

BUILDING SURVEY DETAILS

BUILDING NUMBER	BUILDING NAME	STRUCTURE	COMPLETION YEAR	BUILDING AREA	TOTAL FLOOR AREA	CONCRETE DESIGN COMPRESSIVE STRESS	CONCRETE ACTUAL COMPRESSIVE STRESS	RENEWAL DATA	COPING	CAULKING	OTHERS
23-B	ADMINISTRATION BUILDING B-BLOCK	REINFORCED CONCRETE (COLUMN, BEAM, WALL, BRICK)		865.69M ²	865.69M ²	300KG/CM ²					
EVALUATION ITEM	EXTERIOR (NORTH)	WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH X	WATER PROOF	⊙	⊙	
		NORMAL	✓	RUSTY	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	
		DAMAGE		CORROSION	RUSTY	RUSTY	DIRTY	LEAKAGE		BROKEN	
EVALUATION ITEM		BROKEN		MISSING	CORROSION	CORROSION	WORN OUT	DAMAGE		NONE	
		BULLET MARKS		MISSING	MISSING	NONE					
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	
PHOTO NUMBERS	23B-3	23B-3		23B-3	23B-3	23B-3	23B-3				
RECOMMENDATION	C	C			C	A	A	C	C	C	
EVALUATION ITEM	EXTERIOR EAST	WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH X	WATER PROOF	⊙	⊙	
		NORMAL	✓	RUSTY	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	
		DAMAGE		CORROSION	RUSTY	RUSTY	DIRTY	LEAKAGE		BROKEN	
EVALUATION ITEM		BROKEN		MISSING	CORROSION	CORROSION	WORN OUT	DAMAGE		NONE	
		BULLET MARKS		MISSING	MISSING	NONE					
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	
PHOTO NUMBERS	23B-1	23B-1		23B-1	23B-1	23B-1	23B-1				
RECOMMENDATION	C	C		C	C	A	A	C	C	C	
EVALUATION ITEM	EXTERIOR SOUTH	WALL (BRICK)	X	DOOR	WINDOW	METAL	EXTERIOR FINISH X	WATER PROOF	⊙	⊙	
		NORMAL		RUSTY	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	
		DAMAGE		CORROSION	RUSTY	RUSTY	DIRTY	LEAKAGE		BROKEN	
EVALUATION ITEM		BROKEN		MISSING	CORROSION	CORROSION	WORN OUT	DAMAGE		NONE	
		BULLET MARKS		MISSING	MISSING	NONE					
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	
PHOTO NUMBERS	23B-2	23B-2		23B-2	23B-2	23B-2	23B-2				
RECOMMENDATION	C	A		A		A	A	C	C	C	
EVALUATION ITEM	EXTERIOR WEST	WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH X	WATER PROOF	⊙	⊙	
		NORMAL	✓	RUSTY	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	
		DAMAGE		CORROSION	RUSTY	RUSTY	DIRTY	LEAKAGE		BROKEN	
EVALUATION ITEM		BROKEN		MISSING	CORROSION	CORROSION	WORN OUT	DAMAGE		NONE	
		BULLET MARKS		MISSING	MISSING	NONE					
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	
PHOTO NUMBERS	23B-2	23B-2		23B-2	23B-2	23B-2	23B-2				
RECOMMENDATION	C	C		A		A	A	C	C	C	

EVALUATION ⊙-GOOD Δ-AVERAGE X-BAD
 RECOMMENDATION A-TOTAL REFURBISHMENT B-PARTIAL REFURBISHMENT C-NOT NECESSARY

BUILDING NUMBER-23B
ADMINISTRATION BUILDING B-BLOCK

1-MECHANIC WORK ROOM		FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
PARTICULAR	NORMAL	Δ	⊙	⊙	⊙	NORMAL	NORMAL	⊙	NORMAL	NORMAL	NORMAL	-IT HAD BEEN FLOODED 30cm ABOVE FLOOR LEVEL
EVALUATION ITEM	DIRTY	✓	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	✓	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	SAG	CORROSION	UNEVEN	MISSING	MISSING	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23B-10	23B-10,11	23B-10,11	23B-10,11			23B-11		23B-10			
RECOMMENDATION	B	C	C	C			C		A			
2-STORAGE(1)												
PARTICULAR	FLOOR	Δ	⊙	⊙	⊙	STAIR	LIGHTING	⊙	HEATING	⊙	⊙	OTHERS
EVALUATION ITEM	NORMAL	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	✓	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY		BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	SAG	CORROSION	UNEVEN	MISSING	MISSING	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS		23B-12					23B-12					
RECOMMENDATION	B	C	C	C			C		A			
3-WARD ROBE												
PARTICULAR	FLOOR	×	×	×	×	STAIR	LIGHTING	×	HEATING	×	×	OTHERS
EVALUATION ITEM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	×	NORMAL	NORMAL	NORMAL	SCARS OF THE FLOOD ON WALLS.
	DIRTY	✓	✓	✓	RUSTY	DIRTY	RUSTY	✓	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	SAG	CORROSION	UNEVEN	MISSING	MISSING	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23B-10	23B-13	23B-13	23B-13			23B-13					
RECOMMENDATION	A	A	A	A			A		A			

RECOMMENDATION A-TOTAL REFURBISHMENT
B-PARTIAL REFURBISHMENT
C-NOT NECESSARY

BUILDING NUMBER-23B ADMINISTRATION BUILDING B-BLOCK

7-AMBULANCE												OTHERS					
PARTICULAR	FLOOR	x	WALL	x	CEILING	x	METAL	STAIR	LIGHTING	x	VENTILATION	HEATING	x	WATER EQUIPMENT	x	FIRE EXTINGUISHER	OTHERS
EVALUATION ITEM	NORMAL	DIRTY	SAG	BROKEN	DIRTY	SAG	RUSTY	DIRTY	RUSTY	BROKEN	CORROSION	NORMAL	BROKEN	NORMAL	BROKEN	CORROSION	SCARS OF THE FLOOD ON WALLS.
INVESTIGATION METHOD	SAG	BROKEN	DIRTY	BROKEN	DIRTY	SAG	CORROSION	UNEVEN	BROKEN	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	BROKEN	MISSING
PHOTO NUMBERS	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION
RECOMMENDATION	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8-ELECTRIC																	
PARTICULAR	FLOOR	Δ	WALL	Δ	CEILING	⊙	METAL	STAIR	LIGHTING	⊙	VENTILATION	HEATING	x	WATER EQUIPMENT		FIRE EXTINGUISHER	OTHERS
EVALUATION ITEM	NORMAL	DIRTY	SAG	BROKEN	DIRTY	SAG	RUSTY	DIRTY	RUSTY	BROKEN	CORROSION	NORMAL	BROKEN	NORMAL	BROKEN	CORROSION	SCARS OF THE FLOOD ON WALLS.
INVESTIGATION METHOD	SAG	BROKEN	DIRTY	BROKEN	DIRTY	SAG	CORROSION	UNEVEN	BROKEN	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	BROKEN	MISSING
PHOTO NUMBERS	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION
RECOMMENDATION	B	C	C	C	C	C	C	C	C	C	C	A	A	A	A	A	A
9-TINSMITH																	
PARTICULAR	FLOOR	Δ	WALL	⊙	CEILING	⊙	METAL	STAIR	LIGHTING	⊙	VENTILATION	HEATING	x	WATER EQUIPMENT		FIRE EXTINGUISHER	OTHERS
EVALUATION ITEM	NORMAL	DIRTY	SAG	BROKEN	DIRTY	SAG	RUSTY	DIRTY	RUSTY	BROKEN	CORROSION	NORMAL	BROKEN	NORMAL	BROKEN	CORROSION	SCARS OF THE FLOOD ON WALLS.
INVESTIGATION METHOD	SAG	BROKEN	DIRTY	BROKEN	DIRTY	SAG	CORROSION	UNEVEN	BROKEN	MISSING	MISSING	MISSING	MISSING	MISSING	MISSING	BROKEN	MISSING
PHOTO NUMBERS	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION
RECOMMENDATION	⊙	C	C	C	C	C	C	C	C	C	C	A	A	A	A	A	A

EVALUATION ⊙-GOOD Δ-AVERAGE x-BAD
 RECOMMENDATION A-TOTAL REFURBISHMENT B-PARTIAL REFURBISHMENT C-NOT NECESSARY

BUILDING ADMINISTRATION BUILDING
NUMBER-23B

B-BLOCK

10-LOCKSMITH	EVALUATION										OTHERS
	FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	
PARTICULAR	NORMAL	⊗	⊗	⊗		⊗			×		
	DIRTY	✓	✓	✓		✓				NORMAL	
	SAG								✓	CORROSION	
	BROKEN									BROKEN	
EVALUATION ITEM										MISSING	
	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
	PHOTO NUMBERS										
	RECOMMENDATION	C	C	C		C		A			
11-OFFICE(1)											
PARTICULAR	FLOOR	△	×	⊗		⊗			×		
	NORMAL			✓		✓				NORMAL	
	DIRTY	✓								CORROSION	
	SAG								✓	BROKEN	
EVALUATION ITEM										MISSING	
	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
	PHOTO NUMBERS	23B-17								23B-17	
	RECOMMENDATION	B	A	C		C		A		A	
12-OFFICE(2)											
PARTICULAR	FLOOR	△	⊗	⊗		⊗			×		
	NORMAL		✓	✓		✓				NORMAL	
	DIRTY	✓								CORROSION	
	SAG								✓	BROKEN	
EVALUATION ITEM										MISSING	
	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
	PHOTO NUMBERS										
	RECOMMENDATION	B	C	C		C		A			
12-OFFICE(2)											
PARTICULAR	FLOOR	△	⊗	⊗		⊗			×		
	NORMAL		✓	✓		✓				NORMAL	
	DIRTY	✓								CORROSION	
	SAG								✓	BROKEN	
EVALUATION ITEM										MISSING	
	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
	PHOTO NUMBERS										
	RECOMMENDATION	B	C	C		C		A			

EVALUATION
 ⊗-GOOD
 △-AVERAGE
 x-BAD

RECOMMENDATION
 A-TOTAL REFURBISHMENT
 B-PARTIAL REFURBISHMENT
 C-NOT NECESSARY

BUILDING NUMBER-23B ADMINISTRATION BUILDING B-BLOCK

13-GARDENER	FLOOR	Δ	WALL	Δ	CEILING	⊙	METAL	STAIR	LIGHTING	×	VENTILATION	HEATING	×	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	✓	DIRTY	✓	DIRTY	✓	RUSTY	DIRTY	RUSTY	✓	CORROSION	BROKEN	BROKEN	BROKEN	CORROSION	
	SAG	✓	SAG	SAG	SAG	✓	CORROSION	UNEVEN	BROKEN	MISSING	MISSING	MISSING	✓	MISSING	BROKEN	
	BROKEN		BROKEN	BROKEN	BROKEN	✓	BROKEN	BROKEN	MISSING	MISSING	MISSING	MISSING	✓		BROKEN	
INVESTIGATION METHOD	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS																
RECOMMENDATION	B	B	B	C	C				A			A				
14-STORAGE(2)																
PARTICULAR	FLOOR	Δ	WALL	Δ	CEILING	⊙	METAL	STAIR	LIGHTING	⊙	VENTILATION	HEATING	×	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	NORMAL	NORMAL	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	✓	DIRTY	✓	DIRTY	✓	RUSTY	DIRTY	RUSTY	✓	CORROSION	BROKEN	BROKEN	BROKEN	CORROSION	
	SAG		SAG	SAG	SAG	✓	CORROSION	UNEVEN	BROKEN	✓	BROKEN	MISSING	MISSING	MISSING	BROKEN	
	BROKEN		BROKEN	BROKEN	BROKEN	✓	BROKEN	BROKEN	MISSING	MISSING	MISSING	MISSING	MISSING		MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS																
RECOMMENDATION	B	B	B	C	C				C			A				
15-WELDING MAN																
PARTICULAR	FLOOR	Δ	WALL	⊙	CEILING	⊙	METAL	STAIR	LIGHTING	⊙	VENTILATION	HEATING	×	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓	NORMAL	NORMAL	NORMAL	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	✓	DIRTY	✓	DIRTY	✓	RUSTY	DIRTY	RUSTY	✓	CORROSION	BROKEN	BROKEN	BROKEN	CORROSION	
	SAG		SAG	SAG	SAG	✓	CORROSION	UNEVEN	BROKEN	✓	BROKEN	MISSING	MISSING	MISSING	BROKEN	
	BROKEN		BROKEN	BROKEN	BROKEN	✓	BROKEN	BROKEN	MISSING	MISSING	MISSING	MISSING	MISSING		MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23B-18	23B-18	23B-18	23B-18	23B-18							23B-18				
RECOMMENDATION	B	C	C	C	C				C			A				

EVALUATION ⊙-GOOD Δ-AVERAGE ×-BAD
RECOMMENDATION A-TOTAL REFURBISHMENT B-PARTIAL REFURBISHMENT C-NOT NECESSARY

BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
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PLAN AND DIRECTION FROM WHICH PHOTO WAS TAKEN

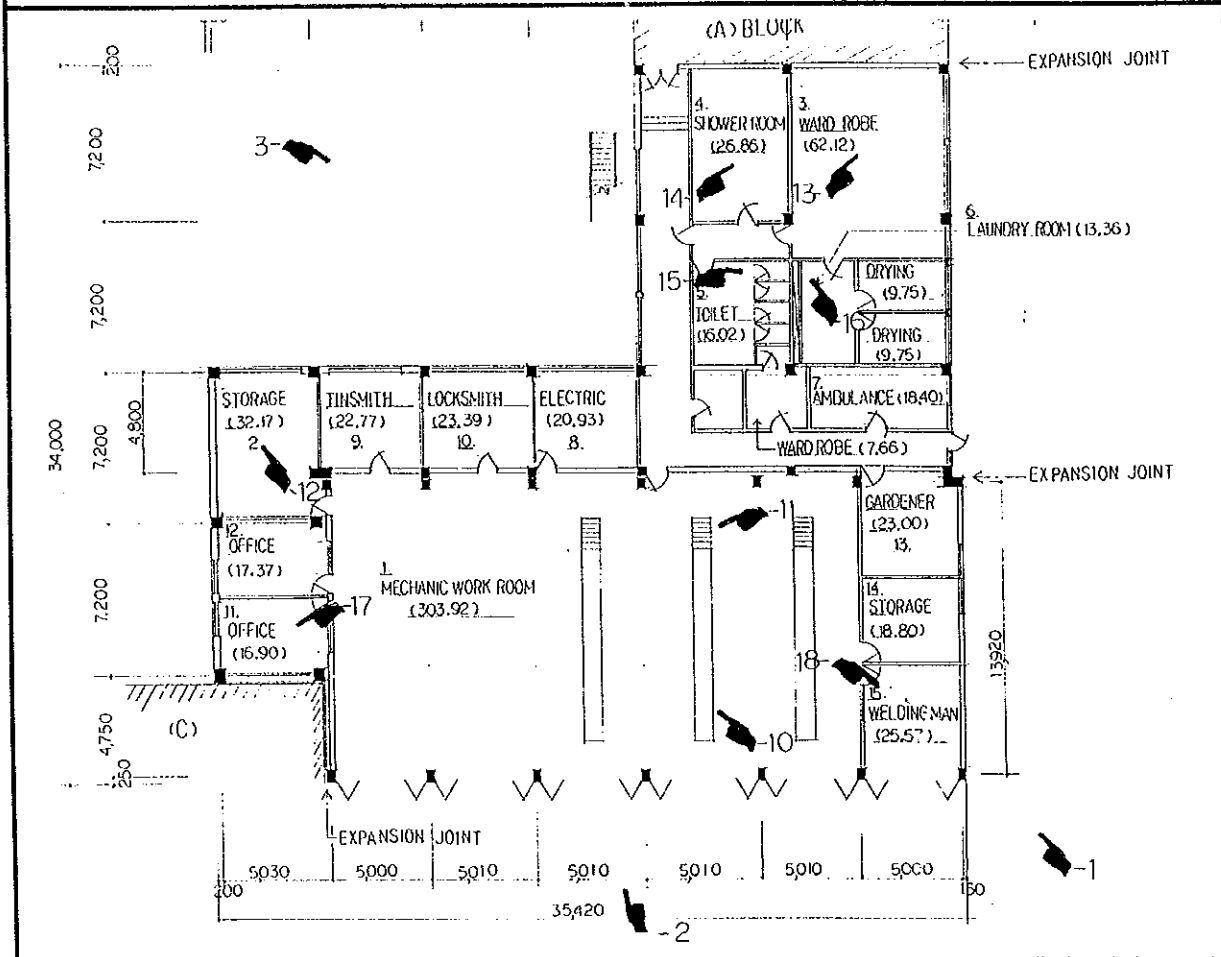


PHOTO NUMBER 23B-1



BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-2		

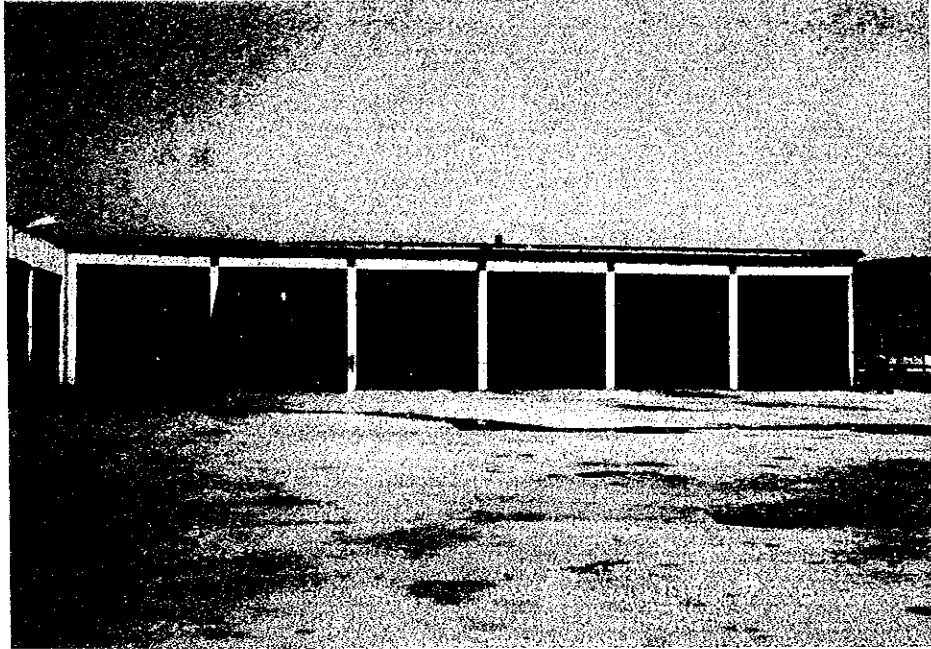


PHOTO NUMBER 23B-3



BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-10		

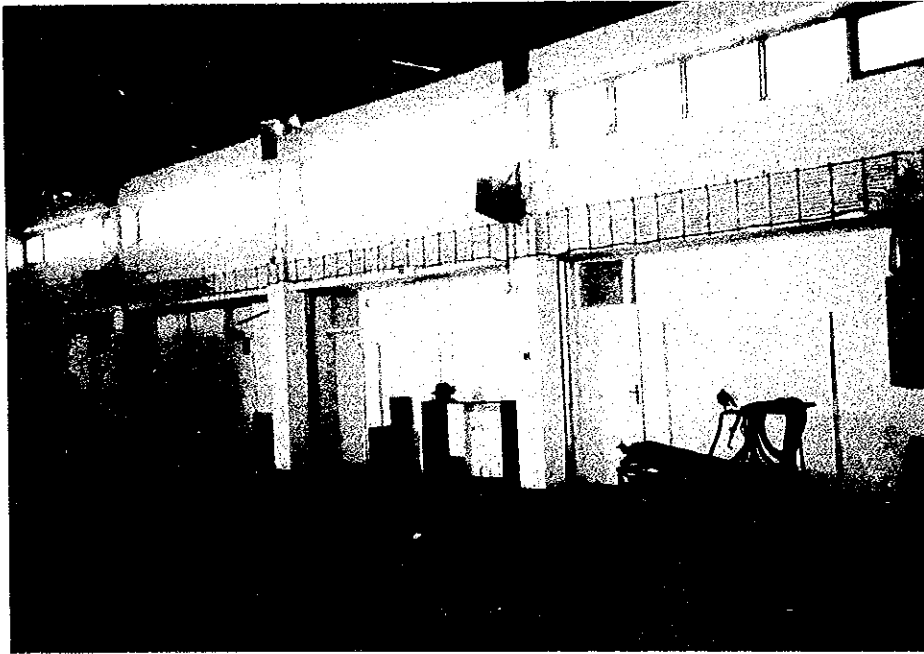
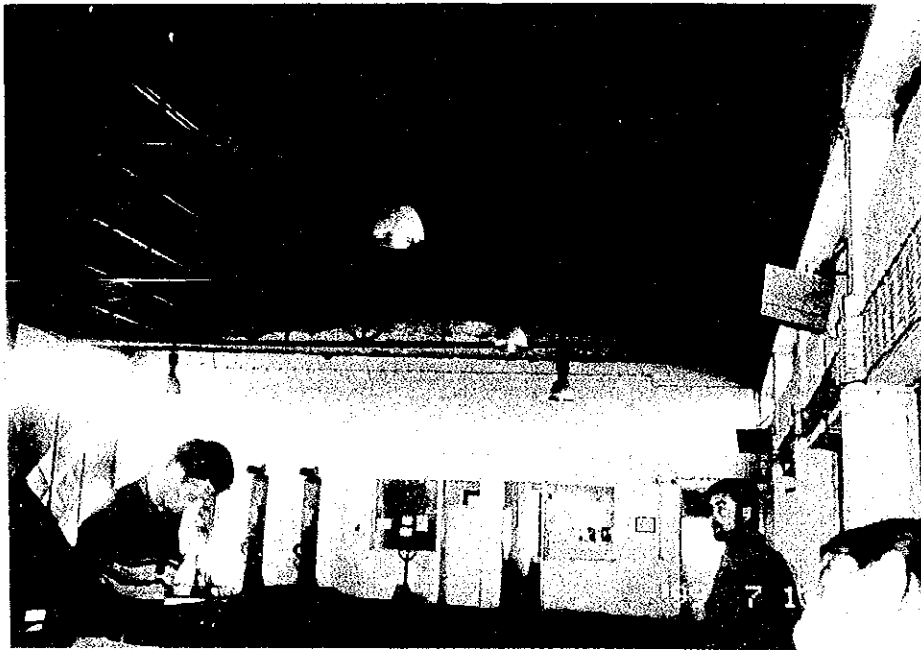

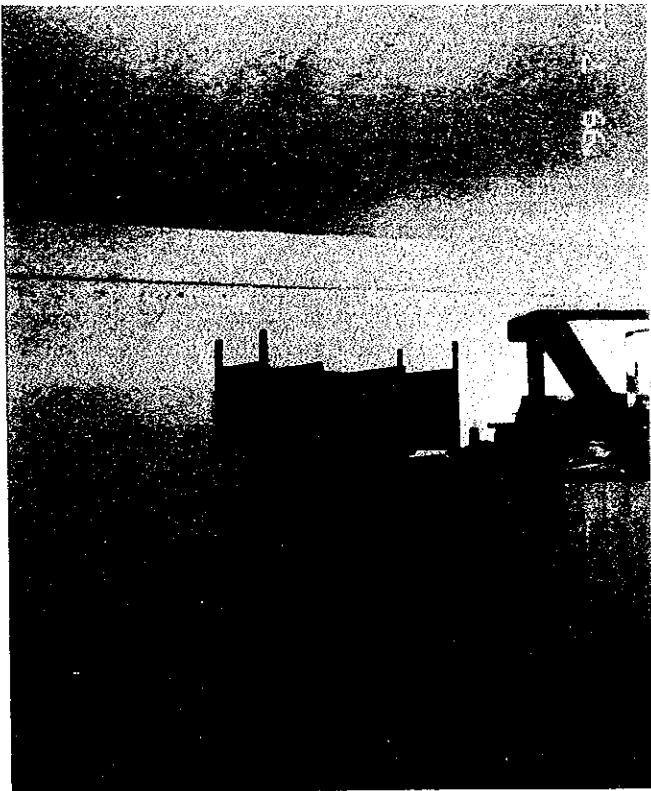


PHOTO NUMBER 23B-11



BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-12		
			
PHOTO NUMBER	23B-13		
			

BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-14		

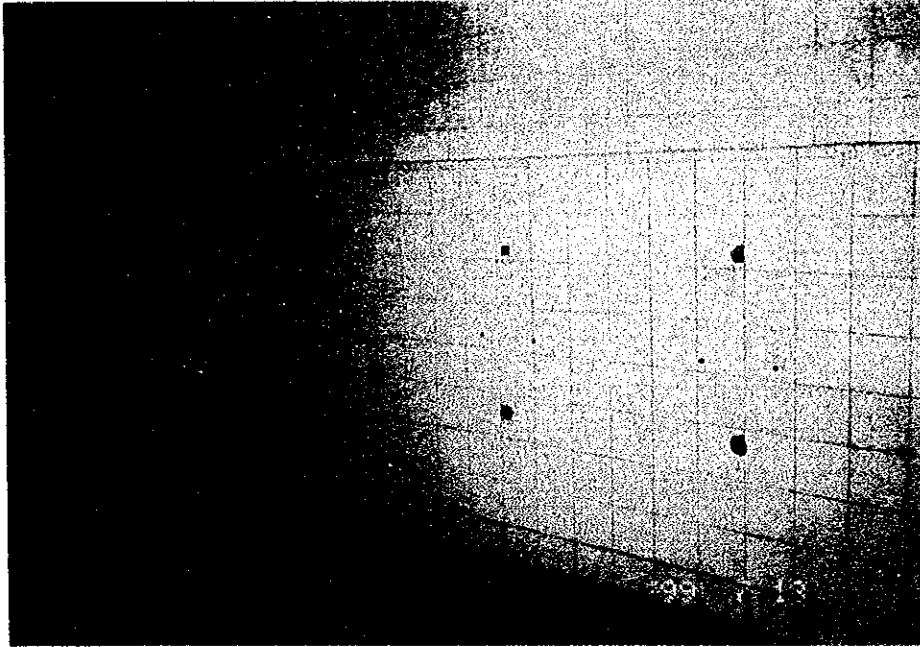


PHOTO NUMBER	23B-15		
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BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-16		

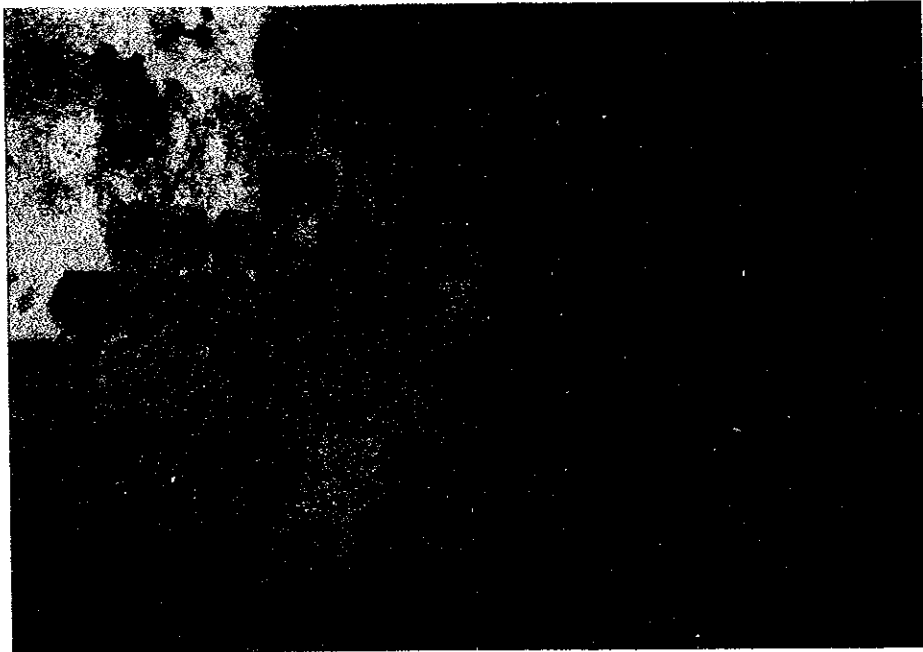
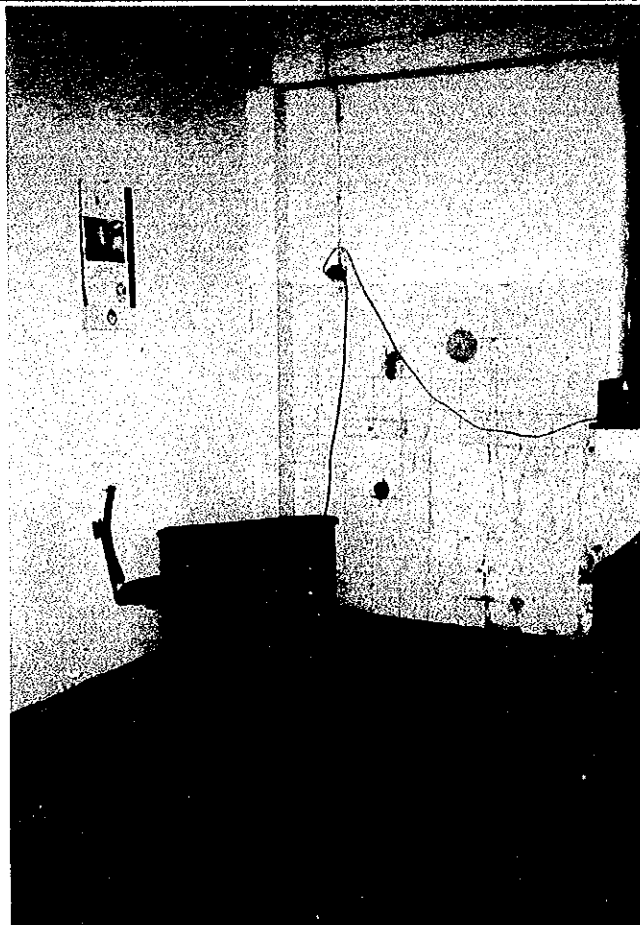
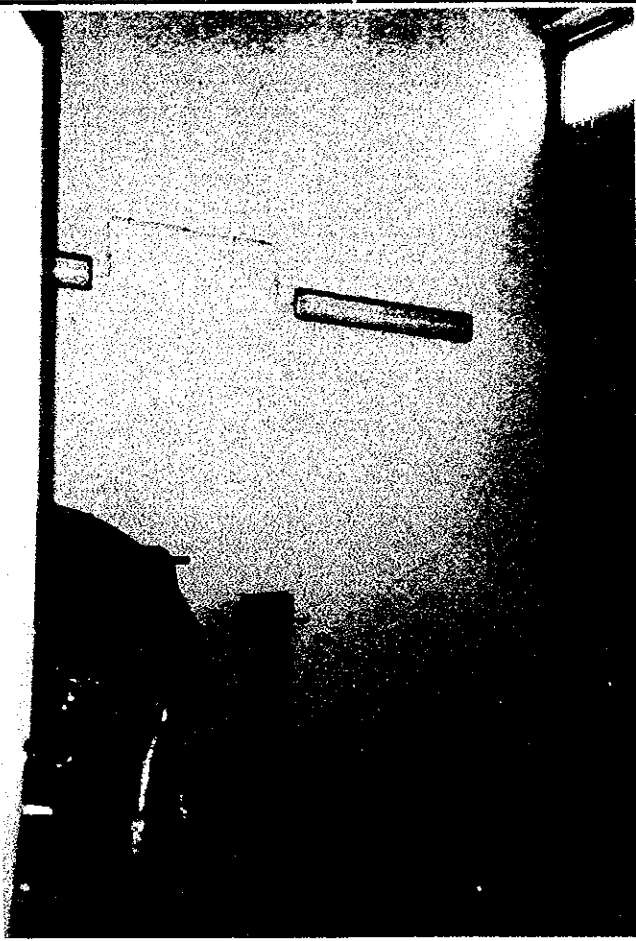


PHOTO NUMBER	23B-17		
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BUILDING SURVEY PHOTO

BUILDING NUMBER	23B	BUILDING NAME	ADMINISTRATION
PHOTO NUMBER	23B-18		
			
PHOTO NUMBER	23B-		

BUILDING SURVEY DETAILS

BUILDING NUMBER	BUILDING NAME	STRUCTURE	COMPLETE YEAR	BUILDING AREA	TOTAL FLOOR AREA	CONCRETE DESIGN COMPRESSIVE STRESS	CONCRETE ACTUAL COMPRESSIVE STRESS	RENEWAL DATA	COPING	CAULKING	OTHERS
23-C	ADMINISTRATION BUILDING C-BLOCK	REINFORCED CONCRETE (COLUMN/BEAM), WALL BRICK		437.65m ²	457.82m ²	30000/4mm ²					
EVALUATION ITEM	COLUMN BEAM	⊙ WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓
	DAMAGE	DAMAGE		RUSTY	RUSTY	RUSTY	DIRTY	LEAKAGE	RUSTY	BROKEN	IT IS NEEDED TO REPAINT THE REINFORCING BARS AND TO REPAIR THE WATERPROOFING PROC. AS EMERGENCY TO WATERPROOF.
EVALUATION ITEM		BROKEN		CORROSION	CORROSION	CORROSION	WORN OUT	✓			
		BULLET MARKS		MISSING	MISSING	NONE					
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION		VISUAL INSPECTION	
INVESTIGATION METHOD											
PHOTO NUMBERS											
RECOMMENDATION											
EVALUATION ITEM	C	C		DOOR	WINDOW	METAL	A	C	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	COLUMN BEAM	⊙ WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓
EVALUATION ITEM	DAMAGE	DAMAGE		RUSTY	RUSTY	RUSTY	DIRTY	LEAKAGE	RUSTY	BROKEN	
		BROKEN		CORROSION	CORROSION	CORROSION	WORN OUT	✓			
		BULLET MARKS		MISSING	MISSING	NONE					
INVESTIGATION METHOD											
PHOTO NUMBERS	23C-1			23C-1							
RECOMMENDATION											
EVALUATION ITEM	C	C		DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	COLUMN BEAM	⊙ WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓
EVALUATION ITEM	DAMAGE	DAMAGE		RUSTY	RUSTY	RUSTY	DIRTY	LEAKAGE	RUSTY	BROKEN	
		BROKEN		CORROSION	CORROSION	CORROSION	WORN OUT	✓			
		BULLET MARKS		MISSING	MISSING	NONE					
INVESTIGATION METHOD											
PHOTO NUMBERS	23C-2			23C-2							
RECOMMENDATION											
EVALUATION ITEM	C	C		DOOR	WINDOW	METAL	A	C	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	COLUMN BEAM	⊙ WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓
EVALUATION ITEM	DAMAGE	DAMAGE		RUSTY	RUSTY	RUSTY	DIRTY	LEAKAGE	RUSTY	BROKEN	
		BROKEN		CORROSION	CORROSION	CORROSION	WORN OUT	✓			
		BULLET MARKS		MISSING	MISSING	NONE					
INVESTIGATION METHOD											
PHOTO NUMBERS	23C-3			23C-3							
RECOMMENDATION											
EVALUATION ITEM	C	C		DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	COLUMN BEAM	⊙ WALL (BRICK)	⊙	DOOR	WINDOW	METAL	EXTERIOR FINISH	X	⊙ COPING	⊙ CAULKING	⊙ OTHERS
	NORMAL	✓	✓	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	✓	NORMAL	✓
EVALUATION ITEM	DAMAGE	DAMAGE		RUSTY	RUSTY	RUSTY	DIRTY	LEAKAGE	RUSTY	BROKEN	
		BROKEN		CORROSION	CORROSION	CORROSION	WORN OUT	✓			
		BULLET MARKS		MISSING	MISSING	NONE					
INVESTIGATION METHOD											
PHOTO NUMBERS	23C-3			23C-3							
RECOMMENDATION											
EVALUATION											

⊙-GOOD
 Δ-AVERAGE
 x-BAD

RECOMMENDATION A-TOTAL REFURBISHMENT
 B-PARTIAL REFURBISHMENT
 C-NOT NECESSARY

BUILDING NUMBER-23C ADMINISTRATION BUILDING C-BLOCK

GARAGE(1)	FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23C-11	23C-11	23C-10			23C-10					
RECOMMENDATION	B	A	A			A		A	A		
GARAGE(2)											
	FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23C-12	23C-12	23C-12			23C-12					
RECOMMENDATION	B	A	A			A		A			
STORAGE OF THE PLANT											
	FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	23C-13	23C-13	23C-13								
RECOMMENDATION	B	A	A			A		A			

RECOMMENDATION A-TOTAL REFURBISHMENT
 B-PARTIAL REFURBISHMENT
 C-NOT NECESSARY

23C-2

EVALUATION
 O-GOOD
 A-AVERAGE
 X-BAD

BUILDING SURVEY PHOTO

BUILDING NUMBER	23C	BUILDING NAME	ADMINISTRATION
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PLAN AND DIRECTION FROM WHICH PHOTO WAS TAKEN

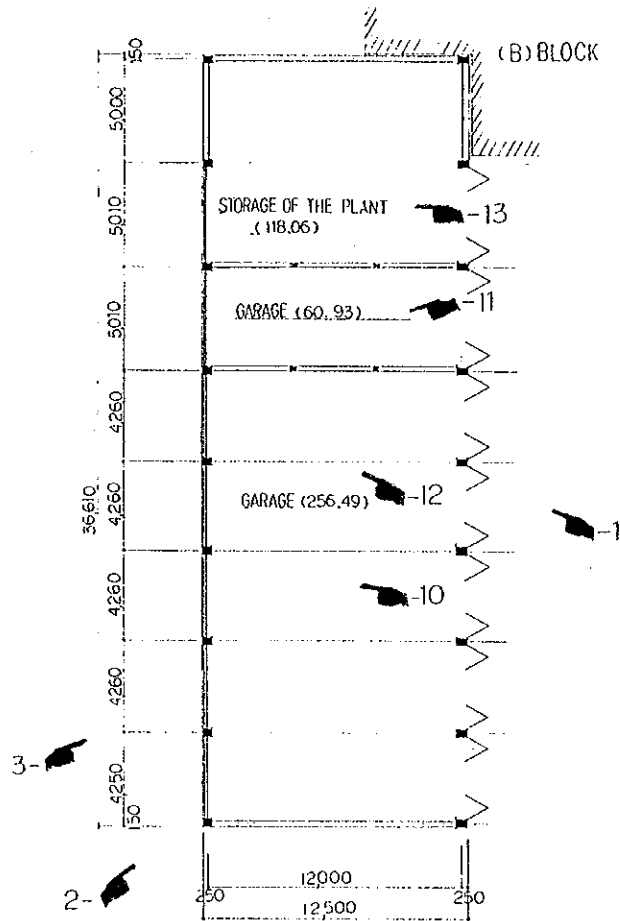
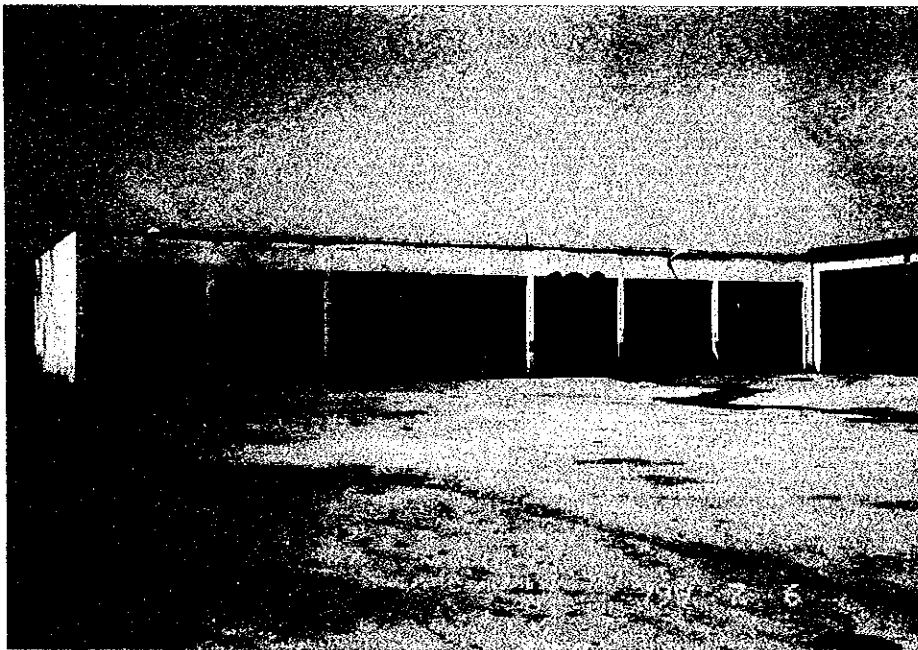


PHOTO NUMBER 23C-1



BUILDING SURVEY PHOTO

BUILDING NUMBER	23C	BUILDING NAME	ADMINISTRATION
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PHOTO NUMBER	23C-2
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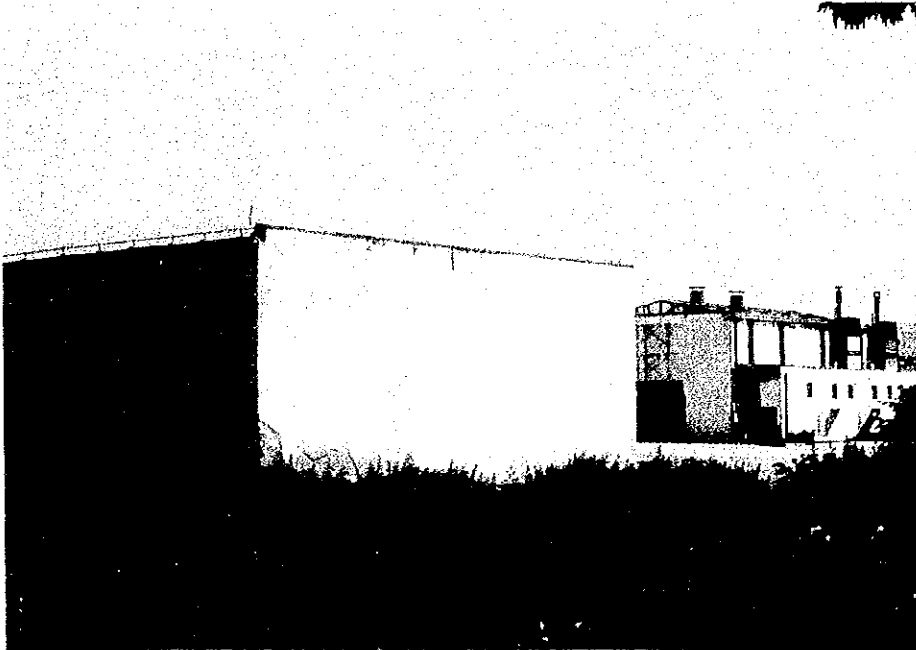
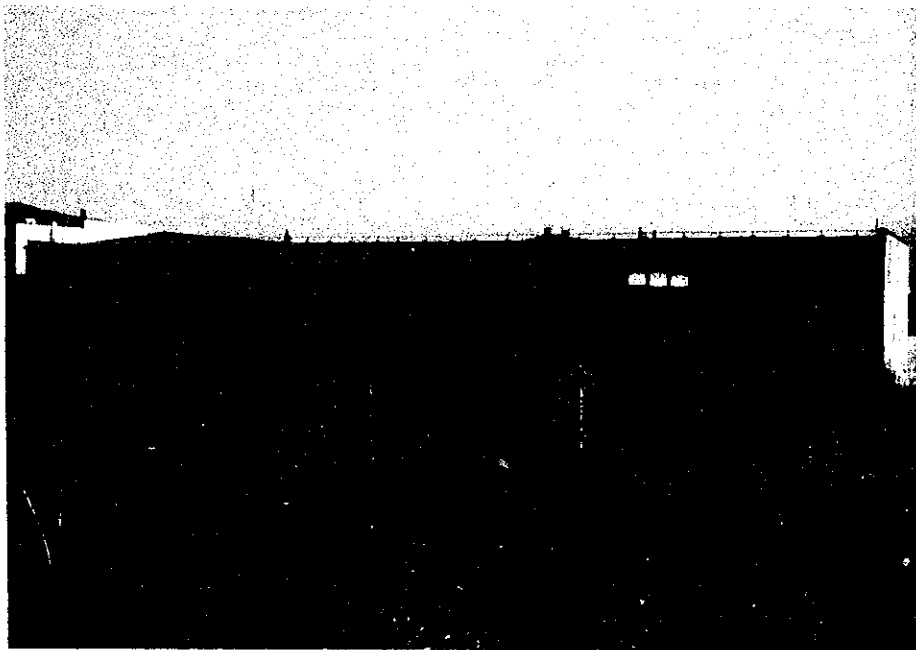


PHOTO NUMBER	23C-3
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BUILDING SURVEY PHOTO

BUILDING NUMBER	23C	BUILDING NAME	ADMINISTRATION
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PHOTO NUMBER	23C-10
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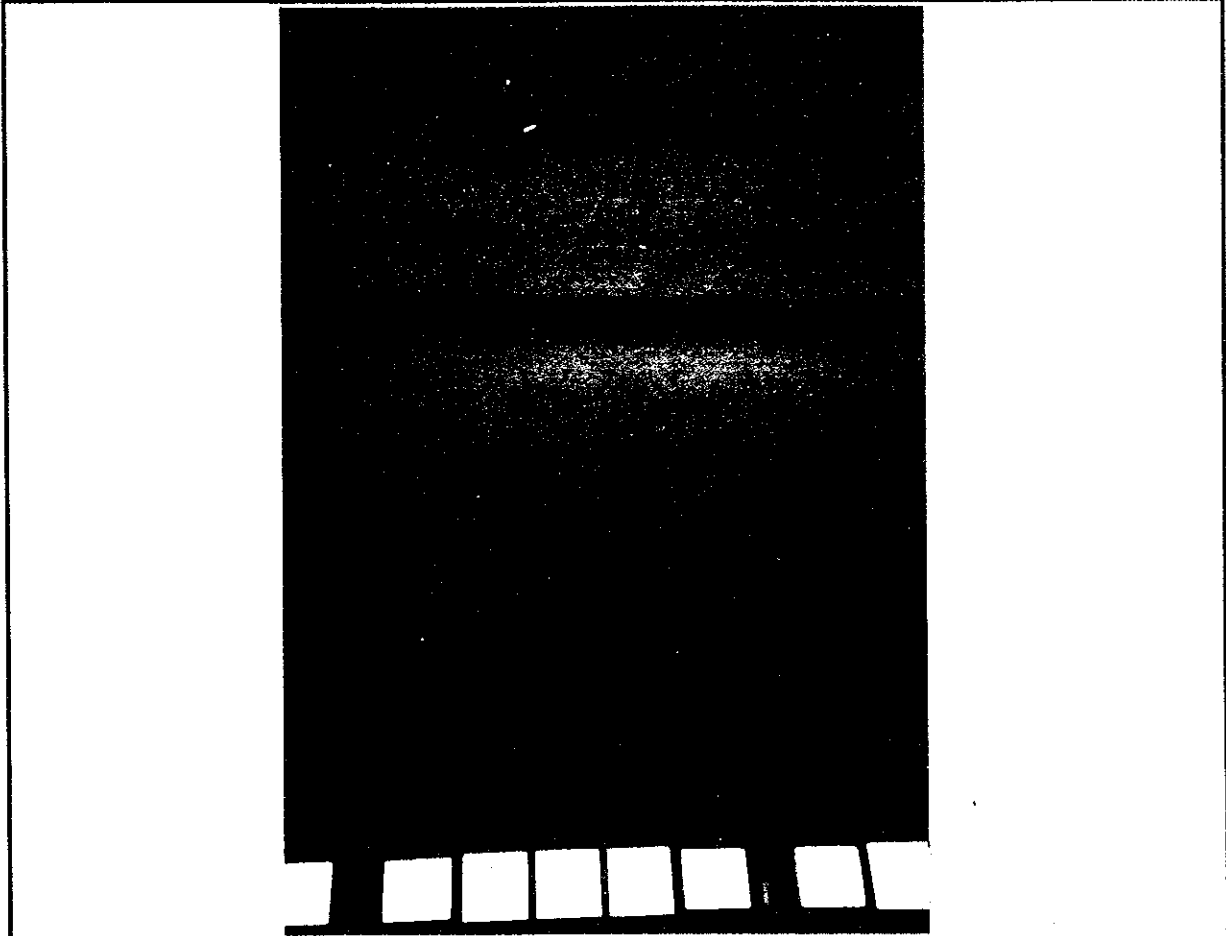
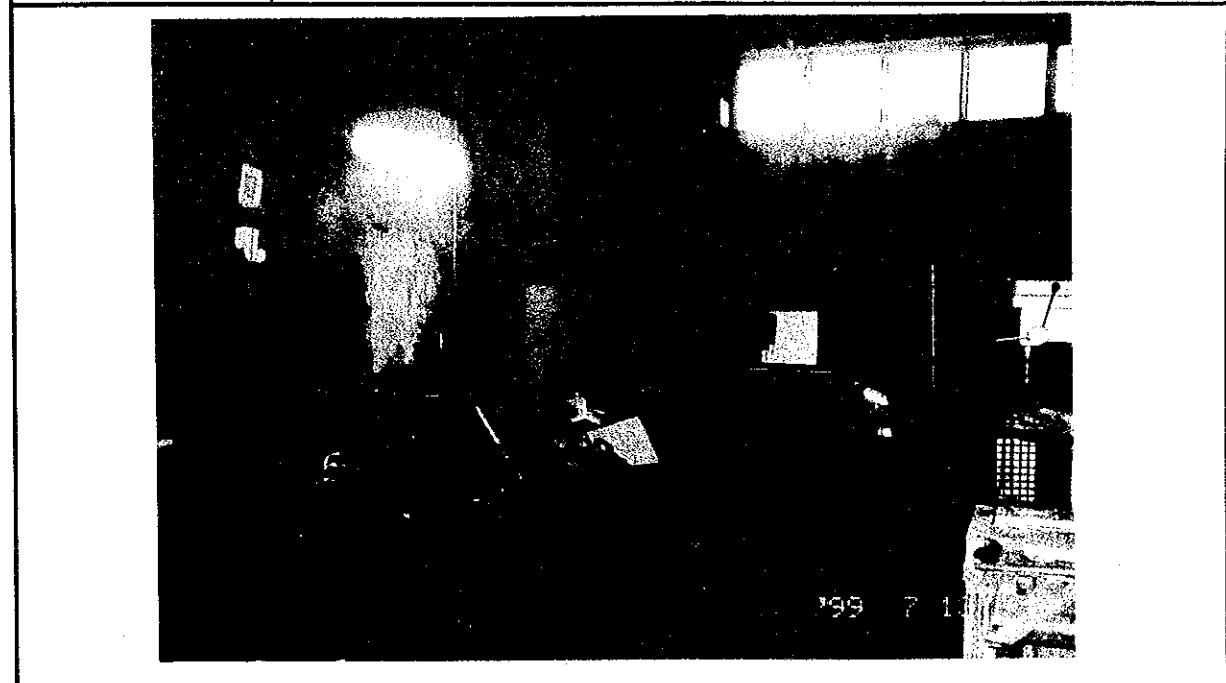


PHOTO NUMBER	23C-11
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BUILDING SURVEY PHOTO

BUILDING NUMBER	23C	BUILDING NAME	ADMINISTRATION
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PHOTO NUMBER	23C-12
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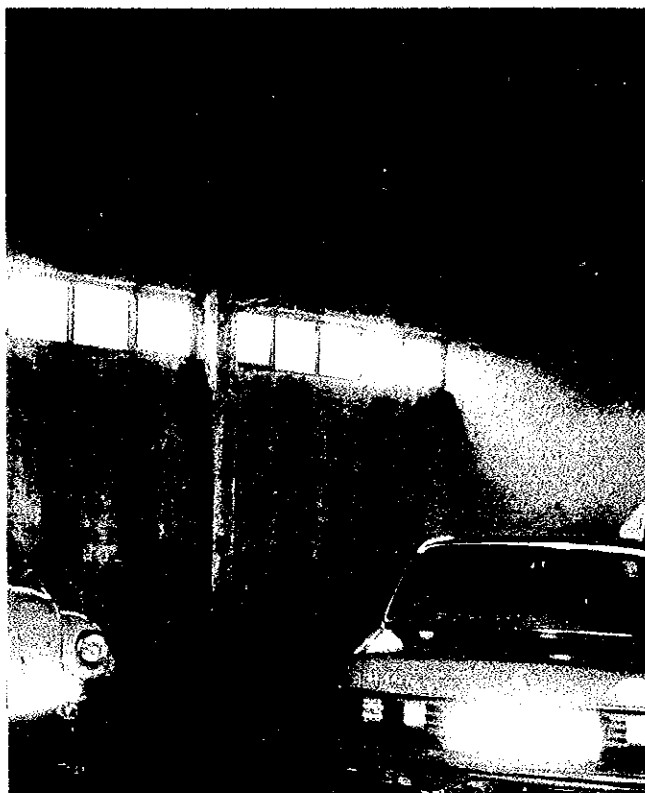
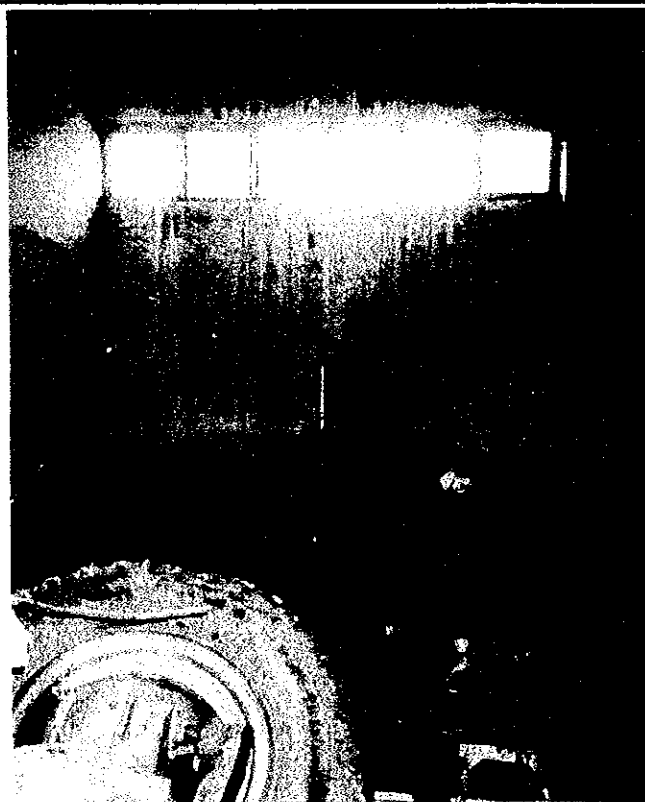


PHOTO NUMBER	23C-13
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BUILDING SURVEY DETAILS

BUILDING NUMBER	BUILDING NAME	STRUCTURE	COMPLETE YEAR	BUILDING AREA	TOTAL FLOOR AREA	CONCRETE DESIGN COMPRESSIVE STRESS	CONCRETE ACTUAL COMPRESSIVE STRESS	RENEWAL DATA	COPING	CAULKING	OTHERS
24	SERVICE WATER PUMP STATION	REINFORCED CONCRETE (COLUMN,BEAM), WALL BRICK		57.00m ²	57.00m ²	500KG/cm ²					
EXTERIOR NORTH	COLUMN BEAM	⊙ WALL(BRICK)	⊙	DOOR	WINDOW	X METAL	EXTERIOR FINISH	X	X COPING	X CAULKING	X
		NORMAL	✓	NORMAL	NORMAL	NORMAL	DIRTY	NORMAL	NORMAL	NORMAL	
		DAMAGE		RUSTY	RUSTY	RUSTY	WORN OUT	LEAKAGE	RUSTY	BROKEN	✓
		BROKEN		CORROSION	CORROSION	CORROSION		DAMAGE	CORROSION	NONE	
EVALUATION ITEM		BULLET MARKS		MISSING	MISSING	NONE			NONE		
		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
INVESTIGATION METHOD											
PHOTO NUMBERS											
RECOMMENDATION	C	C			A	A	A	A	A	A	
EXTERIOR EAST	COLUMN BEAM	⊙ WALL(BRICK)	⊙	DOOR	WINDOW	X METAL	EXTERIOR FINISH	X	X COPING	X CAULKING	OTHERS
EVALUATION ITEM		NORMAL	✓	NORMAL	NORMAL	NORMAL	DIRTY	NORMAL	NORMAL	NORMAL	
		DAMAGE		RUSTY	RUSTY	RUSTY	WORN OUT	LEAKAGE	RUSTY	BROKEN	✓
		BROKEN		CORROSION	CORROSION	CORROSION		DAMAGE	CORROSION	NONE	
		BULLET MARKS		MISSING	MISSING	NONE			NONE		
INVESTIGATION METHOD		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	24-1	24-1	24-1	24-1	24-1	24-1	24-1	24-1	24-1	24-1	24-1
RECOMMENDATION	C	C		A	A	A	A	A	A	A	
EXTERIOR SOUTH	COLUMN BEAM	⊙ WALL(BRICK)	⊙	DOOR	WINDOW	X METAL	EXTERIOR FINISH	X	X COPING	X CAULKING	OTHERS
EVALUATION ITEM		NORMAL	✓	NORMAL	NORMAL	NORMAL	DIRTY	NORMAL	NORMAL	NORMAL	
		DAMAGE		RUSTY	RUSTY	RUSTY	WORN OUT	LEAKAGE	RUSTY	BROKEN	✓
		BROKEN		CORROSION	CORROSION	CORROSION		DAMAGE	CORROSION	NONE	
		BULLET MARKS		MISSING	MISSING	NONE			NONE		
INVESTIGATION METHOD		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	24-2	24-2	24-2	24-2	24-2	24-2	24-2	24-2	24-2	24-2	24-2
RECOMMENDATION	C	C		A	A	A	A	A	A	A	
EXTERIOR WEST	COLUMN BEAM	⊙ WALL(BRICK)	⊙	DOOR	WINDOW	X METAL	EXTERIOR FINISH	X	X COPING	X CAULKING	OTHERS
EVALUATION ITEM		NORMAL	✓	NORMAL	NORMAL	NORMAL	DIRTY	NORMAL	NORMAL	NORMAL	
		DAMAGE		RUSTY	RUSTY	RUSTY	WORN OUT	LEAKAGE	RUSTY	BROKEN	✓
		BROKEN		CORROSION	CORROSION	CORROSION		DAMAGE	CORROSION	NONE	
		BULLET MARKS		MISSING	MISSING	NONE			NONE		
INVESTIGATION METHOD		VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION		VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	24-3	24-3	24-3	24-3	24-3	24-3	24-3	24-3	24-3	24-3	24-3
RECOMMENDATION	C	C		A	A	A	A	A	A	A	
EVALUATION	⊙-GOOD	⊙-GOOD		Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE	Δ-AVERAGE
				x-BAD	x-BAD	x-BAD	x-BAD	x-BAD	x-BAD	x-BAD	x-BAD

RECOMMENDATION A-TOTAL REFURBISHMENT
B-PARTIAL REFURBISHMENT
C-NOT NECESSARY

BUILDING NUMBER-24 SERVICE WATER PUMP STATION

PUMP ROOM	FLOOR	WALL	CEILING	METAL	STAIR	LIGHTING	VENTILATION	HEATING	WATER EQUIPMENT	FIRE EXTINGUISHER	OTHERS
EVALUATION ITEM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS	24-10.11	24-10.11	24-10.11			24-10.11					
RECOMMENDATION	A	A	A			A		A			
EVALUATION ITEM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS											
RECOMMENDATION											
EVALUATION ITEM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS											
RECOMMENDATION											
EVALUATION ITEM	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	
	DIRTY	DIRTY	DIRTY	RUSTY	DIRTY	RUSTY	CORROSION	BROKEN	BROKEN	CORROSION	
	SAG	SAG	SAG	CORROSION	UNEVEN	BROKEN	BROKEN	MISSING	MISSING	BROKEN	
	BROKEN	BROKEN	BROKEN	BROKEN	BROKEN	MISSING	MISSING			MISSING	
INVESTIGATION METHOD	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	VISUAL INSPECTION	
PHOTO NUMBERS											
RECOMMENDATION											
EVALUATION	RECOMMENDATION A-TOTAL REFURBISHMENT B-PARTIAL REFURBISHMENT C-NOT NECESSARY										

BUILDING SURVEY PHOTO

BUILDING NUMBER	24	BUILDING NAME	SERVICE WATER PUMPING STATION
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PLAN AND DIRECTION FROM WHICH PHOTO WAS TAKEN

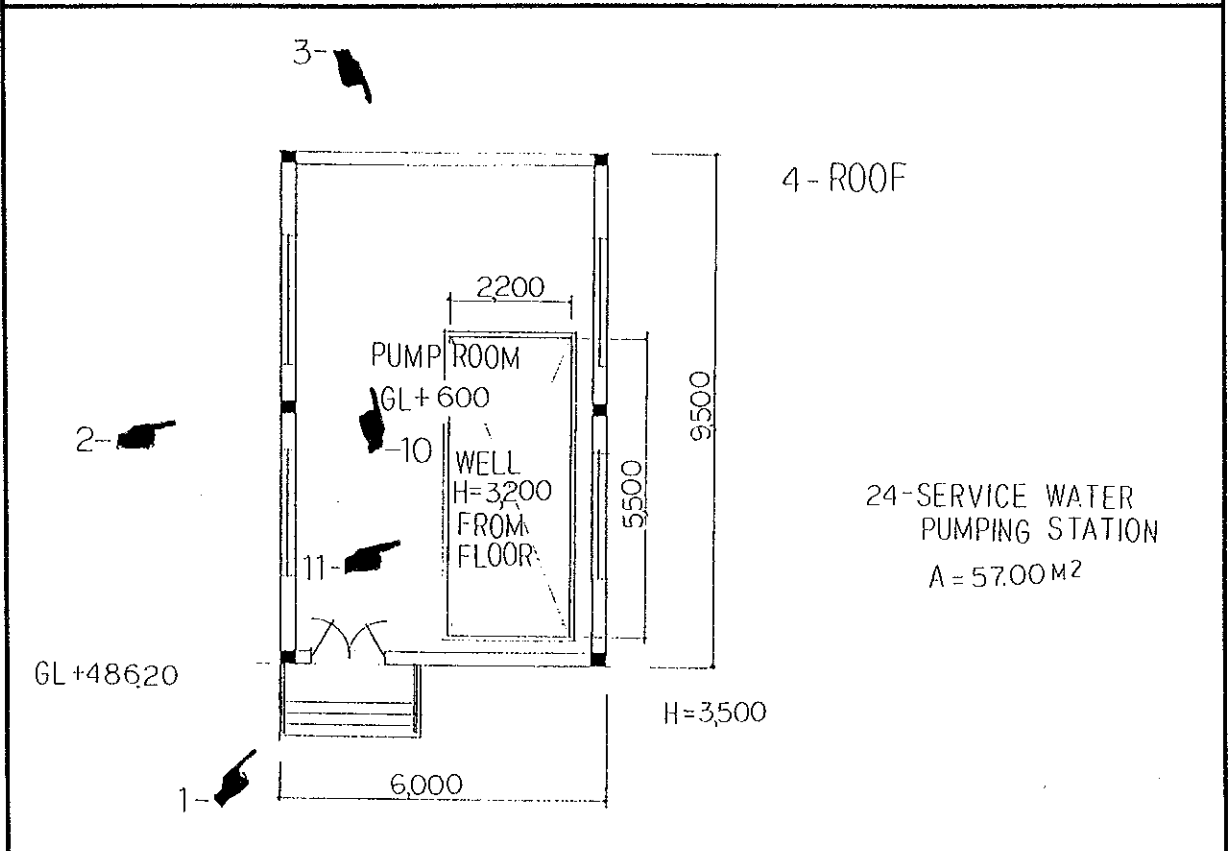
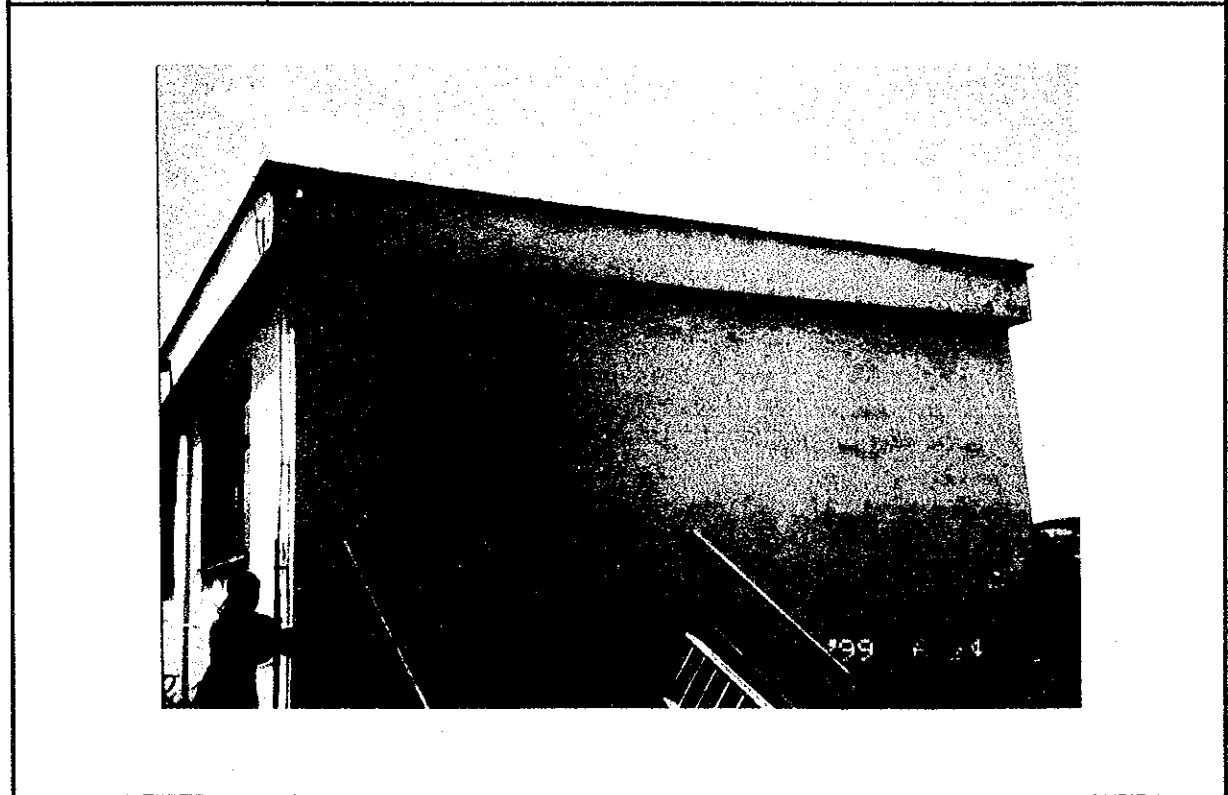


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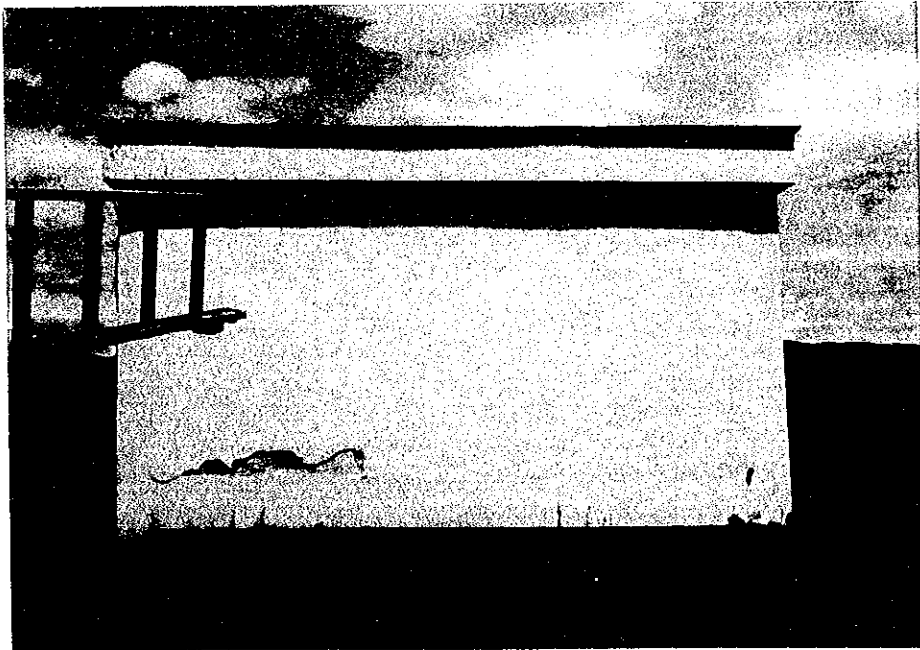


BUILDING SURVEY PHOTO

BUILDING NUMBER	24	BUILDING NAME	SERVICE WATER PUMPING STATION
PHOTO NUMBER	24-2		



PHOTO NUMBER	24-3		
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BUILDING SURVEY PHOTO

BUILDING NUMBER	24	BUILDING NAME	SERVICE WATER PUMPING STATION
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PHOTO NUMBER	24-10
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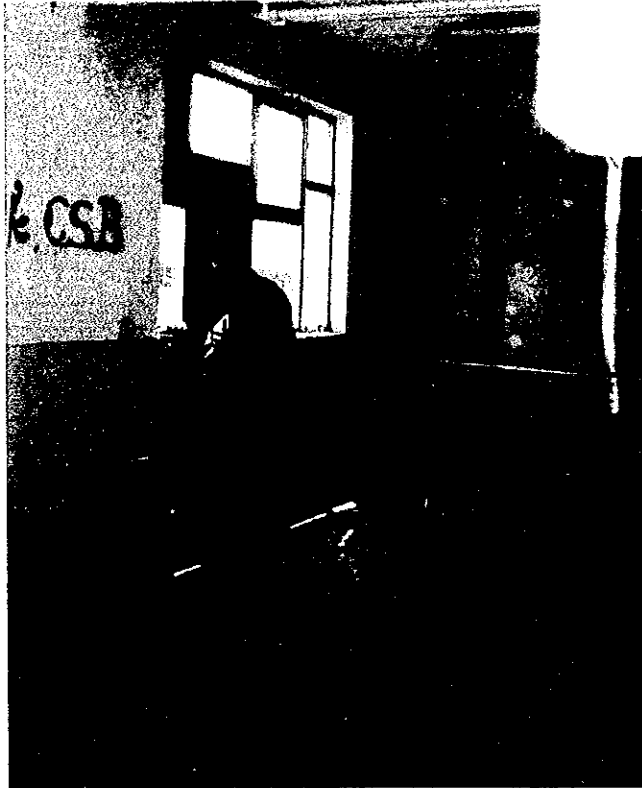
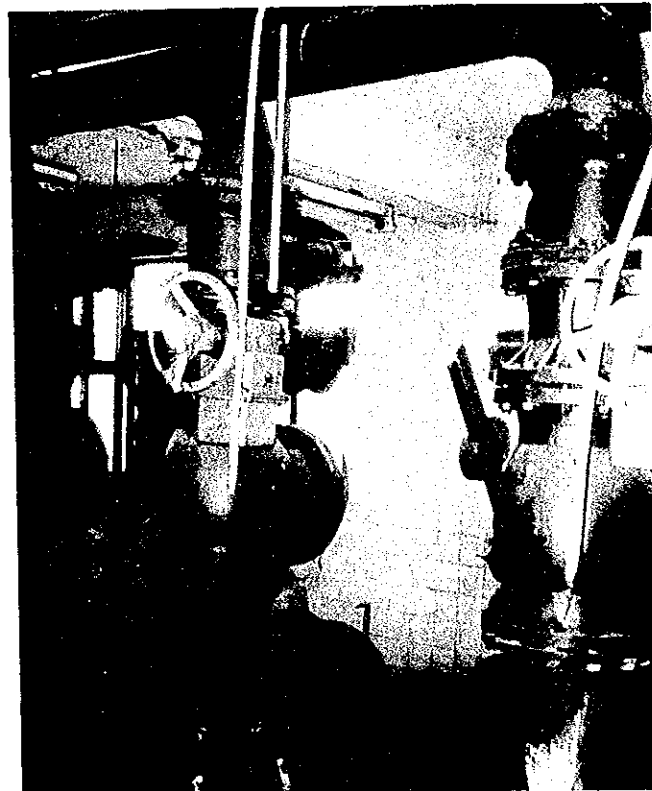


PHOTO NUMBER	24-11
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APPENDIX

I

INSPECTION SHEETS MECHANICAL ASPECTS

INSPECTION SHEET

Date of inspection 18 , June ,1999

Weather Cloudy later rain

Equipment	Main inlet gate	380 V	2.5 kW	4 pole
		Manufacturer: MIN NIS		
Location	Pre-treatment	Facilities		

Result of inspection						
		Physical inspection			Functional inspection	
Degree of problem	Operating condition	×	※1	Capacity	—	※2
	Stain/Corrosion	×		Safety measure	×	
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	×				
	Damage	×				
	Abnormal sound	—	—			
	Overheat	—	—			
	Wear	×				
Decision	A					

※1: The drive motor is removed and part of reducer is broken, only hand lever exists and the gate is movable, therefore operation test was carried out by rotating hand lever manually upward and downward in full spun of gate opening. Inside structure of level indicator and the pointer of the indicator work properly when the gate is operating by manually with hand lever.

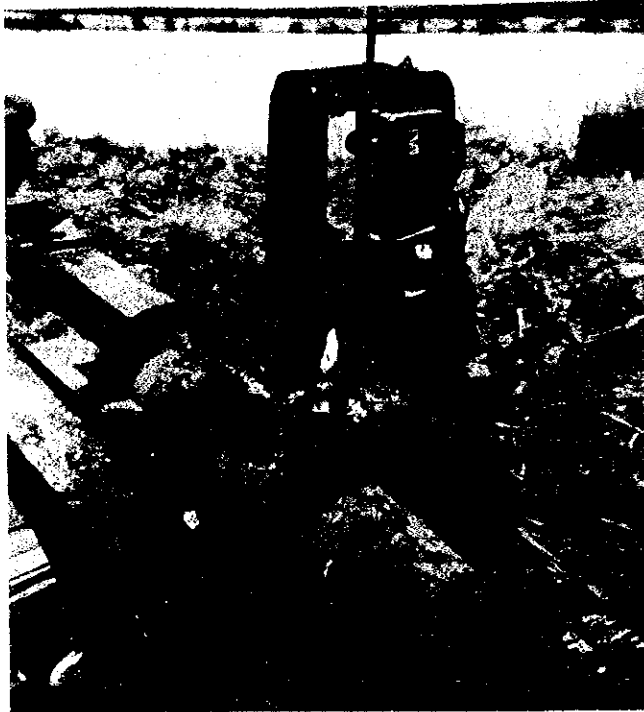
※2: Capacity in case of gate means that moving speed of gate plate in downward and upward are in between reasonable range when drive the gate by motor through reducer. However drive motor is move out, and besides the reducer is seriously damaged, therefore decision of capacity is impossible because the operation of the gate by motor through reducer being definitely not available.

As a conclusion, the whole main inlet facility including necessary auxiliaries should be replaced with new one.

FACILITY SURVEY PHOTO

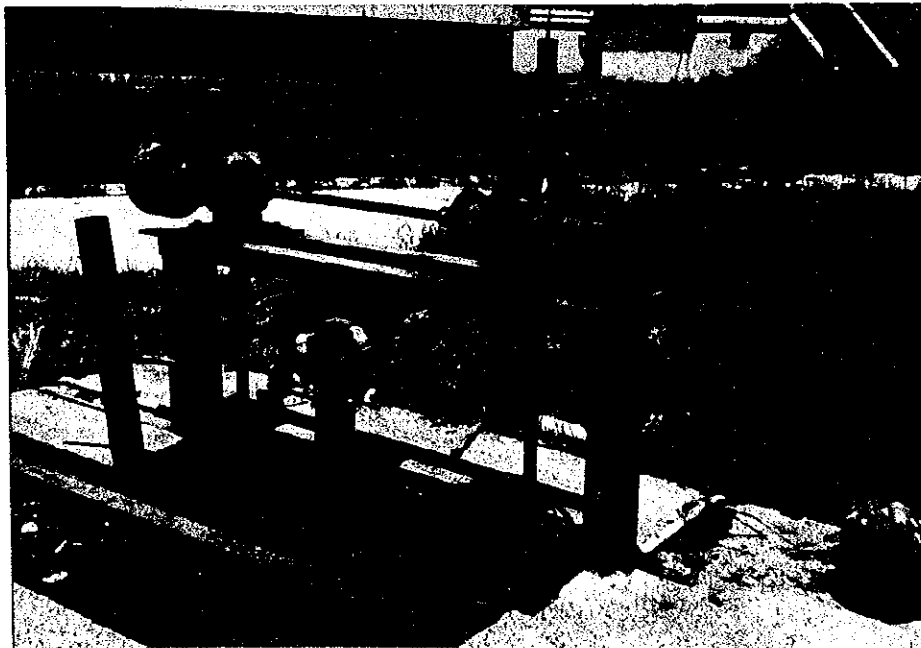
LOCATION : PRE TREATMENT : MAIN INLET GATE

PHOTO No. 0-M 1



LOCATION : PRE TREATMENT : MAIN INLET GATE

PHOTO No. 0-M 2



FACILITY SURVEY PHOTO

LOCATION : PRE TREATMENT : MAIN INLET GATE

PHOTO No.0-M 3



LOCATION : PRE TREATMENT : MAIN INLET GATE

PHOTO N o. 0-M 4



INSPECTION SHEET

Date of inspection 18 , June ,1999

Weather Cloudy later rain

Equipment	Screw pump No. 1~No. 4* 380 V 160 kW 4 pole		
	*(Numbering is from right to left in Arab. rule)		Manufacturer: FLAYT
Location	Raw water pumping station	Facilities	

Result of inspection						
Physical inspection				Functional inspection		
Degree of problem	Operating condition	-	※1	Capacity	-	
	Stain/Corrosion	○		Safety measure	△	
	Painting	△	※2	Other	△	※3
	Lubricant	×				
	Deformation/Crack	○				
	Damage	△				
	Abnormal sound	-				
	Overheat	-				
	Wear	○				
Decision	B					

※1: Grease lubrication systems for lower bearings of all 4 pumps are damaged or broken, and operation test for this kind of machines need for at least two hours continuous running in order to investigate several bearing's temperature stabilization, vibration, abnormal sound and water pumping up capability etc. In this case all four pumps are lacking of lower bearings' grease lubrication, therefore operation test for two hours should be too dangerous because of probably causing the severe damage of the pumps and not recommendable from the mechanical and safety point of view.

※2: Painting condition of 4 screw pumps are almost same and not so bad. Thickness of painting for each of 4 pumps was tried using Painting thickness measuring equipment at two point for each of 4pumps. However the measurement was too dangerous to be carried out, therefore abandoned finally.

※3: Drive units including reducer and lower bearings (foot bearings) need to be changed and remaining screws and shafts could be utilized, still needs cleaning, protection of corroded parts, painting and adjustment.

FACILITY SURVEY PHOTO

LOCATION : RAW WATER PUMPING STATION

PHOTO No. 1-M 1



LOCATION : RAW WATER PUMPING STATION

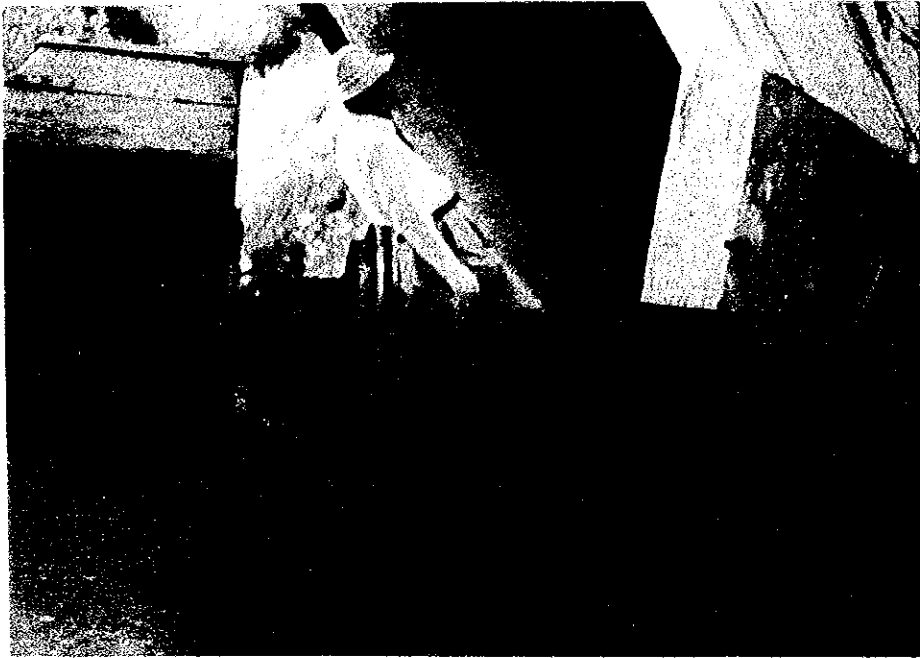
PHOTO No. 1-M 2



FACILITY SURVEY PHOTO

LOCATION : RAW WATER PUMPING STATION

PHOTO №1-M 3



LOCATION : RAW WATER PUMPING STATION

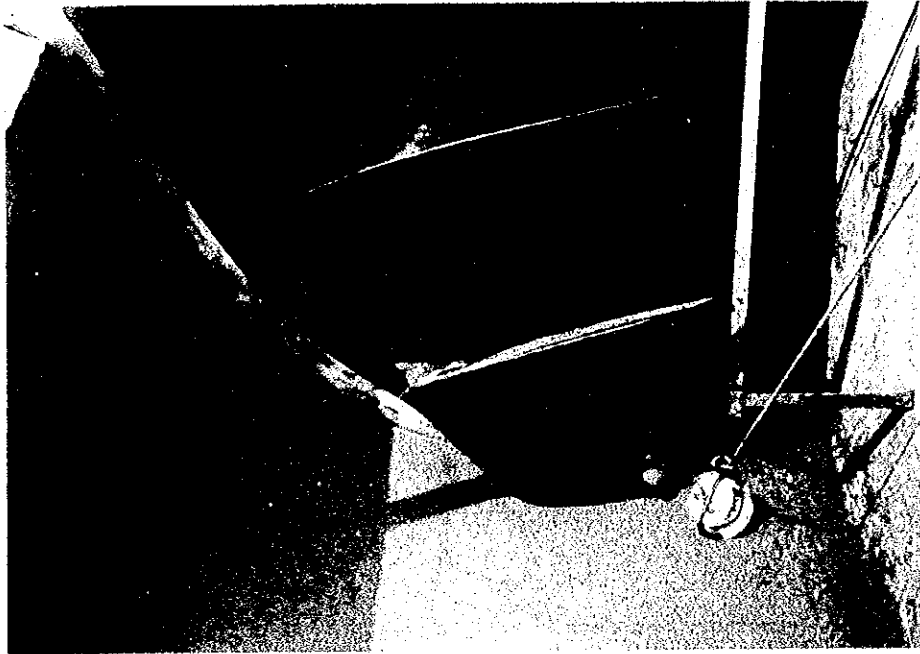
PHOTO №1-M 4



FACILITY SURVEY PHOTO

LOCATION : RAW WATER PUMPING STATION

PHOTO NoJ-M 5



LOCATION : RAW WATER PUMPING STATION

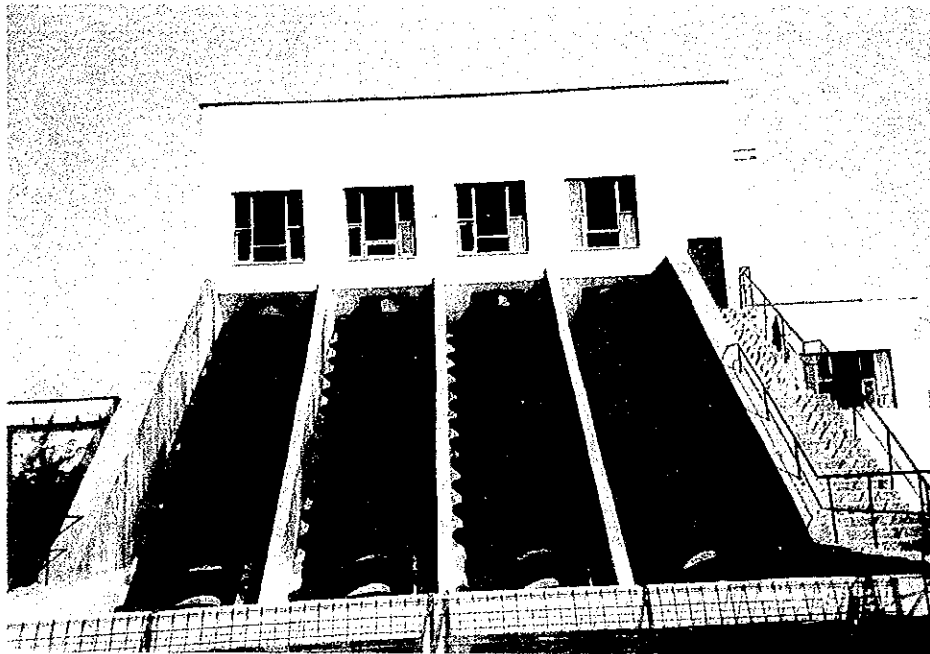
PHOTO NoI-M 6



FACILITY SURVEY PHOTO

Location ; Raw Water Pumping Station

PHOTO No.1-M 7



Location ; Raw Water Pumping Station

PHOTO No.1-M 8



INSPECTION SHEET

Date of inspection 21, June, 1999

Weather Fine

Equipment	Rail crane for screw pumps 380 V 4/0,7 kW 4 pole Manufacturer: Vulkan from Rijeka		
Location	Raw Water Pumping Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	--	--	Capacity	--
	Stain/Corrosion	△	△	Safety measure	△	
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	--				
	Overheat	--				
	Wear	△				
Decision	A					

Remarks : The crane is not good condition. Spare drive motor is dismantled.

The cable of the command from the ground and switch cabinet are not complete. Therefore the crane with whole auxiliaries are necessary to replace with new one.

FACILITY SURVEY PHOTO

LOCATION : RAW WATER PUMPING STATION

PHOTO No. 1. IM 1 Rail Crane for Screw Pumps



INSPECTION SHEET

Date of inspection 22 , June ,1999

Weather Rain later cloudy

Equipment	Stop gate with motor drive 380 V 1.1 kW 2 pole Manufacturer: Laurent-Ramus		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	—		Capacity	—
	Stain/Corrosion	△		Safety measure	×	
	Painting	△		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	—				
	Overheat	—				
	Wear	△				
Decision	A					

Remark: The stop gate is not in good condition. Complete producer's table with the data is missing. The stop gate with whole auxiliaries is necessary to replace with new one from mechanical and safety point of view.

INSPECTION SHEET

Date of inspection 22 , June ,1999

Weather Rain later cloudy

Equipment	Stop gate with manual drive V kW pole		
	Manufacturer: Laurent-Ramus/Auma		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	×	※1	Capacity	×
	Stain/Corrosion	×		Safety measure	×	
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	△				
	Abnormal sound	△				
	Overheat	△				
	Wear	△				
Decision	B					

※1 : All 3 stop gates with manual drives could not operate by usual average man power of 15 kg which is Japan Sewerage Standard due to stiffness between shaft gears and coupled gears, trying to drive upward and downward many times, however could operate by putting much bigger manual power than 15 kg finally, therefore all bolts and nuts as well as retainer sheets need to be renewed and readjust.

FACILITY SURVEY PHOTO

LOCATION : SCREENING STATION

PHOTO No. 2-M 1 STOP GATE WITH MOTOR DRIVE



LOCATION : SCREENING STATION

PHOTO No. 2.1 STOP GATE WITH MANUAL DRIVE



INSPECTION SHEET

Date of inspection 22 , June ,1999

Weather Rain later cloudy

Equipment	Automatic coarse screen No.1~No.4* 380 V 2.5 kW 4 pole *The numbering is from right to left by Arab. rule. Manufacturer: Dgremont		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	—		Capacity	—
	Stain/Corrosion	△		Safety measure	×	
	Painting	△		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	—				
	Overheat	—				
	Wear	△				
Decision	A					

※1 : Capacity in this kind of machine means that moving speed of coarse screen scraper in upward direction along 50mm apart of screen bars shows in certain speed range by operating the automatic coarse screen using drive motor through reducer, however drive motors for all 4 automatic coarse screen are not complete. Therefore measuring the capacity of the all 4 of automatic coarse screen is difficult.

INSPECTION SHEET

Date of inspection 22 , June , 1999

Weather Rain later cloudy

Equipment	Automatic fine screen No.1~No.4* 380 V 2.5 kW 4 pole *The numbering is from right to left in Arab. rule. Manufacturer: Degremont		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	-		Capacity	-
	Stain/Corrosion	△		Safety measure	×	
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	-				
	Overheat	-				
	Wear	△				
Decision		A				

※1 : Capacity in these kind of machines mean that scraping mechanisms are moving upward along 25 mm apart of screen bars when operating by drive motor through reducer show in certain speed range, however drive motors of all 4 automatic fine screens are not complete. Therefore measuring capacity of the automatic fine screens are difficult, almost impossible.

INSPECTION SHEET

Date of inspection 22, June, 1999
Weather

Equipment	Belt conveyors for screenings No.1/No.2 380 V 2.5 kW 4 pole Manufacturer: No table		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	—		Capacity	
	Stain/Corrosion	×	×	Safety measure		
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	×				
	Damage	×				
	Abnormal sound	—				
	Overheat	—				
	Wear	×				
Decision	A					

Remark : The portable conveyors for screenings are in very bad condition, attacked by rust, no motors, it is necessary to replace whole complete sets.

INSPECTION SHEET

Date of inspection 22 , June, 1999
Weather Rain later cloudy

Equipment	Single rail cranes for the screen No.1/No.2 380 V 4/0.7 kW pole		
	Manufacturer: Vulkan Rijeka		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
	Operating condition	—		Capacity	—	
	Stain/Corrosion	△		Safety measure	×	
	Painting	△		Other		
	Lubricant	△				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound					
	Overheat	—				
	Wear	△				
Decision	A					

Remark : Capacity in these kind of machines mean that the lifting capability show designed 2,000 kg by using main and spare motor drive, however cable of command from the ground and switch cabinet are not complete. Therefore measuring of capacity is impossible.
The cranes are need to be replaced with new complete machines with necessary auxiliaries.

INSPECTION SHEET

Date of inspection 22 , June, 1999

Weather Rain later cloudy

Equipment	Stop gate with motor drive 380 V 1.1 kW 2 pole		
	Manufacturer: Lauret Ramus/Auma		
Location	Screening Station	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	—	—	Capacity	
	Stain/Corrosion	△	×	Safety measure		
	Painting	△		Other		
	Lubricant	△				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	—				
	Overheat	—				
	Wear	△				
Decision		A				

Remark : The stop gate is not good condition. Complete producer's table with the data is missing. The stop gate with whole auxiliaries is necessary to be replaced with new one from mechanical and safety point of view.

INSPECTION SHEET

Date of inspection 22 , June , 1999

Weather

Equipment	Stop gates with hand drive No.1~No.3*	V	kW	pole
Manufacturer: Laurent-Ramus/Auma				
Location	Screening Station	Facilities		

Result of inspection					
Degree of problem	Physical inspection			Functional inspection	
		Operating condition	△		Capacity
	Stain/Corrosion	△		Safety measure	×
	Painting	×		Other	
	Lubricant	×			
	Deformation/Crack	△			
	Damage	△			
	Abnormal sound	△			
	Overheat	△			
	Wear	△			
Decision		B			

* Numbering is from right to left in Arab. rule.

Remark : The gates can operate by manually putting much more than 15 kg which Japan Sewerage Standard, therefore all bolts and nuts as well as retainer sheets need to be replaced with new one and readjusted.

FACILITY SURVEY PHOTO

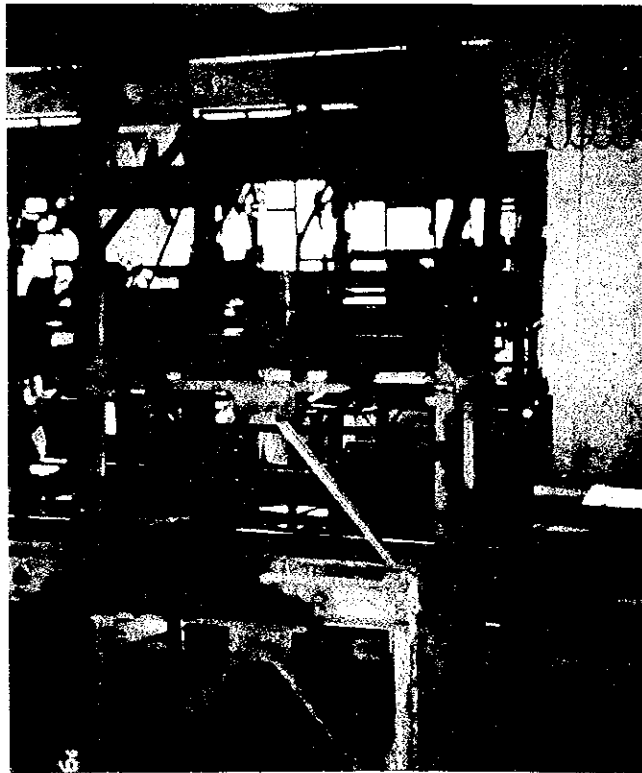
LOCATION : SCREENING STATION

PHOTO No. 2.2 AUTOMATIC COARSE SCREEN No.1 No.4



LOCATION : SCREENING STATION

PHOTO No. 2.3 AUTOMATIC FINE SCREEN No. 1 No.4



INSPECTION SHEET

Date of inspection 23 , June , 1999

Weather: Cloudy

Equipment	Sand trap bridge 380 V 1.5 kW 4 pole Manufacturer: Degremont France		
Location	Aeration Grit Chamber	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
	Operating condition	—		Capacity	--	
	Stain/Corrosion	×		Safety measure	×	
	Painting	×		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	—				
	Overheat	—				
	Wear	×				
Decision	A					

Remark : Metal bridge construction is attacked severely by corrosion, bridge drive motor is rusted and flexible cab tire cable is missing thoroughly.

Aeration system, made of galvanized pipe with nozzles for production of air bubbles is damaged heavily.

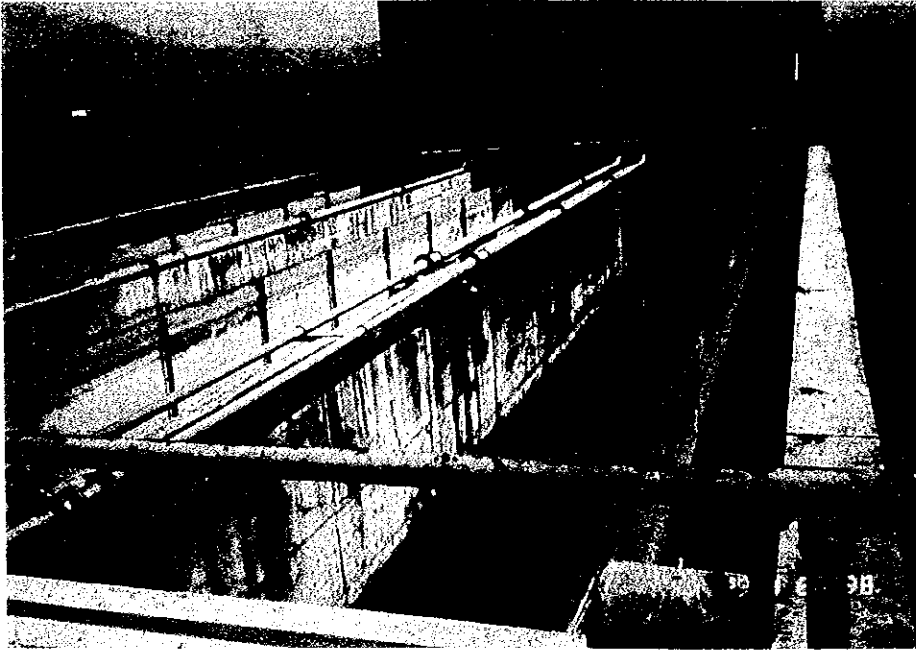
At the bridge, there are mammoth pumps and pipe lines for sludge evacuation and these things are almost finished their lives.

As a conclusion, whole aeration sand trap mechanism with all necessary auxiliaries except civil structure should be replaced by new one.

FACILITY SURVEY PHOTO

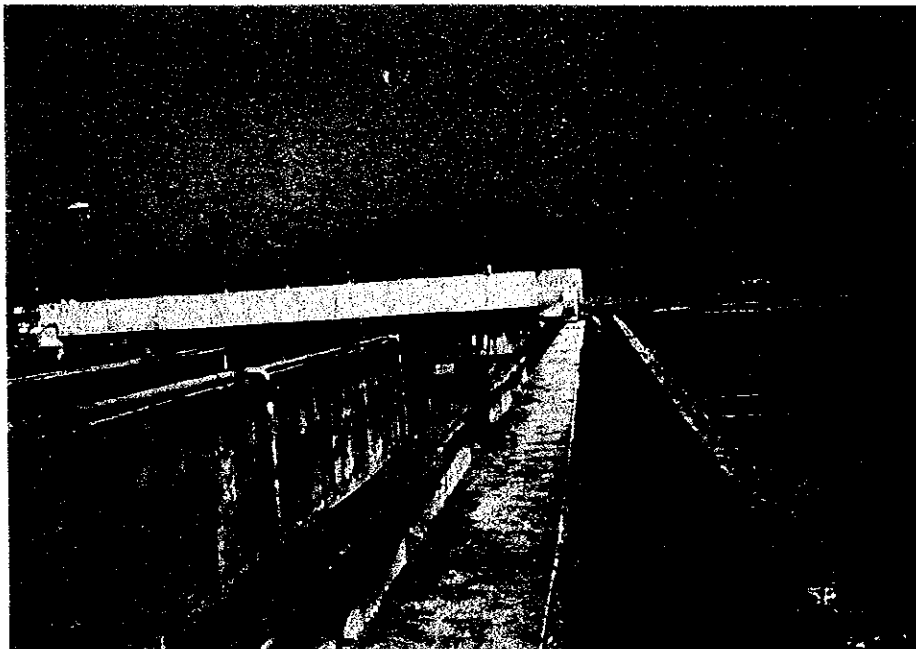
LOCATION : AERATION GRIT CHAMBER

PHOTO No. 3-M 1 SAND TRAP BRIDGE



LOCATION : AERATION GRIT CHAMBER

PHOTO No. 3-M 2 SAND TRAP BRIDGE



INSPECTION SHEET

Date of inspection 23 , June , 1999
 Weather: Cloudy

Equipment	Aeration sand trap inlet gates No.1~No.3* V kw pole	
	*Numbering is from right to left in Arab. rule Manufacturer: Laurent-Ramus	
Location	Aeration grit chamber	Facilities

Result of inspection					
Physical inspection			Functional inspection		
Degree of problem	Operating condition	△		Capacity	△
	Stain/Corrosion	△		Safety measure	×
	Painting	△		Other	
	Lubricant	△			
	Deformation/Crack	△			
	Damage	×			
	Abnormal sound	×			
	Overheat	△			
	Wear	△			
Decision	B				

Remark: All of three gates are operable by manually, however power needed are over 15 kg which figure is guided as Japanese Sewerage Standard.
 All bolts and nuts as well as retainers are needed to be replaced with new ones.

INSPECTION SHEET

Date of inspection 23 , June ,1999
Weather: Cloudy

Equipment	Scum channel inlet gates No.1~No.3 * *Numbering is from right to left by Arab. rule		V	kw	pole
Location	Aerated grit chamber	Facilities	Manufacturer: Laurent-Ramas		

Result of inspection					
Degree of problem	Physical inspection			Functional inspection	
		Operating condition	△		Capacity
	Stain/Corrosion	△		Safety measure	×
	Painting	△		Other	
	Lubricant	×			
	Deformation/Crack	△			
	Damage	×			
	Abnormal sound	×			
	Overheat	×			
	Wear	△			
Decision	B				

Remark: All three of gates are operable by manually, however power needed are over 15 kg which figure is guided as Japanese Sewerage Standard.
All bolts and nuts as well as retainers are needed to be replaced with new ones.

INSPECTION SHEET

Date of inspection 23, June, 1999

Weather: Cloudy

Equipment	Aeration sand trap outlet gates No.1~No.3* *Numbering is from right to left in Arab. rule.	V kw pole	Manufacturer: Laurent-Ramus
Location	Aeration grit chamber	Facilities	

Result of inspection						
Degree of problem	Physical inspection			Functional inspection		
		Operating condition	△		Capacity	△
	Stain/Corrosion	△		Safety measure	×	
	Painting	△		Other		
	Lubricant	×				
	Deformation/Crack	△				
	Damage	×				
	Abnormal sound	×				
	Overheat	×				
	Wear	△				
Decision	B					

Remark: All three of gates are operable by manually, however power needed are over 15 kg which figure is guided as Japanese Sewerage Standard.

All bolts and nuts as well as retainers are needed to be replaced with new ones and readjusted .

FACILITY SURVEY PHOTO

LOCATION : AERATION GRIT CHAMBER

PHOTO No. 3-M 3 SAND TRAP BRIDGE



LOCATION : AERATION GRIT CHAMBER

PHOTO No. 3-4 SAND TRAP BRIDGE

