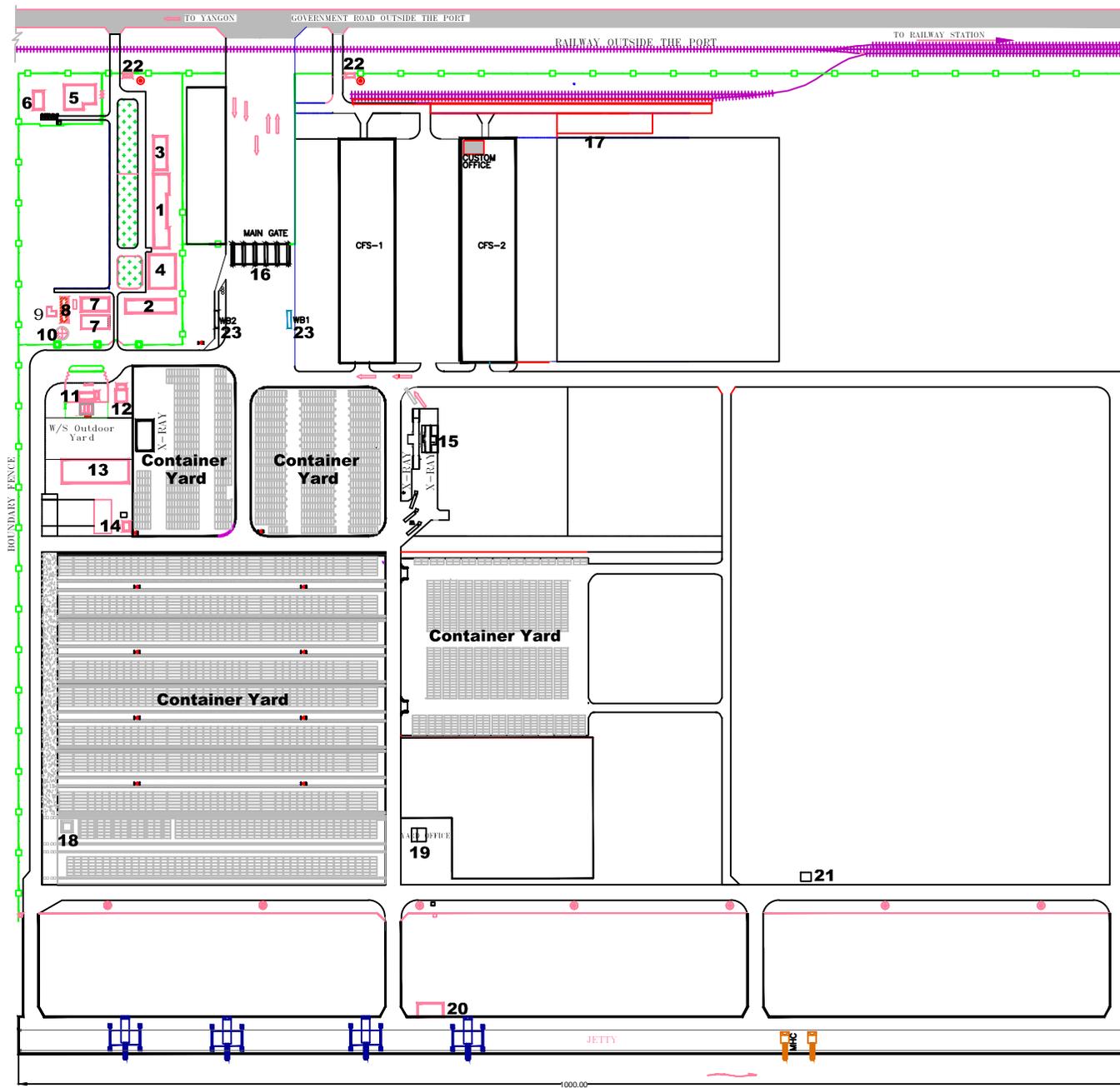


APPENDIX-3

(Layouts, Architectural Drawings, Flowcharts,
Raw Water and Drinking Water Test Sheets,
SOPs for Container Handling)

MYANMAR INTERNATIONAL TERMINALS THILAWA

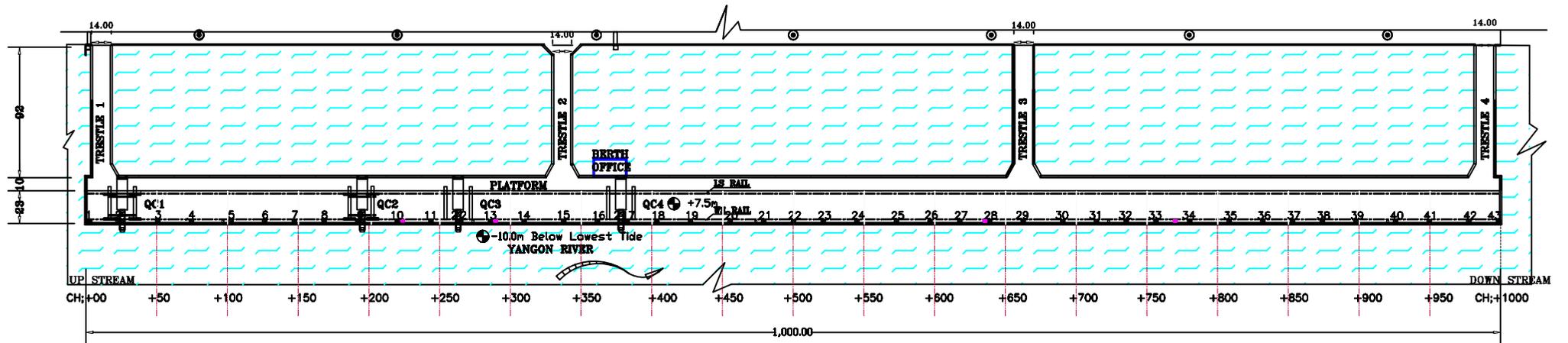
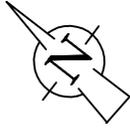


LEGEND / NOTE

1. MAIN OFFICE
2. OPERATIONS
3. TRANSPORT OFFICE
4. CANTEN
5. MAIN SUBSTATION
6. 33/11 KV SUBSTATION
7. WATER RESERVOIR
8. WATER PUMP STATION
9. DRINKING WATER SUPPLY
10. WATER TOWER
11. FUEL FILLING STATION
12. SWEAGE TREATMENT PLANT
13. M & R WORKSHOP
14. WASTE WATER TREATMENT PLANT
15. NO.(10,11) X-RAY SCANNING UNITS
16. MAIN GATE
17. RAIL OPERATION YARD
18. SUBATATION NO.1
19. YARD OFFICE
20. BERTH OFFICE
21. SUBSTATION NO.2
22. SECURITY GATE HOUSE
23. WEIGHT BRIDGE

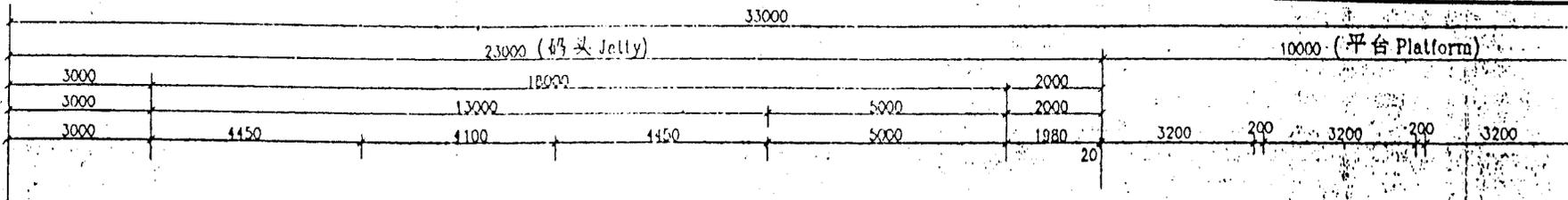


MYANMAR INTERNATIONAL TERMINALS THILAWA



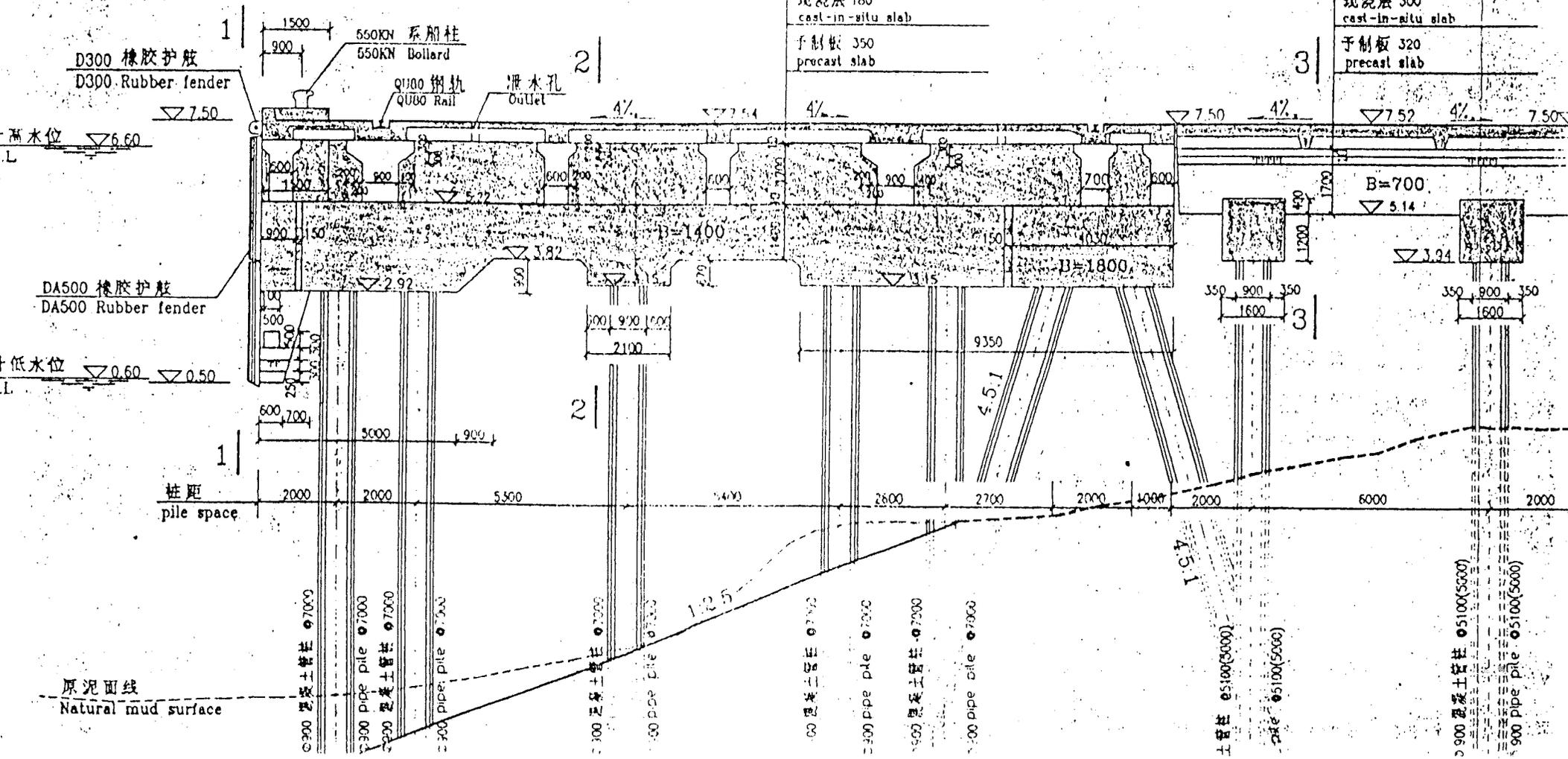
LAYOUT PLAN OF MITT JETTY

TYPICAL SECTION 12&13



磨耗层 30~70
 cast-in-situ wearing course
 现浇层 180
 cast-in-situ slab
 预制板 350
 precast slab

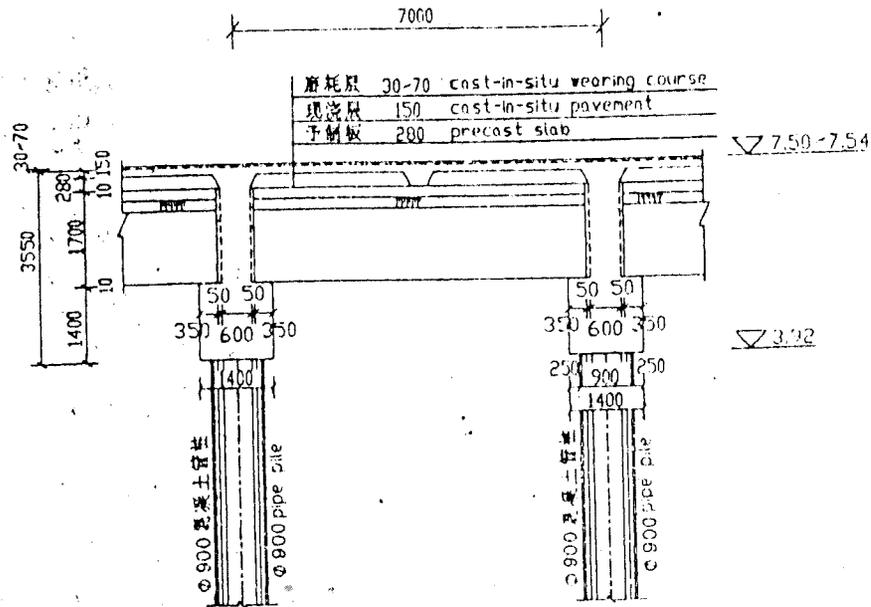
磨耗层 30~50
 cast-in-situ wearing course
 现浇层 300
 cast-in-situ slab
 预制板 320
 precast slab



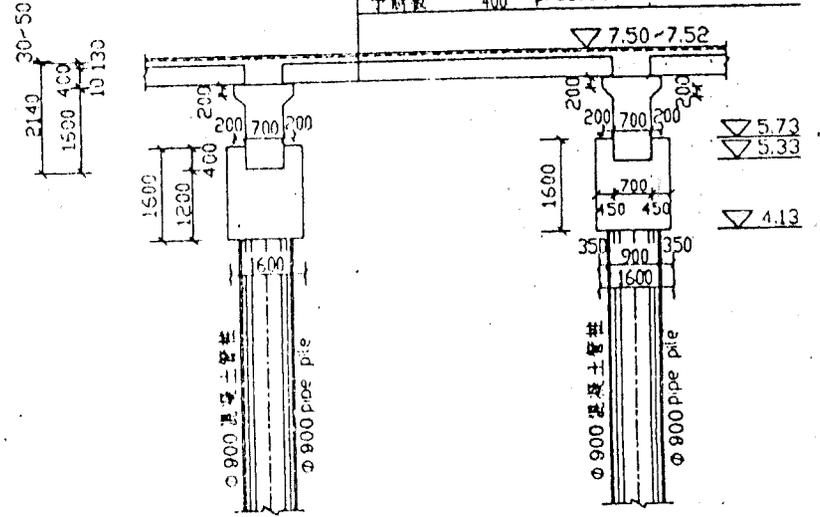
±高水位 $\nabla 6.60$

±低水位 $\nabla 0.60$ $\nabla 0.50$

原泥面线
Natural mud surface

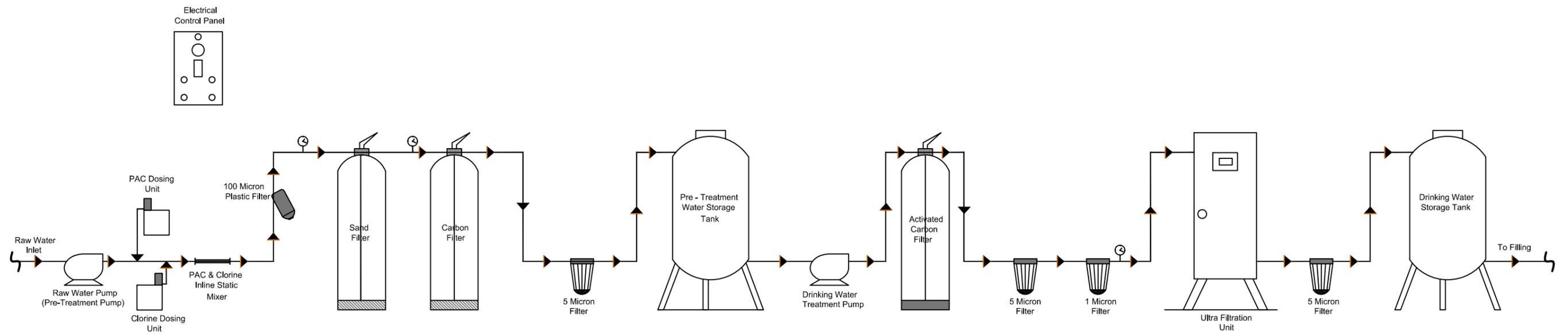


1-1 1:100



2-2 1:100

ULTRA-FILTRATION DRINKING WATER TREATMENT SYSTEM OF M.I.T.T (2000 Liters/hr)



Laboratory Technical Consultant: U Saw Christopher Maung
 B.Sc Engg: (Civil), Dip S.E(Delft) Lecturer of YIT (Retd). Consultant (Y.C.D.C) LWSE 001.
 Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

WTL-RE-001
 Issue Date - 01-12-2012
 Effective Date - 01-12-2012
 Issue No - 1.0/Page 2 of 2

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WATER QUALITY TEST RESULTS FORM

Client	MITT (Thilawa)
Nature of Water	Raw Water
Location	Kyauktan
Date and Time of collection	5.6.2019
Date and Time of arrival at Laboratory	5.6.2019
Date and Time of commencing examination	6.6.2019
Date and Time of completing	8.6.2019

Results of Water Analysis

**WHO Drinking Water Guideline
 (Geneva - 1993)**

Temperature (°C)	°C	
Fluoride (F)	mg/l	1.5 mg/l
Lead (as Pb)	mg/l	0.01 mg/l
Arsenic (As)	mg/l	0.01 mg/l
Nitrate (N.NO ₃)	mg/l	50 mg/l
Chlorine (Residual)	Nil mg/l	
Ammonia (NH ₃)	mg/l	
Ammonium (NH ₄)	mg/l	
Dissolved Oxygen (DO)	mg/l	
Chemical Oxygen Demand (COD)	mg/l	
Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	mg/l	
Cyanide (CN)	mg/l	0.07 mg/l
Zinc (Zn)	mg/l	3 mg/l
Copper (Cu)	mg/l	2 mg/l
Silica (Si)	mg/l	

Remark: This certificate is issued only for the receipt of the test sample.

Tested by

Signature: 
 Name: Zaw Hein Oo
 B.Sc (Chemistry)
 Sr. Chemist
 ISO TECH Laboratory

Approved by

Signature: 
 Name: Soe Thu
 B.E (Civil) 1980.
 Technical Officer
 ISO TECH Laboratory



Laboratory Technical Consultant: U Saw Christopher Maung
 B.Sc Engg. (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (Y.C.D.C), LWSE 001.
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W0619 109

WATER QUALITY TEST RESULTS FORM

Client MITT (Thilawa)
 Nature of Water Raw Water
 Location Kyauktan
 Date and Time of collection 5.6.2019
 Date and Time of arrival at Laboratory 5.6.2019
 Date and Time of commencing examination 6.6.2019
 Date and Time of completing 8.6.2019

Results of Water Analysis

WHO Drinking Water Guideline (Geneva - 1993)

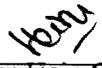
pH	7.4		6.5 - 8.5
Colour (True)	5	TCU	15 TCU
Turbidity	8	NTU	5 NTU
Conductivity	60	micro S/cm	
Total Hardness	18	mg/l as CaCO ₃	500 mg/l as CaCO ₃
Calcium Hardness		mg/l as CaCO ₃	
Magnesium Hardness		mg/l as CaCO ₃	
Total Alkalinity	2	mg/l as CaCO ₃	
Phenolphthalein Alkalinity		mg/l as CaCO ₃	
Carbonate (CaCO ₃)		mg/l as CaCO ₃	
Bicarbonate (HCO ₃)		mg/l as CaCO ₃	
Iron	0.48	mg/l	0.3 mg/l
Chloride (as CL)	4	mg/l	250 mg/l
Sodium chloride (as NaCL)		mg/l	
Sulphate (as SO ₄)		mg/l	500 mg/l
Total Solids		mg/l	1500 mg/l
Total Suspended Solids		mg/l	
Total Dissolved Solids	30	mg/l	1000 mg/l
Manganese		mg/l	0.05 mg/l
Phosphate		mg/l	
Phenolphthalein Acidity		mg/l	
Methyl Orange Acidity		mg/l	
Salinity	0.1	ppt	

Remark: This certificate is issued only for the receipt of the test sample.

Tested by

Signature:

Name:


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 B.Sc (Chemistry)
 Sr. Chemist
 ISO TECH Laboratory

Approved by

Signature:

Name:


Soe Thit
 B.E (Civil) 1980
 Technical Officer
 ISO TECH Laboratory

(a division of WEG Co.,Ltd.)

No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.

Ph: 01-640955, 09-73225175, 09-30339681, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com



THE REPUBLIC OF THE UNION OF MYANMAR
MINISTRY OF HEALTH AND SPORTS
DEPARTMENT OF MEDICAL SERVICES
NATIONAL HEALTH LABORATORY
#35, Hmaw Kun Taik Street, Dagon Township, Yangon
BACTERIOLOGY SECTION



WATER EXAMINATION REPORT

Laboratory No : B- 9458
Sender : MITT သီလဝါဆိပ်ကမ်း၊ ကျောက်တန်း။
Address : MITT သီလဝါဆိပ်ကမ်း၊ ကျောက်တန်း။
Voucher No : 021924
Source (Description) : Drinking Water
Date and Time of collection : 10:00 Am/ 5.6.19
Date and Time of receipt : 11:00 Am/ 5.6.19
Date of Report : 6.6.19

Result of Analysis:

Total coliforms in CFU/ 100ml	<1
<i>Escherichia coli</i> in CFU/ 100ml	<1

(CFU= Colony Forming Unit)

Report: Water sample of B- 9457 is bacteriologically satisfactory for drinking purpose.

Remarks: TECTA results form attached.


Microbiologist


Dr Yin Yin Htwe
Senior Consultant Microbiologist
Bacteriology Section
National Health Laboratory

Laboratory Technical Consultant: U Saw Christopher Maung
 B.Sc Engg: (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (Y.C.D.C), LWSE 001.
 Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)

W0619 110

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WATER QUALITY TEST RESULTS FORM

Client MITT (Thilawa)
 Nature of Water Drinking Water
 Location Kyauktan
 Date and Time of collection 5.6.2019
 Date and Time of arrival at Laboratory 5.6.2019
 Date and Time of commencing examination 6.6.2019
 Date and Time of completing 8.6.2019

Results of Water Analysis

WHO Drinking Water Guideline (Geneva - 1993)

pH	7.2		6.5 - 8.5
Colour (True)	Nil	TCU	15 TCU
Turbidity	Nil	NTU	5 NTU
Conductivity	67	micro S/cm	
Total Hardness	20	mg/l as CaCO ₃	500 mg/l as CaCO ₃
Calcium Hardness		mg/l as CaCO ₃	
Magnesium Hardness		mg/l as CaCO ₃	
Total Alkalinity	28	mg/l as CaCO ₃	
Phenolphthalein Alkalinity		mg/l as CaCO ₃	
Carbonate (CaCO ₃)		mg/l as CaCO ₃	
Bicarbonate (HCO ₃)		mg/l as CaCO ₃	
Iron	0.07	mg/l	0.3 mg/l
Chloride (as CL)	6	mg/l	250 mg/l
Sodium chloride (as NaCL)		mg/l	
Sulphate (as SO ₄)		mg/l	500 mg/l
Total Solids		mg/l	1500 mg/l
Total Suspended Solids		mg/l	
Total Dissolved Solids	33	mg/l	1000 mg/l
Manganese		mg/l	0.05 mg/l
Phosphate		mg/l	
Phenolphthalein Acidity		mg/l	
Methyl Orange Acidity		mg/l	
Salinity	0.1	ppt	

Remark: This certificate is issued only for the receipt of the test sample.

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W0619 110

WATER QUALITY TEST RESULTS FORM

Client	MITT (Thilawa)
Nature of Water	Drinking Water
Location	Kyauktan
Date and Time of collection	5.6.2019
Date and Time of arrival at Laboratory	5.6.2019
Date and Time of commencing examination	6.6.2019
Date and Time of completing	8.6.2019

Results of Water Analysis

WHO Drinking Water Guideline (Geneva - 1993)

Parameter	Unit	Guideline Value
Temperature (°C)	°C	
Fluoride (F)	mg/l	1.5 mg/l
Lead (as Pb)	mg/l	0.01 mg/l
Arsenic (As)	mg/l	0.01 mg/l
Nitrate (N.NO ₃)	mg/l	50 mg/l
Chlorine (Residual)	Nil mg/l	
Ammonia (NH ₃)	mg/l	
Ammonium (NH ₄)	mg/l	
Dissolved Oxygen (DO)	mg/l	
Chemical Oxygen Demand (COD)	mg/l	
Biochemical Oxygen Demand (BOD) (5 days at 20 °C)	mg/l	
Cyanide (CN)	mg/l	0.07 mg/l
Zinc (Zn)	mg/l	3 mg/l
Copper (Cu)	mg/l	2 mg/l
Silica (Si)	mg/l	

Remark: This certificate is issued only for the receipt of the test sample.

Tested by

Signature:

Hein Oo

 Zaw Hein Oo
 B.Sc (Chemistry)
 Sr. Chemist
 ISO TECH Laboratory

Approved by

Signature:

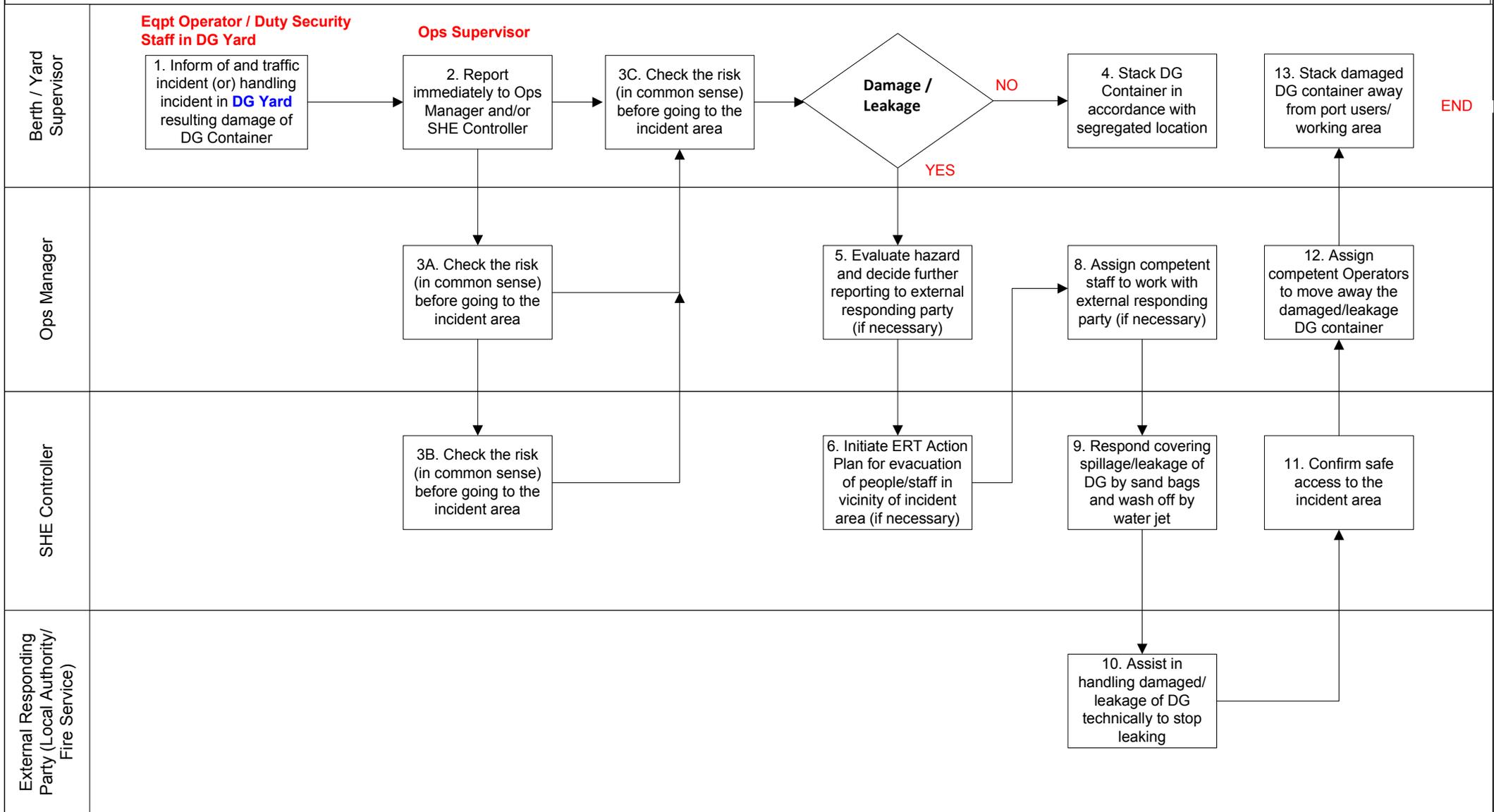
Soe Thit

 Soe Thit
 B.E (Civil) 1980,
 Technical Officer
 ISO TECH Laboratory

(a division of WEG Co.,Ltd.)

Standard Operating Procedure (SOP) for Handling Damaged DG Container in CY

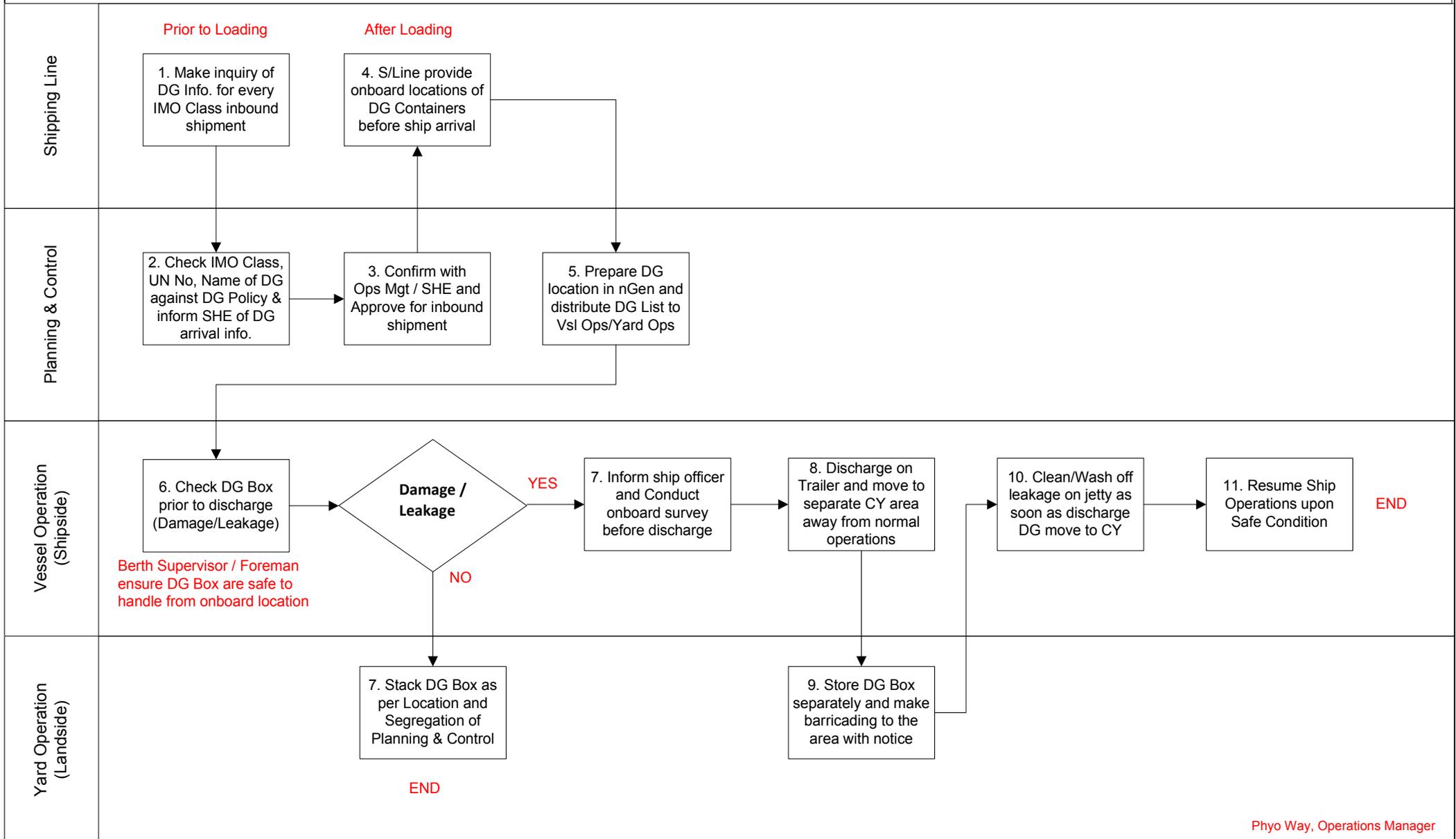
This SOP shall apply for handling damaged DG containers in CY in subsequence of traffic incident (or) handling incident in DG Storage Yard.



Remarks: Depending on the degree of hazard, Ops Manager shall further report the incident to external responding parties such as Local Authority, Fire Services, Port Authority and DMA for further advices.

Standard Operating Procedure (SOP) for Handling Inbound Dangerous Cargoes (DG Containers)

MITT handles inbound dangerous cargoes (DG Containers) as per DG Policy that states IMO Class-1 (Explosive Substance) and IMO Class-7 (Radio Active Substance) are not handled. Any DG Container found damaged/leaked onboard prior to discharge shall be subject to handle upon safe condition to the port workers unless otherwise leave it onboard until authority advise it.



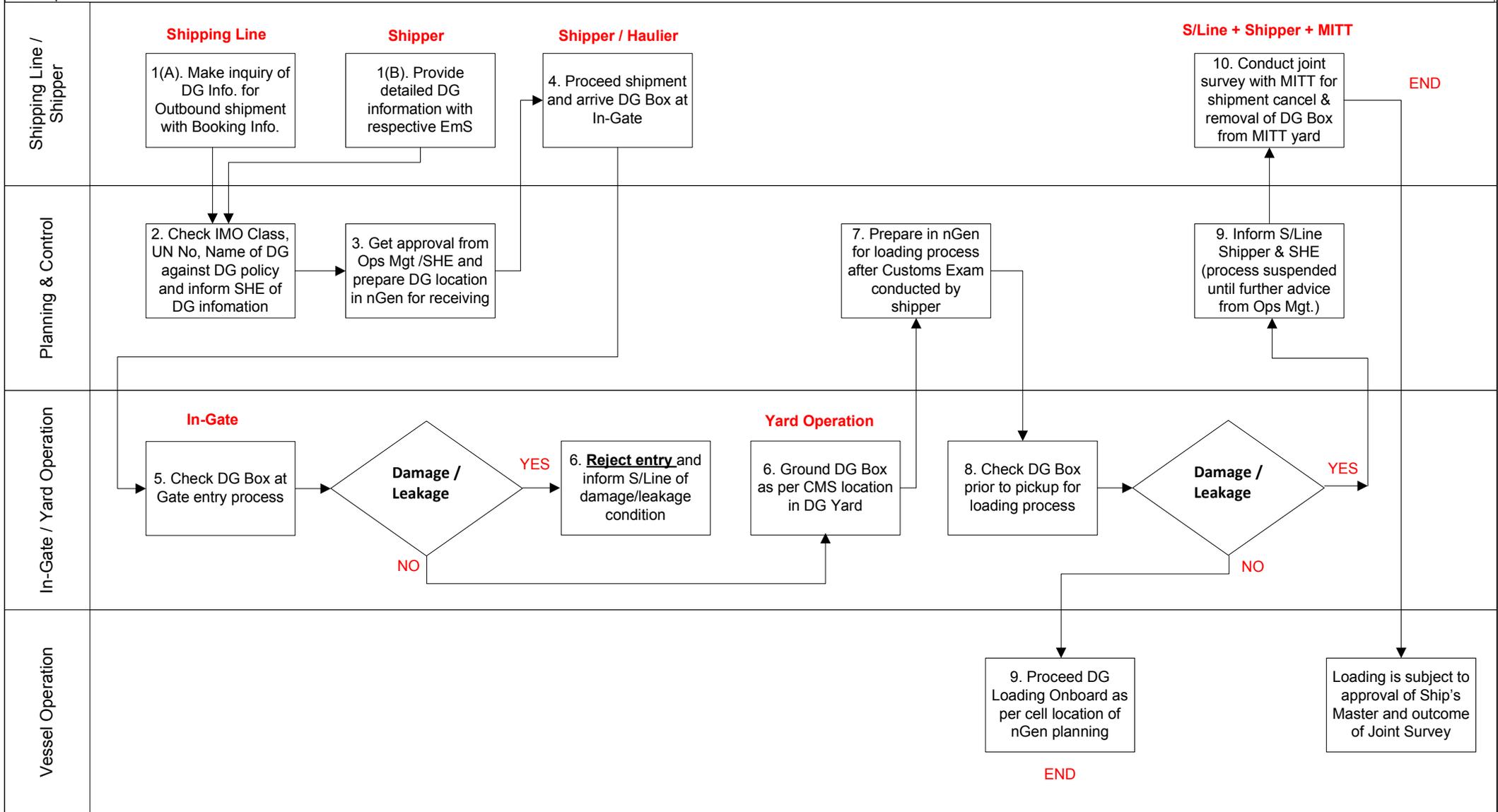
Phyo Way, Operations Manager

Remarks: SHE and Operations Management can access daily on yard DG Container information using desktop icon from individual computer. Duty SHE staff check DG boxes against the list during safety patrol

Standard Operating Procedure (SOP) for Handling Outbound Dangerous Cargoes (DG Containers)



MITT handles inbound dangerous cargoes (DG Containers) as per DG Policy that states IMO Class-1 (Explosive Substance) and IMO Class-7 (Radio Active Substance) are not handled. Any outbound DG container found damaged/leaked at gate arrival shall be rejected for entry (and/or) found damaged/leak in CY is subject to conduct joint survey with S/Line & Shipper and loading is subject to approval of Ship Master.



Remarks: SHE and Operations Management can access daily on yard DG Container information using desktop icon from individual computer. Duty SHE staff check DG boxes against the list during safety patrol.