considered as if performed by the employees themselves.

- (4) Accepting assets or any other benefits from people apart from assets or benefits that shall be gained under the law, rules or regulations as issued by virtue of the provisions of the law, except in case acceptance from a parent, descendant or relative according to tradition or ethics and status, by which acceptance according to ethics has a price or value of acceptance from each individual and each occasion shall not exceed that prescribed by the National Anti-Corruption Commission or an act of giving to ordinary people.
- (5) Consenting for or conspiring with a member of one's own family to accept assets or any other benefits that have a price or value of acceptance from each person and each occasion, which exceeds that prescribed by the National Anti-Corruption Commission from a subordinate or a connected person in performing one's duties.
- (6) Giving assets or any other benefits or consenting for or conspiring with a member of one's own family for giving the assets or any other benefits with price or value of giving to each individual and each occasion which exceed that prescribed by the National Anti-Corruption Commission for acceptance of assets or any other benefits to a superior or family member of a supervisor or a connected person in performing one's duties.

In this regard, the superior must not appoint or assign persons who may have conflict of interest in any matter as a director, a judge, or a person who involved in providing information, giving opinions, or having authority to give orders on that matter.

2. Use of Internal Information Policy and Practice Guidelines

The employees are obliged to retain internal information of the Metropolitan Waterworks Authority that are informed from performing duties and are prohibited from using internal information to seek illegitimate gains or benefits for themselves or other people, whether directly or indirectly, unless the use of information in making complaints or inspecting complaints to ensure transparent and fairness according to corporate governance principles, and use in education or research and development for the organization interests and the public. In any case, use of internal information must take place within the scope of assigned duties and responsibilities and be in compliance with the law, regulations, rules, orders or practice guidelines relating to internal information.

3. Connected Transactions Policy and Practice Guidelines

Connected transactions mean transactions made by between the Metropolitan Waterworks Authority and the connected persons with transaction values according to the criteria set by the Metropolitan Waterworks Authority. Such transactions include making contracts or agreements for acquisition or disposal of assets, renting or giving rent of assets, giving or receiving services, giving or receiving financial assistance, including creating or disclaiming rights in the aforementioned actions, unless transactions are proved to be fair and do not lead to any benefit transfers. To enter into connected transactions, cautiousness, honesty, and integrity are required along the correct procedures without the involvement of stakeholders in decision-making, and done in the best interest of the Metropolitan Waterworks Authority as if the transactions are made with external parties, and avoiding the connected transactions that may cause conflict of interest.

4. Reporting in Compliance With the Policies and Practice Guidelines for Preventing Conflicts of Interest, Use of Internal Information, and Connected Transactions

The Board of Directors, executives, employees, and contract workers are defined to disclose information in order to prevent conflicts between individual interests and collective interests, whether directly or indirectly through reporting the conflicts of interest, use of internal information, and connected transactions according to specified forms to the superiors following the chain of command every fiscal year. During the fiscal year, any action is considered as a conflict of interest or a connected transaction that must be reported to the superior every time. The Internal Audit Office shall be a responsible unit to summarize the report with regard to conflicts of interest, use of internal information, and connected transactions of the entire organization occurring during the fiscal year and reporting to the Governor and the Board of Directors of the Metropolitan Waterworks Authority respectively by 30 September of each year.

In the fiscal year 2024, the personnels of the Metropolitan Waterworks Authority comprising the Board of Directors of the Metropolitan Waterworks Authority (including the Governor), employees, and other contract workers for a total of 4,095 persons reports the conflict of interests, which 4,095 persons have no conflict of interest.

For the procurement process, the Metropolitan Waterworks Authority makes an inspection of direct and indirect interests of those submitting bids either ordinary person or juristic persons by considering their relationships in terms of administration and capital or cross-relationships between administration and capital. The Metropolitan Waterworks Authority strictly performs in pursuant to the Government Procurement and Supplies Management Act, B.E. 2560 (2017) and the Regulation of the Ministry of Finance on Public Procurement and Supplies Administration, B.E. 2560 (2017) as well as other related laws and regulations.

Information on Important Securities Held by Directors Related to the Metropolitan Waterworks Authority and Connected Transactions With the Interest of Metropolitan Waterworks Authority

The Metropolitan Waterworks Authority prepares the disclosure report on securities (shares) and connected transactions for the MWA Board of Directors reporting to the public as the following details:

List of Directors	Holding Juristic Person Securities (Shares) Related to MWA Core Business	The MWA Related Juristic Person	Director/Senior Executive in State Enterprises/Other Juristic Persons		
			Chairman	Director	Executive
Chairman					
1. Mr. Chaiwat Chuenkosum	-	-	-	A	B
Director and Independent Director					
2. Mr. Chodnarin Koedsom	-	-	-	-	C
3. Lieutenant General Sumat Promtrut	-	-	-	-	D
4. Mr. Sanit Khowsa-ard	-	-	-	E	-
5. Police Captain Piya Raksakul	-	-	-	F	G
6. Miss Piang-or Loahavilai	-	-	-	H	-
7. Mr. Nitat Maneesilasan	-	-	-	I	J
8. Police Lieutenant General Krisda Kanchana-alongkorn	-	-	-	-	-
9. Associate Professor Chaiwat Oottamakron	-	-	-	K	-
10. Miss Trithip Sivakriskul	-	-	-	L	-
11. Mr. Chaitat Saetang	-	-	-	M	N
Director Representing the Ministry of Finance					
12. Mr. Kiatnarong Wongnoi	-	-	O	P	-
Director and Governor					
13. Miss Suwara Thawitchasri	-	-	-	-	-

- A : Board Member, National Science and Technology Development Agency
- B : Governor of Nakhon Ratchasima Province
- C : Governor of Songkhla Province
- D : Commander, Counter Terrorism Operations Center, Royal Thai Armed Forces Headquarters
- E : Director, Metropolitan Electricity Authority
- F : Director, Thai Oil Public Company Limited
- G : Deputy Secretary-General, Southern Border Provinces Administrative Center
- H : Director, Wiang Kosai Development Company Limited
 Director, Chiang Mai Food Polis Company Limited
 Director, Beidou (Thailand) Company Limited
 Director, General Hospital Products Public Company Limited
 Director, Rail Technology Research and Development Agency (Public Organization)
 Director, Metropolitan Electricity Authority
- I : Independent Director, Audit Committee, and Nomination Committee, Capital Link Credit Foncier Limited
 Independent Director, Audit Director, Nomination Director, and Risk Oversight Director, Capital Link Financial Group Public Company Limited
 Director, Third Dragon Company Limited
 Director, Happy Serve Company Limited
 Director, Little Hill Place Company Limited
- J : Chief Executive Officer (CEO), Openserve Company Limited
- K : Director, Marketing Organization
 Managing Director, Origami Wash and Dry Company Limited
- L : Director and Audit Committee, Super Energy Corporation Public Company Limited
 Director, Airports of Thailand Public Company Limited
- M : Director, CGC Group
 Director, My Wallet Company Limited
 Director, CGSE Company Limited
 Expert Member of the Board of Directors, Expressway Authority of Thailand (EXAT)
- N : Chief Executive Officer (CEO), Chaityagarn Consulting Company Limited
- O : Chairman, the Syndicate of Thai Hotels and Tourists Enterprises Limited
- P : Director, Krungthai Computer Services Company Limited

Notes: - The Metropolitan Waterworks Authority has no subsidiaries/affiliated companies.

- Information on the tenure of the Board of Directors as specified in the Board of Directors' profiles of the Metropolitan Waterworks Authority Board of Directors

Definitions

- (1) **Holding Juristic Person Securities (Shares) Related to MWA Core Business** refers to holding of securities (shares) by the MWA director in juristic person related to the MWA core business in the proportion more than 10 percent of all voting shares.
- (2) **Juristic Persons Related to MWA Director** refers to a juristic person that is expected to have transactions related to the Metropolitan Waterworks Authority in which the spouse, underage child/adopted child of the MWA directors having control authority, such as holding voting shares more than 50 percent of all voting rights or having control authority over the majority of votes in the shareholder meeting or having control authority to appoint or remove directors at least one half of all directors.
- (3) **Director/Senior Executive in Other State Enterprises Juristic Persons** refers to the MWA director holding a director or senior executive in other state enterprises or juristic persons (See the list of other state enterprises/juristic persons in which each director holding a position on page 28 - 38 of an Annual Report).

Structure of the Metropolitan Waterworks Authority Board of Directors

1. The Metropolitan Waterworks Act, B.E. 2510 (1967), and its amendments stipulate for the MWA to have a board of directors known as the MWA Board of Directors that consists of the Chairman of the MWA Board of Directors and other directors numbering at least nine people and not more than thirteen people, in addition to the Governor.
2. The Standard Qualifications for State Enterprise Directors and Employees Act, B.E. 2518 (1975), and its amendments stipulate for the Board of Directors to be appointed by the Cabinet and for each of its terms to last three years, with board members being eligible for reappointment. (In cases where any director leaves office, a new director will be appointed in his place, and said appointee will remain in office for only the rest of the term of the person whom he replaces.)

In the fiscal year 2024, the Board of Directors of the Metropolitan Waterworks Authority includes 15 members* (including the Chairman and the Governor) as follows:

- There are 9 members from the list of State Enterprise Director's Pool (excluding the Chairman and the Governor).
- There are 11 independent directors.

(*Two directors in the MWA Board of Directors left office due to resignation, namely, 1) Mr. Chuchat Rakchit, who resigned effectively as of 15 May 2024; and 2) Mr. Wutthikrai Liwiraphan, who resigned effectively as of 18 June 2024.)

All directors should possess knowledge while their experiences are useful to the Metropolitan Waterworks Authority in different professional fields; for instance, engineering, law, business administration, public administration, information technology, etc. The members of the Board of Directors' of the Metropolitan Waterworks Authority are recruited pursuant to the qualifications as stipulated in the Metropolitan Waterworks Authority Act, B.E. 2510 (1967) and corporate governance principles. The State Enterprise Policy Office and the Metropolitan Waterworks

Authority represented by the top executives have specified Competencies and Skills Matrix for the Board of Directors of the Metropolitan Waterworks Authority in compliance with corporate missions and strategies regarding 4 areas such as finance, accounting, law, and information technology, in addition to the expertises required by the organization, which are revised on annually basis. The Skill Matrix is used to consider an appointment of the directors of the Metropolitan Waterworks Authority. However, the numbers of Skill Matrix must not exceed the entire members of the Board of Directors.

Governance of the Board of Directors and Executives

Pursuant to the Metropolitan Waterworks Authority Act, B.E. 2510 (1967) and the good corporate governance principles, the duties and responsibilities between the Board of Directors and the Executives are clearly separated. The Board of Directors has duties to set policies, control, supervise organizational business, monitor operational outcomes, and assess the Governor's performance. While the Governor has duties to manage and control organizational business in compliance with laws, regulations, and policies set by the Board of Directors and report to the Board of Directors.

Meetings

The MWA Board of Directors schedules meetings in advance throughout the entire fiscal year, with 1 meeting scheduled to take place each month and special agendas additionally specified as appropriate. Accordingly, the Office of the MWA Board of Directors functions as the secretary to send out meeting invitation letters, meeting agendas and rules along with the meeting documents. In the fiscal year 2024, meetings were held according to their normal agenda items every month. Since the Cabinet passed its resolution on 9 January 2024, the MWA is authorized to be appointed with the MWA Chairman of the Board and other directors by a total of 14 people.

(The meeting attendance details of each director are shown in page 110 - 111 of the Annual Report.)

The Board of Directors receives meeting agenda items and meeting documents ahead of each meeting by an average of at least 7 days. Thus, the board members have sufficient time to study information before each meeting starts. At a board meeting, executives on the level of deputy governors are also invited to attend the meeting in order to provide useful information to aid the consideration of the MWA Board of Directors, and to also receive observations or policies from the MWA Board of Directors to ensure correct and swift implementation, except in certain agenda items, by which meetings are held only with the attendance of the Board of Directors to ensure the independence of the MWA Board of Directors in making its considerations.

The Board of Directors widely express their opinions with an independent viewpoint in every meeting, in case any member who has a stake in a particular agenda shall not be present at the meeting until the consideration of that agenda is completed. In addition, the minutes of meeting containing opinions/ observations are made in writing and certified minutes of meeting are kept for verification of directors and involved people.

Moreover, the Board of Directors of the Metropolitan Waterworks Authority also participated in operational meetings and seminars in associated with executives to set the direction of strategic operations and future work plans of the Metropolitan Waterworks Authority.

Appointment of the Committees/Subcommittees

In the fiscal year 2024, the Board of Directors of the Metropolitan Waterworks Authority appointed 13 committees/subcommittees to screen important work processes before making proposals to the Board of Directors. The details on composition and scope of duties and responsibilities of each committee are shown on pages 99 - 109 of the Annual Report. In addition, the subcommittees have provided the Charters for using as practice guidelines according to their duties and responsibilities pursuant to the organization's Corporate Governance Policy.

Remunerations of the Board of Directors of the Metropolitan Waterworks Authority and Committees/Subcommittees Appointed by the MWA Board of Directors

Remuneration and meeting attendance fee are provided pursuant to the Cabinet Resolution on 24 April 2019, except for the Audit Committee in compliance

with the Regulations of the Ministry of Finance on the Audit Committee and Internal Audit Unit of State Enterprises B.E. 2555 (2012).

1. Remuneration/Meeting Attendance Fee

1.1 For the Board of Directors of the Metropolitan Waterworks Authority, the directors shall receive monthly remuneration and meeting attendance fee. The burden of the tax will be borne by the directors as the following details:

- The directors shall receive monthly remuneration no more than 10,000 baht per month. when directors do not hold the office for a full month, remuneration shall be paid based on Pro-Rata basis.
- The Chairman shall receive monthly remuneration at 2 times monthly remunerations of directors (20,000 baht per month).
- Only directors who attend the meeting shall receive meeting attendance fee once per month but no more than 20,000 Baht per person per month and no more than once per month. The Chairman shall receive an additional 25 percent of the director rate. If deemed appropriate, meeting attendance fee will be paid more than once per month but no more than 15 times per year.

1.2 The Board of Directors of the Metropolitan Waterworks Authority and other directors who are not state enterprise employees and appointed to serve as directors in committees/subcommittees/working groups shall receive meeting attendance fee per attendance at an equal amount at a rate of no more than 0.5 percent of state enterprise director rate, which serve no more than 2 committees and no more than once per month per committee. The chairman shall be paid an additional 25 percent of the director rate unless the law, regulations or Cabinet Resolutions stipulate other remuneration rate or criteria.

If those other directors who are state enterprise employees can be defined as the performance of their duties due to the state enterprise practices, those employees shall receive no meeting attendance fee due to performing their duties.

1.3 As the Audit Committee of the Metropolitan Waterworks Authority shall receive monthly lump sum remuneration equal to meeting attendance fees of the Board of Directors. The Chairman of the Audit Committee shall receive an additional 25 percent of the remuneration even in months in which no meetings held. When directors who hold the office less than a full month, a remuneration shall be paid based on Pro-Rata basis.

1.4 The Relations Affairs Committee of the Metropolitan Waterworks Authority is a committee under state enterprise labor relations law. The scope of duties is to support works of the Board of Directors of state enterprise, which shall receive meeting attendance fee once per month at a rate of 0.5 percent of the Board of Directors of state enterprise only those who are in a meeting. If a director appointed by a position absent from a meeting assigns a representative to attend the meeting when the letter or evidence is clearly made, that representative shall receive meeting attendance fee.

1.5 Each director is required to attend at least 75 percent of total meetings held in each fiscal year.

2. Bonus

The Chairman and directors are entitled to receive the bonus according to the regulations set by the Cabinet.

Bonus allocation shall be made when the State Audit Office of the Kingdom of Thailand has audited and certified the financial statements as well as an approval for bonus allocation is granted by the State Enterprise Policy Office (SEPO). Thus the Metropolitan Waterworks Authority shall request for net profit allocation as bonus for the Board of Directors, subject to the following conditions:

2.1 Rate of bonus payment to the Board of Directors of state enterprises is considered based on profits for bonus allocation as follows:

Profit for Bonus Allocation (Million Baht)	Bonus (Baht/Person)
No more than 100	3 percent of profit for bonus allocation but no more than 60,000 Baht per person
From 100 to 300	65,000
More than 300 to 500	70,000
More than 500 to 700	75,000
More than 700 to 1,000	80,000
More than 1,000 to 2,000	90,000
More than 2,000 to 5,000	100,000
More than 5,000 to 8,000	110,000
More than 8,000 to 11,000	120,000
More than 11,000 to 13,000	130,000
Additional profit at intervals of every 2,000	Additional 10,000

The Chairman and Vice Chairman shall receive more bonus than directors by 25 percent and 12.50 percent respectively.

- 2.2 State enterprise that makes bonus allocation for employees when earning profit for bonus allocation shall pay bonus to directors based on performance appraisal as follows:

Performance Appraisal (Score)	Directors' Bonus Amount (Baht/Person/Year)
5.00 (Excellent)	Base + 100 percent of the base
4.50	Base + 75 percent of the base
4.00 (Very Good)	Base + 50 percent of the base
3.50	Base + 25 percent of the base
3.00 (Good)	Base
2.50	Base - 25 percent of the base
2.00 (Fair)	Base - 50 percent of the base
1.50	No bonus
1.00 (Improvement Required)	No bonus

Criteria

1. Bonus payment to directors shall be made when the Metropolitan Waterworks Authority shall remit net profit allocation as government revenue to the Ministry of Finance or an approval is granted by the State Enterprise Policy Office to remit installments within a specified time.

2. The Method of net profit calculation for directors' bonus allocation shall be made as specified by the State Enterprise Policy Office, Ministry of Finance.

3. The burden of the tax shall be borne by the directors who receive bonus.

During an accounting period, if a director is absent from the meeting more than 3 months, bonus shall be paid according to the following criteria:

- If a director is absent from a meeting more than 3 months but less than 6 months, bonus payment is reduced by 25 percent.
- If a director is absent from a meeting more than 6 months but less than 9 months, bonus payment is reduced by 50 percent.
- If a director is absent from a meeting more than 9 months, bonus payment is reduced by 75 percent.



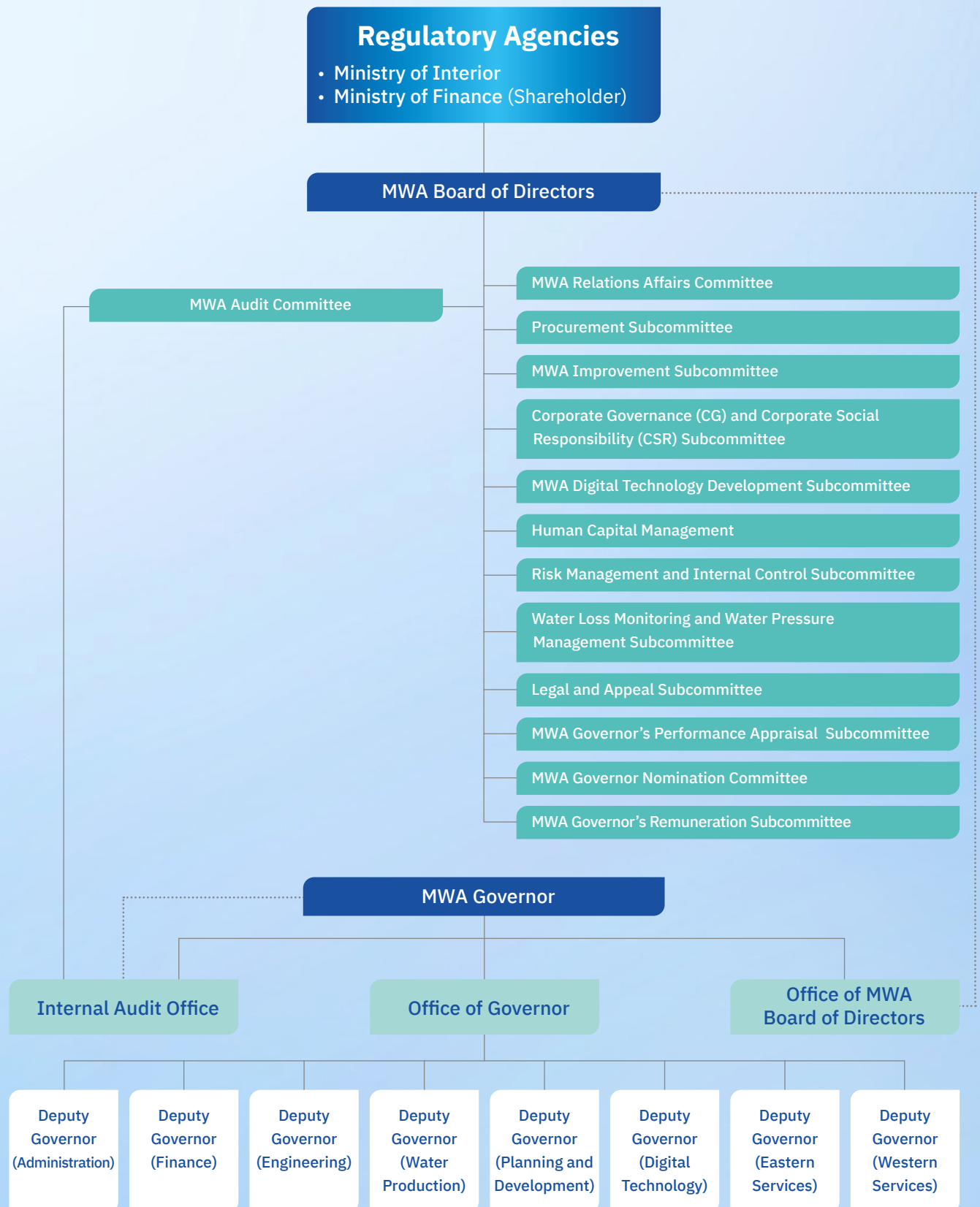
● Oversight of Compliance to Laws, Regulations, and Requirements (Compliance Unit)

The Metropolitan Waterworks Authority provides oversight to ensure compliance to laws, regulations, and requirements in the form of “Compliance Unit” including Deputy Governor (Administration) serves as Chairman, Assistant Governor (Internal Audit Office) serves as an advisor to the Board of Directors, Assistant Governors of all functional lines and Risk Management Department Director of serve as directors, and Legal Department Director serves as a director and secretary. The Compliance Unit has duty and power to supervise and monitor the operations of the Metropolitan Waterworks Authority in compliance with laws and related regulations in a systematic manner, including to monitor, study, and gather both internal and external laws and regulations relating to the Metropolitan Waterworks Authority as practice guidelines and to report compliance results to the Governor for acknowledgment within the specified time.

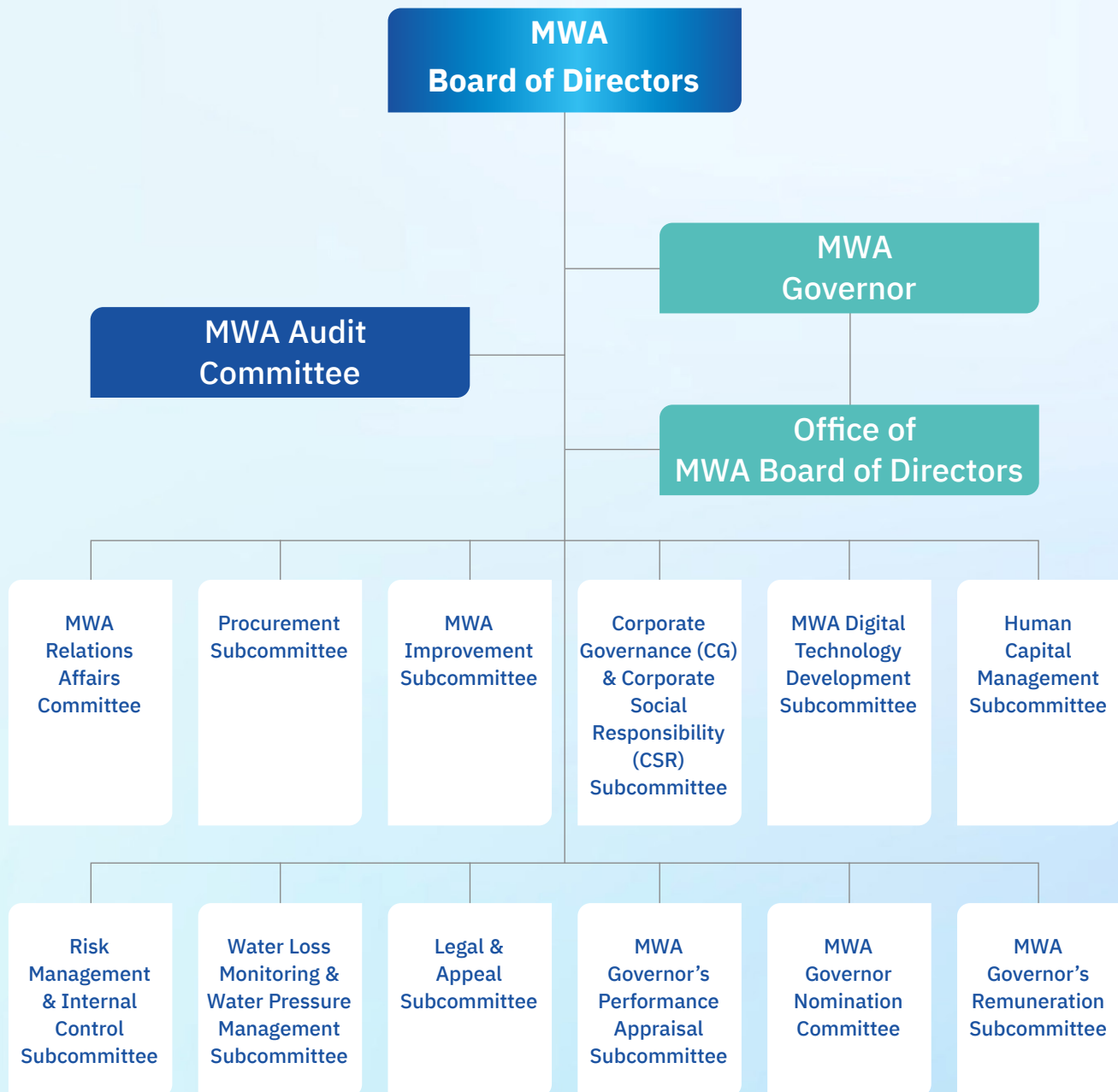
In the fiscal year 2024, the Compliance Unit plays a supervising role in compliance with significant laws, regulations, and requirements of the Metropolitan Waterworks Authority as follows:

1. Compile and disseminate new laws/regulations relating to the operations of Metropolitan Waterworks Authority. Performance results demonstrate an examination and collection of laws as well as dissemination and notification of new laws/regulations of 36 issues to several departments and the Governor for acknowledgment and compliance. In addition, the contents of new laws/regulations are disclosed through the Compliance Unit website in the Intranet as well.
2. Supervise and monitor the operations of the Metropolitan Waterworks Authority in compliance with laws and regulations relating to significant work processes.
3. Consider and approve the registration lists of legal requirements and business continuity regulations, registration details of legal requirements and business continuity regulations, risk assessment results and opportunities, and compliance assessment to legal requirements and business continuity regulations to support business continuity system certification according to ISO 22301: 2019 standard.
4. The Compliance Unit is responsible for requesting for cooperation for every work department to prepare meeting agendas regarding communication of new laws/regulations that are related to the operations of the MWA whenever department-level meetings are held.
5. The Compliance Unit has set guidelines for holding meetings on supervising compliance with department-level regulations in the 2024 fiscal year, by which each department held meetings to consider and acknowledge important matters, including reports of performance in compliance with new laws/regulations related to the various agencies within each department, reports of the performance of agencies that remain non-compliant with the related laws/regulations as recommended by the Compliance Unit, reports on performance related to the business continuity management system based on corrective action requests (CARs), and reports on compliance with related laws and regulations concerning the important work processes of the MWA in fiscal year 2024.

The Metropolitan Waterworks Authority Corporate Governance Structure



● MWA Board of Directors Structure



Appointment of Committees and Subcommittees

(Information as of 31 December 2024)

1. MWA Audit Committee

1.	Lieutenant General Sumat	Promtrut	Chairman
2.	Mr. Kiatnarong	Wongnoi	Member
3.	Associate Professor Chaiwat Oottamakorn		Member
4.	Assistant Governor (Internal Audit Office)		Secretary

Powers and Duties

The Audit Committee has duties and responsibilities according to the requirements specified by the Ministry of Finance and as assigned by the MWA Board of Directors as follows:

- 1) Prepare and review the suitability of the Audit Committee Charter in compliance with the scope of responsibility in MWA operations approved by the MWA Board of Directors at least once a year, communicate to all people involved and publish on the MWA official website.
- 2) Arrange the assessments of composition, qualification, competency, and skills matrix of the MWA Audit Committee at least once a year or when changing in committee members, and present to the MWA Board of Directors for acknowledgment.
- 3) Report performance related to the internal audit work of the Audit Committee on a quarterly and annual basis, with such reports being signed by the Chairman of the Audit Committee and presented to the MWA Board of Directors. In addition, the Audit Committee's annual performance reports are to be presented to the Ministry of Interior, the State Enterprise Policy Office (Ministry of Finance), in addition to being disclosed in the MWA's annual reports or the MWA official website.

In the event that the MWA does not have an Audit Committee and/or MWA Board of Directors, the Assistant Governor (Audit Office) should hold a written discussion with the State Enterprise Policy Office (SEPO) regarding the guidelines for various submissions to the regulatory agencies.

- 4) Reports of issues that require urgent action by the MWA Board of Directors should be prepared as soon as such situations arise and be reported to the Ministry of Interior for further action according to the relevant powers and duties.
- 5) Prepare and review operating manual of the MWA Audit Committee used as practice guidelines consistent with the Audit Committee Charter and actual practices at least once a year.
- 6) Prepare and review an annual action plan covering duties and responsibilities.
- 7) Disclose conflict of interest according to the criteria and practice guidelines on conflict of interest.
- 8) Audit the efficiency and effectiveness of internal control, risk management, and corporate governance processes and the anti-corruption risk management system.
- 9) Conduct audits to ensure that the MWA correctly and reliably reports its finances by auditing such topics as the selection and adoption of accounting policies, accounting estimates and information disclosures in financial reports, and continuity of operations, including significant changes, complex transactions, and/or irregular transactions, etc.

Accordingly, the Audit Committee should supervise to ensure that the MWA submits its annual reports and reports on the audit findings of the State Audit Office of the Kingdom of Thailand to the relevant agencies as well as disclose them to the public, including publishing them electronically within 30 days after the date of receiving such audit finding reports from the State Audit Office of the Kingdom of Thailand.

- 10) Audit to ensure that the MWA has a good internal audit system and to consider the structure and independence of the Internal Audit Office, including assess performance, problems, obstacles, and provide suggestions for improvement guidelines.
- 11) Audit and approve long-term and annual audit plans of the Internal Audit Office.
- 12) Audit and approve the Charter of Internal Audit Office prior to submitting to the MWA Board of Directors for acknowledgment at least once a year.
- 13) Audit and approve the internal audit manual of the Internal Audit Office.
- 14) Audit and consider the audit report on assurance and consulting, including the report on the audit results of various organizational performance and provide further opinions/suggestions regarding the policy on value-added creation to the organization prior to presenting to the MWA Board of Directors for acknowledgment to ensure that the MWA provides effective processes and responsible departments implement efficient performance according to 7 Core Business Enablers as follows:
 - 14.1) Corporate Governance and Leadership
 - 14.2) Strategic Planning
 - 14.3) Risk Management and Internal Control
 - 14.4) Stakeholder and Customer Management
 - 14.5) Digital Technology
 - 14.6) Human Capital Management
 - 14.7) Knowledge and Innovation Management
- 15) Consider an appointment, transfer, removal, promotion hierarchy, promotion position, and performance evaluation of Internal Auditors of the Internal Audit Office as follows:
 - 15.1) For Assistant Governor (Internal Audit Office) and Internal Auditor Level 8 of the Internal Audit Office, the MWA Audit Committee shall hold a discussion with the Governor before presenting to the MWA Board of Directors for consideration.
 - 15.2) For Internal Auditors Level 6 - 7 of the Internal Audit Office, Assistant Governor (Internal Audit Office) shall hold a discussion with the Governor and present to the Audit Committee for consideration.
 - 15.3) For Internal Auditors Level 3 - 5 of the Internal Audit Office, the Assistant Governor (Internal Audit Office) shall hold a discussion with the Governor and present to the MWA Audit Committee for acknowledgment.
- 16) Consider the sufficiency and appropriateness of human resources by considering the Internal Audit Office's internal auditor recruitment plan, internal auditor retention plan, and promotion plan to support internal auditors to obtain professional certificate, including other resources of the Internal Audit Office whether or not the Governor determines; for instance, budgeting, resource sufficiency to perform audit plans, sufficient trainings for internal auditors, and succession plan for Assistant Governor (Internal Audit Office), etc.
- 17) Hold a discussion with auditors regarding scope and guidelines of audit, audit results, findings in financial audit, and suggest to review or audit any necessary transaction, in addition to hold special discussion with auditors in varied necessary issues without attendance of executives or unrelated parties at least once a year. If the Auditor is not the State Audit Office of the Kingdom of Thailand, the Audit Committee should select and determine the remunerations of the Auditor and make recommendations to the MWA Board of Directors.
- 18) Discuss in a formal meeting with executives to support the Audit Committee understand MWA business, risk management, and internal control at least once a year in varied topics relating to each meeting agenda while regular discussion with some executives; for instance, Deputy Governor (Finance), Legal Department Director, Assistant Governor (Internal Audit Office), etc.

- 19) Hold joint discussions with other relevant sub-committees to enable exchanges of information related to risk management, internal control, and good corporate governance.
- 20) Audit the MWA performance to ensure compliance with laws, regulations, requirements, orders, announcements, work procedures, and criteria relating to the MWA operations.
- 21) Audit to ensure that the written code of conduct for executives, employees, and contract workers acknowledged by all executives and employees, and communicate an importance of ethics, code of conduct, and guidelines of desirable behaviors.
- 22) Consider connected transactions or transactions that may cause conflict of interest or corruption affecting the MWA performance, including an audit report occurring conflict of interest transactions and relevant reports.
- 23) Other responsibilities:
 - 23.1) Supervise and oversee as requested by the MWA Board of Directors.
 - 23.2) Arrange for special audit as necessary and hire a consultant or an expert as appropriate.
 - 23.3) Oversee and monitor management of damage prevention process, improvement, and recommendation of the Internal Audit Office on information system security.
 - 23.4) Support the oversight of complaint handling.
 - 23.5) Monitor performance in compliance with observations or suggestions as given by Ministry of Interior, Ministry of Finance, State Enterprise Policy Office, State Audit Office of the Kingdom of Thailand, and the MWA Audit Committee.

2. MWA Relations Affairs Committee

Mr. Sanit	Khowsa-ard	Chairman
Employer's Representatives:		
1. Deputy Governor (Eastern Services)		Member
2. Deputy Governor (Digital Technology)		Member
3. Deputy Governor (Administration)		Member
4. Deputy Governor (Water Production)		Member
5. Deputy Governor (Engineering)		Member
6. Deputy Governor (Western Services)		Member
7. Deputy Governor (Finance)		Member
8. Deputy Governor (Planning and Development)		Member
9. Assistant Governor (Human Resource Management)		Member
Employee's Representatives:		
1. Acting Sub Lieutenant Chaiyuth	Homvong	Member
2. Mr. Marut	Puekpong	Member
3. Mr. Prawech	Chamchaloem	Member
4. Mr. Siwapong	Wanna	Member
5. Mr. Jaktree	Mesombut	Member
6. Mr. Wanna	Sreesod	Member
7. Mr. Prayad	Jitreechow	Member
8. Mr. Kittisak	Chumwaengwapee	Member
9. Mr. Patompong	Ruenloang	Member
10. Welfare and Relations Affairs Department Director		Secretary
11. Welfare and Labor Relations Division Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of MWA Relations Affairs Committee in compliance with the relevant rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Perform duties according to Section 23 of the State Enterprise Labor Relations Act, B.E. 2543 (2000).
 - 2.1 Provide suggestions on improvement of MWA operational efficiency, promote and develop labor relations.
 - 2.2 Seek reconciliation and conflict resolution within the MWA.
 - 2.3 Consider and improve operating rules and regulations useful to MWA employers and employees.
 - 2.4 Provide advice or discussion for problem-solving according to complaints of employees or labor union of MWA, including the complaint on disciplinary punishment.
 - 2.5 Provide advice or discussion for an improvement of employment conditions.

3. Procurement Subcommittee

1.	Police Lieutenant General Krisda	Kanchana-alongkorn	Chairman
2.	Mr. Chodnarin	Koedsom	Vice Chairman
3.	MWA Governor		Member
4.	Miss Nattakarn	Kongkaew	Member
5.	Deputy Governor (Engineering)		Member
6.	Deputy Governor (Administration)		Member
7.	Assistant Governor (Project Management Office)		Secretary
8.	MWA Expert Level 9 [Deputy Governor (Engineering)]		Assistant Secretary
9.	Project Management Department Director		Assistant Secretary
10.	Procurement and Supplies Department Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of Procurement Subcommittee in compliance with the relevant rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize the subjects for approval of supplies procurement and hiring, hiring of consultants, engineering design and construction supervision under the jurisdiction of the MWA Board of Directors prior to presenting to the MWA Board of Directors.
- 3) Scrutinize the changes of procurement contract or agreement, suspension or reduction fines for contract parties, and work schedule extension according to contract or agreement under the jurisdiction of the MWA Board of Directors prior to presenting to the MWA Board of Director.
- 4) Monitor and expedite procurement undertaking and management of various contracts as deemed appropriate, and provide performance reports at least once a quarter.
- 5) Scrutinize and revise the draft laws, regulations, and rules relating to the MWA procurement suitable to current operations prior to presenting to the MWA Board of Directors for consideration and informing the relevant agencies as specified in the law.
- 6) Provide consultation and/or recommendation on problem-solving solutions and obstacles of procurement undertaking/contract management under the jurisdiction of the MWA Board of Directors.
- 7) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

4. MWA Improvement Subcommittee

1.	Miss Trithip	Sivakriskul	Chairman
2.	Police Lieutenant General Krisda	Kanchana-alongkorn	Vice Chairman
3.	Mr. Somkiat	Tankittiwat	Member
4.	MWA Governor		Member
5.	The Representatives From Office of the National Economic and Social Development Council (Ms. Varinporn Noradechanont)		Member
6.	Deputy Governor (Planning and Development)		Member
7.	Assistant Governor (Planning and Development)		Secretary
8.	Policy and Strategy Department Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of MWA Improvement Subcommittee Charter in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize Strategic Management Plan and Annual Action Plan as well as budgeting consistent with said Action Plan prior to presenting to the MWA Board of Directors for consent before starting each fiscal year, and present performance monitoring to the MWA Board of Directors at least once a quarter.
- 3) Scrutinize policies, practice guidelines, and manuals on knowledge management, customers and marketing prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year.
- 4) Scrutinize policies, practice guidelines/manuals, innovation management, and strategic sustainability prior to presenting to the MWA Board of Directors for approval before starting each fiscal year.
- 5) Consider approval for strategies/master plan/long-term and short-term plans on knowledge management, innovation, customers and marketing present to the MWA Board of Directors before starting each fiscal year, and performance monitoring present to the MWA Board of Directors at least once a quarter.
- 6) Consider waterworks business, provide consultation and/or recommendations starting from raw water procurement, water treatment, water transmission, water distribution and service provision, including financial management, investment and business operations, and performance monitoring present to the MWA Board of Directors at least once a quarter.
- 7) Scrutinize the method and criteria for MWA performance appraisal in alignment with the evaluation approach and criteria of the State Enterprise Policy Office (SEPO) prior to presenting to the MWA Board of Directors for approval, and monitor the performance at least once a quarter.
- 8) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

5. Corporate Governance (CG) and Corporate Social Responsibility (CSR) Subcommittee

1.	Mr. Chodnarin	Koedsom	Chairman
2.	Miss Piang-or	Loahavilai	Vice Chairman
3.	Mr. Poramin	Nillaphan	Member
4.	Mr. Visut	Bootsripoom	Member
5.	Assistant Governor (Office of MWA Board of Directors)		Member
6.	Chairman of Labor Union of MWA		Member
7.	Assistant Governor (Office of Governor)		Secretary
8.	Corporate Governance Department Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of Corporate Governance (CG) and Corporate Social Responsibility (CSR) Subcommittee in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize corporate governance policies and manual, policies and practice guidelines on reporting the compliance results according to corporate governance policies and guidelines to government shareholder, policies and practice guidelines on shareholder rights management according to laws and requirements relating to policies and practice guidelines on stakeholder management, purpose and scope of stakeholder engagement, stakeholder identification, and issues/demands of key stakeholders towards the organization prior to presenting to the MWA Board of Directors for approval before starting each fiscal year.
- 3) Consider approval for long-term and annual corporate governance plans prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year, and present performance monitoring to the MWA Board of Directors at least once a quarter.
- 4) Consider approval for the manual of ethics and code of conduct, the MWA Code of Conduct, prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year.
- 5) Consider approval for strategic plans on long-term stakeholders and action plan prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year, and present performance monitoring to the MWA Board of Directors at least once a quarter.
- 6) Supervise, oversee, monitor, and provide suggestions on operations in line with corporate governance principles and report to the MWA Board of Directors at least once a quarter.
- 7) Consider for approval the public relations operational plan prior to presenting it to the MWA Board of Directors for acknowledgment before the beginning of the fiscal year, and report on the performance to the MWA Board of Directors at least once a quarter.
- 8) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

6. MWA Digital Technology Development Subcommittee

1.	Miss Piang-or	Loahavilai	Chairman
2.	Mr. Chaitat	Saetang	Vice Chairman
3.	Mr. Nitat	Maneesilasan	Member
4.	Major General Pitch	Jindawong	Member
5.	Mr. Tirapot	Chandarasupsang	Member
6.	Mr. Kritsada	Kaewwadpring	Member
7.	Deputy Governor (Digital Technology)		Member
8.	Assistant Governor (Digital Technology)		Secretary
9.	Digital Strategy and Innovation Department Director		Assistant Secretary

*Associate Professor Chaiwat Oottamakorn, a Director of MWA Board of Directors, serves as an advisor of MWA Digital Technology Development Subcommittee.

Powers and Duties

- 1) Prepare the Charter of MWA Digital Technology Development Subcommittee in compliance with the scope of responsibility in the MWA operations as well as the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.

- 2) Consider and set the direction, policies, and strategies on digital technology development responding to stakeholder needs and expectations consistent with the MWA Strategic Management Plan to achieve the set vision and missions.
- 3) Consider for approval on the Digital Governance framework and present to the MWA Board of Directors for acknowledgment prior to starting each fiscal year.
- 4) Consider for approval on policies or information security management plans, and present to the MWA Board of Directors for acknowledgment prior to starting each fiscal year.
- 5) Consider for approval on established policies of information technology emergency plans and present to the MWA Board of Directors for acknowledgment prior to starting each fiscal year.
- 6) Consider for approval on the MWA short-term and long-term digital plans, including an annual digital action plan presenting to the MWA Board of Directors for acknowledgment prior to starting each fiscal year.
- 7) Oversee and monitor performance in compliance with work plans of key organization management system such as the digital and information management system/digital action plan at least every quarter.
- 8) Assess the quality and/or efficiency of involvement processes and monitor the operational results of digital and information management system/digital action plan, and use an assessment as basic data for concrete improvement.
- 9) Report performance and consider for approval digital and information management system/digital action plan presenting to the MWA Board of Directors.
- 10) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

7. Human Capital Management

1. Police Captain Piya	Raksakul	Chairman
2. Miss Piang-or	Loahavilai	Vice Chairman
3. Police Major General Decha	Kallayawuttipong	Member
4. Lieutenant General Achiravit	Sripaiboon	Member
5. Mr. Win	Tanapatcharapokin	Member
6. Mr. Umnuaychok	Kositphanitchayakul	Member
7. Deputy Governor (Administration)		Member
8. Assistant Governor (Human Resources Management)		Secretary
9. Human Resources Development Department Director		Assistant Secretary
10. Human Resources Management Department Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of Human Capital Management Subcommittee in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Consider approval on policies, strategies, goals, the Master Plan on Human Capital Management, and Action Plan under the Master Plan to align with the vision, intentions, and policies of the government and consistently with the organizational operations, in addition to integrating with work plans and/or important work systems prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year.

- 3) Oversee, monitor, and provide guideline recommendations to drive implementation according to the Master Plan on Human Capital Management and Action Plan under the Master Plan to ensure effective performance and achieve the desired outcomes, in addition to presenting to the MWA Board of Directors for acknowledgment at least once a quarter.
- 4) Scrutinize the management and workforce structures prior to presenting to the MWA Board of Directors for approval.
- 5) Provide other operational recommendations regarding human capital management covering human capital administration, human capital development, and mechanisms to support human capital management and development in order to enhance the effectiveness of the human capital management work system.
- 6) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

8. Risk Management and Internal Control Subcommittee

1. Miss Trithip	Sivakriskul	Chairman
2. Mr. Chaitat	Saetang	Vice Chairman
3. Miss Nopparat	Wongsinhirun	Member
4. Deputy Governor (Planning and Development)		Member
5. Assistant Governor (Planning and Development)		Secretary
6. Risk Management Department Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of Risk Management and Internal Control Subcommittee in compliance with the scope of responsibility in the MWA operations as well as the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Consider approval on manuals and practice guidelines on risk management and internal control, including corporate risk management plans and action plans on internal control prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year, and monitor risk management and internal control performance presenting to the MWA Audit Committee and the MWA Board of Directors at least once a quarter.
- 3) Consider approval policies on Good Corporate Governance, Risk management and Compliance with relevant laws, rules, regulations, and requirements (GRC) and specify the corporate Risk Appetite and Risk Tolerance prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year, and monitor performance prior to presenting to the MWA Board of Directors at least once a year.
- 4) Approve Business Continuity Plans (BCPs) prior to presenting to the MWA Board of Directors for acknowledgment before starting each fiscal year.
- 5) Give advice regarding the risk management process to ensure confidence that all corporate key risks are adequately and appropriately managed.
- 6) Scrutinize assessment reports on corporate internal control prior to presenting to the MWA Board of Directors for approval and report to the Ministry of Finance within 90 days after the fiscal year-end, and present to the MWA Audit Committee for acknowledgment.
- 7) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

9. Water Loss Monitoring and Water Pressure Management Subcommittee

1.	Mr. Nitat	Maneesilasan	Chairman
2.	Miss Piang-or	Loahavilai	Vice Chairman
3.	The Representative From Public Works Department, Bangkok Metropolitan Administration (Mr. Suphakit Nuansiri)		Member
4.	Mr. Atipat	Jarurojana-anan	Member
5.	Mr. Marnus	Changnoi	Member
6.	Deputy Governor (Western Services)		Member
7.	Assistant Governor (Services)		Secretary
8.	Water Loss Management Department Director		Assistant Secretary

Powers and Duties

1. Prepare the Charter of Water Loss Monitoring and Water Pressure Management Subcommittee in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize strategies and work plans for MWA water loss and water pressure management.
- 3) Consider water pressure management in line with Water Loss Management Plan.
- 4) Scrutinize the implementation of water loss and water pressure management activities.
- 5) Consider and provide suggestions on using advanced technologies for water loss and water pressure management.
- 6) Invite agencies or people involved in water loss and water pressure management to provide necessary information.
- 7) Summarize all activities that require undertakings presenting to the MWA Board of Directors for approval.
- 8) Oversee, expedite, and monitor undertakings of water loss and water pressure management according to the plans, and intermittently report the progress to the MWA Board of Directors.
- 9) Attend the meeting to scrutinize strategic implementation and organizational management direction in varied aspects prior to presenting to the MWA Board of Directors.
- 10) Provide comments, suggestions, and consultations to the executives to optimize organizational effectiveness and efficiency.
- 11) Monitor, control, and oversee the MWA performance to achieve organizational goals and objectives.
- 12) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

10. Legal and Appeal Subcommittee

1.	Police Captain Piya	Raksakul	Chairman
2.	Police Lieutenant General Krisda	Kanchana-alongkorn	Vice Chairman
3.	Mr. Sathaporn	Phakdeewong	Member
4.	Police Colonel Thanin	Intaprot	Member
5.	Mr. Umnuyachai	Kositphanitchayakul	Member
6.	Mr. Chartpong	Chirabandhu	Member
7.	Legal Department Director		Secretary
8.	Legal Development Division Director		Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of Legal and Appeal Subcommittee in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize and revise the draft of the MWA laws, regulations, agreements, and contracts proper to current operations.
- 3) Consider giving opinions regarding various matters relating to laws, contracts, regulations, rules, announcements, orders, criteria, and procedures of the MWA and other government agencies involved in the MWA operations in cases where any problems or areas of doubt requiring deliberations or instructions arise.
- 4) Consider and provide opinions relating to the appeals of administrative orders or complaints according to the MWA regulations on Human Resource Management B.E. 2543 (2000) and the Administrative Procedure Act, B.E. 2539 (1996) as assigned by the Chairman of the MWA Board of Directors or the MWA Board of Directors.
- 5) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

11. MWA Governor's Performance Appraisal Subcommittee

1.	Police Lieutenant General Krisda Kanchana-alongkorn	Chairman
2.	Miss Piang-or Loahavilai	Vice Chairman
3.	Mr. Sanit Khowsa-ard	Member
4.	Assistant Governor (Office of MWA Board of Directors)	Secretary
5.	Policy and Strategy Department Director	Assistant Secretary
6.	Human Resources Management Department Director	Assistant Secretary

Powers and Duties

- 1) Prepare the Charter of MWA Governor's Performance Appraisal Subcommittee in compliance with the relevant criteria, rules and regulations that are applicable in the present, present to the MWA Board of Directors for approval, and review the charter's suitability at least once a year.
- 2) Scrutinize the Action Plan of the MWA Governor according to objectives, goals, and missions to ensure that the MWA Governor achieves efficiency and effectiveness in pursuing organizational strategies and management direction in varied aspects, and present to MWA Board of Directors for approval.
- 3) Determine the MWA Governor's Key Performance Indicators (KPIs) and performance appraisal methods in line with missions prior to presenting to the MWA Board of Directors for approval.
- 4) Monitor and appraise the MWA Governor's performance according to specified time frame, appraisal methods, and KPIs prior to presenting to the MWA Board of Directors for approval.
- 5) Perform other duties as assigned by the Chairman or the MWA Board of Directors.

12. MWA Governor Nomination Committee

- | | | |
|----|---|---------------------|
| 1. | Police Lieutenant General Krisda Kanchana-alongkorn | Chairman |
| 2. | Miss Trithip Sivakriskul | Vice Chairman |
| 3. | Miss Piang-or Loahavilai | Member |
| 4. | Mr. Nitat Maneesilasan | Member |
| 5. | Mr. Chodnarin Koedsom | Member |
| 6. | Assistant Governor (Office of MWA Board of Directors) | Secretary |
| 7. | MWA Board of Directors Affairs Department Director | Assistant Secretary |

Powers and Duties

- 1) Prepare/review the proper MWA Governor Nomination Committee Charter in compliance with the recruitment guidelines and related rules and regulations that are applicable in the present presenting to the MWA Board of Directors for approval.
- 2) Determine the criteria, method, and recruitment for knowledgeable, competent, experienced, and suitably qualified persons pursuant to section 8 of Standard Qualifications of Directors and State Enterprise Employees Act B.E. 2518 (1975), and an Amendment Edition for the position of the MWA Governor, and present the select nominee who is deserved appointment to the MWA Board of Directors.

13. MWA Governor's Remuneration Subcommittee

- | | | |
|----|---|---------------------|
| 1. | Miss Trithip Sivakriskul | Chairman |
| 2. | Mr. Chaitat Saetang | Vice Chairman |
| 3. | Police Captain Piya Raksakul | Member |
| 4. | The Representatives From the State Enterprise Policy Office (Mr. Nattawut Phaisanwattana) | Member |
| 5. | Assistant Governor (Office of MWA Board of Directors) | Secretary |
| 6. | MWA Board of Directors Affairs Department Director | Assistant Secretary |

Powers and Duties

- 1) Prepare/review the proper MWA Governor Remuneration Subcommittee Charter in compliance with the recruitment guidelines and related rules and regulations that are applicable in the present presenting to the MWA Board of Directors for approval.
- 2) Prepare a draft of employment contract for the position of the MWA Governor.
- 3) Determine the proper remuneration and negotiate remuneration with the nominee as the MWA Governor.
- 4) Present considering results and a draft of employment contract to the MWA Board of Directors and the Ministry of Finance for approval.

Details of Meeting Attendance and Meeting Attendance Fee/ Remunerations of the Board of Directors, Committees, and Subcommittees in the Fiscal Year 2024

(Information as of 1 October 2023 - 30 September 2024)

No.	Name		Position	MWA Board of Directors	Procurement Sub committee	MWA Improvement Sub committee	Corporate Governance (CG) and Corporate Social Responsibility (CSR) Sub committee	Risk Management and Internal Control Sub committee	MWA Governor's Remuneration Sub committee	MWA Relations Affairs Committee
				10 Times	7 Times	8 Times	8 Times	8 Times	1 Time	8 Times
1	Mr. Chaiwat	Chuenkosum	Chairman	10/10						
2	Mr. Chodnarin	Koedsom	Director	9/10	3/3		8/8			
3	Lieutenant General Sumat	Promtrut	Director	10/10						
4	Mr. Chuchart	Rakchit	Director	2/5						
5	Mr. Vuttikrai	Leewiraphan	Director	5/6	4/4					
6	Mr. Sanit	Khowsa-ard	Director	10/10						8/8
7	Police Captain Piya	Raksakul	Director	10/10					1/1	
8	Miss Piang-or	Loahavilai	Director	10/10			7/8			
9	Mr. Nitat	Maneesilasan	Director	10/10						
10	Police Lieutenant General Krisda	Kanchana-alongkorn	Director	9/10	7/7	7/8				
11	Associate Professor Chaiwat	Oottamakron	Director	10/10						
12	Miss Trithip	Sivakrskul	Director	10/10		8/8		8/8	1/1	
13	Mr. Chaitat	Saetang	Director	10/10				8/8	1/1	
14	Mr. Kiatnarong	Wongnoi	Director	10/10						
15	Mr. Manit	Panaim	Director	4/4	2/2	2/2				
16	Mr. Raksak	Suriyaharn	Director	6/6	5/5	5/6				

Notes: - Mr. Chuchart Rakchit submitted his resignation from the Board of Directors and all sub-committees of the Metropolitan Waterworks Authority (MWA), effective from 15 May 2024.

- Mr. Vuttikrai Leewiraphan submitted his resignation from the Board of Directors and all sub-committees of the MWA, effective from 18 June 2024.

- Mr. Manit Panaim completed his term of employment on 30 March 2024.

- Mr. Raksak Suriyaharn, Deputy Governor, has been appointed Acting Governor of the Metropolitan Waterworks Authority, as per the MWA Board Resolution No. 5/2024, dated 27 February 2024.

Water Loss Monitoring and Water Pressure Management Sub committee	Human Capital Management Sub committee	MWA Digital Technology Development Sub committee	MWA Audit Committee	Legal and Appeal Sub committee	MWA Governor Nomination Committee	MWA Governor's Performance Appraisal Sub committee	Meeting Attendance Fee for All Committees	Fixed Remunerations	Bonus 2024	Total
7 Times	7 Times	9 Times	8 Times	8 Times	7 Times	4 Times				
							250,000.00	154,838.68	125,210.01	530,048.69
					2/4		330,000.00	77,419.34	100,168.01	507,587.35
			8/8				424,919.35	77,419.34	100,168.01	602,506.70
3/3					3/3		77,500.00	41,935.46	36,038.31	155,473.77
							175,000.00	53,085.95	60,827.73	288,913.68
						4/4	340,000.00	77,419.34	100,168.01	517,587.35
	7/7			8/8			387,500.00	77,419.34	100,168.01	565,087.35
4/4	7/7	4/4			7/7	4/4	370,000.00	77,419.34	100,168.01	547,587.35
7/7					6/7		370,000.00	77,419.34	100,168.01	547,587.35
				7/8	6/7	4/4	360,000.00	77,419.34	100,168.01	537,587.35
			8/8				379,435.48	77,419.34	100,168.01	557,022.83
					7/7		400,000.00	77,419.34	100,168.01	577,587.35
							360,000.00	77,419.34	100,168.01	537,587.35
			8/8				341,935.48	77,419.34	100,168.01	519,522.83
							120,000.00	27,096.74	68,380.38	215,477.12
							220,000.00	50,322.58	69,119.62	339,442.20
							4,906,290.31	1,178,892.15	1,461,424.16	7,546,606.62

● Compliance to the Office Information Act, B.E. 2540 (1997)



The Metropolitan Waterworks Authority Information Center complies with the Official Information Act, B.E. 2540 (1997) with a purpose to gather and present official information to the public for an easy inquiry. The commitment is to provide fast, accessible, and accurate information services according to corporate governance principles under the concept of “Disclosure is the Norm, Non-disclosure is the Exception”.

The improvement of the MWA's information service standards is primarily concerned with the public interest. The MWA Official Information Center regularly enhances service provision with emphasis on accurate and up-to-date information. The public can access official information through the electronic information centers 24 hours a day, via the website www.oic.go.th/INFOCENTER2/237 or the MWA information center service at the 1st floor of Sutthi Tharakorn Building (6-storey building), and the 1st floor of Sutthi Utthakakorn Building (12-storey building) at the MWA Headquarters.

According to the continuous service improvement, the MWA has received the Outstanding Official Information award from the Office of the Official Information Commission, Office of the Permanent Secretary of the Prime Minister's Office, for the 6th consecutive year (from 2019 to 2024).



Performance in Fiscal Year 2024



The MWA Information Center operates under the Information Center Action Plan for fiscal year 2024 in compliance with the Office Information Act, B.E. 2540 (1997), and the MWA Regulation on the MWA Information, B.E. 2561 (2018) as follows:

Committee Meetings

The meetings are held to discuss and acknowledge performance in various aspects such as the consideration of an appointment of the MWA Official Information Center Committee, the Outstanding Official Information Center Award 2024, the consideration results on the MWA information disclosures, performance report under an action plan and statistical information service for fiscal year 2023.



Study Visit

The MWA Information Center Committee makes a study visit at the official information center of Airports of Thailand Public Company Limited on 9 January 2024 to exchange information on the operation of information centers and obtain guidelines for improving the MWA Information Center.



Visiting the MWA Information Center

The Office of the Permanent Secretary for Culture visits the MWA Information Center on 11 January 2024 to exchange experiences and guidelines for the Outstanding Official Information Center Award.



Training Participation

Two employees participate in training “Knowledge on the Official Information Act, B.E. 2540 (1997)” provided by the Office of the Civil Service Commission via e-learning.



Participation in Knowledge Assessments

The MWA Employees participate in training and assessment project on knowledge and understanding of the Official Information Act, B.E. 2540, the Office of the Official Information Commission (O.I.C.), with 1 person passing the assessment.

Employee Knowledge Training

The training of “Knowledge on the Official Information Act, B.E. 2540 (1997)” is provided to 100 employees Level 6 - 7 on 21 December 2023.



Dissemination of Knowledge on the Office Information Center Act, B.E. 2540 (1997)

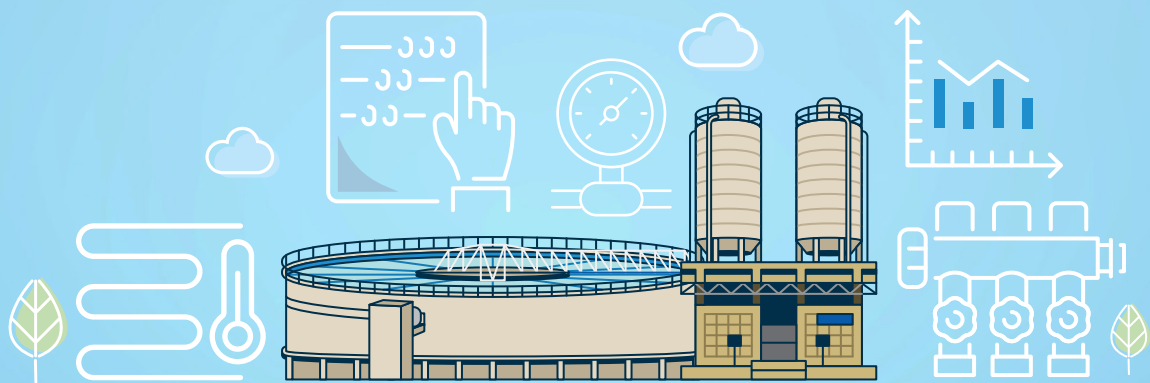
The MWA organizes an exhibition to disseminate significant achievements and knowledge on the Official Information Act, B.E. 2540 (1997), at an announcement of the Outstanding Official Information Center Award for 2022 - 2023 at Santi Maitri Building, Parliament Building on 19 January 2024 as well as “the MWA Meets the People” activity at Than Samrit Nuea-Tai Community, Tha Sai Sub-district, Mueang Nonthaburi District, Nonthaburi Province on 22 November 2023.

Statistical Information Service for Fiscal Year 2024

- Provide electronic information at the MWA Official Information Center to 9,535 people.
- Provide information service to 1 individual inquirer (pursuant to Section 11).



The MWA
Information Center



Information and Statistics



General Information

	Unit	2020	2021	2022	2023	2024
Total amount of water production	Million m ³	2,121.1	2,116.5	2,080.3	2,042.4	2,038.1
Bang Khen Water Treatment Plant	Million m ³	1,410.0	1,427.6	1,394.0	1,386.4	1,381.5
Sam Sen Water Treatment Plant	Million m ³	102.4	92.2	86.4	87.3	88.8
Thon Buri Water Treatment Plant	Million m ³	36.4	40.1	39.9	40.4	38.5
Mahasawat Water Treatment Plant	Million m ³	572.3	556.6	560.0	528.3	529.3
Total amount of water distribution	Million m ³	1,458.3	1,416.2	1,422.2	1,488.6	1,514.8
Residences	Million m ³	694.3	705.8	695.6	715.6	788.3
Business, state enterprises, government agencies, and others	Million m ³	717.8	643.2	640.5	679.6	650.5
Public water and others	Million m ³	46.2	67.2	86.1	93.4	76.0
Percentage of water distribution	Percent	68.75	66.91	68.36	72.88	74.32
Number of consumers at the end of the year	Connections	2,479,547	2,517,486	2,558,418	2,606,167	2,644,177
Residences	Connections	2,010,824	2,062,299	2,109,493	2,155,257	2,191,070
Business, state enterprises, government agencies, and others	Connections	468,723	455,187	448,925	450,910	453,107
Small consumers	Connections	2,443,405	2,482,886	2,523,957	2,571,637	2,609,595
Water meter size 1/2 inch	Connections	1,571,405	1,613,975	1,658,198	1,707,664	1,747,254
Water meter size 3/4 inch	Connections	803,240	798,621	795,051	792,845	790,916
Water meter size 1 inch	Connections	68,760	70,290	70,708	71,128	71,425
Key consumers	Connections	36,142	34,600	34,461	34,530	34,582
Water meter size 1½ inches	Connections	16,169	15,366	15,596	15,951	16,125
Water meter size 2 inches	Connections	12,814	12,405	12,235	12,200	12,116
Water meter size over 2 inches	Connections	7,159	6,829	6,630	6,379	6,341
Number of new connections	Connections	67,916	60,241	62,379	66,408	56,512
Average amount of water consumption per month	m ³	47.98	44.99	43.86	44.99	45.62
Residences	m ³	29.16	28.86	27.78	27.94	30.17
Business, state enterprises, government agencies, and others	m ³	127.67	116.38	118.05	125.95	120.35
Average water tariff per m ³	Baht	10.93	11.31	11.69	11.81	12.10
Residences	Baht	8.96	9.40	9.85	9.94	10.27
Business, state enterprises, government agencies, and others	Baht	12.85	13.42	13.69	13.78	14.31
Total number of personnel	Persons	5,384	5,314	5,272	5,175	5,089
Number of employees at the end of the year	Persons	4,339	4,250	4,252	4,154	4,059
Number of contract workers	Persons	1,045	1,064	1,020	1,021	1,030
Ratio of consumers per personnel	Connections	461	474	485	504	520
Population in responsible area at the end of the year	Persons	8,216,446	8,173,080	8,151,075	8,152,650	8,153,765
Number of households in responsible area at the end of the year	Houses	4,354,086	4,609,369	4,688,136	4,776,463	4,855,913

Financial Information

	Unit	2020	2021	2022	2023	2024
Total assets	Million baht	81,337.9	84,158.8	87,211.4	90,224.1	93,470.4
Current assets	Million baht	13,653.8	10,356.4	11,431.1	13,315.7	13,503.2
Non-current assets	Million baht	67,684.1	73,802.4	75,780.3	76,908.4	79,967.2
Total liabilities	Million baht	15,055.4	16,761.1	17,683.0	18,982.9	19,616.5
Current liabilities	Million baht	3,105.6	4,369.1	5,303.4	5,876.3	6,002.4
Non-current liabilities	Million baht	11,949.8	12,392.0	12,379.6	13,106.6	13,614.1
Total equity	Million baht	66,282.5	67,397.7	69,528.4	71,241.2	73,853.9
Total revenues	Million baht	18,045.0	18,435.6	18,490.4	19,459.1	20,780.0
Operating revenue	Million baht	17,559.8	18,061.1	18,067.4	19,043.2	20,038.7
Revenue from water sales and water equipment fees	Million baht	16,548.9	16,895.4	16,837.8	17,706.7	18,654.5
Revenue from new connection fees	Million baht	247.9	278.5	308.9	324.2	327.9
Other operating income	Million baht	763.0	887.2	920.7	1,012.3	1,056.3
Non-operating revenues	Million baht	485.2	374.5	423.0	415.9	741.3
Total expenses	Million baht	12,422.0	13,600.3	14,380.0	15,598.6	15,653.5
Operating expenses	Million baht	12,390.6	13,574.7	14,375.3	15,569.9	15,587.6
Direct operating expenses	Million baht	7,536.1	8,339.3	8,840.2	9,914.9	9,639.0
Depreciation and amortization	Million baht	4,829.0	5,210.6	5,515.3	5,639.9	5,937.1
Interest expense and loan fee	Million baht	25.5	24.8	19.8	15.1	11.5
Non-operating expenses	Million baht	31.4	25.6	4.7	28.7	65.9
Other expenses	Million baht	33.6	25.6	4.7	28.7	65.9
(Profit) Loss from foreign exchange rate	Million baht	(2.2)	-	-	-	-
Net profit	Million baht	5,623.0	4,835.3	4,110.4	3,860.5	5,126.5
Return on assets	Percent	6.91	5.75	4.71	4.28	5.48
Return on equity	Percent	8.48	7.17	5.91	5.42	6.94
Net profit margin	Percent	32.02	26.77	22.75	20.27	25.58
Asset turnover	Times	0.22	0.21	0.21	0.21	0.21
Current ratio	Times	4.40	2.37	2.16	2.27	2.25
Debt to total assets ratio	Times	0.19	0.20	0.20	0.21	0.21
Debt to equity ratio	Times	0.23	0.25	0.25	0.27	0.27
Cost of water sales per m ³	Baht	8.33	9.48	10.07	10.47	10.19

Rate of Water Tariffs and New Installation Fees

Rate of Water Tariffs

Type 1 Residences		Type 2 Business, Government Agencies, State Enterprises, Industries, and Others	
Amount of Water Consumption (m ³)	Water Tariffs (Baht/m ³)	Amount of Water Consumption (m ³)	Water Tariffs (Baht/m ³)
0 - 30	8.50	0 - 10	9.50 But not less than 90.00 baht
31 - 40	10.03	11 - 20	10.70
41 - 50	10.35	21 - 30	10.95
51 - 60	10.68	31 - 40	13.21
61 - 70	11.00	41 - 50	13.54
71 - 80	11.33	51 - 60	13.86
81 - 90	12.50	61 - 80	14.19
91 - 100	12.82	81 - 100	14.51
101 - 120	13.15	101 - 120	14.84
121 - 160	13.47	121 - 160	15.16
161 - 200	13.80	161 - 200	15.49
More than 200	14.45	More than 200	15.81

- Notes:**
1. Water tariffs exclude VAT.
 2. For bulk water sales, the average water tariffs are as follows:
 - * Residential type: 10.50 baht/m³
 - * Other types: 13.00 baht/m³
- Effective from 1 June 2004, MWA shall charge raw water fee at the rate of 15 Satang/m³ for contribution to Royal Irrigation Department.

Rate of New Installation in Lump Sum and Monthly Service Fee

Unit: Baht

Meter Sizes (inches)	1/2	3/4	1	1 1/2	2	3	4	6	8	12
New Connection Fees	5,000	6,000	8,000	12,500	38,500	76,000	93,500	156,500	210,000	431,500
Monthly Service Fees	25	40	50	80	300	400	500	900	1,100	3,500

- Notes:**
1. For the expenses over 20 meters calculating from MWA trunk main, water supply requesters shall pay the tariffs of pipe installation and equipment as follows:




Size of pipe (mm.)	20	25	40	50	100	150	200	300
Price per meter (Baht)	355	386	452	997	1,981	2,160	2,364	3,017

2. The expenses in the above table exclude VAT.

Locations of MWA Offices

Headquarters




400 Prachachuen Road,
Thung Song Hong Sub-district,
Lak Si District, Bangkok 10210

 Tel. 0-2504-0123
 Fax. 0-2500-2582-3
 E-mail mwa1125@mwa.co.th






Sukhumvit Branch Office

1564/1 Sukhumvit Road, Phra Khanong Sub-district,
Khlong Toei District, Bangkok 10260

 Tel. 0-2331-0028-30
 Fax. 0-2331-7533
 E-mail br07s00@mwa.co.th




Phra Khanong Branch Office

1564/1 Sukhumvit Road, Phra Khanong Sub-district,
Khlong Toei District, Bangkok 10260

 Tel. 0-2331-0031-32
 Fax. 0-2331-1061
 E-mail br13s00@mwa.co.th

Samut Prakan Branch Office



27 Bunsiri 4 Alley, Sukhumvit Road,
Pak Nam Sub-district, Mueang Samut Prakan District,
Samut Prakan 1027

 Tel. 0-2384-1411-12
 Fax. 0-2384-3067
 E-mail br17s00@mwa.co.th

Phaya Thai Branch Office




Medical Office Building, MWA Headquarters

400 Prachachuen Road, Thung Song Hong
Sub-district, Lak Si District, Bangkok 10210

 Tel. 0-2574-3265-70
 Fax. 0-2574-3264




Customer Service

Mansri Branch Office, 2nd Floor, Four-Storey Building
1203 Nakhon Chaisi Road, Sam Sen Nai Sub-district,
Phaya Thai District, Bangkok 10400

 Tel. 0-2298-6700 ต่อ 3393-3395
 Fax. 0-2298-6756
 E-mail br03s00@mwa.co.th

Thung Maha Mek Branch Office

9/2 Nang Linchi Road, Thung Maha Mek Sub-district,
Sathon District, Bangkok 10120

 Tel. 0-2286-0172, 0-2286-0174-75,
0-2286-0177, 0-2286-0179
 Fax. 0-2286-0153
 E-mail br05s00@mwa.co.th

Mansri Branch Office

1203 Nakhon Chaisi Road, Sam Sen Nai Sub-district,
Phaya Thai District, Bangkok 10400

Tel. 0-2298-6700-24
Fax. 0-2298-6735
E-mail br06s00@mwa.co.th

Lat Phrao Branch Office

591 Ramkhamhaeng 39 (Thepleela 1),
Ramkhamhaeng Road, Wang Thonglang Sub-district,
Wang Thonglang District, Bangkok 10310

Tel. 0-2934-4432-36
Fax. 0-2934-4815
E-mail br12s00@mwa.co.th

Min Buri Branch Office

133 Ramkhamhaeng Road, Saen Saep Sub-district,
Min Buri District, Bangkok 10510

Tel. 0-2543-6500
Fax. 0-2543-6630
E-mail br53s00@mwa.co.th

Suvarnabhumi Branch Office

623/1 Luang Phaeng Road, Thap Yao Sub-district,
Lat Krabang District, Bangkok 10520

Tel. 0-2171-5455-64
Fax. 0-2171-5475
E-mail br55s00@mwa.co.th

Prachachuen Branch Office

2 Soem Suk Alley, Prachachuen Road, Chatuchak
Sub-district, Chatuchak District, Bangkok 10900

Tel. 0-2585-7444, 0-2585-0319,
0-2585-3889, 0-2585-0490
Fax. 0-2586-0922
E-mail br15s00@mwa.co.th

Bang Khen Branch Office

3 Chaeng Watthana Road, Anusawari Sub-district,
Bang Khen District, Bangkok 10220

Tel. 0-2552-1550-54
Fax. 0-2521-1176
E-mail br16s00@mwa.co.th

Phasi Charoen Branch Office

454 Kanchanaphisek Road, Bang Khae Nuea
Sub-district, Bang Khae District, Bangkok 10160

Tel. 0-2455-0044
Fax. 0-2454-5500
E-mail br11s00@mwa.co.th

Bangkok Noi Branch Office

258/4 Charan Sanit Wong 30 Alley, Ban Chang Lo
Sub-district, Bangkok Noi District, Bangkok 10700

Tel. 0-2424-9014
Fax. 0-2412-1226
E-mail br01s00@mwa.co.th

Taksin Branch Office

71 Rama 2 Road, 31 Alley, Bang Mot Sub-district,
Chom Thong District, Bangkok 10150

Tel. 0-2427-6000
Fax. 0-2427-7772
E-mail br02s00@mwa.co.th

Suksawat Branch Office

71 Rama 2 Road, 31 Alley, Bang Mot Sub-district,
Chom Thong District, Bangkok 10150

Tel. 0-2427-7000
Fax. 0-2427-7772
E-mail br14s00@mwa.co.th

Bang Bua Thong Branch Office

59 Moo 2, Bang Kruai-Sai Noi Road, Sano Loi
Sub-district, Bang Bua Thong District, Nonthaburi 11110

Tel. 0-2571-3982-87
Fax. 0-2571-1743
E-mail br54s00@mwa.co.th

Mahasawat Branch Office

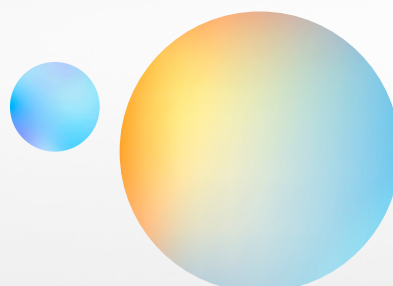
170 Moo 2, Kanchanaphisek Road, Plai Bang
Sub-district, Bang Kruai District, Nonthaburi 11130

Tel. 0-2449-0129
Fax. 0-2449-0088
E-mail br56s00@mwa.co.th

Nonthaburi Branch Office

282 Nonthaburi Road, Tha Sai Sub-district,
Mueang Nonthaburi District, Nonthaburi 11000

Tel. 0-2589-0035-38
Fax. 0-2580-5964
E-mail br04s00@mwa.co.th



Channels to Contact the Metropolitan Waterworks Authority



MWA Offices

- Headquarters and 18 Branch Offices
 - 1) Customer service counters and payment service counters
 - 2) Justice Provision Center
 - 3) Drive Thru Payment
- Department store service centers
 - 1) The Government Center in Nonthaburi Province
 - Central Plaza Westgate
 - Central Plaza Chaengwattana
 - The Mall Lifestore Ngamwongwan
 - 2) Bangkok Express Service, Bangkok
 - The Mall Lifestore Bang Khae
- Suksawat Smart Consumer Service Centers, Samut Prakan Province
 - 1) Phra Pradaeng District Office
 - 2) Phra Samut Chedi District Office



Telephone

- MWA Call Center: 1125
- Headquarters: 0-2504-0123
- Sukhumvit Branch Office: 0-2331-0028-30
- Phra Khanong Branch Office: 0-2331-0031-32
- Samut Prakan Branch Office: 0-2384-1411-12
- Thung Maha Mek Branch Office: 0-2286-0172, 0-2286-0174-75, 0-2286-0177, 0-2286-0179
- Mansri Branch Office: 0-2298-6700-24
- Phaya Thai Branch Office: 0-2574-3265-70
- Lat Phrao Branch Office: 0-2934-4432-36
- Prachachuen Branch Office: 0-2585-7444, 0-2585-0490, 0-2585-0319, 0-2585-3889
- Bang Khen Branch Office: 0-2552-1550-54
- Min Buri Branch Office: 0-2543-6500
- Suvarnabhumi Branch Office: 0-2171-5455-64
- Taksin Branch Office: 0-2427-6000
- Suksawat Branch Office: 0-2427-7000
- Bangkok Noi Branch Office: 0-2424-9014
- Phasi Charoen Branch Office: 0-2455-0044
- Nonthaburi Branch Office: 0-2589-0035-38
- Bang Bua Thong Branch Office: 0-2571-3982-87
- Mahasawat Branch Office: 0-2449-0129



Online Channels

- Website: www.mwa.co.th
 - 1) e-Service
 - 2) Web Chat
 - 3) Service complaint
 - 4) Registration for refund of water usage guarantee
 - 5) Registration for use of entitlement on state welfare cards
- E-mail: mwa1125@mwa.co.th, saraban@mwa.co.th
- Facebook: www.facebook.com/MWATHailand
- X (Twitter): @mwa1125
- LINE Official: @MWATHailand
- Instagram: @MWATHailand
- Application: MWA onMobile



Payment Channels of the Metropolitan Waterworks Authority

MWA onMobile and MWA e-Service



<http://eservicesapp.mwa.co.th/>



PAYMENT GATEWAY

Credit Card/Debit Card

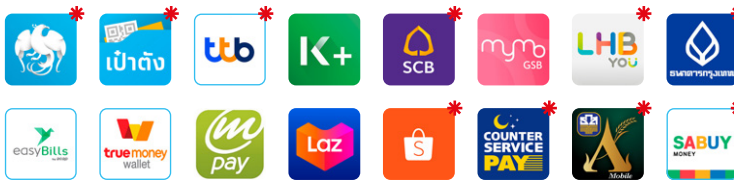


Credit Card Only



Internet Banking

Mobile Application



Free service charge

Service fees are as specified by the agent.

Counter Service



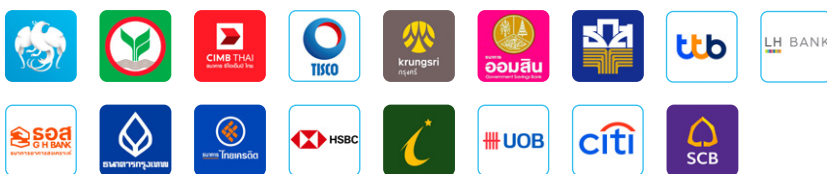
Service fees are as specified by the agent.



การไฟฟ้านครหลวง
Metropolitan Electricity Authority

* Free service charge

Direct Debit



Free service charge

ATM



Service fees are as specified by the agent.

Credit Card



Free service charge

KIOSK



Service fees are as specified by the agent.

Note: * Able to make overdue payment

Channels for Paying the Metropolitan Waterworks Authority Water Bills in Case of Overdue Payment

Application



Free service charge
when paying with KTB Internet Banking



* (only for All Free Accounts)
Free service charge



Service fees are as specified by the agent.



Counter Service



Service fees are as specified by the agent.

In Case of Overdue Water Bill Payment

- Overdue Payment Fee: 15 THB
- Temporary Water Suspension Fee: 107 THB
- Water Suspension Fees (10%, 20%) Payable via MWA onMobile, LHB You, Counter Service, or MEA Offices



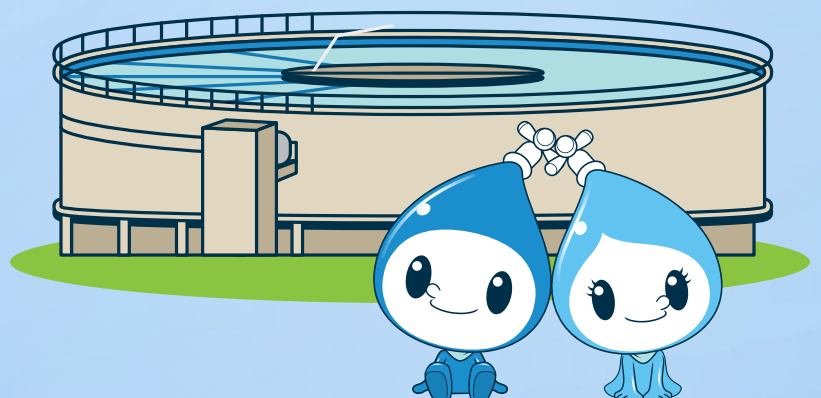
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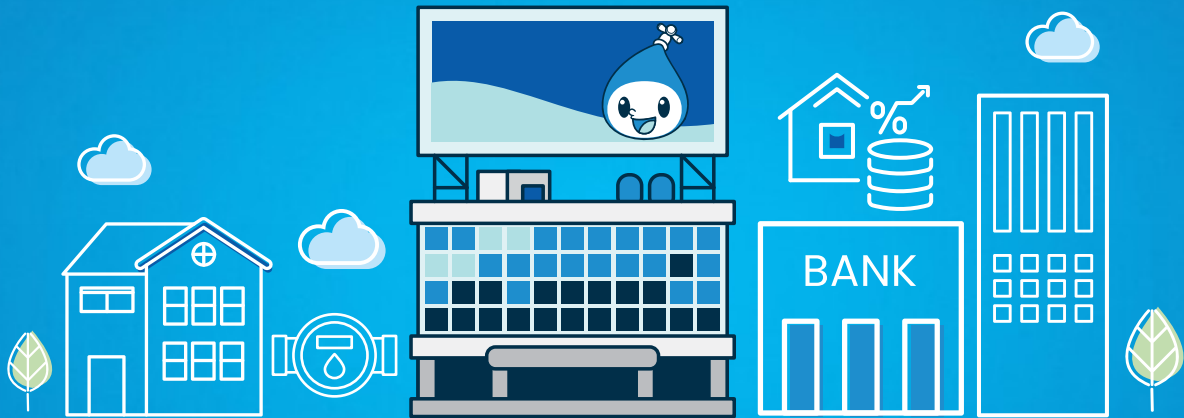


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Financial Information



● Factors Affecting Financial Status and Performance

In 2024, Thai economy has shown continuous growth since 2023 after the impact caused by the economic crisis a few years ago due to the COVID-19 pandemic, uncertainty in external factors, and geopolitical conflicts that affect energy prices. However, Thai economy has several positive factors this year from the recovery in the tourism sector, which benefits the service sector, employment, and spending in tourism businesses, as well as private consumption shows the sign of continuous recovery. Despite facing flood situations, the government can provide compensation and support measures. Meanwhile, the manufacturing and export sectors this year continue showing the sign of stabilization, aligning with the national economic performance. Although Thailand's important trade partners like China and the United States of America, it is necessary to closely monitor risk factors in 2025 that might affect Thai economy due to tensions in the Middle East, which might cause rising energy prices, and political uncertainty can be introduced by the transition of a new United States president, which might impact international economic and trade policies.

For business performance in fiscal year 2024, the MWA earns higher net profit compared to the previous year due to water sales, the core revenue, increasing from fiscal year 2023 and recovery approaching pre COVID-19 pandemic levels arising from water sales across all categories, particularly the Residential category, concluding residential houses and condominiums, mostly due to rising unregistered population along with changes in economic conditions. Additionally, the El Niño phenomenon occurred between October 2023 to May 2024, which led to higher temperatures and extreme heat, causing high water demand. Likewise, the Commercial category is related to the tourism and service sector, such as companies, shops, shopping malls, hotels, and airports experienced positive effects from the normalization of economic activities, together with increasing activities held during various festivals. Furthermore, the government measures have encouraged tourism by exempting visa fees for Chinese tourists since March 2024 and later 93 other countries since July 2024, leading to an increase in foreign tourist arrivals. The Industrial category experiences an improvement in some manufacturing sectors, while the overall sectors remain stable in line with the economy of trading partners.

In terms of expenses, the MWA absorbs higher production and distribution costs compared to the previous year, mostly resulting from the expenses in urgent pipeline repairs of damaged pipelines and pipeline replacement at leak points in order to reduce water loss and achieve the efficiency of water resource use in addition to ensuring stability in extensive and sufficient water provision to the people. Meanwhile, the decline in electricity tariffs was caused by the Energy Regulatory Commission decreasing Fuel Adjustment Charge (Ft). However, the MWA's investment capital significantly decreased due to the implementation of the Ninth Bangkok Water Improvement Project and Water Loss Reduction Project. Although the projects can promote the efficiency of long-term water system, such enormous investments are required that may lead to an impact on an organization's liquidity.

For the various factors mentioned above, the MWA formulates the strategy to enhance sustainable performance by strengthening the water system through infrastructure improvement to enhance the effectiveness of water treatment and distribution across the entire supply chain towards continuity and stability. Additionally, the MWA aims to implement service enhancement through the update of digital technology ready to support future changes, to increase customer convenience and satisfaction, as well as to develop innovations and human resources for increasing organization's capabilities in achieving additional revenue from related business and expanding to new consumer bases. Meanwhile, effective cost and liquidity management are prioritized to ensure that the MWA continues to undertake significant projects without an impact on long-term financial stability.



Key Financial Information

Description	2024	2023	2022
Financial Position (Million Baht)			
Current Assets	13,503.25	13,315.67	11,431.11
Total Assets	93,470.41	90,224.13	87,211.40
Current Liabilities	6,002.38	5,876.29	5,303.45
Total Liabilities	19,616.46	18,982.95	17,683.05
Total Equity	73,853.95	71,241.18	69,528.35
Operating Results (Million Baht)			
Total Revenues	20,779.93	19,459.11	18,490.38
Total Expenses	15,653.47	15,598.62	14,379.98
Net Profit	5,126.46	3,860.49	4,110.40
Financial Ratio			
Net Profit Margin (percent)	25.58	20.27	22.75
Return on Asset (percent)	5.48	4.28	4.71
Return on Equity (percent)	6.94	5.42	5.91
Debt to Equity Ratio (times)	0.27	0.27	0.25
Current Ratio (times)	2.25	2.27	2.16
Average Collection Period (days)	30	27	28



Capital and Shareholder Structure

The Ministry of Finance is a 100 percent MWA shareholder as follows:

Unit: Million Baht

Description	2024	2023	2022
Initial capital	1,192.71	1,192.71	1,192.71
Government budget	7,194.14	7,194.14	7,194.14
Total	8,386.85	8,386.85	8,386.85

Approved Budgets

Unit: Million Baht

Approved Budgets	2024	2023	2022
Operating budget	10,297.8	9,940.1	9,059.8
Investment budget	15,753.7	13,225.0	12,261.8
Total	26,051.5	23,165.1	21,321.6

Loan Debts

Unit: Million Baht

Loan Debts	2024	2023	2022
Domestic loan	-	-	-
Foreign loan	-	69.651	148.907
Total	-	69.651	148.907

Remittance to Ministry of Finance

Unit: Million Baht

Remittance to Ministry of Finance	2024	2023	2022
Remittance to Ministry of Finance	2,577.40	2,256.60	2,172.75

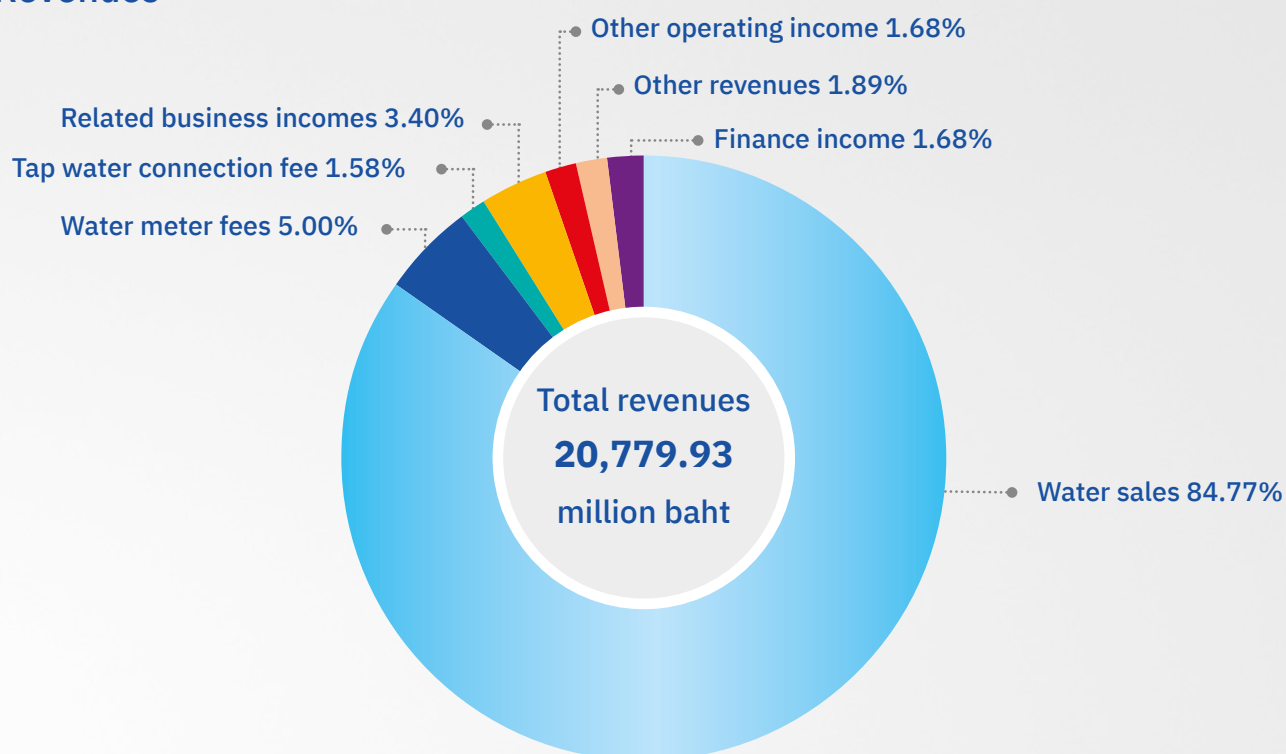
Financial Analysis Report

For the overall performance in fiscal year 2024, the MWA's revenues from water sales rebound as the pre-COVID-19 period, with supporting factors from rising global tourism demand and government support measures such as visa-free entry. However, expenses also increase, mostly due to depreciation of pipeline replacement for water loss reduction and employee expenses, while decreasing in electricity expenses. In fiscal year 2024, the net profit rose to 5,126.46 million baht, higher than the previous year 1,265.97 million baht or 32.79 percent.



Performance

Revenues



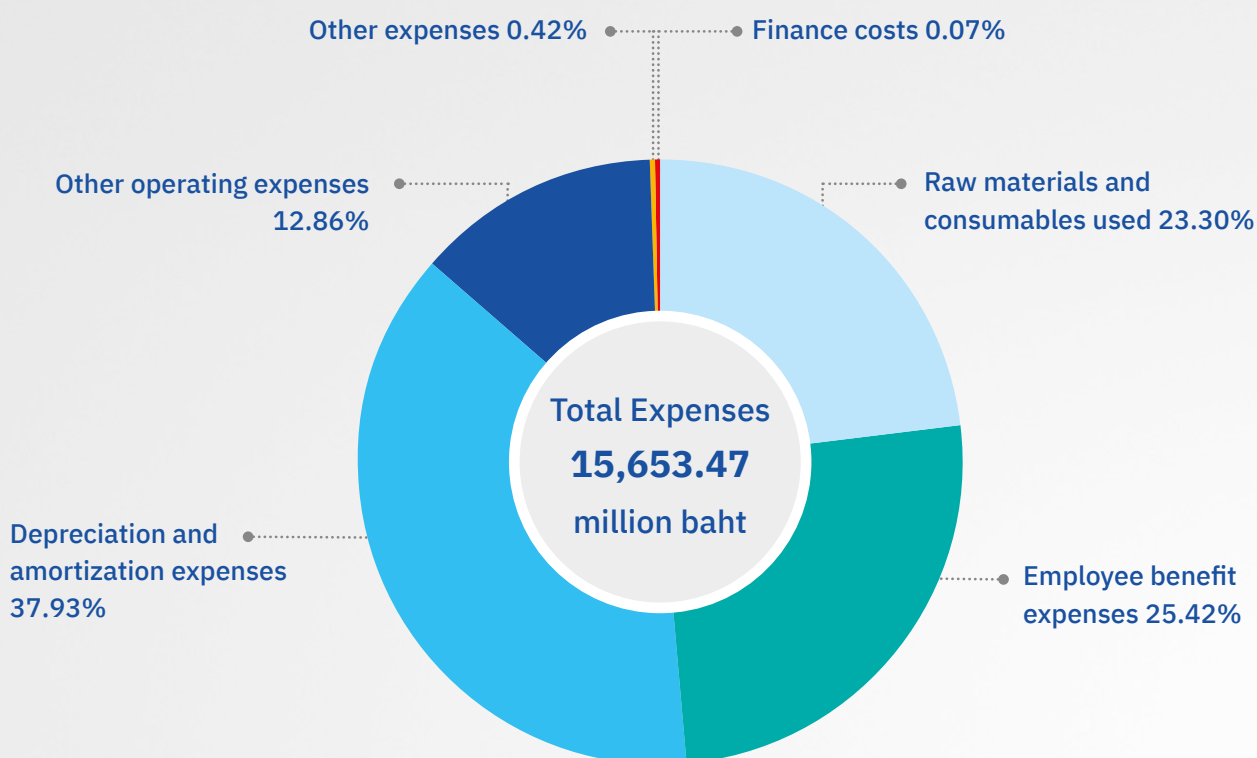
Unit: Million Baht

Item	2024	2023	Increase (Decrease)
Revenues	20,431.05	19,136.96	1,294.09
Water sales	17,615.08	16,679.69	935.39
Water meter fees	1,039.37	1,027.03	12.34
Tap water connection fees	327.90	324.21	3.69
Related business incomes	707.34	659.53	47.81
Other operating income	348.97	352.79	(3.82)
Other revenues	392.39	93.71	298.68
Finance income	348.88	322.15	26.73
Total	20,779.93	19,459.11	1,320.82

The MWA generates total revenues 20,779.93 million baht, higher than the previous year 1,320.82 million baht or 6.79 percent, mostly due to higher **revenues from water sales and water meter fees** than the previous year and the recovery as the pre-COVID-19 period owing to an increase in water sales in every consumer category compared to the previous year caused by the normalization of economic activities. Additionally, the government promotes tourism with the Visa Exemption Scheme for Chinese tourists and tourists from 93 countries, resulting in an increase in foreign tourists and

leading to an increase in water sales, particularly in companies, shopping malls, hotels, and airports. **The related business incomes also** increase largely due to income from pipeline installation for the private sector. While **other revenues** also increase from dismantling and relocating assets due to the existing pipelines obstructing rail construction, which pipelines are dismantled and reinstalled by the Mass Rapid Transit Authority of Thailand for the MWA without any charges.

Expenses



Unit: Million Baht

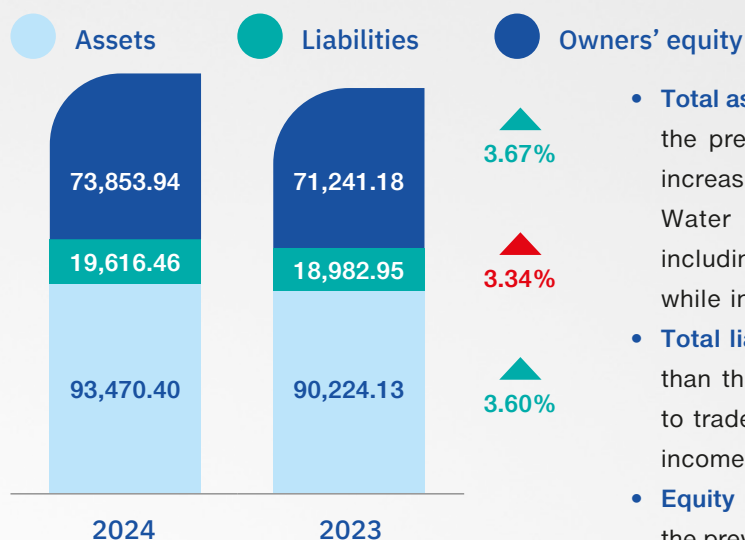
Item	2024	2023	Increased (Decreased)
Expenses	15,641.99	15,583.54	58.45
Raw materials and consumables used	3,646.51	3,977.41	(330.90)
Employee benefit expenses	3,979.73	3,755.11	224.62
Depreciation and amortization expenses	5,937.15	5,639.97	297.18
Other operating expenses	2,012.72	2,182.38	(169.66)
Other expenses	65.88	28.67	37.21
Financial Cost	11.48	15.08	(3.60)
Total	15,653.47	15,598.62	54.85

The MWA's total expenses rise to 15,653.47 million baht, higher than the previous year 54.85 million baht or 0.35 percent, mostly due to **depreciation and amortization expenses** resulting from the depreciation of pipeline replacement for water loss reduction and increasing **employee benefit expenses** from salaries and medical expenses. Meanwhile, **raw materials and consumables used** decreased lower than the previous year due to electricity expenses significantly lower than the previous year, owing to a decrease in the Average Variable Tariff (Ft) for the entire year 0.7606 baht/unit.



Financial Position

Unit: Million THB



- **Total assets** amount to 93,470.40 million baht, higher than the previous year 3,246.27 million baht, mostly due to increasing assets under construction (the Ninth Bangkok Water Improvement Project) and permanent assets, including an increase in pipes, buildings, and structures, while investment capital in financial assets decreased.
- **Total liabilities** amount to 19,616.46 million baht, higher than the previous year 633.51 million baht, mostly due to trade accounts payable and an increase in unearned income from private sector pipe installation projects.
- **Equity** amounts to 73,853.94 million baht, higher than the previous year 2,612.76 million baht due to an increase in retained earnings.

Liquidity

As of 30 September 2024, the MWA's cash and cash-equivalent transactions are equal to 3,781.86 million baht or decreased from 2023 by 519.45 million baht, as the following details:

Unit: Million Baht

Item	2024	2023	Increase (Decrease) Cash Flow
▶ Net cash from operating activities	7,209.57	7,176.14	33.43
▶ Net cash used in investing activities	(4,932.21)	(2,074.17)	2,858.04
▶ Net cash used in financing activities	(2,769.81)	(2,493.69)	303.12
Net increase (decrease) in cash and cash equivalents	(519.45)	2,608.28	(3,127.73)
▶ Cash and cash equivalents at the beginning of the period	4,301.31	1,693.03	2,608.28
▶ Cash and cash equivalents at the ending of the period	3,781.86	4,301.31	(519.45)

- **Net cash from operating activities** amounts to 7,209.57 million baht, higher than the previous year 33.43 million baht, mostly due to an increase in revenues from water sales and water meter fees.
- **Net cash used in investing activities** amounts to 4,932.21 million baht, higher than the previous year 2,858.04 million baht, mostly due to an increase in the MWA's investment disbursements, mostly including pipe replacement for water loss reduction and the Ninth Bangkok Water Improvement Project.
- **Net cash used in financing activities** amounts to 2,796.81 million baht, higher than the previous year 303.12 million baht, mostly due to an increase in remittance to the Ministry of Finance.

The MWA Audit Committee's Report

The MWA Audit Committee is appointed by the MWA Board of Directors according to the MWA Board of Directors Order No. 1/2024 issued on 29 January 2024 consisting of three knowledgeable, competent, and experienced directors based on necessary competencies and knowledge (Skills Matrix) as follows:

- | | | |
|--------------------------------|-------------|----------|
| 1. Lieutenant General Sumat | Promtrut | Chairman |
| 2. Mr. Kiatnarong | Wongnoi | Member |
| 3. Associate Professor Chaiwat | Oottamakorn | Member |

Assistant Governor (Internal Audit Office) serves as the secretary of the MWA Audit Committee.

In the fiscal year 2024, the Audit Committee held entirely 11 meetings in accordance with the Action Plan of the Internal Audit Office, when all committee members attended every meeting. Risk Management and Internal Control Subcommittee, the MWA Digital Technology Development Subcommittee, top executives, internal auditors, and representatives from the State Audit Office of the Kingdom of Thailand also attend the meetings in compliance with relevant agendas for discussion and exchange of opinions. All meeting reports submitted to the MWA Board of directors are summarized as follows:

Financial Report

The MWA financial report for the fiscal year 2023 and the financial statements of the first to the third quarters of the fiscal year 2024 are audited by the MWA Audit Committee as well as discussing with finance executives to inquire and provide opinions on material issues that may possibly affect the financial report. It is to ensure accuracy, properness, and materiality of the financial report as in line with Thai Financial Reporting Standards (TFRS), in addition to disclosing sufficient and significant information and presenting transactions useful to users of the financial report.

The MWA Audit Committee held one particular meeting associated with the representatives of the State Audit Office of the Kingdom of Thailand without the presence of any executives in order to discuss the performance, findings derived from auditing the financial report, and other relevant matters. In the fiscal year 2024, the State Audit Office of the Kingdom of Thailand is the MWA auditor with a total audit fee of 4 million baht.

Risk Management, Internal Control, and Good Corporate Governance

The operation of risk management process is audited to ensure that risk management can manage risks that might affect the achievement of corporate objectives by regular auditing on the efficiency and appropriateness of risk management processes.

The efficiency, effectiveness, and sufficiency of the internal control are audited by considering the audit performance of the Audit Office and representatives of the State Audit Office of the Kingdom of Thailand. The performance report of the committee regarding the internal control was complied with the criteria of the Ministry of Finance, including reports on significant findings and concrete solutions for submitting to the MWA Board of Directors.

Performance audit shall comply with related laws, regulations, and specifications to ensure consistency with good corporate governance principles, while suggestions were given to the responsible departments for better improvement.

Organizational Performing According to the State Enterprise Assessment: SE-AM (Core Business Enablers) and Monitoring on Observations/Suggestions of Regulatory Agency

The varied performance auditing ensures organization management in accordance with 7 Core Business Enablers of state enterprises, and further opinions/suggestions are given to add values and systematically upgrade the MWA operational processes as well as performance monitoring due to observations/suggestions of regulatory agency.

Oversight and Internal Audit Improvement

It is to consider reviewing and improving, along with approval for the internal audit charter and operating manual, 5-year long-term audit plan, an annual audit plan, internal audit improvement plan, and to audit performance reports, align with providing further suggestions and opinions given apart from the Internal Audit Office. The solutions of material issues are monitored while considering the merit, promotion, appointment of employees, independence, management structure of Internal Audit Office, personnel recruitment plan, development guidelines and retention of personnel with knowledge and skills or those who receive professional certificates to promote self-improvement of the internal auditors to obtain professional certificate in internal auditing or other related professions, sufficiency and appropriateness of the Internal Audit Office's human resources and other resources, training plans, including use of digital technology to support internal audit tasks and enhance the working efficiency.

Quality Maintaining of the Audit Committee

The Audit Committee Charter and operating manual were considered, reviewed, and improved while reviewing the necessary competencies and knowledge (Skills Matrix) of the Audit Committee along with an assessment of the Audit Committee's composition, attributes, and audit performances both on collective and individual basis according to best practice guidelines. The Audit Committee's action plan and improvement plan were specified while reporting audit results to the MWA Board of Directors for acknowledgment on quarterly and annually basis. Self-development promoted the Audit Committee according to the improvement plan via participating in various training programs such as Risk Management and Enterprise Risk Management Framework (COSO-ERM 2017) and Director Accreditation Program: DAP 201/2023 of Thai Institute of Directors (IOD), and Cyber Forensics of the Federation of Accounting Professions under the Royal Patronage of His Majesty the King, including the internal and external study visits and discussion associated with top executives.

In conclusion, the Audit Committee performs the duties with professional competence, due care, and adequate independence according to duties and responsibilities stipulated in the Audit Committee's Charter and operating manual. The Audit Committee's opinions express that the financial report showing material information and reliability pursuant to financial reporting standards, risk management to an acceptable level, and adequate internal control under good corporate governance principles in compliance with related laws, regulations and specifications in addition to provide opinions and useful suggestion as well as systematic add value to the Metropolitan Waterworks Authority.



(Lieutenant General Sumat Promtrut)
Chairman of the MWA Audit Committee

Note: The MWA Audit Committee (according to the MWA Board of Directors Order No. 1/2024 on 29 January 2024) considered and approved the MWA financial statement for the year ended 30 September 2024 (approved by the State Audit Office of the Kingdom of Thailand) in the meeting No. 2/2025 on 8 April 2025.

Report of Board of Directors' Responsibility for the Financial Report

The Board of Directors of the Metropolitan Waterworks Authority (MWA) is responsible for the financial statement by directing the preparation of financial statement in accordance with the generally accepted accounting standards. There is an adequate disclosure of significant information in the Notes to the Financial Statement as well as certified by the State Audit Office of the Kingdom of Thailand.

The Board of Directors has appointed the MWA Audit Committee, which comprises Independent Directors, to supervise the auditing, the review of the financial statement, and the internal control, to ensure the accounting records are correct, fully adequate, and punctual, and to prevent fraud and irregular conduct.

The MWA Board of Directors has considered that the financial statement of the Metropolitan Waterworks Authority reports the financial status, performance results, and changes in equity and cash flow accurately in the subject matters under generally accepted accounting standards.



(Mr. Chaiwat Chuenkosum)
Chairman, MWA Board of Directors



(TRANSLATION)

AUDITOR'S REPORT

To The Board of Directors of Metropolitan Waterworks Authority

Opinion

The State Audit Office of the Kingdom of Thailand has audited the financial statements of Metropolitan Waterworks Authority (MWA) which comprise the statements of financial position as at September 30, 2024, the statements of income, the statements of comprehensive income, the statements of changes in equity and the statements of cash flows for the year then ended, and the notes to the financial statements, including a summary of significant accounting policies.

In the State Audit Office of the Kingdom of Thailand's opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Metropolitan Waterworks Authority as at September 30, 2024, and its financial performance and its cash flows for the year then ended in accordance with Thai Financial Reporting Standards.

Basis for opinion

The State Audit Office of the Kingdom of Thailand conducted the audit in accordance with State Audit Standards and Thai Standards on Auditing. The State Audit Office of the Kingdom of Thailand's responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of the State Audit Office of the Kingdom of Thailand's report. The State Audit Office of the Kingdom of Thailand is independent of MWA in accordance with the ethical requirements set out in the State Audit Standards issued by the State Audit Commission and the Code of Ethics for Professional Accountants including Independence Standards issued by the Federation of Accounting Professions (Code of Ethics for Professional Accountants) that are relevant to the State Audit Office of the Kingdom of Thailand's audit of the financial statements, and has fulfilled other ethical responsibilities in accordance with State Audit Standards and the Code of Ethics for Professional Accountants. The State Audit Office of the Kingdom of Thailand believes that the audit evidence the State Audit Office of the Kingdom of Thailand has obtained is sufficient and appropriate to provide a basis for the State Audit Office of the Kingdom of Thailand's opinion.

Other information

The management is responsible for the other information. The other information comprises the information included in the annual report, but does not include the financial statements and auditor's report thereon. The State Audit Office of the Kingdom of Thailand expects to receive the annual report after the date of this auditor's report.

The State Audit Office of the Kingdom of Thailand's opinion on the financial statements does not cover the other information and the State Audit Office of the Kingdom of Thailand will not express any form of assurance conclusion thereon.

In connection with the audit of the financial statements, the State Audit Office of the Kingdom of Thailand's responsibility is to read the other information identified above when it becomes available and, in doing so, consider whether the other information is materially inconsistent with the financial statements or the State Audit Office of the Kingdom of Thailand's knowledge obtained in the audit, or otherwise appears to be materially misstated.

When the State Audit Office of the Kingdom of Thailand reads the annual report, if the State Audit Office of the Kingdom of Thailand concludes that there is a material misstatement therein, the State Audit Office of the Kingdom of Thailand is required to communicate the matter to those charged with governance.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Thai Financial Reporting Standards, and for such internal control as management determines is necessary to enable the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the management is responsible for assessing the MWA's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate MWA or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the MWA's financial reporting process.

Auditor's Responsibilities for the audit of the Financial Statements

The State Audit Office of the Kingdom of Thailand's objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes the State Audit Office of the Kingdom of Thailand's opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with State Audit Standards and Thai Standards on Auditing will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with State Audit Standards and Thai Standards on Auditing, the State Audit Office of the Kingdom of Thailand exercises professional judgment and maintain professional skepticism throughout the audit. The State Audit Office of the Kingdom of Thailand also :

- Identifies and assesses the risks of material misstatement of the financial statements, whether due to fraud or error, designs and performs audit procedures responsive to those risks, and obtains audit evidence that is sufficient and appropriate to provide a basis for the State Audit Office of the Kingdom of Thailand's opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.

- Obtains an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the MWA's internal control.

- Evaluates the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.

- Concludes on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the MWA's ability to continue as a going concern. If the State Audit Office of the Kingdom of Thailand concludes that a material uncertainty exists, the State Audit Office of the Kingdom of Thailand is required to draw attention in the auditor's report of the State Audit Office of the Kingdom of Thailand to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify the State Audit Office of the Kingdom of Thailand's opinion. The State Audit Office of the Kingdom of Thailand's conclusions are based on the audit evidence obtained up to the date of the auditor's report of the State Audit Office of the Kingdom of Thailand. However, future events or conditions may cause MWA to cease to continue as a going concern.

- Evaluates the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

The State Audit Office of the Kingdom of Thailand communicates with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that the State Audit Office of the Kingdom of Thailand identifies during the State Audit Office of the Kingdom of Thailand's audit.

(Signed) *Somathut Nithitreerat*

(Mr. Somathut Nithitreerat)

Director of Financial Audit Office No.6

(Signed) *Piyarat Tangkanjanapas*

(Ms. Piyarat Tangkanjanapas)

Division Director

State Audit Office of the Kingdom of Thailand
February 26, 2025

English translation of the Auditor's Report has not been reviewed by The State Audit Office of the Kingdom of Thailand.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF FINANCIAL POSITION
AS OF SEPTEMBER 30, 2024

			Unit : Baht
	<u>Note</u>	<u>2024</u>	<u>2023</u>
ASSETS			
Current assets			
Cash and cash equivalents	4.1, 6.1	3,781,860,408	4,301,305,667
Trade accounts receivable and other current receivables	4.2, 6.2	1,684,109,445	1,364,640,490
Inventories and supplies	4.3, 6.3	203,347,358	213,182,389
Investment in current financial assets	6.4	6,141,026,184	5,749,878,044
Current special-purpose deposits at financial institutions	6.5	1,483,842,003	1,480,640,069
Other current assets	6.6	209,063,575	206,023,331
Total current assets		13,503,248,973	13,315,669,990
Non-current assets			
Investment in non-current financial assets	6.7	999,982,638	8,629,631,930
Advance payment	6.8	2,476,949,135	3,917,591,060
Assets under construction	4.4, 6.9	24,668,475,437	16,597,187,286
Property, plant and equipment	4.5, 6.10	50,802,009,392	47,322,733,607
Right-of-use assets	4.12, 6.11	244,772,794	209,982,291
Intangible assets	4.6, 6.12	205,927,232	179,078,346
Other non-current assets	6.13	569,038,668	52,259,978
Total non-current assets		79,967,155,296	76,908,464,498
Total assets		93,470,404,269	90,224,134,488

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF FINANCIAL POSITION
AS OF SEPTEMBER 30, 2024

			Unit : Baht
	<u>Note</u>	<u>2024</u>	<u>2023</u>
LIABILITIES AND EQUITY			
Current liabilities			
Trade accounts payable		3,094,709,574	2,555,228,829
Current portion of long-term loans	6.14	-	69,651,332
Current portion of lease liabilities	4.12, 6.15	128,757,826	215,539,168
Accrual remittance to the Ministry of Finance	6.16	1,043,320,000	1,069,850,000
Other current liabilities	6.17	1,735,587,672	1,966,026,485
Total current liabilities		6,002,375,072	5,876,295,814
Non-current liabilities			
Lease liabilities	4.12, 6.15	139,389,584	90,947,012
Employee benefit obligations	4.11, 6.18	2,743,553,769	2,665,226,006
Provision on litigation	6.19	76,222,000	73,411,181
Water usage guarantee		1,321,337,702	1,349,956,953
Deferred revenues	4.7, 6.20	7,435,967,590	7,055,068,604
Unearned income		725,969,000	898,091,403
Other non-current liabilities	6.21	1,171,642,443	973,955,780
Total non-current liabilities		13,614,082,088	13,106,656,939
Total liabilities		19,616,457,160	18,982,952,753

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF FINANCIAL POSITION
AS OF SEPTEMBER 30, 2024

			Unit : Baht
	<u>Note</u>	<u>2024</u>	<u>2023</u>
Equity			
Capital	6.22	8,386,847,139	8,386,847,139
Unappropriated retained earnings		65,641,566,248	63,065,972,822
Other components of equity		(174,466,278)	(211,638,226)
Total equity		<u>73,853,947,109</u>	<u>71,241,181,735</u>
Total liabilities and equity		<u>93,470,404,269</u>	<u>90,224,134,488</u>

The accompanying notes are an integral part of these financial statements.

(Signed) Suwara Thawitchasri

(Miss Suwara Thawitchasri)

MWA Governor

(Signed) Daorung Phusantisamphan

(Miss Daorung Phusantisamphan)

Accounting Department Director

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF INCOME
FOR THE YEARS ENDED SEPTEMBER 30, 2024

			Unit : Baht
	Note	2024	2023
Revenues			
Water sales		17,615,084,269	16,679,689,359
Water meter fees		1,039,371,744	1,027,028,149
Tap water connection fees		327,896,371	324,214,507
Work contract revenues		707,344,100	659,525,613
Other operating income		348,969,306	352,784,401
Other revenues		392,385,978	93,712,872
Total Revenues		20,431,051,768	19,136,954,901
Expenses			
Work performed by the entity and capitalized		(93,993,008)	(72,479,750)
Raw materials and consumables used	6.23	3,646,507,464	3,977,412,487
Directors remuneration	6.24	19,299,018	31,623,898
Employee benefit expenses		3,979,732,026	3,755,104,350
Depreciation and amortization expenses		5,937,150,060	5,639,962,579
Other operating expenses	6.25	2,087,411,507	2,223,239,028
Other expenses		65,878,885	28,671,470
Total Expenses		15,641,985,952	15,583,534,062
Profit from operating		4,789,065,816	3,553,420,839
Finance income		348,875,350	322,151,255
Finance costs	6.26	(11,477,740)	(15,081,663)
Profit for the year		5,126,463,426	3,860,490,431

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF COMPREHENSIVE INCOME
FOR THE YEARS ENDED SEPTEMBER 30, 2024

			Unit : Baht
	<u>Note</u>	<u>2024</u>	<u>2023</u>
Profit for the year		5,126,463,426	3,860,490,431
Other comprehensive income			
Items that will not be reclassified to profit or loss			
in subsequent periods			
Actuarial Gains (Losses)	6.18	(4,766,102)	(9,361,031)
Items that will be reclassified to profit or loss			
in subsequent periods			
Gains (Losses) on cash flow hedge		41,938,050	5,556,148
Other comprehensive income for the year		<u>37,171,948</u>	<u>(3,804,883)</u>
Total comprehensive income for the year		<u><u>5,163,635,374</u></u>	<u><u>3,856,685,548</u></u>

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF CHANGES IN EQUITY
FOR THE YEARS ENDED SEPTEMBER 30, 2024

Unit : Baht						
	Contributions		Unappropriated retained earnings	Other components of equity		
	Initial Capital	from the Government		Actuarial Gains (Losses)	Cash flow hedge reserve	Total equity
Balance as of October 1, 2022	1,192,708,301	7,194,138,838	61,349,332,391	(160,339,145)	(47,494,198)	69,528,346,187
Remittance to Ministry of Finance	-	-	(2,143,850,000)	-	-	(2,143,850,000)
Profit for the year	-	-	3,860,490,431	-	-	3,860,490,431
Total comprehensive income for the year	-	-	-	(9,361,031)	5,556,148	(3,804,883)
Balance as of September 30, 2023	1,192,708,301	7,194,138,838	63,065,972,822	(169,700,176)	(41,938,050)	71,241,181,735
Balance as of October 1, 2023	1,192,708,301	7,194,138,838	63,065,972,822	(169,700,176)	(41,938,050)	71,241,181,735
Remittance to Ministry of Finance	-	-	(2,550,870,000)	-	-	(2,550,870,000)
Profit for the year	-	-	5,126,463,426	-	-	5,126,463,426
Total comprehensive income for the year	-	-	-	(4,766,102)	41,938,050	37,171,948
Balance as of September 30, 2024	1,192,708,301	7,194,138,838	65,641,566,248	(174,466,278)	-	73,853,947,109

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED SEPTEMBER 30, 2024

	2024	2023
		Unit : Baht
Cash flows from operating activities		
Profit for the year	5,126,463,426	3,860,490,431
Adjustment of net income to cash received (paid)		
From operating activities		
Depreciation	5,829,751,477	5,546,359,193
Amortization - intangible assests	107,398,583	93,603,386
Impairment loss	4,622,566	1,533,092
(Gains) losses from disposal of assets	17,993,116	20,891,935
Gains from disposal of obsolete materials and supplies	(27,702,790)	(25,467,775)
Gains from terminated leases	-	(86,437)
Finance costs	11,477,740	15,081,663
Finance income	(348,875,350)	(322,151,255)
Deferred revenues from donated assets	(1,330,159)	(1,320,855)
Deferred revenues from services	(1,001,821,366)	(950,411,807)
Provision for employee benefit obligations	226,440,241	224,031,234
Prosecution losses	6,200,000	42,687,747
Non - operating revenues	(224,117,426)	-
Other operating expenses	(536,400)	-
Other non - operating expenses	39,120,343	-
Operating income before changes in operating assets and liabilities	9,765,084,001	8,505,240,552
Operating assets (increase) decrease		
Trade accounts receivable and other current receivables	(324,254,359)	(106,446,420)
Inventories	348,841,254	213,056,532
Other current assets	(75,200,013)	(47,833,942)
Other non-current assets	(517,058,852)	(29,887,902)
Operating liabilities increase (decrease)		
Trade accounts payable	(2,984,862,018)	(2,813,216,821)
Accrued bonus expense	121,083,810	(5,899,174)
Other current liabilities	(377,449,862)	(187,044,331)
Provision for employee benefits	(152,878,581)	(143,201,079)
Provisions for litigation	(3,389,180)	(8,176,922)
Water usage guarantee	(28,619,251)	(31,057,865)
Deferred revenues	272,207,791	317,498,769
Unearned income	942,161,909	1,085,876,049
Other non-current liabilities	223,904,292	427,212,771
Net cash from operating activities	7,209,570,941	7,176,120,217

The accompanying notes are an integral part of these financial statements.

METROPOLITAN WATERWORKS AUTHORITY
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED SEPTEMBER 30, 2024

	2024	2023
	Unit : Baht	
Cash flows from investing activities		
Cash inflow (outflow) from investments in current financial assets	(391,162,820)	1,125,000,000
Payments of non-current special-purpose deposits		
at financial institutions	(3,200,638)	(136,288,883)
Proceeds from investment in non-current financial assets	7,630,000,000	6,810,000,000
Proceeds from non-current special-purpose deposits		
at financial institutions	-	165,000,000
Interest received	421,046,172	260,731,921
Proceeds from disposals of assets	39,232,523	49,396,809
Proceeds from disposal of obsolete materials and supplies	28,033,314	25,564,826
Payments of fixed assets acquisition	(12,656,157,264)	(10,372,702,450)
Advance payment for lease agreement	-	(875,000)
Net cash used in investing activities	(4,932,208,713)	(2,074,172,777)
Cash flows from financing activities		
Repayment on borrowing	(67,570,369)	(70,471,563)
Installment payment on lease	(147,791,390)	(157,207,154)
Finance costs	(4,043,300)	(9,415,090)
Remittance to Ministry of Finance	(2,577,400,000)	(2,256,600,000)
Net cash used in financing activities	(2,796,805,059)	(2,493,693,807)
Net increase in cash and cash equivalents	(519,442,831)	2,608,253,633
Allowance for expected credit losses (increase) decrease	(2,428)	24,590
Cash and cash equivalents at the beginning of the period	4,301,305,667	1,693,027,444
Cash and cash equivalents at the ending of the period	3,781,860,408	4,301,305,667
Supplementary cash flow information		
Invested in fixed assets on payables	2,174,819,521	1,404,327,373

The accompanying notes are an integral part of these financial

METROPOLITAN WATERWORKS AUTHORITY
NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEARS ENDED SEPTEMBER 30, 2024

1. GENERAL INFORMATION

Metropolitan Waterworks Authority (MWA) is the state enterprise under the Metropolitan Waterworks Authority Act, B.E. 2510 (1967) and its amendment with objectives as follows:

- 1.1 To survey and provide raw water sources and acquire raw water for use in the waterworks.
- 1.2 To produce, supply and distribute treated water in the Bangkok Metropolis, Nonthaburi and Samut Prakan provinces and control the standard of the private waterworks system in such areas.
- 1.3 To engage in other related business or beneficial to MWA.

The head office is located at 400 Prachachuen Road, Laksi, Bangkok, 10210.

2. BASIS OF PREPARATION AND PRESENTATION OF THE FINANCIAL STATEMENTS

The financial statements have been prepared in accordance with Thai Generally Accepted Accounting Principles under the Accounting Act, B.E.2543 being these Thai Financial Reporting Standards issued under the Accounting Profession Act, B.E.2547 including accounting interpretations and guidelines promulgated by the Federation of Accounting Professions and announcements Department of Business Development “Definition of the abbreviated components required in the financial statements (No. 3) B.E. 2562” dated December 26, 2019.

Preparation of financial statements in accordance with Thai Financial Reporting Standards, Management is required to use estimates and assumptions that affect income, expenditure, assets and liabilities for the purpose of determining the value of assets, liabilities as well as contingent liabilities. For that reason, the result of the transactions when actually happened therefore may differ from the estimates.

3. NEW FINANCIAL REPORTING STANDARDS

3.1 Financial Reporting Standards that became effective in the current year

MWA has adopted the revised and new accounting standards, financial reporting standards and interpretation issued by the Federation of Accounting Professions which effective for fiscal years beginning on or after January 1, 2023. These financial reporting standards were aimed at alignment with the corresponding International Financial Reporting Standards, with most of the changes directed towards clarifying accounting treatment and providing accounting guidance for users of the standards. The adoption of these financial reporting standards does not have any significant impact on MWA’s financial statements.

3.2 Financial reporting standards that are not yet effective

During the period, the Federation of Accounting Professions issued a number of revised financial reporting standards (Revised 2023), which are effective for fiscal years beginning on or after January 1, 2024 . These financial reporting standards were aimed at alignment with the corresponding International Financial Reporting Standards. The management of MWA is currently evaluating the impact of these standards to the financial statements in the year when they are adopted.

4. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

4.1 CASH AND CASH EQUIVALENTS

Cash and cash equivalents comprise cash on hand, deposits held at call with banks but do not include deposits with banks which are held to maturity, and other short-term highly liquid investments with maturities of three months or less from the date of acquisition and without restriction of use and that are subject to an insignificant risk of change in value.

4.2 TRADE ACCOUNTS RECEIVABLE AND OTHER CURRENT RECEIVABLES

Trade accounts receivable and other current receivables measure initially at fair value and measure later with the amortized cost price.

Trade accounts receivable and accrued revenue of water sales, meter fees and raw waters, MWA uses a simple method for calculating allowance for expected credit losses over the life of trade accounts receivable. The expected loss rate is calculated at the end of each reporting period.

Other current receivables, MWA calculates the allowance for expected credit losses by considering the accounts receivable that expected to be unable to collect by estimated from the amount of outstanding debt at the end of the period according to payment history and the current financial status of the accounts receivable, including considering the percentage according to the accounts receivable aging of the outstanding balance at the end of the period.

Increases and decreases in allowance for expected credit losses are expensed in the period that occurred.

4.3 INVENTORIES

Inventories are valued at the lower of cost price or net realizable value, Consist of:

4.3.1 Materials and supplies use in MWA's operation such as pipes, water meter and chemical are valued at cost moving average method.

For disposal obsolete materials will have an allowance for loss in the whole amount.

Obsolete materials by dismantling of assets valued at book values.

4.3.2 Finished Goods comprises of drinkable bottle are valued cost moving average method.

4.4 ASSETS UNDER CONSTRUCTION

All costs related directly to qualifying assets and those assets under construction are recorded at cost. When the construction is completed and in the condition necessary for it to be capable of operating in the manner of its intended use, its cost will be transferred to property, plant and equipment.

4.5 PROPERTY, PLANT AND EQUIPMENT

Property, plant and equipment are stated at cost at the date of purchase or acquisition. or the completion of constructions, the expenses incurred to keep the asset in a ready-to-use condition less accumulated depreciation.

Depreciation of plant and equipment is calculated by reference to their costs on a straight-line basis over the estimated useful lives as follows:

	Useful lives (Years)
Land improvement	30
Building and factory	30
Machinery and equipment	5, 7, 10, 20, 25
Pipe and tunnel	10, 15, 25, 35, 50
Meter	7, 10
Office equipments	5, 10
Vehicles	5, 8

Donated assets are recorded with deferred revenue and recognized to revenue throughout the useful lives.

4.6 INTANGIBLE ASSETS

Intangible assets include the right to use the digital data map and the computer software, presented at cost deducted by accumulated amortization expense. Amortization is charged to the income statement on a straight-line basis according to the 2-20 years estimated useful life of assets.

4.7 DEFERRED REVENUES

4.7.1 The asset from donation account is recorded together with the Deferred revenue from donation. They are recognized as income at a rate consistent with depreciation over the useful life of that asset for donation assets in operations.

4.7.2 Deferred revenue is the money that the MWA charges from applicants for water usage to install new water supply and lay pipes. The ownership of assets, maintenance and repair belong to the MWA. Such items are presented as deferred revenues. They are recognized as income at a rate consistent with depreciation over the useful life of that asset.

4.8 REVENUES

MWA recognizes revenue when it fulfills its obligations to customers by delivery goods or services promised to customers in an amount that reflects the expected consideration to be entitled to the exchange of goods or services the amount of revenue recognized is the amount allocated to the performance obligation. For a contract of delivery of goods, it is an obligation that must be fulfilled at a certain point in time. Service delivery are obligations that must be completed over a period of time at the end of the reporting period. MWA recognizes revenue by measuring the progression of the performance obligation.

4.9 BORROWING COSTS

Borrowing costs consist of interest expense, fee, all of the finance charges and exchange differences arising from foreign currency. Adjustment of the cost of interest expense recognized as an expense in the whole amount. Except for borrowing costs related to qualifying fixed assets and assets under construction are capitalized as part of the constructions cost. When constructions are completed, such borrowing costs will be recorded as the expenses.

Interest expense from financial liabilities at amortised cost is calculated using the effective interest method and recognized on an accrual basis.

4.10 FOREIGN CURRENCY TRANSACTIONS

Foreign currency transactions in foreign currencies are converted into Thai Baht by using the exchange rates prevailing at the transaction date. Monetary assets and liabilities denominated in foreign currencies at the fiscal year-end date are converted into Thai Baht at the average buying or selling rate announced by the Bank of Thailand at such date. Gains or losses on exchange rate arising on settlements and conversion are recognized as revenue or expense.

4.11 EMPLOYEE BENEFITS

Recognition and measurement

4.11.1 Short-term employee benefits are recognized in profit and loss as expenses when incurred.

4.11.2 Post-employment benefits

Defined contribution plans

MWA and its employees have established MWA provident fund in accordance with the Provident Fund Act B.E. 2530 (1987) and registered on June 2, 1997.

The fund is separated from assets of MWA and managed by asset management company and will be paid to employees upon termination of employment in accordance with the rules of the fund.

The MWA contributes to the fund on a monthly basis at a rate of 9% of salaries for members having 1-10 years of service, 10% for members having 11-20 years of service and 11 % for members having more than 20 years of service. Contributions are recognized as expenses when incurred.

Defined benefit plans comprised of 4 projects as follows:

1. The pension fund MWA established MWA employee pension fund on October 28, 1976 with the objective of helping the employees in the case of vacating office without fault equal to the product of working age calculated annually by the last month's salary. MWA contribution to the fund on a monthly basis at the rate of 10% of salary of MWA pension fund members.

2. The remuneration on retirement preferences is employee benefits are notification of State Enterprise Labor Relations Commission's minimum standards of employment conditions in state-owned enterprises, 2010. Employee retired which work more than 15 years. Benefits are equal to the wage rate of the last 300 days.

On September 25, 2019, the State Enterprise Labor Relations Committee announced The Government Gazette, the minimum standard of employment conditions in state enterprises (Issue 4), issued with the approval of the Cabinet on September 10, 2019 which stipulates that employees who have worked continuously for 20 years or more to receive benefits not less than the last 400 days' wage rate.

3. The annual leave project that has not been exercised is employee benefits retirement and the annual leave is not exercised. Benefits are equal to the number of days that have not been exercised. Up to 45 days of the final wage rate.

4. The project of the awards age 60 years or retirement is a project of the awards when employees age 60 years or retirement.

The obligation under the defined benefit plan is determined based on actuarial techniques, using the Projected Unit Credit Method, in order to determine present value of the obligation, current service cost and past service cost. These are recognized as a liability in statements of financial position and expenses in statements of income. Actuarial gains and losses arising from post-employment benefits are recognized in statements of comprehensive income when incurred.

4.11.3 Other long-term employee benefits plan is a project of the awards when employees have worked for 25 years.

MWA uses actuarial estimation techniques in the same method as for termination of employment benefit plans. It is recognized as a liability in statements of financial position. Actuarial expenses and gains (losses) are recognized in statements of income in the period in which they are incurred.

4.12 Leases

At inception of contract, MWA assesses whether a contract is, or contains, a lease. A contract is, or contains, a lease if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration.

MWA as a lessee

MWA applied a single recognition and measurement approach for all leases, except for short-term leases and leases of low-value assets. At the commencement date of the lease (i.e. the date the underlying asset is available for use), MWA recognizes right-of-use assets representing the right to use underlying assets and lease liabilities based on lease payments.

Right-of-use assets

Right-of-use assets are measured at cost, less accumulated depreciation, any accumulated impairment losses, and adjusted for any remeasurement of lease liabilities. The cost of right-of-use assets includes the amount of lease liabilities initially recognized, initial direct costs incurred, and lease payments made at or before the commencement date of the lease less any lease incentives received.

Depreciation of right-of-use assets are calculated by reference to their costs, on the straight-line basis over the shorter of their estimated useful lives and the lease term.

Land	3 - 30	years
Building and improvements	36	months
Machinery and equipment	13 - 32	months
Office –equipments	36	months
Vehicles	60	months

If ownership of the leased asset is transferred to MWA at the end of the lease term or the cost reflects the exercise of a purchase option, depreciation is calculated using the estimated useful life of the asset.

Lease liabilities

Lease liabilities are measured at the present value of the lease payments to be made over the lease term. The lease payments include fixed payments less any lease incentives receivable, variable lease payments that depend on an index or a rate, and amounts expected to be payable under residual value guarantees. Moreover, the lease payments include the exercise price of a purchase option reasonably certain to be exercised by MWA and payments of penalties for terminating the lease, if the lease term reflects MWA exercising an option to terminate. Variable lease payments that do not depend on an index or a rate are recognized as expenses in the period in which the event or condition that triggers the payment occurs.

MWA discounted the present value of the lease payments by the interest rate implicit in the lease or MWA's incremental borrowing rate. After the commencement date, the amount of lease liabilities is increased to reflect the accretion of interest and reduced for the lease payments made. In addition, the carrying amount of lease liabilities is remeasured if there is a change in the lease term, a change in the lease payments or a change in the assessment of an option to purchase the underlying asset.

Short-term leases and leases of low-value assets

A lease that has a lease term less than or equal to 12 months from commencement date or a lease of low-value assets is recognized as expenses on a straight-line basis over the lease term.

4.13 Financial instruments

MWA initially measures financial assets at its fair value plus transaction costs, in the case of financial assets that are not measured at fair value through profit or loss. However, trade receivables, that do not contain a significant financing component, are measured at the transaction price.

Classification and measurement of financial assets

Financial assets are classified, at initial recognition, as to be subsequently measured at amortised cost, fair value through other comprehensive income ("FVOCI"), or fair value through profit or loss ("FVTPL"). The classification of financial assets at initial recognition is driven by MWA's business model for managing the financial assets and the contractual cash flows characteristics of the financial assets.

Financial assets at amortised cost

MWA measures financial assets at amortised cost if the financial asset is held in order to collect contractual cash flows and the contractual terms of the financial asset give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

Financial assets at amortised cost are subsequently measured using the effective interest rate ("EIR") method and are subject to impairment. Gains and losses are recognized in profit or loss when the asset is derecognized, modified or impaired.

Classification and measurement of financial liabilities

Except for derivative liabilities, at initial recognition MWA's financial liabilities are recognized at fair value net of transaction costs and classified as liabilities to be subsequently measured at amortised cost using the EIR method. Gains and losses are recognized in profit or loss when the liabilities are derecognized as well as through the EIR amortization process. In determining amortised cost, MWA takes into account any fees or costs that are an integral part of the EIR. The EIR amortization is included in finance costs in profit or loss.

Derecognition of financial instruments

A financial asset is primarily derecognized when the rights to receive cash flows from the asset have expired or have been transferred and either MWA has transferred substantially all the risks and rewards of the asset, or MWA has neither transferred nor retained substantially all the risks and rewards of the asset but has transferred control of the asset.

A financial liability is derecognized when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the derecognition of the original liability and the recognition of a new liability. The difference in the respective carrying amounts is recognized in profit or loss.

Impairment of financial assets

MWA recognizes an allowance for expected credit losses (“ECLs”) for all debt instruments not held at FVTPL. ECLs are based on the difference between the contractual cash flows due in accordance with the contract and all the cash flows that MWA expects to receive, discounted at an approximation of the original effective interest rate.

For credit exposures for which there has not been a significant increase in credit risk since initial recognition, ECLs are provided for credit losses that result from default events that are possible within the next 12-months (a 12-month ECL). For those credit exposures for which there has been a significant increase in credit risk since initial recognition, a loss allowance is required for credit losses expected over the remaining life of the exposure (a lifetime ECL).

MWA considers a significant increase in credit risk to have occurred when contractual payments are more than 30 days past due and considers a financial asset in default when contractual payments are 90 days past due. However, in certain cases, MWA may also consider a financial asset to have a significant increase in credit risk and to be in default using other internal or external information, such as credit rating of issuers.

For trade receivables and Accrued revenue of water sales, meter fees and raw waters, MWA applies a simplified approach in calculating ECLs. Therefore, MWA does not track changes in credit risk, but instead recognises a loss allowance based on lifetime ECLs at each reporting date. It is based on its historical credit loss experience and adjusted for forward-looking factors specific to the debtors and the economic environment.

A financial asset is written off when there is no reasonable expectation of recovering the contractual cash flows.

Offsetting of financial instruments

Financial assets and financial liabilities are offset, and the net amount is reported in the statement of financial position if there is a currently enforceable legal right to offset the recognized amounts and there is an intention to settle on a net basis, to realize the assets and settle the liabilities simultaneously.

4.14 Derivatives and hedge accounting

MWA uses derivatives, cross currency swaps, to hedge its foreign currency risks.

Derivatives are initially recognized at fair value on the date on which a derivative contract is entered into and are subsequently remeasured at fair value. The subsequent changes are recognized in profit or loss unless the derivative is designated and effective as a hedging instrument under cash flow hedge. Derivatives are carried as financial assets when the fair value is positive and as financial liabilities when the fair value is negative.

Derivatives are presented as non-current assets or non-current liabilities if the remaining maturity of the instrument is more than 12 months and it is not due to be realized or settled within 12 months. Other derivatives are presented as current assets or current liabilities.

Hedge accounting

For the purpose of hedge accounting, hedge is classified as cash flow hedges when hedging the exposure to a variability in cash flows that is either attributable to a particular risk associated with a recognized asset or liability or a highly probable forecast transaction.

At the inception of a hedging relationship, MWA formally designates and documents the hedging relationship to which it wishes to apply hedge accounting and the risk management objective and strategy for undertaking the hedge.

The documentation, at the inception of the hedge and on an ongoing basis, includes identification of the hedging instrument, the hedged item, the nature of the risk being hedged and how MWA will assess whether the hedging relationship meets the hedge effectiveness requirements, including analysis of the sources of hedge ineffectiveness and how the hedge ratio is determined.

A hedging relationship qualifies for hedge accounting if it meets all the following hedge effectiveness requirements:

- There is 'an economic relationship' between the hedged item and the hedging instrument.
- The effect of credit risk is not the dominant factor in the value changes that result from that economic relationship.
- The hedge ratio of the hedging relationship is the same as that resulting from the quantity of the hedged item that MWA actually hedges and the quantity of the hedging instrument that MWA actually uses to hedge that quantity of hedged item.

Hedges that meet all the qualifying criteria for hedge accounting are accounted for, as described below:

Cash flow hedges

The effective portion of the gain or loss on the hedging instrument is recognized in other comprehensive income in the cash flow hedge reserve, while any ineffective portion is recognized immediately in profit or loss. The cash flow hedge reserve is adjusted to the lower (in absolute amounts) of the cumulative gain or loss on the hedging instrument and the cumulative change in fair value of the hedged item.

The way cash flow hedge reserve accumulated in other comprehensive income are subsequently accounted for, depends on the nature of the underlying hedged transaction. If the hedged transaction subsequently results in the recognition of a non-financial item, the reserve accumulated in equity is removed from the separate component of equity and included in the initial cost or other carrying amount of the hedged asset or liability. This is not a reclassification adjustment and is not recognized in other comprehensive income for the period. For any other cash flow hedges, the reserve accumulated in other comprehensive income is subsequently reclassified to profit or loss as a reclassification adjustment in the same period which the hedged cash flows affect profit or loss.

If cash flow hedge accounting is discontinued, the cash flow hedge reserve accumulated in other comprehensive income must remain in equity if the hedged future cash flows are still expected to occur. Otherwise, the reserve will be immediately reclassified to profit or loss as a reclassification adjustment. After discontinuation, once the hedged cash flow occurs, the way the reserve remaining in equity is accounted for depends on the nature of the underlying transaction as described above.

4.15 Fair value measurement

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between buyer and seller (market participants) at the measurement date. MWA applies a quoted market price in an active market to measure their assets and liabilities that are required to be measured at fair value by relevant financial reporting standards. Except in case of no active market of an identical asset or liability or when a quoted market price is not available, MWA measures fair value using valuation technique that are appropriate in the circumstances and maximizes the use of relevant observable inputs related to assets and liabilities that are required to be measured at fair value.

All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorized within the fair value hierarchy into three levels based on categorize of input to be used in fair value measurement as follows:

- Level 1 Use of quoted market prices in an active market for such assets or liabilities.
- Level 2 Use of other observable inputs for such assets or liabilities, whether directly or indirectly.
- Level 3 Use of unobservable inputs such as estimates of future cash flows.

At the end of each reporting period, MWA determines whether transfers have occurred between levels within the fair value hierarchy for assets and liabilities held at the end of the reporting period that are measured at fair value on a recurring basis.

5. SIGNIFICANT ACCOUNTING JUDGEMENTS AND ESTIMATES

The preparation of financial statement in conformity with generally accepted accounting principles requires management to make judgements, estimates and assumptions that affect the application of accounting policies and the reported amounts of assets, liabilities, income, and expenses. Actual results may differ from these estimates. The significant judgements and estimate is as follow:

5.1 PROPERTY, PLANT AND EQUIPMENT AND DEPRECIATION

In determining depreciation of plant and equipment, the management is required to make estimates of the useful lives and residual value of the plant and equipment and to review estimate useful lives when there are any changes.

5.2 ACCRUED REVENUE OF WATER SALES, METER FEES

Unbilled revenue was calculated from water consumption from the last reading date to reporting date by estimated from water consumption average per day of the latest month to the following month backwards 3 years.

5.3 LITIGATION

The MWA has recorded provisions on litigation for cases which have considered the status of the cases and are expected to bear liability. As for the liabilities that may arise from being prosecuted for damages. In which the management has discretion in an evaluation of a lawsuit that has been prosecuted and is confident that no damages will occur, such provisions will not be recorded at the date of the financial statements.

5.4 ALLOWANCE FOR EXPECTED CREDIT LOSSES OF TRADE RECEIVABLES AND ACCRUED REVENUE OF WATER SALES, METER FEES

In determining an allowance for expected credit losses of trade receivables and accrued revenue of water sales, the management needs to make judgement and estimates based upon, among other things, past collection history, aging profile of outstanding debts and the forecast economic condition for groupings of various customer segments with similar credit risks. MWA's historical credit loss experience and forecast economic conditions may also not be representative of whether a customer will actually default in the future.

5.5 LEASES

Determining the lease term with extension and termination options - MWA as a lessee.

In determining the lease term, the management is required to exercise judgement in assessing whether MWA is reasonably certain to exercise the option to extend or terminate the lease considering all relevant facts and circumstances that create an economic incentive for MWA to exercise either the extension or termination option.

Estimating the incremental borrowing rate - MWA as a lessee.

MWA cannot readily determine the interest rate implicit in the lease, therefore, the management is required to exercise judgement in estimating its incremental borrowing rate to discount lease liabilities. The incremental borrowing rate is the rate of interest that MWA would have to pay to borrow over a similar term, and with a similar security, the funds necessary to obtain an asset of a similar value to the right-of-use asset in a similar economic environment.

6. ADDITIONAL DATA

6.1 CASH AND CASH EQUIVALENTS comprised of:

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Cash on hand	1.26	1.20
Savings and current account	739.20	701.40
Cash in transit	3.84	23.22
Investments in debt instruments not exceeding 3 months	3,037.62	3,575.54
Total Cash and cash equivalents	3,781.92	4,301.36
<u>Less</u> Allowance for expected credit losses	(0.06)	(0.05)
Total Cash and cash equivalents - net	3,781.86	4,301.31

6.2 TRADE ACCOUNTS RECEIVABLE AND OTHER CUREENT RECEIVABLES comprised of:

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Accounts receivable	847.47	556.70
Other Current Receivables	836.64	807.94
Total	1,684.11	1,364.64

6.2.1 TRADE ACCOUNTS RECEIVABLE comprised of:

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Water utilities bills receivable	920.99	608.95
<u>Less</u> Undue output taxes water utilities	(59.87)	(39.51)
Total Water utilities bills receivable	861.12	569.44
<u>Less</u> Allowance for expected credit losses	(13.65)	(12.74)
Total Water utilities bills receivable - net	847.47	556.70

As of September 30, 2024 and 2023, the water utility bills receivable were classified by customer type and aging period as follows:

Unit : Million Baht

<u>Aging period</u>	<u>2024</u>			<u>2023</u>		
	<u>Private sector</u>	<u>Public sector</u>	<u>Total</u>	<u>Private sector</u>	<u>Public sector</u>	<u>Total</u>
Not yet due	178.02	220.54	398.56	179.40	199.78	379.18
Up to 3 months	28.92	195.56	224.48	22.47	100.26	122.73
Over 3 months - 6 months	1.82	118.16	119.98	1.52	40.03	41.55
Over 6 months - 1 year	1.81	71.88	73.69	2.67	12.98	15.65
Over 1 year	10.69	33.72	44.41	9.92	0.41	10.33
	221.26	639.86	861.12	215.98	353.46	569.44
Less Allowance for Expected Credit Losses	(13.65)	-	(13.65)	(12.74)	-	(12.74)
Total	207.61	639.86	847.47	203.24	353.46	556.70

For government and state enterprise accounts receivable as of September 30, 2024 and 2023, MWA does not set an allowance for expected credit losses as there is quite a possibility to receive payments from government and state enterprise.

The movement in the allowance for expected credit losses of trade accounts receivables are as follows.

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Balance brought forward at beginning of period	12.74	14.61
Less Provision for expected credit losses	4.66	2.32
Amount written off	(3.50)	(4.18)
Adjusting the list of cancellation of the previous year's bill	(0.25)	(0.01)
Balance carry forward at ending of period	13.65	12.74

6.2.2 OTHER CURRENT RECEIVABLES comprised of:

	Unit : Million Baht	
	<u>2024</u>	<u>2023</u>
Water installation receivable and others	6.09	6.08
<u>Less</u> Allowance for expected credit losses	(0.03)	(0.03)
Water installation receivable and others - net	6.06	6.05
Accrued revenue of water sales, meter fees and raw waters	827.57	799.11
<u>Less</u> Allowance for expected credit losses	(0.86)	(0.83)
Accrued revenue of water sales, meter fees and raw waters - net	826.71	798.28
Government debtors	3.87	3.61
Total other current receivables - net	836.64	807.94

Government debtors are water utilities bills receivable which the government bears on behalf of the debtor from the implementation of measures to alleviate the burden of water bills (measures). According to the Cabinet Resolution of February 28, 2023, the Cabinet approved the allocation of new Pracharath Welfare for eligible persons under the State Welfare Registration Program. (eligible persons). The measures of 2022 differ from those of 2017 and 2018 for government welfare card holders (card holders) : the Comptroller General's Department changed the method of disbursement of subsidies by paying directly to MWA. Previously, support payments are paid directly to card holders. Card holders must pay their own money first.

With such measures, The government bears the burden of subsidizing water bills for eligible persons in the amount of 100 baht per household per month. In the case of eligible persons under the project use tap water more than 100 baht per household per month but not more than 315 baht per household per month. Eligible persons will still be entitled to a subsidy in the amount of 100 baht per household per month. The excess of 100 baht must be paid by the eligible person himself. However, if the eligible person uses water in excess of 315 baht per household per month, must bear the entire amount of water bill.

6.3 INVENTORIES AND SUPPLIES comprised of:

	Unit : Million Baht	
	<u>2024</u>	<u>2023</u>
Materials and Supplies	197.87	201.41
Material in transit	5.48	11.77
Total	203.35	213.18

6.4 INVESTMENT IN CURRENT FINANCIAL ASSETS

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Investment in current financial assets	5,450.00	5,750.00
Investments in debt instruments exceeding 3 months	691.16	-
<u>Less</u> Allowance for expected credit losses	(0.13)	(0.12)
Total investment in current financial assets - net	<u>6,141.03</u>	<u>5,749.88</u>

6.5 CURRENT SPECIAL-PURPOSE DEPOSITS AT FINANCIAL INSTITUTIONS

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Water usage guarantee and its interests	1,483.89	1,480.69
<u>Less</u> Allowance for expected credit losses	(0.05)	(0.05)
Total Current special-purpose deposits at financial institutions - net	<u>1,483.84</u>	<u>1,480.64</u>

As of September 30, 2024 and 2023, Water usage guarantee and its interests is a water usage guarantee reserved for repayment and interest income earned from water usage guarantee amounting to 18.54 million baht and 22.04 million baht, shown in cash and cash equivalents item in the financial statements.

6.6 OTHER CURRENT ASSETS comprised of:

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Accrued interest receivable	80.22	152.39
<u>Less</u> Allowance for expected credit losses	(0.01)	(0.02)
Accrued interest receivable - net	<u>80.21</u>	<u>152.37</u>
Other assets	128.85	53.65
Total other current assets	<u>209.06</u>	<u>206.02</u>

6.7 INVESTMENTS IN NON-CURRENT FINANCIAL ASSETS

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Investments in non-current financial assets	1,000.00	8,630.00
<u>Less</u> Allowance for expected credit losses	(0.02)	(0.37)
Total investments in non-current financial assets - net	<u>999.98</u>	<u>8,629.63</u>

6.8 ADVANCE PAYMENT

As of September 30, 2024 and 2023, Advance payment amounting to 2,476.95 million baht and 3,917.59 million baht, respectively have paid according to the conditions in the agreement. The contractor has to submit Thai Government's bond or a guarantee issued by a local bank in accordance with Rules of Metropolitan Waterworks Authority (Volume 100) on Procurement B.E.2537 (1994) and Government Procurement and Supplies Management Act B.E. 2560 (2017).

6.9 ASSETS UNDER CONSTRUCTION details as follows:

Unit : Million baht

	<u>Oct 1, 2023</u>	<u>Additions</u>	<u>2024</u> <u>Transferred</u> <u>to assets</u>	<u>Sep 30, 2024</u>
The Eighth Bangkok water Supply Improvement Project	393.47	83.29	(350.94)	125.82
The Ninth Bangkok water Supply Improvement Project	6,574.08	7,504.23	(420.56)	13,657.75
Normal Capital Expenditure	9,629.64	9,580.83	(8,325.56)	10,884.91
Total	<u>16,597.19</u>	<u>17,168.35</u>	<u>(9,097.06)</u>	<u>24,668.48</u>

Unit : Million baht

	<u>Oct 1, 2022</u>	<u>Additions</u>	<u>2023</u> <u>Transferred</u> <u>to assets</u>	<u>Sep 30, 2023</u>
The Eighth Bangkok water Supply Improvement Project	393.15	0.32	-	393.47
The Ninth Bangkok water Supply Improvement Project	1,643.65	5,177.59	(247.16)	6,574.08
Normal Capital Expenditure	7,768.00	7,438.17	(5,576.53)	9,629.64
Total	<u>9,804.80</u>	<u>12,616.08</u>	<u>(5,823.69)</u>	<u>16,597.19</u>

6.10 PROPERTY, PLANT AND EQUIPMENT details as follows:

Unit : Million baht

	<u>2024</u>								<u>Property, Plant and Equipment</u> <u>Sep 30, 2024</u>
	<u>Oct 1, 2023</u>	<u>Cost</u> <u>Additions</u>	<u>Write off</u>	<u>Sep 30, 2024</u>	<u>Oct 1, 2023</u>	<u>Accumulated Depreciation</u> <u>Depreciation</u>	<u>Write off</u>	<u>Sep 30, 2024</u>	
Land	4,287.78	061	-	4,288.39	-	-	-	-	4,288.39
Building and improvements	19,781.89	735.32	(12.33)	20,504.88	14,530.73	473.40	(9.30)	14,994.83	5,510.05
Machineries and equipments	12,577.66	621.67	(148.97)	13,050.36	10,135.25	399.34	(146.96)	10,387.63	2,662.73
Pipes	104,850.43	6,489.19	(301.02)	111,038.60	72,180.88	4,029.27	(297.14)	75,913.01	35,125.59
Meters	6,372.88	956.30	(360.99)	6,968.19	4,177.93	545.75	(311.22)	4,412.46	2,555.73
Office - equipments	2,224.81	397.03	(83.98)	2,537.86	1,832.84	209.25	(83.97)	1,958.12	579.74
Vehicles and transport	303.40	10.00	(19.23)	294.17	218.49	13.00	(17.10)	214.39	79.78
Total	150,398.85	9,210.12	(926.52)	158,682.45	103,076.12	5,670.01	(865.69)	107,880.44	50,802.01

Property, plant and equipment, amounting to 158,682.45 million baht , as of September 30, 2024 included fully depreciation assets 47,586.37 million baht, which have the carrying amount 75.95 million baht.

Unit : Million baht

	<u>2023</u>								<u>Property, Plant and Equipment</u> <u>Sep 30, 2023</u>
	<u>Oct 1, 2022</u>	<u>Cost</u> <u>Additions</u>	<u>Write off</u>	<u>Sep 30, 2023</u>	<u>Oct 1, 2022</u>	<u>Accumulated Depreciation</u> <u>Depreciation</u>	<u>Write off</u>	<u>Sep 30, 2023</u>	
Land	4,287.78	-	-	4,287.78	-	-	-	-	4,287.78
Building and improvements	19,700.13	88.80	(7.04)	19,781.89	14,091.85	444.43	(5.55)	14,530.73	5,251.16
Machineries and equipments	12,458.20	278.76	(159.30)	12,577.66	9,902.07	392.19	(159.01)	10,135.25	2,442.41
Pipes	100,506.80	4,702.61	(358.98)	104,850.43	68,630.19	3,890.23	(339.54)	72,180.88	32,669.55
Meters	6,205.95	519.49	(352.56)	6,372.88	4,022.45	457.60	(302.12)	4,177.93	2,194.95
Office - equipments	2,131.41	183.59	(90.19)	2,224.81	1,740.57	182.23	(89.96)	1,832.84	391.97
Vehicles and transport	299.06	4.34	-	303.40	205.83	12.66	-	218.49	84.91
Total	145,589.33	5,777.59	(968.07)	150,398.85	98,592.96	5,379.34	(896.18)	103,076.12	47,322.73

Property, plant and equipment, amounting to 150,398.85 million baht, as of September 30, 2023 included fully depreciation assets 43,801.39 million baht, which have the carrying amount 65.79 million baht.

6.11 RIGHT-OF- USE ASSETS

Unit : Million baht

<u>2024</u>									
	<u>Cost</u>				<u>Accumulated Depreciation</u>				<u>Right of use</u>
	<u>Oct 1, 2023</u>	<u>Additions</u>	<u>Write off</u>	<u>Sep 30, 2024</u>	<u>Oct 1, 2023</u>	<u>Depreciation</u>	<u>Write off</u>	<u>Sep 30, 2024</u>	<u>Asset</u>
									<u>Sep 30, 2024</u>
Land	89.46	16.91	(83.45)	22.92	68.56	19.71	(83.45)	4.82	18.10
Building and improvements	14.28	-	-	14.28	7.14	4.77	-	11.91	2.37
Machineries and equipments	81.37	41.30	(31.29)	91.38	50.30	49.10	(31.29)	68.11	23.27
Office - equipments	16.57	-	-	16.57	8.28	5.54	-	13.82	2.75
Vehicles	368.14	136.33	(100.79)	403.68	225.56	80.63	(100.79)	205.40	198.28
Total	569.82	194.54	(215.53)	548.83	359.84	159.75	(215.53)	304.06	244.77

Unit : Million baht

<u>2023</u>									
	<u>Cost</u>				<u>Accumulated Depreciation</u>				<u>Right of use</u>
	<u>Oct 1, 2022</u>	<u>Additions</u>	<u>Write off</u>	<u>Sep 30, 2023</u>	<u>Oct 1, 2022</u>	<u>Depreciation</u>	<u>Write off</u>	<u>Sep 30, 2023</u>	<u>Asset</u>
									<u>Sep 30, 2023</u>
Land	88.04	4.40	(2.98)	89.46	47.71	23.83	(2.98)	68.56	20.90
Building and improvements	14.28	-	-	14.28	2.38	4.76	-	7.14	7.14
Machineries and equipments	112.48	31.90	(63.01)	81.37	32.22	45.08	(27.00)	50.30	31.07
Office - equipments	16.57	-	-	16.57	2.77	5.51	-	8.28	8.29
Vehicles	350.62	42.15	(24.63)	368.14	162.35	87.84	(24.63)	225.56	142.58
Total	581.99	78.45	(90.62)	569.82	247.43	167.02	(54.61)	359.84	209.98

6.12 INTANGIBLE ASSETS

Intangible assets presented at cost deduct by accumulated amortization expense. Amortization is calculated by straight-line method basis according to estimated useful life of assets, details as follows:

Unit : Million baht

2024								
	Cost			Oct 1, 2023	Accumulated Depreciation		Sep 30, 2024	Intangible assets Sep 30, 2024
	Oct 1, 2023	Additions	Write off		Amortization	Write off		
Rights to use								
the data map	215.73	-	(6.38)	209.35	199.19	3.14	(6.38)	195.95
Software	1,395.26	134.24	(35.89)	1,493.61	1,232.72	104.26	(35.89)	1,301.09
Total	1,610.99	134.24	(42.27)	1,702.96	1,431.91	107.40	(42.27)	1,497.04

Unit : Million baht

2023								
	Cost			Oct 1, 2022	Accumulated Depreciation		Sep 30, 2023	Intangible assets Sep 30, 2023
	Oct 1, 2022	Additions	Write off		Amortization	Write off		
Rights to use								
the data map	215.73	-	-	215.73	195.09	4.10	-	199.19
Software	1,261.51	133.75	-	1,395.26	1,143.22	89.50	-	1,232.72
Total	1,477.24	133.75	-	1,610.99	1,338.31	93.60	-	1,431.91

6.13 OTHER NON-CURRENT ASSETS comprised of:

Unit : Million Baht

	<u>2024</u>	<u>2023</u>
Fixed deposit - Housing loan welfare	500.00	-
Restricted bank deposits	30.22	29.80
<u>Less</u> Allowance for expected credit losses	(0.01)	-
Restricted bank deposits - net	530.21	29.80
Employee welfare loan accounts receivable	16.73	-
Other miscellaneous accounts receivable	27.69	27.45
<u>Less</u> Allowance for expected credit losses	(12.07)	(11.80)
Other miscellaneous accounts receivable-net	32.35	15.65
Right-of-use in Ratchaphatsadu Land	5.96	5.96
Other non-current assets	0.52	0.85
Total other non-current assets - net	569.04	52.26

Fixed deposit - Housing loan welfare is a 12-month fixed deposit account for use in the employee housing loan project. (Deposit maintenance form)

Restricted bank deposits, amounting to 30.22 million baht, are bank deposits used as collateral for relief of execution in the Supreme Court, amounting to 29.80 million baht, and interest on bank deposits amounting to 0.42 million baht.

6.14 LONG – TERM LOANS details as follows:

Loan facility	Unit : Million baht					
	2024			2023		
	<u>Foreign</u> <u>currency</u>	<u>Thai Baht</u> <u>equivalent</u>	<u>Foreign</u> <u>currency</u>	<u>Thai Baht</u> <u>equivalent</u>	<u>Annual Interest rate</u> <u>(percent per annum)</u>	<u>Repayment Condition</u> <u>The First</u> <u>repayment</u> <u>date</u> <u>The Last</u> <u>repayment</u> <u>date</u>
Japanese Yen currency (Unit : million Yen)						
Yen 11,706.00 million loan	-	-	280.04	69.65	1.70	Sep 20, 2006 Sep 20, 2024
Total long-term loans	-	-	280.04	69.65		
Less Total current portion	-	-	(280.04)	(69.65)		
Long-term loans - net	-	-	-	-		
BOT average selling Foreign Exchange Rate						
As of Sep 30, 2024 1 JPY = 0.230381 THB						
As of Sep 29, 2023 1 JPY = 0.248721 THB						

Movements in the long-term loans account are summarized below;

	Unit : Million baht	
	<u>Foreign</u>	<u>Thai Baht</u>
	<u>currency</u>	<u>equivalent</u>
<u>Japanese Yen currency</u>		
Balance as of October 1, 2023	280.04	69.65
Gains on foreign exchange rate	-	(2.08)
Repayment	(280.04)	(67.57)
Balance as of September 30, 2024	-	-

6.15 LEASE LIABILITIES

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Lease liabilities	279.24	312.80
<u>Less</u> Deferred interest expense	(11.09)	(6.31)
Lease liabilities- net	268.15	306.49
Portion due within one year	128.76	215.54
Portion due over one year	139.39	90.95
Total	268.15	306.49

Expenses relating to leases that are recognized in profit or loss

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Depreciation expense of right-of-use assets	159.74	167.02
Interest expense on lease liabilities	7.60	5.83
Expense relating to short-term leases	9.85	29.99
Expense relating to leases of low-value assets	3.66	3.65
Expense relating to variable lease payments	15.25	19.22

MWA had total cash outflows for leases for the year ended September 30, 2024 and 2023 amounting to 169.15 million baht and 185.38 million baht respectively, including the cash outflow related to short-term lease, leases of low-value assets and variable lease payments that do not depend on an index or a rate.

At of September 30, 2024 and 2023, MWA had an increase in non-cash items for right-of-use assets and lease liabilities of 194.54 and 78.45 million baht respectively.

6.16 ACCRUED REMITTANCE TO THE MINISTRY OF FINANCE

The Ministry of Finance has prescribed MWA to remit the state revenue to the Ministry of Finance at the rate of 45 percent and 50 percent of the net profit before deducting of bonus expense. If it appears that the remittance amount of the state revenue is lower than remittance amount prescribed in the Annual Budget Expenditure Act, MWA remits the state revenue in the amount prescribed in the Act, which delivering twice a year.

Movements in the accrual remittance to the Ministry of Finance account are summarized below;

	Unit : Million Baht	
	2024	2023
Balance at beginning of period	1,069.85	1,182.60
Increase during the period		
- The first half of the year 2023	-	1,074.00
- The second half of the year 2023	0.05	1,069.85
- The first half of the year 2024	1,507.50	-
- The second half of the year 2024	1,043.32	-
Decrease during the period		
Remittance to the Ministry of Finance		
- The second half of the year 2022	-	(1,182.60)
- The first half of the year 2023	-	(1,074.00)
- The second half of the year 2023	(1,069.90)	-
- The first half of the year 2024	(1,507.50)	-
Balance at end of period	<u>1,043.32</u>	<u>1,069.85</u>

The outstanding amount of 1,043.32 million baht is the remittance to the Ministry of Finance for the second half of the year 2024.

6.17 OTHER CURRENT LIABILITIES comprised of:

	Unit : Million baht	
	2024	2023
Accrued interest payables	-	0.04
Accrued public utilities	134.99	145.69
Accrued expenses	689.47	688.60
Accrued withholding taxes	19.54	21.13
Accrued bonus expense	543.47	422.38
Accrued raw water	103.21	423.24
Unearned income	22.70	31.81
Outstanding cheques	0.12	0.04
Other liabilities	<u>222.09</u>	<u>233.10</u>
Total	<u>1,735.59</u>	<u>1,966.03</u>

6.18 EMPLOYEE BENEFIT OBLIGATIONS

Provisions for employee benefits in statement of financial position as of September 30, 2024 and 2023

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Post-employment benefits		
The pension fund	822.92	902.16
The remuneration on retirement preferences	1,941.93	1,882.11
The annual leave project that has not been exercised	220.38	213.44
The project of the awards age 60 years or retirement	149.49	149.67
Total	3,134.72	3,147.38
<u>Less</u> Plan assets	(454.95)	(542.91)
Total Post-employment benefits	2,679.77	2,604.47
Other long-term employee benefits plan		
The awards when employees work 25 years	63.79	60.76
Total Other long-term employee benefits plan	63.79	60.76
Employee benefit obligations - net	2,743.56	2,665.23

	Unit : Million baht						
	<u>2024</u>						
	<u>Post-Employment Benefits</u>					<u>Other Long-term</u>	
						<u>Employee Benefits</u>	
	<u>Staff</u>	<u>Legal</u>	<u>Unused</u>	<u>Retirement</u>	<u>Total</u>	<u>25 years</u>	<u>Total</u>
	<u>Pension</u>	<u>severance</u>	<u>vacation</u>	<u>award</u>		<u>long-</u>	
	<u>fund</u>	<u>plan</u>	<u>plan</u>			<u>service</u>	
						<u>award</u>	
As of October 1, 2023	902.16	1,882.11	213.44	149.67	3,147.38	60.76	3,208.14
Service cost	26.52	106.06	12.11	9.61	154.30	4.50	158.80
Interest Cost from Defined Benefit	17.03	51.86	5.88	4.25	79.02	1.62	80.64
Obligation							
Benefits paid	(122.79)	(98.10)	(11.05)	(14.04)	(245.98)	(3.09)	(249.07)
As of September 30, 2024	822.92	1,941.93	220.38	149.49	3,134.72	63.79	3,198.51
<u>Less</u> Fair value of plan assets	(454.95)	-	-	-	(454.95)	-	(454.95)
Amount recognized in statement of							
financial position.	367.97	1,941.93	220.38	149.49	2,679.77	63.79	2,743.56

Unit : Million baht

2023

	Post-Employment Benefits					Other Long-term Employee Benefits	
	Staff Pension fund	Legal severance plan	Unused vacation plan	Retirement award	Total	25 years long-service award	Total
As of October 1, 2022	945.00	1,819.59	206.27	145.18	3,116.04	57.38	3,173.42
Service cost	29.56	105.80	12.09	9.61	157.06	4.46	161.52
Interest Cost from Defined Benefit Obligation	17.37	48.14	5.45	3.93	74.89	1.47	76.36
Benefits paid	(89.77)	(91.42)	(10.37)	(9.05)	(200.61)	(2.55)	(203.16)
As of September 30, 2023	902.16	1,882.11	213.44	149.67	3,147.38	60.76	3,208.14
<u>Less</u> Fair value of plan assets	(542.91)	-	-	-	(542.91)	-	(542.91)
Amount recognized in statement of financial position.	359.25	1,882.11	213.44	149.67	2,604.47	60.76	2,665.23

Expenses are recognised in statements of income and statements of comprehensive income, as follows:

Unit : Million baht

2024

	Post-Employment Benefits					Other Long-term Employee Benefits	
	Staff Pension fund	Legal severance plan	Unused vacation plan	Retirement award	Total	25years long-service award	Total
<u>Statements of income</u>							
Service cost	26.52	106.06	12.11	9.61	154.30	4.50	158.80
Interest Cost from Defined Benefit Obligation	17.03	51.86	5.88	4.25	79.02	1.62	80.64
Return on plan assets	(13.00)	-	-	-	(13.00)	-	(13.00)
Total	30.55	157.92	17.99	13.86	220.32	6.12	226.44
<u>Other comprehensive income</u>							
Actuarial Gains (Losses)	(4.77)	-	-	-	(4.77)	-	(4.77)
Total	(4.77)	-	-	-	(4.77)	-	(4.77)

Unit : Million baht

2023

Post-Employment Benefits

Other Long-term

Employee Benefits

	<u>Staff</u>	<u>Legal</u>	<u>Unused</u>	<u>Retirement</u>	<u>Total</u>	<u>25years</u>	<u>Total</u>
	<u>Pension</u>	<u>severance</u>	<u>vacation</u>	<u>award</u>		<u>long-</u>	
	<u>fund</u>	<u>plan</u>	<u>plan</u>			<u>service</u>	
						<u>award</u>	
<u>Statements of income</u>							
Service cost	29.56	105.80	12.09	9.61	157.06	4.46	161.52
Interest Cost from Defined Benefit							
Obligation	17.37	48.14	5.45	3.93	74.89	1.47	76.36
Return on plan assets	(13.85)	-	-	-	(13.85)	-	(13.85)
Total	<u>33.08</u>	<u>153.94</u>	<u>17.54</u>	<u>13.54</u>	<u>218.10</u>	<u>5.93</u>	<u>224.03</u>
<u>Other comprehensive income</u>							
Actuarial Gains (Losses)	(9.36)	-	-	-	(9.36)	-	(9.36)
Total	<u>(9.36)</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>(9.36)</u>	<u>-</u>	<u>(9.36)</u>

Movements in the present value of the plan assets – Staff Pension fund, as follows:

Unit : Million baht

	<u>2024</u>	<u>2023</u>
Balance at beginning of period	542.91	598.38
<u>Add</u> Return on plan assets	13.00	13.85
Obligation payable from MWA.	26.60	29.81
<u>Less</u> Benefits paid	(122.79)	(89.77)
Plan assets Gains (Losses)	(4.77)	(9.36)
Balance at end of period	<u>454.95</u>	<u>542.91</u>

Principal actuarial assumptions to determine the present value of Post-Employment Benefits provision,
as follows:

	<u>Annual percentage (%)</u>
Discount rate	1.11 - 5.76
Salary increase rate	5.0 - 8.0
Employee turnover rate	0.0 - 2.0
Mortality rate	According to the announcement by the Office of Insurance Commission (OIC) Thai Death Table 2017
Improvement the mortality	3.0

A sensitivity analysis of the Principal actuarial assumptions to determine the present value of post-employment benefit provisions and other long-term employee benefits is as follows:

	Change in present value of provision increase (decrease)	
	Unit : Million baht	
	2024	2023
Discount rate -1.0%	289.22	292.55
Discount rate + 1.0%	(248.24)	(250.88)
Salary increase rate -1.0%	(284.38)	(261.95)
Salary increase rate +1.0%	325.91	299.02
Gold price -20% of assumptions	(43.74)	(42.31)
Gold price +20% of assumptions	43.74	42.31
Employee turnover rate -20.0% of assumptions	19.82	17.50
Employee turnover rate +20.0% of assumptions	(19.56)	(17.27)
Improvement the mortality -1.0%	(12.90)	(11.53)
Improvement the mortality +1.0%	11.28	10.09

6.19 PROVISION ON LITIGATION

	Unit : Million baht	
	2024	2023
At the beginning of the period	73.41	38.90
Increase during the period	6.20	42.69
Decrease during the period	(3.39)	(8.18)
At the ending of the period	76.22	73.41

As of September 30, 2024 and 2023, MWA are defendant sued for damages. From consideration the status of lawsuits, there are 17 lawsuits and 16 lawsuits which it's probably to accept obligation and record accounts at the expected payment amounting to 76.22 million baht and 73.41 million baht as mentioned in Note 8 to the financial statements.

6.20 DEFERRED REVENUES comprised of:

Unit : Million baht

2024				
	<u>As of</u>		<u>Recognized</u>	<u>As of</u>
	<u>Oct 1, 2023</u>	<u>Added</u>	<u>as income</u>	<u>Sep 30, 2024</u>
Other assets	8.47	1.12	(1.33)	8.26
Water meter	1,530.86	271.89	(307.99)	1,494.76
Government plumbing works	177.05	10.31	(40.12)	147.24
Private plumbing works	4,922.13	1,069.84	(603.54)	5,388.43
MOU	413.38	34.03	(50.17)	397.24
Government Grants	3.18	-	(3.18)	-
Service fees	-	0.33	(0.29)	0.04
Total	<u>7,055.07</u>	<u>1,387.52</u>	<u>(1,006.62)</u>	<u>7,435.97</u>

Unit : Million baht

2023				
	<u>As of</u>		<u>Recognized</u>	<u>As of</u>
	<u>Oct 1, 2022</u>	<u>Added</u>	<u>as income</u>	<u>Sep 30, 2023</u>
Other assets	9.19	0.60	(1.32)	8.47
Water meter	1,517.50	317.50	(304.14)	1,530.86
Government plumbing works	212.89	4.09	(39.93)	177.05
Private plumbing works	4,660.98	818.57	(557.42)	4,922.13
MOU	439.93	22.11	(48.66)	413.38
Government Grants	3.45	-	(0.27)	3.18
Total	<u>6,843.94</u>	<u>1,162.87</u>	<u>(951.74)</u>	<u>7,055.07</u>

In fiscal year 2024, MWA has changed the accounting methods for revenues from government and private plumbing works. Previously, when payment for the plumbing work was received, the MWA recorded it as deferred revenues. And when the plumbing work was completed, the MWA would recognize revenues by gradually written off from deferred revenues over the useful life of the asset. Later, the accounting method was changed to when payment for the plumbing work is received, the MWA will record it as unearned income. And when the plumbing work is completed, the MWA will adjust the entry from unearned income to deferred revenues and recognize revenues by gradually written off from deferred revenues over the useful life of the asset.

6.21 OTHER NON-CURRENT LIABILITIES comprised of:

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Collective and metering representative deposits	21.75	22.16
Work guarantee (retention) and Contractor deposits	1,149.21	925.58
Employee welfare loan deposits	0.68	-
Derivative liabilities	-	26.22
Total	<u>1,171.64</u>	<u>973.96</u>

6.22 CAPITAL

As of September 30, 2024, capital 8,386.85 million baht, included initial capital 1,192.71 million baht and government budget 7,194.14 million baht.

6.23 RAW MATERIALS AND CONSUMABLES USED comprised of:

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Raw water	1,061.47	1,060.00
Chemical	574.95	565.03
Electricity utility	1,618.27	1,956.83
Pipe and equipment for repair and maintenance	278.86	272.88
Other raw material and consumables used	112.96	122.67
Total	<u>3,646.51</u>	<u>3,977.41</u>

6.24 DIRECTORS REMUNERATION

The remuneration for directors for the year ended September 30, 2024 and 2023 amounting to 19.30 million baht and 31.62 million baht are expense of Governor and MWA's Board of directors.

6.25 OTHER OPERATING EXPENSES comprised of:

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Contract out - inspection and improvement of distribution valve	61.42	87.37
Contract out - leakage pipes survey and repair	702.38	675.53
Contract out - other services	363.10	425.56
Outsourcing expenditure	231.36	227.28
Collective and metering representative expenses	139.52	138.17
Repair and maintenance expenses	210.61	208.50
Work contracts expenses	23.65	13.85
Other expenses	355.37	446.98
Total	<u>2,087.41</u>	<u>2,223.24</u>

6.26 FINANCE COSTS comprised of:

	Unit : Million baht	
	<u>2024</u>	<u>2023</u>
Interest expense on borrowings	0.83	2.09
Interest expense on lease liabilities	7.60	5.83
Interest paid from cross currency swaps and other interest rates	3.05	7.16
Total	<u>11.48</u>	<u>15.08</u>

7. DISCLOSURES OF FINANCIAL INSTRUMENT**7.1 Derivative designated as hedging instruments**

MWA had entered into Plain vanilla cross currency swap agreement on March 17, 2006, designated as hedging instrument in cash flow hedge on fixed-rate loan in foreign currency to reduce the risk from exchange rate. Contract principle amounting to 11,706.00 million yen, utilized amounting to 5,180.74 million yen, to the MWA's Lender through 18.5 years contract which details as follows.

Swap contract notional receipt	5,180.74 million yen
Swap contract interest receipt rate (per annum)	1.70
Swap contract exchange rate	1 JPY = 0.334 THB
Swap contract notional payment	1,730.37 million baht
Swap contract interest payment rate (percent per annum)	5.759

During the fiscal year 2024, MWA has fully repaid the yen loan. Therefore, as of September 30, 2024, Plain vanilla cross currency swap agreement has no outstanding derivative liabilities.

7.2 Financial risk management objectives and policies

MWA's financial instruments principally comprise cash and cash equivalents, trade accounts receivable and other current receivables, and long-term loans. The financial risks associated with these financial instruments and how they are managed is described below.

7.2.1 Credit risk

MWA is exposed to credit risk primarily with respect to trade accounts receivable and accrued revenue of water sales, meter fees and raw waters, deposits with banks and financial institutions and other financial instruments. Except for derivatives, the maximum exposure to credit risk is limited to the carrying amounts as stated in the statement of financial position. MWA's maximum exposure relating to derivatives is noted in the liquidity risk topic.

Trade accounts receivable and accrued revenue of water sales, meter fees and raw waters

MWA manages the risk by adopting appropriate credit control policies and procedures and therefore does not expect to incur material financial losses. Outstanding trade receivables are regularly monitored. An impairment analysis is performed at each reporting date to measure expected credit losses. The provision rates are based on days past due for groupings of various customer segments with similar credit risks. MWA classifies customer segments by customer type. The calculation reflects the probability-weighted outcome, the time value of money and reasonable and supportable information that is available at the reporting date about past events, current conditions and forecasts of future economic conditions.

Cash deposits

MWA manages the credit risk from balances with banks and financial institutions. When making a deposit, MWA will consider the amount and time of deposit to be appropriate with the remaining liquidity of the MWA by depositing or investing in short-term financial instruments with financial institutions in accordance with the regulations. Set out in the regulations of the Ministry of Finance regarding accounting and finance of state owned enterprise B.E. 2548, including the distribution of deposits or investments. with many financial institutions in order to reduce the risk of concentration and alleviate financial losses that may arise from the default of financial institutions.

The credit risk on debt instruments and derivatives is limited because the counterparties are banks with high credit-ratings assigned by international credit-rating agencies.

7.2.2 Market risk

There are two types of market risk comprising currency risk and interest rate risk. MWA enters into a cross currency swaps to mitigate the risk of foreign currency rates:

Foreign currency risk

MWA's exposure to the foreign currency risk relates primarily to its borrowing that is denominated in foreign currency. MWA seeks to reduce this risk by entering into a cross currency swap contract as described in Note 7.1 to the financial statements.

Interest rate risk

As of September 30, 2024, significant financial assets and liabilities classified by type of interest rate are summarized in the table below, with those financial assets and liabilities that carry fixed interest rates further classified based on the maturity date, or the repricing date if this occurs before the maturity date.

Unit : Million baht

	2024						Effective interest rate (% per annum)
	Fixed interest rates						
	Within 1 year	1-5 years	Over 5 years	Floating interest rate	Non-interest bearing	Total	
<u>Financial assets</u>							
Cash and cash equivalents	3,037.62	-	-	742.98	1.26	3,781.86	0 - 2.29
Trade accounts receivable and other current receivables	-	-	-	-	1,684.11	1,684.11	-
Investment in current financial assets	6,141.03	-	-	-	-	6,141.03	2.25 - 2.55
Current special-purpose deposits at financial institutions	1,483.84	-	-	-	-	1,483.84	2.40 - 2.62
Investment in non-current financial assets	999.98	-	-	-	-	999.98	2.15 - 2.60
Restricted bank deposits	-	530.21	-	-	-	530.21	1.30 - 1.45
	11,662.47	530.21	-	742.98	1,685.37	14,621.03	

Unit : Million baht

	2024						
	Fixed interest rates						
	Within 1 year	1-5 years	Over 5 years	Floating interest rate	Non-interest bearing	Total	Effective interest rate (% per annum)
<u>Financial liabilities</u>							
Trade accounts payable	-	-	-	-	3,094.71	3,094.71	-
Lease liabilities	128.76	139.21	0.18	-	-	268.15	1.10 – 3.07
	128.76	139.21	0.18	-	3,094.71	3,362.86	

7.2.3 Liquidity risk

MWA monitors the risk of a shortage of liquidity using long-term loan and lease contracts. Approximately 23.20% of MWA's debt will mature in less than one year as of September 30, 2024 based on the carrying value of borrowings reflected in the financial statements. The table below summaries the maturity profile of MWA's non-derivative financial liabilities and derivative financial instruments as of September 30, 2024 based on contractual undiscounted cash flows:

	Unit : Million baht				
	On demand	Less than 1 year	1 to 5 years	Over 5 years	Total
Non-derivatives					
Trade accounts payable	3,094.71	-	-	-	3,094.71
Water usage guarantee	1,321.34	-	-	-	1,321.34
Lease liabilities	-	134.02	144.99	0.23	279.24
Total non-derivatives	4,416.05	134.02	144.99	0.23	4,695.29

7.3 Fair values of financial instruments

Since the majority of MWA's financial instruments are short-term in nature or carrying interest at rates close to the market interest rates, their fair value is not expected to be materially different from the amounts presented in the statement of financial position.

MWA estimate fair value of financial Instruments by using following assumptions:

Cash and cash equivalents, trade accounts receivable and other current receivables, investment in current financial assets, other current assets, investment in non-current financial assets, other non-current assets, trade accounts payable, accrual remittance to the Ministry of Finance, other current liabilities, water usage guarantee and other non-current liabilities have the carrying amounts based on a reasonable estimate of fair value, except for the items shown in the table as follows.

Unit : Million baht

	Fair Value				Book Value
	Level 1	Level 2	Level 3	Total	
2024					
Financial liabilities					
disclosed at fair value					
Long-term loans	-	-	-	-	-
2023					
Financial liabilities					
disclosed at fair value					
Long-term loans	-	-	69.69	69.69	69.65

Valuation techniques and data input for Level 3 fair value measurements

The fair value of the long-term loan is estimated by using technique on calculating present value of future cash flow and by using valuation models, which is discount rate adjusted by the risk on the cash receiving date. The rate is used because the reference risk in the market at the end of the fiscal period is not available. The related observable data in the market includes spot rate, interest rate and the yield curve of debt instruments.

8. OBLIGATION AND CONTINGENT LIABILITIES

Material changes in the obligations and contingent liabilities with detail as follows:

8.1 OBLIGATIONS UNDER BANK GUARANTEES

As of September 30, 2024 and 2023, MWA has letters of guarantee issued by a bank on behalf of MWA amounting to 78.42 million baht, which all bank guarantees are guarantees for pipeline construction.

8.2 OBLIGATIONS OF CAPITAL EXPENDITURE comprised of:

	Unit : Million baht	
	2024	2023
The Eighth Bangkok water Supply Improvement Project	309.58	388.61
The Ninth Bangkok water Supply Improvement Project	16,029.75	20,510.16
Normal Capital Expenditure	11,445.77	12,518.17
Total	<u>27,785.10</u>	<u>33,416.94</u>

8.3 OBLIGATIONS UNDER LEASE AGREEMENT

MWA has legal obligations arising from a lessee under a financial lease with the minimum amount of money to be paid in the future according to the contract that cannot be terminated as follows:

	Unit : Million baht	
	2024	2023
- Not more than 1 year	5.77	6.14
- Over 1 year but not over 5 years	-	-
Total	5.77	6.14

8.4 LAND RENTAL OBLIGATIONS OF THE TREASURY DEPARTMENT

The Ratchaphatsadu Land Act, B.E.2562 (2019), which came into force on July 7, 2019, stipulates that government agencies covering state enterprises when Ratchaphatsadu Land is used, compensation must be paid to the Treasury Department.

In 2023, MWA has discussed the utilization of Ratchaphatsadu land of MWA with the Ministry of Interior. The draft law consideration committee of the Ministry of Interior has given its opinion that all assets transferred by MWA under Section 10 of the Metropolitan Waterworks Authority Act B.E. 2510 (1967) are the property of MWA and are not Ratchaphatsadu land. Therefore, there is no need to enter into a rental contract and pay compensation to the Treasury Department in any way.

MWA has sent a discussion letter to the Office of the Council of State. The Office of the Council of State cannot accept MWA's discussions for consideration and give opinions. Therefore, MWA and the Treasury Department will jointly submit the matter to the Ratchaphatsadu Land Committee for consideration in order to be in accordance with the administrative procedures and the procedures specified in the Ministerial Regulations.

MWA has sent a letter to the Treasury Department confirming the status of assets owned by MWA and assets used by MWA. Later, the Treasury Department sent a letter informing MWA that the Treasury Department was in the process of gathering relevant facts to present to the Ratchaphatsadu Land Committee for consideration.

At present, the Ratchaphatsadu Land Committee has not yet considered giving an opinion on the issues that MWA has disputes with the Treasury Department.

MWA has recognized estimated rental expenses for Ratchaphatsadu Land from July 7, 2019 to September 30, 2022 in the amount of 628.88 million baht. This item is shown in the financial statements as part of accrued expenses.

8.5 OBLIGATIONS FOR UTILIZATION OF THE HIGHWAY AREA

The Ministry of Transport has issued ministerial regulations prescribing fees for utilization area of special highways. national highways, rural highways and concession highways B.E. 2564 (2021), effective from January 1, 2022, prescribing the person so permitted for utilization the highway area to erect the pole, line up, lay pipes or perform any action in the highway area shall pay fee for utilization of the highway area at the rates prescribed in Ministerial Regulations.

MWA received a notice from the Department of Highways (DOH) and the Department of Rural Roads (DRR) to collect fee for utilization of the highway area at the rates prescribed in Ministerial Regulations. However, the MWA Board of Directors resolved to allow the MWA to exercise its power under section 38 of Metropolitan Waterworks Authority Act B.E. 2510 (1967) to pay fee in the form of land utilization compensation, not fee for utilization of the highway area. MWA has ordered the appointment of a committee to consider and determine the amount of compensation for damage from utilization or taking possession immovable property and compensation for utilization land and cutting down trees (The committee) has the duty and authority to set criteria and guidelines for the payment of damages and compensation for utilization land, including determining the amount of compensation for damage and compensation for utilization land.

The committee has considered and determined the amount of compensation for utilization land that is appropriate for the construction of the water delivery system and water distribution system. MWA proceeded to send a letter notifying the amount of compensation for utilization land to DOH/DRR, but DOH/DRR does not accept the amount of compensation for utilization land.

MWA has submitted the utilization of the highway area dispute to the Office of the Attorney General, according to regulations of the Office of the Prime Minister on the arbitration and settlement of disputes between government agencies and litigation B.E.2561 (2018). The case is currently being prosecuted by the public prosecutor in charge of the case.

MWA has not yet recorded this transaction in its financial statements for the year ending September 30, 2024, because it has not yet reached a resolution with the DOH/DRR regarding the amount paid and the nature of the payment. This makes it impossible to reliably estimate expenses that will or may be incurred.

8.6 OBLIGATIONS FOR COMPENSATION FOR UTILIZATION LAND OF THE STATE RAILWAY OF THAILAND

The State Railway of Thailand (SRT) has notified to collect of compensation for utilization land for the construction of water delivery systems and water distribution systems for 3 projects. MWA has ordered the appointment of a committee to consider and determine the amount of compensation for damage from utilization or possession of real estate and compensation for utilization land and cutting down trees (The committee), has the duty and authority to set criteria and guidelines for the payment of damages and compensation for utilization land, including determining the amount of compensation for damage and compensation for utilization land.

The committee has considered determining the amount of compensation for utilization land that is appropriate for the construction of the water delivery system and water distribution system in lieu of the original amount that SRT had collected. MWA proceeded to sent a letter notifying the amount of compensation for utilization land to SRT for acknowledgement. Later, SRT sent a letter to inform MWA that the compensation that SRT had collected was in accordance with the relevant regulations and orders and was appropriate.

Currently, SRT has not yet sent a letter to inform MWA to pay compensation for utilization land in the amount that SRT has requested or refused to allow MWA to enter the area in any way. MWA is in the process of gathering facts to submit the dispute to the Office of the Attorney General, according to regulations of the Office of the Prime Minister on the arbitration and settlement of disputes between government agencies and litigation B.E.2561 (2018).

MWA has not yet recorded this transaction in its financial statements for the year ending September 30, 2024, because it has not yet reached a resolution with SRT, making it unable to estimate expenses that will or may occur reliably.

8.7 CASE IN WHICH THE MWA FILED PETITIONS AGAINST THE ARBITRAL AWARDS AS OF SEPTEMBER 30, 2024, AMOUNTING TO 2 CASES, AS FOLLOWS:

8.7.1 The case in which the MWA filed a petition against the award of the Thai Arbitration Institute that ordered MWA to return the contractual fines to 2 MWA's contractors amounting to 18.34 million baht with interest at the rate of 7.5 % per year, from the day following the date of submitting the dispute until the settlement is complete. At present, the case is under the consideration of Central Administrative Court.

MWA has set aside provisions for any losses that may occur as a result of the said case in the financial statements according to note 6.19 to the financial statements, the amount was 18.34 million baht.

8.7.2 The case in which the MWA filed a petition against the award of the Thai Arbitration Institute that ordered the MWA to pay for the work according to contract to one of MWA's contractors (the claimant) amounting to 27.40 million baht and 40.76 million yen, totaling 43.50 million baht, with the claimant paying a fine of 69.00 million baht after offsetting. the claimants must pay the MWA the amount of 25.50 million baht. The Claimants also file a request for revocation of the award. At present, the case is under the consideration of the Central Administrative Court.

8.8 THE CASES ARE UNDER CONSIDERATION OF DEPARTMENT OF CIVIL DISPUTE SETTLEMENT AND ARBITRATION AS OF SEPTEMBER 30, 2024, AMOUNTING TO 2 CASES, AS FOLLOWS:

8.8.1 A lawsuit that one government agency demanded that the MWA and another government agency jointly, responsible for compensation for damages caused by the bank protection wall moving and collapsing into Khlong Lat Pho amounting to 32.50 million baht. The case is currently being prosecuted by the public prosecutor in charge of the case.

MWA has set aside provisions for any losses that may occur as a result of the said case in the financial statements according to note 6.19 to the financial statements, the amount was 1.62 million baht.

8.8.2 A case in which one government agency demanded that MWA pay the deficit of land rent and fines, according to the lease of land in Lumpini Park area amounting to 51.81 million baht. Later, on June 27, 2024, the Attorney General has ruled that a government agency in dispute had no right to demand that the MWA pay the remaining land rental fee and the fines under the land lease agreement. Currently, such government agency is in the process of preparing an argument to the Attorney General's decision.

8.9 MWA WAS CHARGED 25 CASES OF LAWSUIT AS OF SEPTEMBER 30, 2024, ESTIMATED TOTAL CLAIMS FOR COMPENSATION AND DAMAGES AMOUNTING TO BAHT 1,254.42 MILLION BAHT, AS FOLLOW:

8.9.1 There is 1 case about breach of employment contract amounting to 75.03 million baht. Currently, the case is under consideration by the Supreme Court.

8.9.2 There are 23 cases about infringement claiming damages amounting to 1,175.13 million baht. Currently, 2 cases are under consideration by the Civil Court, 10 cases are under consideration by the Central Administrative Court and 11 cases are under consideration by the Supreme Administrative Court.

8.9.3 There is 1 case about other claiming damages amounting to 4.26 million baht. Currently, the case is under consideration by the Civil Court.

MWA has set aside provisions for any losses that may occur as a result of the said case in the financial statements according to note 6.19 to the financial statements amounting to 56.26 million baht.

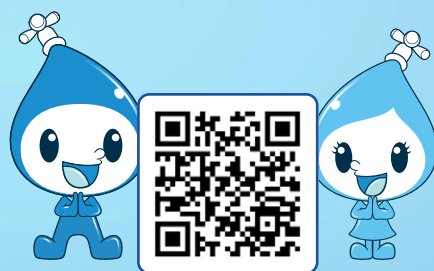
9. FINANCIAL STATEMENT ADJUSTMENTS AND RECLASSIFICATION

The MWA has reclassified the statements of financial position as of September 30, 2023 and the statements of cash flows for the years then ended, to be compared.

<u>Transactions</u>	<u>Before reclassification</u>	<u>Reclassification</u>	<u>After reclassification</u>
<u>Statements of Financial position</u>			
<u>As of September 30, 2023</u>			
Deferred revenues	7,754,302,693	(699,234,089)	7,055,068,604
Unearned income	198,857,314	699,234,089	898,091,403
<u>Statements of Cash flow</u>			
<u>For the year ended September 30, 2023</u>			
<u>Cash flows from operating activities</u>			
Deferred revenues from tab water connection fees	(304,133,815)	304,133,815	-
Deferred revenues from work contract revenues	(597,345,047)	597,345,047	-
Deferred revenues from pipelines-MOU	(48,664,541)	48,664,541	-
Deferred revenues from government grants	(268,404)	268,404	-
Deferred revenues from services	-	(950,411,807)	(950,411,807)
Deferred revenues	1,311,617,805	(994,119,036)	317,498,769
Unearned income	91,757,013	994,119,036	1,085,876,049

10. Approval of Financial Statements

These financial statements were approved for issuance by MWA's Governor on February 26, 2025.



Survey on Satisfaction
towards MWA Annual Report 2024





Annual Report 2024



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