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OFFICIAL DEVELOPMENT ASSISTANCE (ODA) MAP *for Metro Manila*



**JAPAN INTERNATIONAL
COOPERATION AGENCY**

Voices FROM STAKEHOLDERS

Undersecretary Rolando Tungpalan
National Economic Development Authority (NEDA)

Our partnership with JICA can be seen on the responsiveness of JICA to Philippine development requirements and priorities. JICA is a major player of the Golden Age of Infrastructure, and into what we call the Golden Age of Partnership.



Maxima Quiambao
Former head of EFCOS Project and past Director-Metro Manila Development Authority (MMDA) flood control and sewerage division

JICA's support to Metro Manila's Effective Flood Control Operating System (EFCOS) helped establish an effective flood control management system in Pasig-Marikina-Laguna areas, while helping raise public awareness on flood disasters even saving lives of more than 3,000 families during the project's early operations.



Captain Genito Basilio
Deputy Chief of Coast Guard Staff for Education and Training

The support of Japan through JICA helped strengthen the maritime law enforcement capability of the Philippine Coast Guard, and allowed us to recognize the role of everyone in the organization's success.



The Japan International Cooperation Agency (JICA), the executing agency of Japan's Official Development Assistance (ODA), works with countries like the Philippines in *leading the world with trust* to achieve a free, peaceful, and prosperous world.

JICA's mission is to engage its partners towards human security and quality growth using various cooperation activities such as technical cooperation, loan aid, grant aid, and other initiatives with Japanese private sector, organizations, volunteers, and disaster relief teams.

As the world's largest bilateral aid agency working with more than 150 countries and regions, JICA acts as bridge towards stronger relations and friendship between Japan and the Philippines.

JAPAN COOPERATION AGENCY

Metro Manila is a global hub whose economic backbone includes international businesses and local industries. Composed of cities and towns, Metro Manila is renowned for its unique characteristics like the famed Manila sunset, historical and Western cultures. Today, Metro Manila is home to sleek business districts like the Ayala and Ortigas business areas hosting several global offices and major universities.

The city's economic scale in recent years makes it a globally competitive city, with a population of 12.8 million and contributing about 36.6% to the national Gross Domestic Product (GDP). Metro Manila ranked among the top emerging global cities in 2016 based on attractiveness to global capital, people, and ideas (A.T. Kearney, 2016).

AGRICULTURE AND AGRIBUSINESS DEVELOPMENT

1. Environmental and Productivity Management of Marginal Soils in the Philippines (2000-2005)
2. Participatory Workshop and Internship Series on Agrarian Reform, Sustainable Agriculture and Participatory Local Governance (2004-2007)
3. Training Course on Agricultural Extension System through Participatory Approach for ASEAN Countries (2006-2008)
4. Data Collection Survey on Agricultural Modernization (2017-2018)
5. Project for Capacity Building for Financial Access in Agribusiness Phase I (2017-2018)
6. The Project for Enhancing the Competitiveness of Fresh and Semi-Processed Agricultural Products through the Application of Appropriate and Sustainable Packing Technology (2015-2018)

DISASTER RISK REDUCTION INITIATIVES

7. Pasig Marikina River Channel Improvement Project, Phase I (Detailed Design) (1998-2006), Phase II (2007-2015), Phase III (2012-2018)
8. Weather Forecasting Equipment for PAGASA (1999)
9. Metro Manila Flood Control Project - West of Manggahan (1997-2008)
10. Rehabilitation of Metro Manila Flood Control Operation and Warning System (2000-2002)
11. The Project for Enhancement of Capabilities in Flood Control in Sabo Engineering of the Department of Public Works and Highways (2000-2005)
12. Strengthening the Flood Management Function of DPWH (2005-2010)
13. KAMANAVA Flood Control and Drainage System Improvement Project (2000-2009)
14. Construction of Hydraulic Laboratory Building (2001-2003)
15. Post Ondoy and Pepeng Short Term Infrastructure Rehabilitation Project (2010-2013)
16. Improvement of the Meteorological Radar System (2010-2013)
17. Enhancement of Earthquake and Volcano Monitoring and Effective Utilization of Disaster Mitigation Information in the Philippines (2010-2015)
18. Disaster Risk Reduction and Management (DRRM) Capacity Enhancement Project (2012-2015)
19. Project for the Improvement/Restoration of Telemetry Equipment of Effective Flood Control Operation System (EFCOS) (2015-2016)
20. Data Collection Survey on Metro Manila Drainage System (2015)
21. Project for Enhancing Capacity on Weather Observation, Forecasting and Warning (2015-2017)
22. Strengthening Capacity of Integrated Data Management of Flood Forecasting and Warning (2017-ongoing)
23. Development of Extreme Weather Monitoring and Information Sharing System in the Philippines (2017-ongoing)
24. Capacity Building for Philippine National Rescue Team
25. Disaster Risk Reduction Capacity Enhancement Project Phase II (2018-ongoing)
26. Data Collection Survey for Paranaque Spillway Project (2017-2018)
27. Strengthening Institutional and Policy Framework on Disaster Risk Reduction and Climate Change Adaptation Integration (2017)
28. Feasibility Survey for the Utilization of Self-Navigation Assembly Salvage Barge for the Construction Works on Disaster Management and Disaster Restoration (2017-2018)



KAMANAVA Flood Control and Drainage System Improvement Project
Scheme: Yen Loan
Year of Implementation: 2000-2009

ENERGY

29. Technical Cooperation Project for Capacity Enhancement for the Power Development Plan (2007-2008)
30. Study on Capacity Enhancement on Policy and Planning for a more effective and comprehensive Philippine Energy Plan formulation (2007-2008)
31. Study on Assets and Liabilities Management of PSALM and Administration of Universal Charge Funds (2009-2010)
32. Study for Verification and Achievement of Energy Sector Reform (2013)
33. Energy Regulatory Framework Improvement Project (2015)
34. Study on Energy Efficiency and Conservation and Follow-Up Cooperation Project for Energy Efficiency and Conservation (2012-2013)
35. Data Collection Survey on Utilization of Clean Alternative Energy (2011-2012)

EDUCATION AND HUMAN RESOURCE DEVELOPMENT

36. ASEAN University Network-Southeast Asia Engineering Education Network (AUN-SEED NET) Phase I (2003-2008), Phase II (2008-2013), Phase III (2013-2018), Phase IV (2018-2023)
37. Project on Gender Responsive Employability and Training (2004-2007)
38. Information Technology and Human Resource (2004-2009)
39. New Roles for Public Employment Services in Changing Labor Market (2005-2007)
40. The Holistic Approach to Volunteer Resources Development and the Community-based Treatment (2008-2010)
41. Advance IT Human Resource Development Project (2010-2011)
42. Japanese Grant Aid for Human Resource Development Scholarship (JDS) (2002-ongoing)
43. Ensuring Children's Potential for Development and Independence through Improved Residential Care Practices (2016-ongoing)
44. Regional Knowledge Co-Creation Program on Organizational Development (2017-2018)
45. Project for Supporting Senior High School Program in Technical Vocational High Schools (2014-2017)
46. Strengthening of Continuing School-Based Training Program for Elementary & Secondary Science & Mathematics Teachers (2002-2005)
47. Development of Disaster Education Handbook (2015)
48. To Protect Children's Rights by Children on/of the streets (2011-2015)

ENVIRONMENT

49. Data Collection Survey for Formulating Development Policy Of Water and Septage Management in the Philippines (May 2017-February 2018)
50. Non-Revenue Water (NRW) Improvement Project in the West Zone of Metro Manila (2017-ongoing)
51. Technical Assistance for Enhancing Capabilities of Non-Revenue Water Management of Maynilad (2017-2018)
52. Environmental Development Project (2009-2017)
53. Capacity Development for Public-Private Partnership (PPP) Project Formulation for Water Supply and Sanitation (2015-2017)
54. Project for Capacity Development on Improving Solid Waste Management through Advanced /Innovative Technologies (2018)
55. Metro Manila Air Quality Improvement Sector Development Program (1999-2003)
56. Environmental Infrastructure Support Credit Project, Phase II (1999-2006)
57. Preparatory Survey for Metro Manila Sewerage and Sanitation Environmental Improvement Project Study, Phases I and II (2009-2012)
58. Data Collection Survey for Sewerage Systems in West Metro Manila (2016)

59. Study on Recycling Industry Development in the Philippines (2006-2008)
60. Local Government Units Support Credit Project (1998-2006)
61. Preparatory survey on PPP project for Water Supply and Sewerage Development Project in the West Zone of Metro Manila (2012-2013)
62. Capacity Development Project on Water Quality Management in the Philippines (2006-2011)

GOVERNANCE

63. Philippine Coast Guard Human Resource Development (PCG-HRD) (2002-2007)
64. Project for Establishment of the Automated Fingerprint Identification System (2003)
65. Capability Enhancement for Drug Law Enforcement in the Republic of the Philippines (2005-2007)
66. The Project to Build up the Operation of Automated Fingerprint Identification System (AFIS) (2006-2010)
67. The Project for Enhancement of Communication System for Maritime Safety and Security (2007-2009)
68. Philippine Coast Guard Educational and Human Resource Management System Development Project (2008-ongoing)
69. Project on Enhancing the Capacity for Collection and Application of Fingerprints (2010-2013)
70. The Project for Comprehensive Practical Capability Improvement for Maritime Law Enforcement (2016-ongoing)
71. Maritime Safety Capability Improvement Project Phase I (2014-ongoing), Phase II (2016-ongoing)
72. Improvement of TV Programs of People's Television Network (2017-ongoing)

HEALTH

73. Philippine Pharmacopoeia Project (1999-2002)
74. The Project for the Preparation and Publication of the Philippines Pharmacopoeia, Phase II (2002-2005)
75. Quality Tuberculosis Control Program (2002-2007)
76. Prevention and Control of Leptospirosis in the Philippines (2010-2015)
77. Comprehensive Etiological and Epidemiological Study on Acute Respiratory Infections in Children: Providing Evidence for the Prevention and Control of Childhood Pneumonia in the Philippines (2011-2017)
78. Health Promotion and QoL Improvement for Diabetics in Metro Manila (2017-ongoing)
79. The Programme for Consolidated Rehabilitation of Illegal Drug Users (CARE) (2017-ongoing)
80. The Project for Introducing Evidence-Based Relapse Prevention Programs to Drug Dependence Treatment & Rehabilitation Centers (2017-ongoing)
81. The Project for the Establishment of the One Health Prevention and Treatment Network Model for the Elimination of Rabies in the Philippines (2017-ongoing)
82. Collaboration Program for Disseminating Japanese Technology for New TB Diagnostic Algorithm in the Philippines (2016-2018)
83. Feasibility Survey for the Introduction of Japanese Style Nursing-Care System (2017-2018)
84. Collaboration Program for Dissemination of iSPEED Disaster Medical Mission Operating System (2016-2017)
85. Survey on Possibility of Introduction using Japanese Style Nursing-Care System Business (2016-2017)
86. Feasibility Survey for Strengthening Supporting Structure of Disaster Medical Assistant Teams and Management (2016-2017)
87. Aftercare Rehabilitation Project for Drug Addicts in Manila (2009-2012)
88. TB Control and Prevention Project in Socio-Economically Unprivileged Areas in Metro Manila (2011-2014)
89. Project for the Establishment of the National Tuberculosis Reference Laboratory (NTRL) (2000)
90. Equipment & Supplies for SARS (2002)
91. Capacity Development on PPP Project Formulation in Health (2015-2017)
92. Data Collection Survey for Universal Health Coverage (UHC) in the Philippines (2016)
93. Needs Survey for Technologies or Products of Japanese SMEs in the Health and Medical Sector in the Philippines (2016)



The Project for Introducing Evidence-Based Relapse Prevention Programs to Drug Dependence Treatment and Rehabilitation Centers
Scheme: Technical Cooperation / Year of Implementation: 2017-ongoing

INDUSTRY DEVELOPMENT AND INVESTMENT CLIMATE IMPROVEMENT

94. Enhancement of Customs Operation (2001-ongoing)
95. Study on the Development of Industrial Statistics in the Republic of the Philippines (2003-2005)
96. Modernization of Industrial Property Administration Project Phase I (1999-2003), Phase II (2004-2007)
97. Assistance Project on Introduction of Custom Post-Entry Audit (2008-2011)

LIST OF OFFICIAL DEVELOPMENT ASSISTANCE (ODA) PROJECTS IN METRO MANILA *(FROM 1998 ONWARDS)*

98. Project on Philippine Customs Intelligence System (PCIS) for Environments and Training of Customs Officers (2007-2010)
99. Development of Human Resource in the BIR (2008-2010)
100. Project on Capability Building for a Comprehensive National Competition Policy (2010-2016)
101. Elaboration of Industrial Promotion Plans Using Value Chain Analysis
102. Enhancement of Industrial Competitiveness through Industrial Human Resource Development (IHRD) and Supply and Value Chain Development (2016-2018)
103. Technical Assistance Project to Establish the Philippine Railway Institute (2018-ongoing)
104. National Industry Cluster Capacity Enhancement Project (NICCEP) (2012-2015)

PRODUCT QUALITY AND STANDARDS

105. The Project on Electrical and Electronics Appliances Testing in the Republic of the Philippines (1999-2003)
106. Capacity Building for Philippine Standards Conformity Assessment (2005-2008)

SUPPORT FOR JAPANESE SMES

107. Verification Survey with the Private Sector for Disseminating Japanese Technology for Environmentally Friendly Urban Transportation Systems Using Electric Tricycles (2016-ongoing)
108. Feasibility Study for Introduction of Japanese Style Nursing Care System (2016)
109. Survey on 3D Printed Prostheses Solution (2016-2017)
110. Feasibility Survey for Introduction of Refuse Paper and Plastic Fuels (2016)
111. Preparatory Survey on PPP project for development of a connector road in Manila (2010-2011)
112. Research on the Promulgation of Solar-Diesel Hybrid Solution (Mixture of Solar and Diesel Power) (2012-2013)
113. Project Formulation Study on the Decentralized Bioethanol Production Systems at the Rural Areas of the Philippines (2013-2014)
114. Preparatory Survey on Ambulatory Surgical Center and Hospital Development Project (2014-2015)
115. Feasibility Survey for Promotion of Education and Job Opportunities for Blind Children and Adults Empowered by Mobile Braille Devices (2014-2015)
116. Verification Survey with the Private Sector for Disseminating Low Protein Rice for Nutrition Treatment of Chronic Kidney Disease in the Philippines (2016-2017)
117. Feasibility Survey for Improvement of Environment and Fuel Efficiency by Converting Public Bus Engines to Diesel Dual Fuel (DDF) Engines (2015-2016)
118. Feasibility Survey for Strengthening Supporting Structure of Disaster Medical Assistant Teams and Management (2016-2017)
119. Feasibility Survey for the Introduction of Irrigation Telemetry Systems Using Sensor Networks and Cloud Technology (2017-ongoing)
120. Feasibility Survey for the Utilization of Self-Navigation Assembly Salvage Barge for the Construction Works on Disaster Management and Disaster Restoration (2017-ongoing)
121. Basic Survey of Participation in Shipbuilding with Inspection and Maintenance Technology for Small and Medium Vessels (preparation stage)

TECHNOLOGY AND INNOVATION

122. Technology Development for Electronic Navigational Charts (ENC) (2000-2005)
123. Improvement of Packaging Technology for Philippine Food Products in the Regions (2005-2009)
124. Project for Improving Competitiveness of Local SMEs through Better Packaging (2009-2010)



Metro Manila Strategic Mass Rail Transit Development Project III
Scheme: Yen Loan
Year of Implementation: 1998-2003

TRANSPORTATION

125. Metro-Manila Strategic Mass Rail Transit Development Project III - LRT Line 2 (1998-2003)
126. LRT Line 1 Capacity Expansion Project, Phase II (2000-2007)
127. Educational Support for the New CNS/ATM Systems Implementation Project (2004-2008)
128. Enhancement of Hydrographic Capabilities for Navigational Safety (2006-2010)
129. Capacity Development Project for Improvement of Safety and Efficiency for Air Navigation System (2009-2014)
130. The Project on Improvement of Quality Management for Road and Bridge Construction and Maintenance, Phase I (2007-2010), Phase II (2011-2014), Phase III (2015-2018)
131. Road Upgrading and Preservation Project (2011-ongoing)
132. New Communications, Navigation and Surveillance/ Air Traffic Management Systems Development Project (2002-2017)
133. Metro Manila Interchange Construction Project, Phase IV (1998-2004), Phase V (2017-ongoing)
134. Metro Manila Priority Bridges Seismic Improvement Project (2015-ongoing)
135. Capacity Enhancement of Mass Transit Systems in Metro Manila Project (LRT 1 and 2 extension) (2015-ongoing)
136. North-South Commuter Railway Project (Malolos-Tutuban) (2015-ongoing)
137. Metro Manila Subway Project (2018-ongoing)
138. Roadmap for Transport Infrastructure Development for Metro Manila and Its Surrounding Areas (2014)
139. Follow-Up Survey on Roadmap for Transport Infrastructure Development for Greater Capital Region (2017)
140. Arterial Road Bypass Project, Phases II & III (2012-ongoing)
141. Enhancement of Customs Operations (2001-ongoing)
142. MRT Line 3 Rehabilitation Project (2018-ongoing)

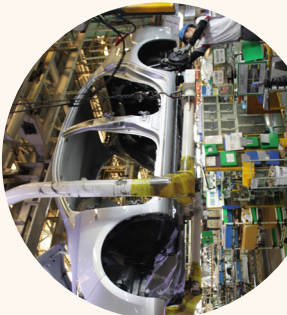
Metro Manila ODA MAP



1 Non-Revenue Water Improvement Project in the West Zone of Metro Manila, 2017-ongoing
Scheme: Pinar Sector Investment Finance
Photo from Maynilad



2 PCG Human Resource Development Phase I (2002-2007) Phase II (2008-2013)
Scheme: Technical Cooperation
Project for Comprehensive Practical Capability Improvement for Maritime Law Enforcement, 2013-2016, 2016-2019
Scheme: Technical Cooperation
Maritime Safety Capability Improvement Project Phase I (2013-2022), Phase II (2016-2026)
Photo by: Hideshi Manita, JICA-TCP Coordinator for PCG



3 Elaboration of Industrial Promotion Plans Using Value Chain Analysis
Scheme: Technical Cooperation
Photo from Toyota



4 Environmental Development Project
2009-2017
Scheme: Yen Loan



5 New Communications, Navigation and Surveillance / Air Traffic Management Systems Development Project
Scheme: Yen Loan
Photo from Presidential Photos Division



6 To Protect Children's Rights by Children on/of the Streets
Scheme: Citizen Participation



Legend

- DISASTER RISK REDUCTION INITIATIVES**
- INTERCHANGE (FLYOVER OR UNDERPASS)**
- JICA-ASSISTED AGENCIES**
- RAIL**
- UNDER CONSTRUCTION**

*This is a map of major JICA-assisted infrastructure and technical cooperation projects only. Please refer to the inside page for the complete list of projects in Metro Manila.



7 Weather Forecasting Equipment for PAGASA, 1999
Scheme: Grant Aid
Project for Enhancing Capacity on Weather Observation, Forecasting and Warning, 2015-2017
Scheme: Technical Cooperation
Strengthening Capacity of Integrated Data Management of Flood Forecasting and Warning, 2017-2019
Scheme: Technical Cooperation



8 Metro Manila Interchange Project Phase IV
1998-2004
Scheme: Yen Loan



9 Pasig-Marikina River Channel Improvement Project
Phase II (2007-2013), Phase III (2012-2018)
Scheme: Yen Loan