3. REHABILITATION WORK IN KAOLIEO TREATMENT PLANT

Name of Facility / Equipment		Construction / Installation		Present Condition			Remarks	Recommendation
		Year 1963	Year 1983	Working	Deterioration	Malfunction		
Intake Facility	Intake Tower Structure	0		0				Use continuously
	Intake Pump		0		0		7.65 m3/min. 6 m3/min.	Replace the new one
	Pump Accessories Valves & Check Valves		0		0		Heavy Leakage	Replace the new one
	Inlet Gate		0		0			Confirm the function of gates, subsequently replace the new one
	Control Butterfly Valve		0			0		Replace the new one
	Maintenance Bridge	0			0			Repair
	Bank of Mekong River		0		0			Repair & Restore
Raw Water Transmission Line	Pipeline	0		0				Use continuously
	Raw Water Flow Meter	0				0		Replace the new one
Receiving Well & Mixing Well	Structure	0		0				Use continuously
	Flash Mixer		0		0			Replace the new one
	Piping & Valves	0		0				Use continuously
Flocculation & Sedimentation Basin	Structure	0			0		Cracks causing leakage	Use continuously by means of repairing clacks of structural wall
	Baffle Plates	0				0		Replace the new one
	Maintenance Valves	0			0			Replace the new one
	Structure	0		0				Use Continuously, repairing the structure if necessary
	Filter Media and Underdrain	0			0		Observed muddy	
	Surface Wash System		0		0		sand after washing.	Renovation of Filter Washing System in equipped with automatic control devices including all equipment and materials
	Back Wash System		0		0		Estimated by long term accumulation	
Filtration Facility	Back Wash Pump						of turbidity in filter bed due to insufficient washing	
	Filter's Accessories Valves & Pipe	0			0			
	Back Wash Control Butterfly Valve		0			0		
	Surface Wash Control Butterfly Valve		0			0		
	Filter Controller		0	0				
	Loss Head Meter		0			0		
Clear Water Reservoir	Structure	0		0				Repairing the structure and maintenance valves if necessary
	Maintenance Valves		0	0				
	Connecting Pipeline				0		Leakage	Repairing the leakage point

Rehabilitation Work in Kaolieo Treatment Plant

Name of Facility / Equipment		Construction / Installation		Present Condition			Remarks	Recommendation
		Year 1963	Year 1983	Working	Deterioration	Malfunction		
Distribution Pumping Facility	Pump Building		0	0				Use continuously
	Distribution Pump		0		0		6.3 m3/min. 5.3 m3/min.	Replace the new one
	Vacuum Pump		0	0	0		Change New 1 Unit by NPV	Replace the new one
	Pump Accessories Valves & Check Valves		0	0				Confirm the function of valves & check valves, subsequently replace the new one
Chemical Feeding Facility	Alum Circulation Pump		0			0		Replace the new one
	Alum Storage Tank		0	0				Use continuously by means of repairing if necessary
	Alum Constant Water Level Head Tank		0	0				
	Alum Mixer		0	0				
	Alum Flow Meter		0	0				
	Alum Flow Controller		0	0				
	Hypo Circulation Pump		0			0		Replace the new one
	Hypo Storage Tank		0			0		Replace the new one
	Hypo Constant Water Level Head Tank		0			0		Replace the new one
	Hypo Flow Meter		0			0		Replace the new one
	Hypo Flow Controller		0			0		Replace the new one
	Monorail System		0			0		Replace the new one
Electrical Equipment Facility	Power Receiving Facility	0		0				Replace the new one
	Power Supply Facility	0	0	0				Replace the new one
	Clear Water Flow Meter			0			Installed by AFD	Use continuously
Laboratory	Building	0						Use continuously
	Water Quality Analysis Equipment							Renovation of water quality analysis equipment
Administration Building		0						Use continuously