

Ministry of Transport
Myanma Port Authority
Inland Water Transport
The Republic of The Union of Myanmar

**The Urgent Project
for
Rehabilitation of Yangon Port
and
Main Inland Water Transport
in
The Republic of The Union of Myanmar**

FINAL REPORT

APPENDICES

January 2015

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Nippon Koei Co., Ltd. (NK)

Overseas Coastal Area Development Institute of Japan (OCDI)

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APPENDICES

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YANGON PORT FACILITY

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APPENDIX A YANGON PORT FACILITY

A.1 STANDARD DESIGN OF MPA JETTY

A typical MPA jetty is composed of a landside concrete pier, a metal truss bridge, a steel sponson, a steel pontoon and a tank pontoon as illustrated in Figures A.1.1, A.1.2, A.1.3 and A.1.4 respectively.

The sponson is anchored by two anchor chains of 180ft in length with a diameter of one and a half inches, and one and a quarter inches with a one ton anchor extended from both sides. The anchoring system is illustrated in Figure A.1.5.

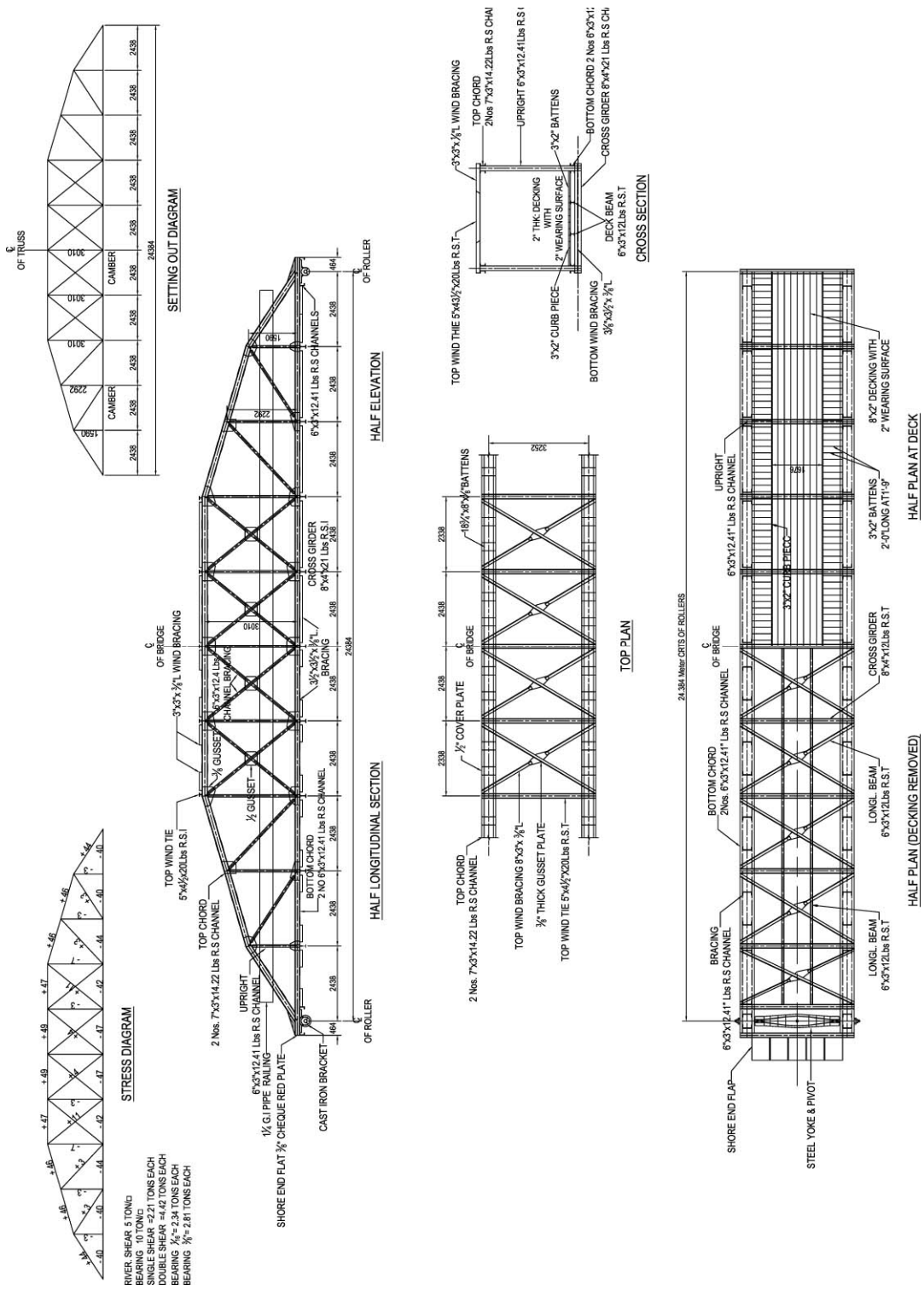


Figure A.1.1 Standard Structure of Jetty Bridge

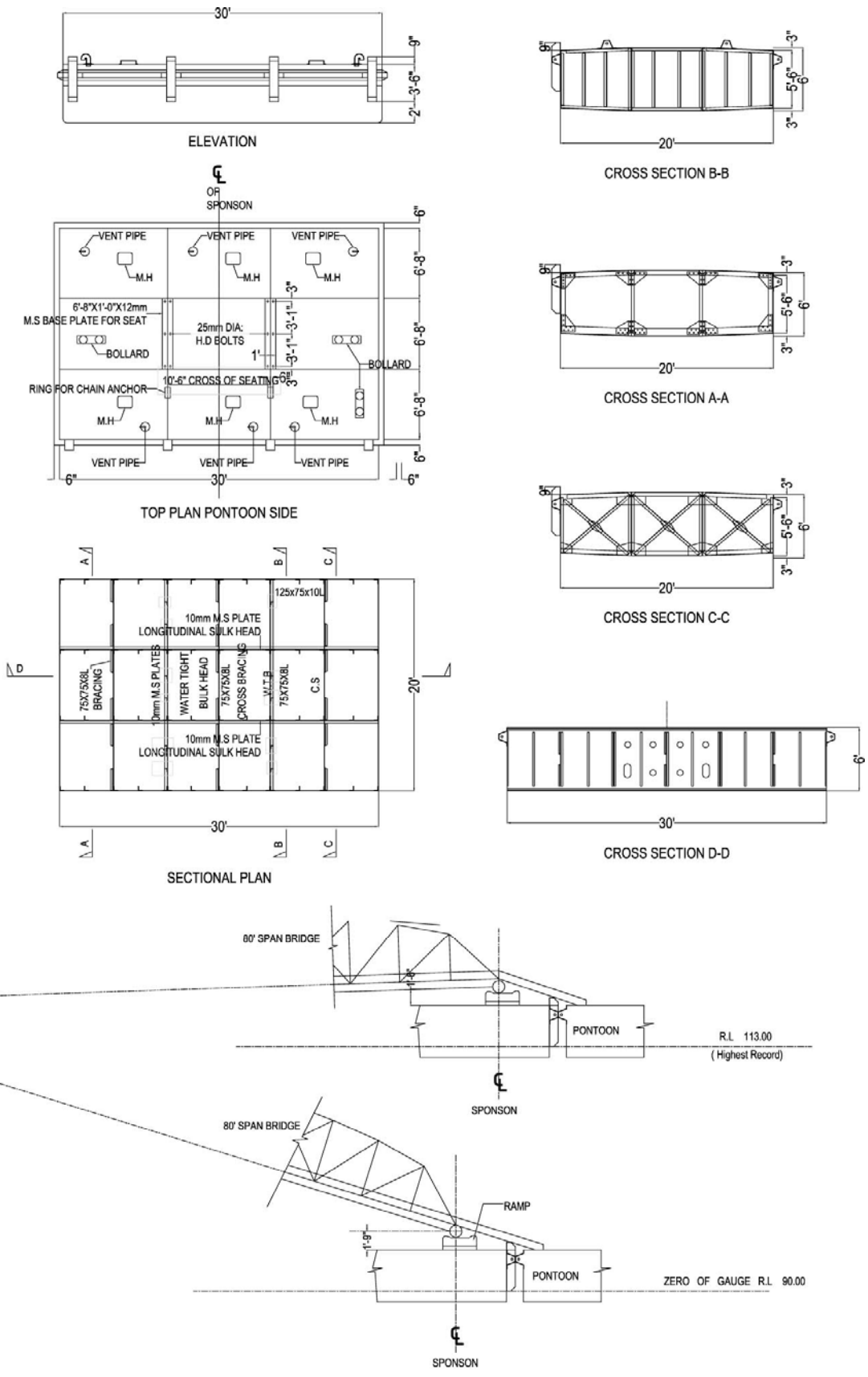
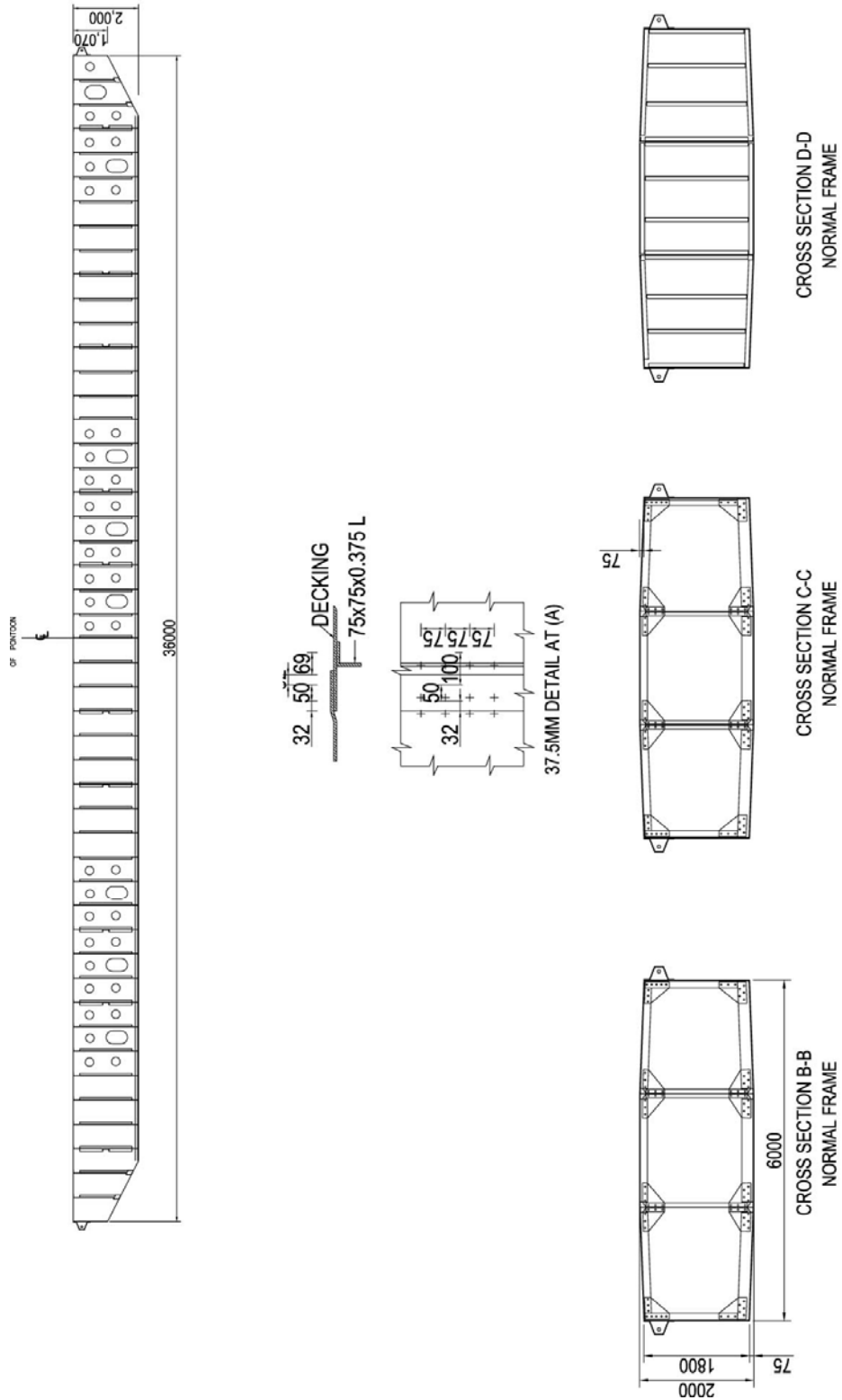


Figure A.1.2 Standard Structure of Sponson



NOTE:
 ALL BOLTS & RIVETS TO BE 15MM DIA
 ALL PITCHES OF BOLTS & RIVETS TO
 BE 75MM UNLESS OTHERWISE STATED
 ALL GUSSET PLATES TO BE 3/8" THICK

Figure A.1.3 Standard Structure of Pontoon

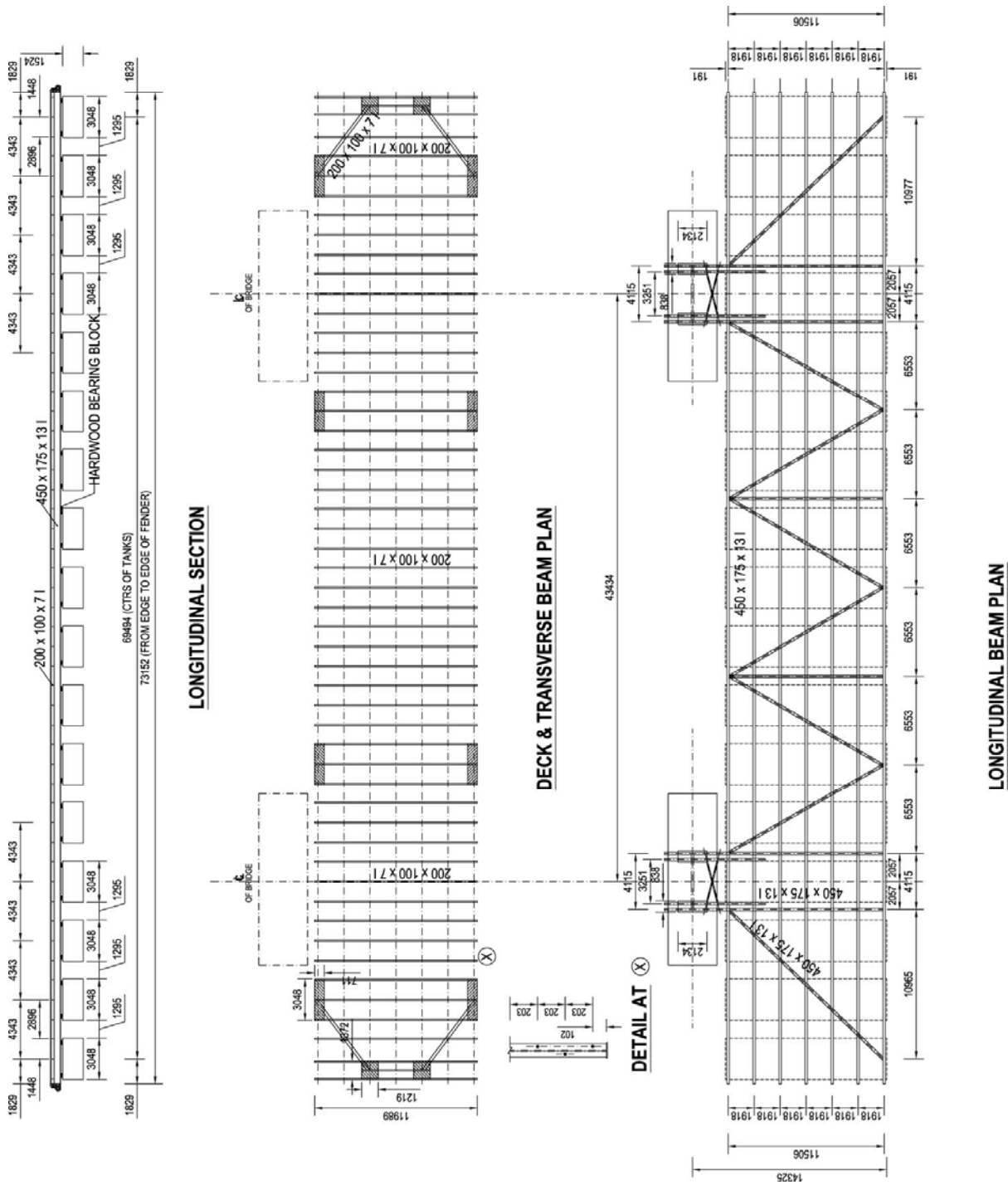


Figure A.1.4 Standard Structure of Tank Pontoon

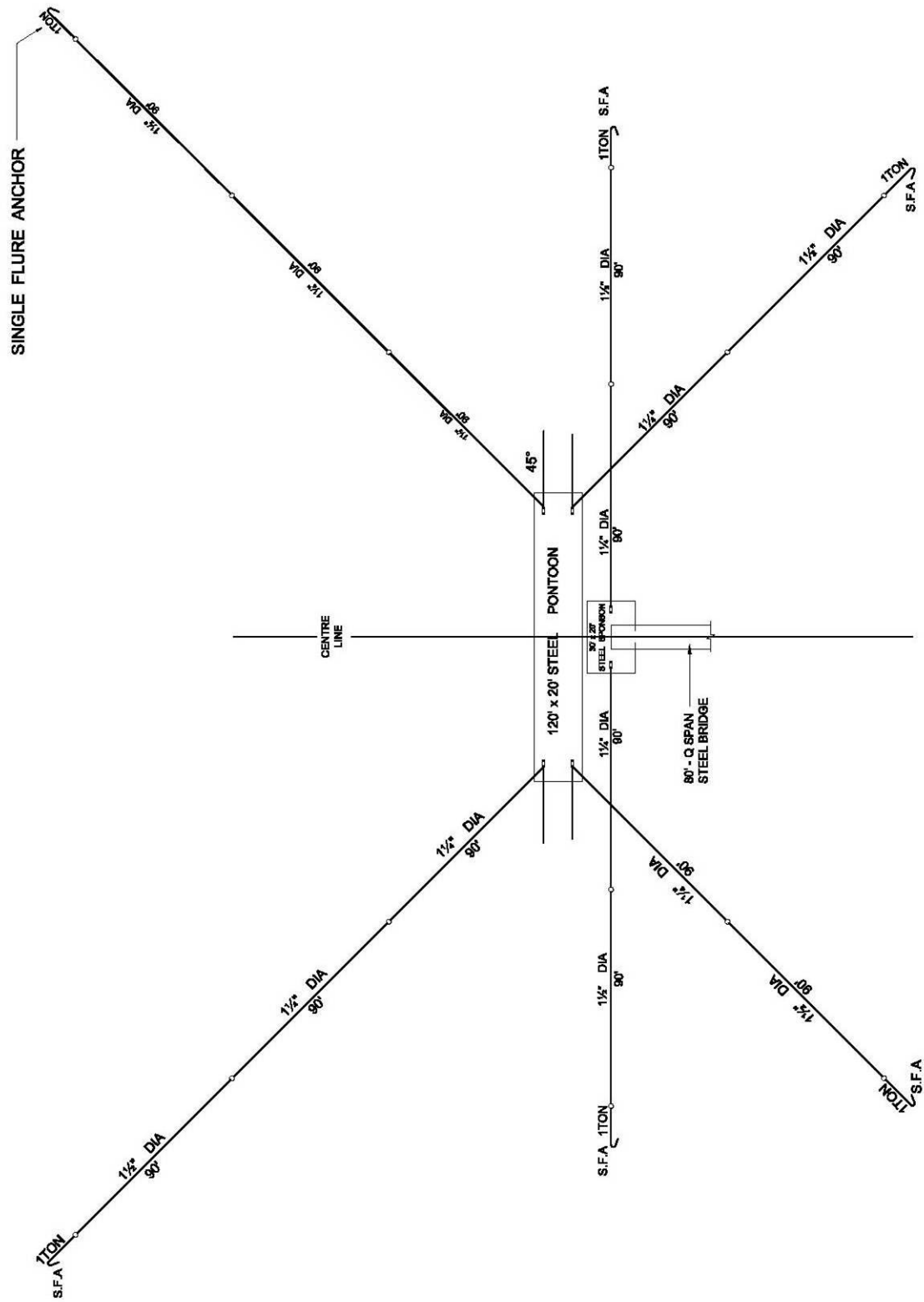


Figure A.1.5 Anchoring Layout

A.2 PORT FACILITY INSPECTION AND EVALUATION

Details of port facility inspection were elaborated in the following sheets and summarized for each mooring jetty.

Evaluation of each facility (pontoon, bridge, pier and sponson) composing mooring jetty was performed and rated as below:

<u>Rate</u>	<u>Description</u>
1) Good	Condition of facility is good and operational, but some repair work might be necessary in the future (within one year) if there is note in the column of “condition of damage and/or deterioration”.
2) Fair	Condition of facility is fair and operational, but some repair work might be necessary in the future (within half year) if there is note in the column of “condition of damage and /or deterioration”.
3) Bad	It is necessary to perform immediate restoration of repair work.

List of Jetties (2009)

No.	Name of Jetty	Date of Inspection	Pontoon (feet)		Evaluation			
			length	width	Pontoon	Bridge	Pier	Sponson
1	Chaung Wa Jetty	12-Jun-09	200	40	Bad	Good	Fair	Good
2	Kyeemyindine No.3 Jetty	12-Jun-09	120	20	Good	Good	Good	Fair
3	Kyeemyindine No.5 Jetty	12-Jun-09	80	20	Good	Good	Good	Good
4	Kyeemyindine Bazar Road Jetty	12-Jun-09	120	20	Bad	Good	Good	Good
5	Bagaya No.1 Jetty	12-Jun-09	120	20	Good	Good	Fair	Good
6	Bagaya No.2 Jetty	12-Jun-09	120	20	Good	Good	Good	Good
7	Bagaya No.3 Jetty	12-Jun-09	120	20	Good	Good	Good	Good
8	Bagaya Concrete Short Jetty	12-Jun-09	120	20	Good	-	Bad	-
9-1	Wardan No.1 Jetty	12-Jun-09	120	20	Good	Good	Good	Good
9-2	Wardan No.2 Jetty (Marine Police Station)	12-Jun-09	120	20	Good	Good	Good	Good
10-1	Wardan No.3 Jetty	12-Jun-09	240	20	Good	Good	Bad	Good
10-2	Bagaya No.4 Jetty	12-Jun-09	240	20	Fair	Good	Bad	Good
11	Wardan RO/RO Jetty	12-Jun-09	-	-	-	-	-	Good
12	Wardan No.5 Jetty	12-Jun-09	-	-	-	-	Good	-
13	Wardan No.6 Jetty	12-Jun-09	120	20	Good	Good	Fair	Good
14	Concrete Jetty (No.1)	12-Jun-09	-	-	-	-	Bad	-
15	Kaingdan No.1	12-Jun-09	120	20	Good	Good	Fair	Good
16	Concrete Jetty (No.2)	12-Jun-09	-	-	-	-	Fair	-
17	Kaingdan No.2	12-Jun-09	120	20	Fair	Good	Fair	Good
18	Concrete Jetty (Bagaya No.4)	10-Jul-09	Bridge=100'	Pier=72ft	-	Good	Good	Fair
19	Lan Thit Street Jetty	12-Jun-09	120	20	Good	Good	Fair	Good
20	Hledan No.1 Jetty	12-Jun-09	120	20	Good	Good	Fair	Good
21	Hledan No.2 Jetty	12-Jun-09	120	20	Good	Fair	Fair	Good
22	Concrete Jetty (No.4)	12-Jun-09	-	-	Non	Non	Non	Non
23	Phoegyilan (1) Jetty	12-Jun-09	120	20	Good	Good	Fair	Good
24	Concrete Jetty (No.5)	12-Jun-09	-	-	-	-	Bad	-
25	Phoegyilan (2) Jetty	12-Jun-09	120	20	-	Fair	Bad	Good
31	Shi Oh Dan No.2 Jetty	10-Jul-09	120	20	Fair	Good	Fair	Good
32	Port Health Jetty 2	12-Jun-09	-	-	-	Bad	Fair	Good
33	Port Health Jetty 3	12-Jun-09	-	-	-	-	Good	-
34	Pansodan Jetty	12-Jun-09	120	20	Good	Good	Fair	Good

No.	Name of Jetty	Date of Inspection	Pontoon (feet)		Evaluation			
			length	width	Pontoon	Bridge	Pier	Sponson
35-1	Nan Thi Da Jetty (1) Upper	12-Jun-09	240	40	-	-	Good	-
35-2	Nan Thi Da Jetty (1) Lower	12-Jun-09	Share the No.35-1 Jetty		-	-	Fair	-
36-1	Nan Thi Da 2 No.3 (Upper)	12-Jun-09	240	20	Bad	Good	Good	Good
36-2	Nan Thi Da 2 No.4 (Lower)	12-Jun-09	Share the No.36-1 Jetty		Good	Good	Fair	Good
37	Thein Byu Jetty	12-Jun-09	100	20	Good	Good	Fair	Good
38	Workshop Pontoon Jetty	12-Jun-09	100	20	-	-	Bad	-
39	Botahtaung 2	12-Jun-09	-	-	-	Fair	-	-
40-1	Botahtaung 3 (Upper)	12-Jun-09	120	20	Good	Good	Fair	Good
40-2	Botahtaung 3 (Lower)	12-Jun-09	120	20	Good	Good	Fair	Good
41-1	Botahtaung 4 (Upper)	12-Jun-09	100	20	Good	Good	Fair	Good
41-2	Botahtaung 4 (Lower)	12-Jun-09	-	-	-	-	Good	-
42-1	Botahtaung 5 (Upper)	12-Jun-09	-	-	-	-	Fair	-
42-2	Botahtaung 5 (Lower)	12-Jun-09	100	20	Good	Good	Fair	Good
43-1	Botahtaung 6 (Upper)	10-Jul-09	200	20	-	-	Bad	-
43-2	Botahtaung 6 (Lower)	12-Jun-09	200	20	-	-	Bad	-
44	Min Ye Kyaw Thu Jetty	30-May-09	120	20	Fair	Good	Fair	Good
45	Dala Port Jetty	30-May-09	120	20	Good	Good	Fair	Good
46	Ant Gyi Jetty	10-Jul-09	100	20	Good	Good	Fair	-
47	Crane Jetty in King's Bank	30-May-09	-	-	-	-	Bad	-
48	King's Bank Jetty	10-Jul-09	30	20	Good	Good	Fair	-

List of Jetties (2014)

No.	Name of Jetty	Date of Inspection	Pontoon (feet)		Evaluation			
			length	width	Pontoon	Bridge	Pier	Sponson
1	Chaung Wa Jetty (1 & 2)	9-Dec-14	200	40	Bad	Good	No.1=Good No.2=Fair	Fair
2	Kyeemyindine No.3 Jetty	9-Dec-14	80	20	-	-	Fair	Fair
3	Kyeemyindine No.5 Jetty	9-Dec-14	80	20	Fair	Bad	Bad	Good
4	Kyeemyindine Bazar Road Jetty	9-Dec-14	120	20	Good	Fair	Bad	Good
5	Bagaya No.1 Jetty (Coastal ship Association) Private	9-Dec-14	120	20	Fair	Fair	Fair	Good
6	Bagaya No.2 Jetty	9-Dec-14	120	20	Good	Fair	Fair	Good
7	Bagaya No.3 Jetty (Coastal ship Association)	9-Dec-14	120	20	Fair	Fair	Fair	Good
8	Bagaya Concrete Jetty	9-Dec-14	-	-	-	-	Very Bad	-
9	Wardan No.1 Jetty (Marine Police Station)	5-Dec-14	120	20	Good	Fair	Good	Good
10	Wardan No.2 Jetty (Marine Police Station)	5-Dec-14	120	20	-	Good	Good	Good
11	Wardan No.3 Jetty	9-Dec-14	120	20	Fair	Fair	Fair	Good
12	Wardan No.4 Jetty	5-Dec-14	120	20	Fair	Fair	Fair	Good
13	Wardan No.5 Jetty	5-Dec-14	120	20	-	-	Fair	-
14	Wardan RO/RO Jetty	5-Dec-14	-	-	-	-	-	-
15	Wardan No.6 Jetty	3-Mar-11	120	20	Good	Fair	Fair	Good
16	Concrete Jetty (Bagaya No.4)	9-Dec-14	120	20	-	Fair	Bad	N
17	Kaingdan No.1	9-Dec-14	120	20	Good	Fair	Fair	Good
18	Kaingdan No.2	9-Dec-14	120	20	Good	Fair	Good	Good
19	Lan Thit Street Jetty	9-Dec-14	120	20	Fair	Fair	Fair	Good
20	Hledan No.1 Jetty	9-Dec-14	120	20	Fair	Fair	Fair	Good
21	Concrete Jetty No.4	8-Mar-11	120	20	-	-	Fair	N
22	Hledan No.2 Jetty	9-Dec-14	120	20	Good	Good	Bad	Good
23	Concrete Jetty 5 (Private) (Shwe Pyi Tan)	9-Dec-14	120	20	Good	Fair	Bad	Good
24	Phoegyilan (1) Jetty	9-Dec-14	120	20	Good	Fair	Fair	Good
25	Phoegyilan (2) Jetty	8-Mar-11	120	20	Good	Fair	Fair	Good
26	Shwe Taung Dan (1) Jetty	5-Dec-14	120	20	Good	Fair	Fair	Good
27	Shwe Taung Dan (2) Jetty	5-Dec-14	120	20	Good	Fair	Fair	Good
28	Lanmadaw (1) Jetty	5-Dec-14	120	20	Good	Fair	Fair	Good
29	Lanmadaw (2) Jetty	5-Dec-14	120	20	Bad	Fair	Fair	Fair

No.	Name of Jetty	Date of Inspection	Pontoon (feet)		Evaluation			
			length	width	Pontoon	Bridge	Pier	Sponson
30	Shi Oh Dan No.1 Jetty	5-Dec-14	120	20	Good	Fair	Fair	Fair
31	Shi Oh Dan No.2 Jetty	5-Dec-14	120	20	Good	Fair	Bad	Good
32	Port Health Jetty 2	4-Dec-14	240	40	Fair	Fair	Fair	Fair
33	Port Health Jetty 3	4-Dec-14	-	-	-	-	Fair	-
34	Pansodan Jetty	4-Dec-14	120	20	Good	Good	Fair	Fair
35	Nan Thi Da Jetty (3) Upper	4-Dec-14	120	20	-	-	-	-
36	Nan Thi Da Jetty (3) Lower	4-Dec-14	157	40	Fair	Fair	Fair	Fair
37	Nan Thi Da Jetty (4) Upper	4-Dec-14	240	20	Fair	Good	Bad	Fair
38	Nan Thi Da Jetty (4) Lower	4-Dec-14	Share the No.36-1 Jetty		Good	Fair	Fair	Fair
39	Workshop Pontoon Jetty	4-Dec-14	-	-	-	-	Bad	-
40	Thein Byu Jetty	4-Dec-14	100	20	Fair	Fair	Good	Fair
41	Botahtaung 2	4-Dec-14	-	-	-	Bad	-	-
42	Botahtaung 3 (Upper)	28-Feb-11	Share the No.36-1 Jetty		Good	Good	Bad	Fair
43	Botahtaung 3 (Lower)	4-Dec-14	Share the No.36-1 Jetty		Fair	Fair	Fair	Fair
44	Botahtaung 4 (Upper)	4-Dec-14	Share the No.36-1 Jetty		Fair	Fair	Fair	Fair
45	Botahtaung 4 (Lower)	4-Dec-14	Share the No.36-1 Jetty		-	-	Fair	-
46	Botahtaung 5 (Upper)	4-Dec-14	Share the No.36-1 Jetty		-	-	Fair	-
47	Botahtaung 5 (Lower)	4-Dec-14	Share the No.36-1 Jetty		-	-	Fair	-
48	Botahtaung 6 (Upper)	4-Dec-14	Share the No.36-1 Jetty		Good	Good	Good	Good
49	Botahtaung 6 (Lower)	4-Dec-14	Share the No.36-1 Jetty		Good	Good	Good	Good
50	King's Bank Jetty	14-Mar-11	80	20	Bad	Fair	Fair	Fair
51	Crane Jetty in King's Bank	14-Mar-11	-	-	-	-	Bad	-
52	Ant Gyi Jetty (MPA Mechanical Engineering Department)	12-Dec-14	40	20	Fair	Bad	Bad	-
53	Dala Port Jetty	10-Dec-14	120	20	Good	Good	Good	Good
54	Dala Yo Yo Jetty	10-Dec-14	-	-	-	-	-	-
55	Min Ye Kyaw Thu Jetty	10-Dec-14	120	20	Fair	Fair	Fair	Fair

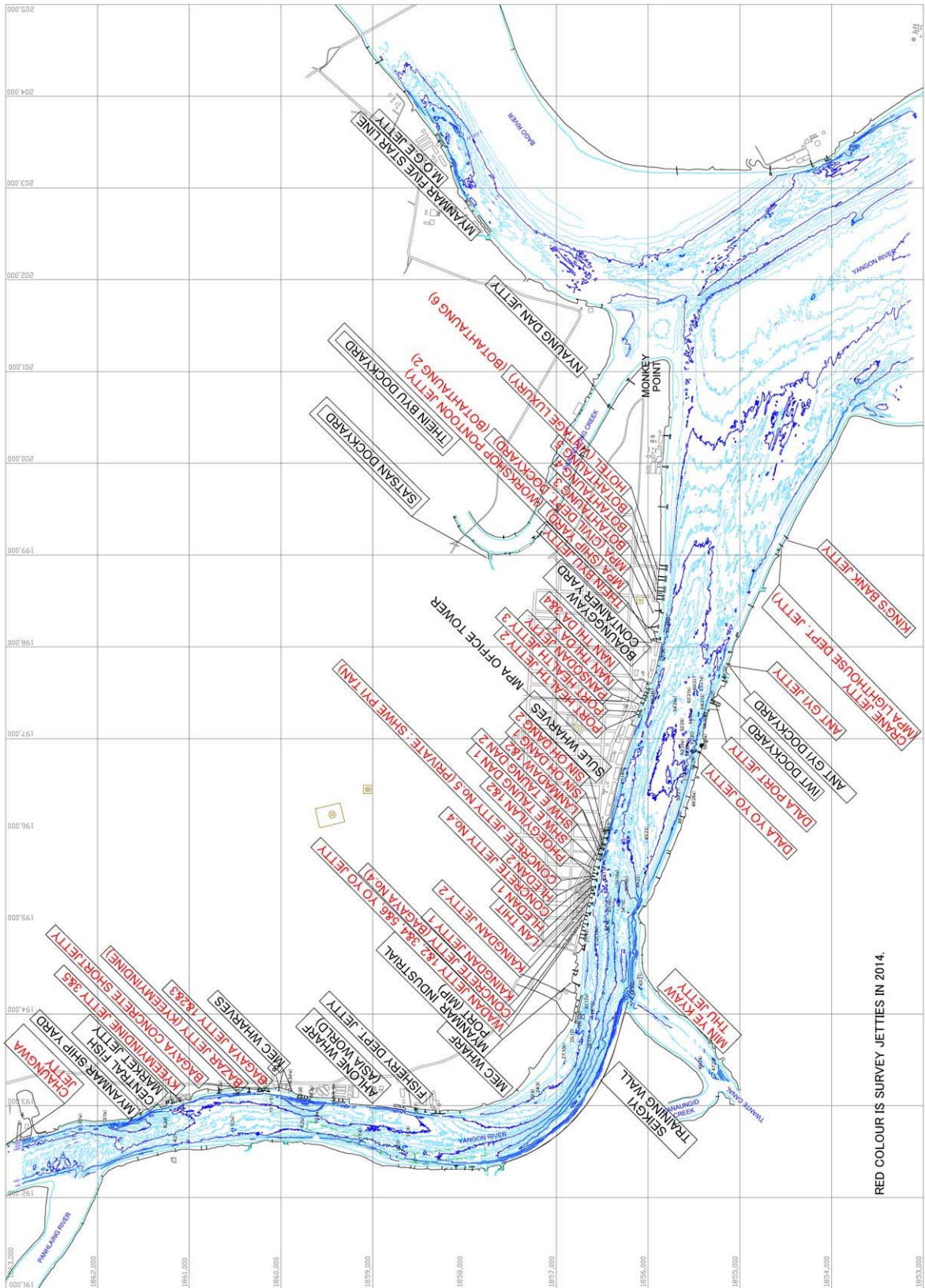


Figure A.1.6 Location Map of Jetties in Yangon Main Port

Inspection and Evaluation of Port Facilities

<i>No.1</i>	<i>Name of Jetty</i>	Chungwa Jetty		
<i>Dimension</i>	Pontoon: Length 200' × Width 40' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Bad	Beam is partly rusted	It is needed to be replaced the heavy rusted member immediately	Photo 3, 4
Bridge	Good	Roller, support of Bridge, is shifted		Photo 1, 2
Pier	Fair	The roller is shifted to unnormal position	Reset the Roller to normal position	Photo-2
Sponson	Good	Have repaired last year		Photo 5

<Photograph>



Photo 1 - General



Photo 2 - Pier side



Photo 4



Photo 3



Photo 5

Inspection and Evaluation of Port Facilities

<i>No.2</i>	<i>Name of Jetty</i>	Kyeemyindine No. 3 Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	Rust, deficit		Photo 1
Bridge	Good	It has getting deteriorated	It is required to change the roller	Photo 1, 2, 4
Pier	Good	It has no remarkable deterioration		Photo 4
Sponson	Fair	Partially, holes are corroded	Set the plate and welding	Photo 3

<Photograph>



Photo 1 - General



Photo 4

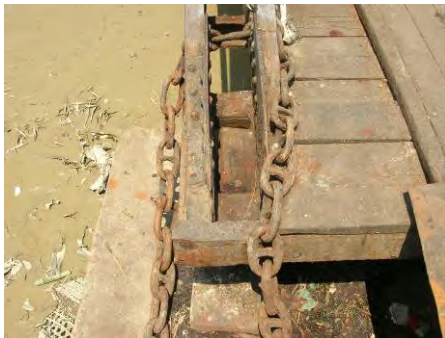


Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.3	<i>Name of Jetty</i>	Kyeemyindine No. 5 Jetty		
<i>Dimension</i>	Pontoon: Length 80' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 1
Bridge	Good	Member is bent at Support position	It should be repaired	Photo 1, 2, 3, 4
Pier	Good	No special deterioration		Photo 5
Sponson	Good	Have repaired last year		Photo 1

<Photograph>



Photo 1



Photo 2



Photo 4



Photo 3



Photo 5

Inspection and Evaluation of Port Facilities

No.4	<i>Name of Jetty</i>	Kyeemyindine Bazar Road Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Bad	Rust, hole	Repair the hole immediately	Photo 3
Bridge	Good	No damage		Photo 1, 2
Pier	Good	No damage		Photo 4
Sponson	Good	No damage		Photo 5

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

<i>No.5</i>	<i>Name of Jetty</i>	Bagaya No. 1 Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 3
Bridge	Good	No damage		Photo 1, 2
Pier	Fair	Delamination of concrete	Set the flame and pour the concrete	Photo 4
Sponson	Good	No damage		Photo 5

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.6	<i>Name of Jetty</i>	Bagaya No. 2 Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		
Bridge	Good	No damage		Photo 1
Pier	Good	No damage		Photo 1, 2
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

<i>No.7</i>	<i>Name of Jetty</i>	Bagaya No. 3 Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 2
Bridge	Good	No damage		Photo 1, 2, 3
Pier	Good	Roller is deteriorated	Repair the roller	Photo 2
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 3



Photo 2

Inspection and Evaluation of Port Facilities

No.8	<i>Name of Jetty</i>	Bagaya Concrete short Jetty		
<i>Dimension</i>	Pontoon: Length 120' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	Rust, deficit		Photo 1
Bridge	-			
Pier	Bad	Reinforcing bar is exposed and trace of crack by delaminated Concrete	Pour the Concrete into the flaking parts	Photo 4
Sponson	-			

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.9-1	<i>Name of Jetty</i>	Wardan No. 1 Jetty		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage	Repair the hole immediately	Photo 1
Bridge	Good	No Deterioration		Photo 2, 3
Pier	Good	No damage		Photo 1
Sponson	Good	No damage		Photo 4

<Photograph>



Photo 1



Photo 3



Photo 2



Photo 4

Inspection and Evaluation of Port Facilities

No.9-2	<i>Name of Jetty</i>	Wardan No. 2 Jetty		
<i>Dimension</i>	<i>Pontoon: Length 120' × Width 20' (before Nargis)</i>	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage		Photo 1, 6
Bridge	Good	No damage		Photo 1, 2, 3
Pier	Good	No damage		Photo 4
Sponson	Good	No damage		Photo 5

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.10-1	<i>Name of Jetty</i>	Wardan No. 3 Jetty		
<i>Dimension</i>	Pontoon: Length 240' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	Rust, deficit		Photo-7,8
Bridge	Good	Concrete crack		Photo 1
Pier	Bad	Shoe is placed tentatively	Reset shoe	Photo 2, 3, 4, 5
Sponson	Good			Photo-1

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

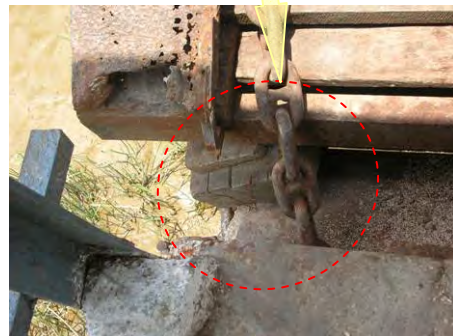


Photo 6



Photo 7



Photo 8

Inspection and Evaluation of Port Facilities

No.10-2	<i>Name of Jetty</i>	Bagaya No. 4 Jetty		
<i>Dimension</i>	Pontoon: Length 240' × Width 20' (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Fair	Degradation of upper side timber	Replace timber	Photo 1,5
Bridge	Good	No damage	n.a.	Photo 1,4
Pier	Bad	Delamination of Concrete	Pour the concrete in the delaminated parts	Photo 2,3
Sponson	Good	No damage	n.a.	Photo-6

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.11	<i>Name of Jetty</i>	Wardan Ro/Ro Jetty		
<i>Dimension</i>		<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	-			
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

No.12	<i>Name of Jetty</i>	Wardan No. 5 Jetty		
<i>Dimension</i>		<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	Good	No damage		Photo 1, 2
Sponson	-	-	-	

<Photograph>



Photo 1



Photo 2

This Jetty has not used since last 20 years ,

Inspection and Evaluation of Port Facilities

No.13	<i>Name of Jetty</i>	Wardan No. 6 Jetty		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good			Photo 4
Bridge	Good			Photo 2
Pier	Fair	Delamination of Concrete	Pour the concrete in faked parts	Photo 3, 6
Sponson	Good	No damage		Photo 5

<Photograph>



Photo 1 - General



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.14	<i>Name of Jetty</i>	Concrete Jetty No.1		
<i>Dimension</i>	—	<i>Date of Inspection</i>		12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	Bad	Hole, Delamination	Reset the reinforcing bar and pour the concrete	Photo 1, 2, 3, 4, 5
Sponson	-			

<Photograph>



Photo 1 - General



Photo



Photo 2 - Slab



Photo 5 - Slab



Photo 3 - Edge of beam

Inspection and Evaluation of Port Facilities

No.15	<i>Name of Jetty</i>	Kaingdan No. 1		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 1, 4
Bridge	Good	No damage		Photo 3, 5
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 2
Sponson	Good	No damage		Photo 6

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.16	<i>Name of Jetty</i>	Concrete Jetty No. 2	
<i>Dimension</i>		<i>Date of Inspection</i>	12 June, 2009
Result of Inspection and Evaluation of Port Facilities			
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>
Pontoon	-		
Bridge	-		
Pier	Fair	Delaminated concrete, hole	Pour the concrete in flaked parts
Sponson	-		
			Photo 1, 2, 3, 4, 5, 6, 7

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6



Photo 7

Inspection and Evaluation of Port Facilities

No.17	<i>Name of Jetty</i>	Kaingdan No. 2		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Fair	Break of side steel	Reset the steel plate	Photo 3
Bridge	Good	No damage		Photo 1
Pier	Fair	Delaminated concrete	Pour the concrete in flaked parts	Photo 4, 5
Sponson	Good	No damage		Photo 2

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

Inspection and Evaluation of Port Facilities

No.18	<i>Name of Jetty</i>	Concrete Jetty (Bagaya No. 4)		
<i>Dimension</i>	Bridge 100feet , Pier 72 feet	<i>Date of Inspection</i>	10 July, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-	Rust, deficit		
Bridge	Good	No damage		Photo 2
Pier	Good	No damage		Photo 4
Sponson	Fair	Delaminated concrete	Pour the concrete in the flaked parts	Photo 3, 4, 6

<Photograph>



Photo 1 - Panoramic View



Photo 4



Photo 2 - Bridge



Photo 5 - Flaking of concrete



Photo 3



Photo 6 - Reference: New Concrete

Inspection and Evaluation of Port Facilities

No.19	<i>Name of Jetty</i>	Lan Thit Street Jetty		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 1
Bridge	Good	No damage		Photo 2
Pier	Fair	Lack of Concrete	Pour the Concrete in delaminated parts	Photo 3
Sponson	Fair	No Roller	Set the Roller	Photo 1,4,5

<Photograph>



Photo 1 - Panoramic View



Photo 4



Photo 2



Photo 5



Photo 3

Roller is ordered, it is prepare to set the that one.

Inspection and Evaluation of Port Facilities

<i>No.20</i>	<i>Name of Jetty</i>	Hledan No. 1 Jetty		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		
Bridge	Good	No damage		Photo 2
Pier	Fair	Lack of Edge concrete	Pour the concrete	Photo 3, 4
Sponson	Good	No damage		Photo 2,5

<Photograph>



Photo 1 - Panoramic View



Photo 4 - Frint of Pier



Photo 2 - Bridge & Sponson



Photo 5

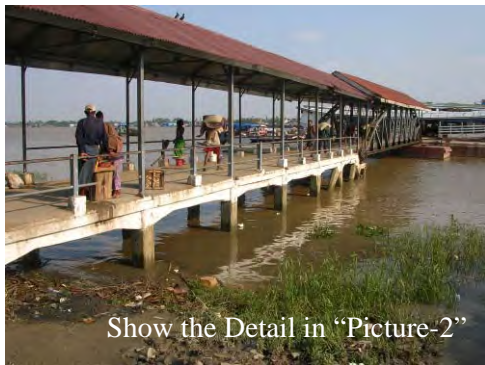


Photo 3 - Upper of Pier

Inspection and Evaluation of Port Facilities

<i>No.21</i>	<i>Name of Jetty</i>	Hledan No.2 Jetty		
<i>Dimension</i>	Pontoon: Length 120m × Width 20m (before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No roller	Set roller	Photo-4
Bridge	Fair	Rust, deficit	Check the rust	Photo 3,6
Pier	Fair	Big Trace of Crack Beem inside	Check the rust of Reinforcing – bar and pour the concrete	Photo 1, 2,7
Sponson	Good	No damage		Photo-5

<Photograph>

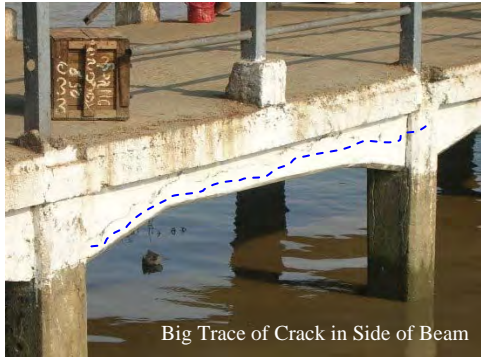


Show the Detail in "Picture-2"

Photo 1



Photo 4



Big Trace of Crack in Side of Beam

Photo 2



Photo 5

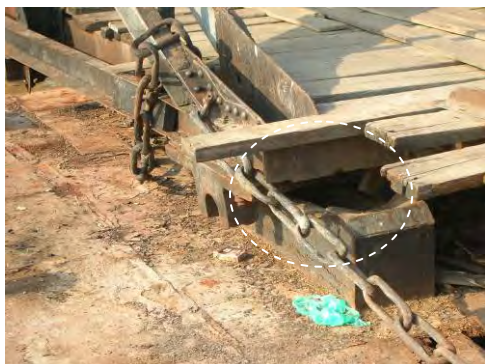


Photo 3



Photo 6



Photo 7

Inspection and Evaluation of Port Facilities

No.22	<i>Name of Jetty</i>	Concrete Jetty No.4		
<i>Dimension</i>		<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Non			
Bridge	Non			
Pier	Non	No damage		Photo 1
Sponson	Non			

<Photograph>

This is private Jetty, so this Jetty is out of scope.



Photo 1- General

Inspection and Evaluation of Port Facilities

No.23	<i>Name of Jetty</i>	Phogylian 1		
<i>Dimension</i>	<i>Pontoon: Length 120'*Width20'</i>		<i>Date of Inspection</i>	12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo-6
Bridge	Good	No damage		Photo-1
Pier	Fair	Delaminated concrete	Pour the Concrete in delaminated parts	Photo-1,4
Sponson	Good	No damage		Photo-5

5<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3 - Side Beam



Photo 6

Inspection and Evaluation of Port Facilities

No.24	<i>Name of Jetty</i>	Concrete Jetty 5		
<i>Dimension</i>	-	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Bad	Rust, deficit	Remove the Rust of Reinforcing-bar and pour the concrete	Photo 1-6
Sponson	-			

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.25	<i>Name of Jetty</i>	Phoegyilan 2		
<i>Dimension</i>	Pontoon: Length 120 * Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	Fair	No roller	Set the roller	Photo 1, 7, 8
Pier	Bad	Delamination of concrete	Pour the concrete	Photo 2, 3, 4, 5
Sponson	Good			Photo 1

<Photograph>



Photo 1 - Panoramic View



Photo 4 - Surface of concrete



Photo 2 - Pier side-view

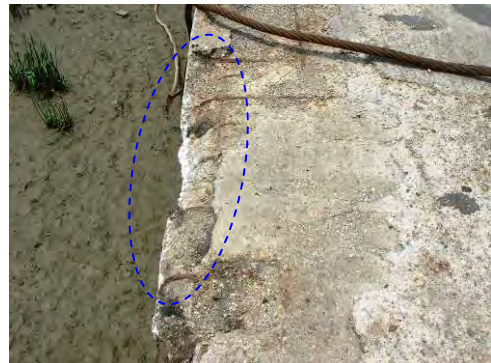


Photo 5 - Edge of concrete

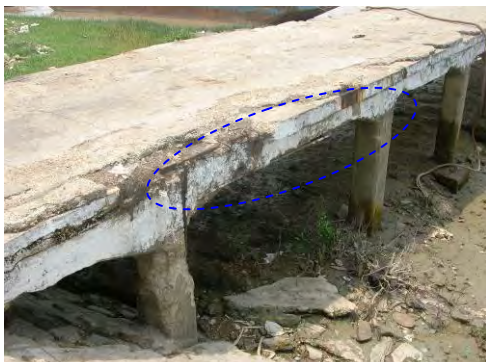


Photo 3



Photo 6 - Edge of Pier



Photo 7 - Support of Bridge

Inspection and Evaluation of Port Facilities

No.26	<i>Name of Jetty</i>	Shwee Taung Dan 1		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	10 July, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	—			
Bridge	Good	No Roller	Set the roller	Photo 1, 5, 6
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 2, 3, 4
Sponson	Good	No damage		Photo 2, 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.27	<i>Name of Jetty</i>	Shwee Taung Dan2		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	Rust, deficit		Photo 1
Bridge	Good	No		Photo 1, 5, 6
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 2
Sponson	Good			Photo 4

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.28	<i>Name of Jetty</i>	Lanmadaw 1		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good			Photo 2
Bridge	Good			Photo 4
Pier	Good			Photo 1, 3, 5
Sponson	Good			Photo 6

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.29	<i>Name of Jetty</i>	Lanmadaw 2		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage		Photo 5
Bridge	Good	No damage		Photo 1, 2
Pier	Good	No damage		Photo 3, 4
Sponson	Good	No damage		Photo 6

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.30	<i>Name of Jetty</i>	Shi Oh Dan No.1 Jetty		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage		Photo 6
Bridge	Good	No damage		Photo 1, 3, 4, 5
Pier	Good	No damage		Photo 2, 6
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.31	<i>Name of Jetty</i>	Sin Oh Dan 2		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	10 July, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Fair	Hole	Patch the plate	Photo 2,4
Bridge	Good	No damage		Photo 1
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 3
Sponson	Good	No damage		Photo 1,5

<Photograph>



Photo 1



Photo 3



Photo 2 (Hole of upper plate at Pontoon)



Photo 4



Photo 5

Inspection and Evaluation of Port Facilities

No.32	<i>Name of Jetty</i>	Port Heath Jetty 2		
<i>Dimension</i>	-	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	Bad	Support of Bridge is destroyed		Photo 2
Pier	Fair	Lack of concrete	Pour the concrete	Photo 3,4
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 3

This Jetty is not to use in future.

Inspection and Evaluation of Port Facilities

<i>No.33</i>	<i>Name of Jetty</i>	Port Heath Jetty 3		
<i>Dimension</i>	-	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Good	No damage		Photo 1, 2
Sponson	-			

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

No.34	<i>Name of Jetty</i>	Pansondan Jetty		
<i>Dimension</i>	Pontoon: Length 120 x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 2
Bridge	Good	No damage		Photo 1
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 4
Sponson	Good	No damage		Photo 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.35-1	<i>Name of Jetty</i>	Nan Thi Da 1 (upper)		
<i>Dimension</i>	Pontoon: Length 240 x Width 40' (Before Nargis)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	Good	No damage		Photo 1, 2
Sponson	-			

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

No.35-2	<i>Name of Jetty</i>	Nan Thi Da 1 (Lower)		
<i>Dimension</i>	Share the N.35-1 Jetty		<i>Date of Inspection</i>	12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 1, 2, 3
Sponson	-			

<Photograph>



Photo 1



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.36-1	<i>Name of Jetty</i>	Nan Thi Da 2 No.3(upper ,)		
<i>Dimension</i>	Pontoon : Length 240'xWidth 20'	<i>Date of Inspection</i>		12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Bad	Rust, deficit	Change the beam	Photo 2, 3, 4, 5, 6
Bridge	Good	No damage		Photo 1
Pier	Good	No damage		Photo 1
Sponson	Good	No damage		Photo 1

<Photograph>



Photo 1



Photo 4



Photo 2

On board: Picture-6 (arrow)



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.36-2	<i>Name of Jetty</i>	Nan Thi Da 2 No.4 (lower)		
<i>Dimension</i>	Share the No.36-1 Jetty		<i>Date of Inspection</i>	12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 3
Bridge	Good	No damage		Photo 1
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 4
Sponson	Good	No damage		Photo 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 4

Inspection and Evaluation of Port Facilities

<i>No.37</i>	<i>Name of Jetty</i>	Thein Byu Jetty		
<i>Dimension</i>	Pontoon: Length 100' x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage	Repaied	Photo 3
Bridge	Good	No damage	Repaied	Photo 1
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 4, 5
Sponson	Good	No damage	Repaied	Photo 2

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

Inspection and Evaluation of Port Facilities

No.38	<i>Name of Jetty</i>	Workshop Pontoon Jetty		
<i>Dimension</i>	Pontoon: Length 100' x Width 20'	<i>Date of Inspection</i>		12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Bad	Rust, deficit	Replace the reinforcing-bar and pour the concrete	Photo 1, 2
Sponson	-			

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

No.39	<i>Name of Jetty</i>	Botahtaung 2		
<i>Dimension</i>	Pontoon:		<i>Date of Inspection</i>	12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	Fair	Rust	Under construction	Photo 1
Pier	-			
Sponson	-			

<Photograph>



Photo 1 - Old Bridge



Photo 2 - New Bridge under construction

Inspection and Evaluation of Port Facilities

No.40-1	<i>Name of Jetty</i>	Botahtaung 3 (upper)		
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (Upper & Lower)	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 3
Bridge	Good	No damage		Photo 1
Pier	Fair	Rust, deficit	Pour the concrete	Photo 4, 5, 6
Sponson	Good	No damage		Photo 2

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.40-2	<i>Name of Jetty</i>	Botahtaung 3 (lower)		
<i>Dimension</i>	Pontoon: Length 120' x Width 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		Photo 3
Bridge	Good	No damage		Photo 2
Pier	Fair	Rust, deficit	Pour the concrete	Photo 4, 5
Sponson	Good	No damage		Photo 2

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

Inspection and Evaluation of Port Facilities

No.41-1	<i>Name of Jetty</i>	Botahtaung 4 (Upper)		
<i>Dimension</i>	Pontoon; Length 100'xWidth 20'	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage		Photo 5
Bridge	Good	No damage		Photo 3
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 1, 2, 4
Sponson	Good	No damage		Photo 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

Inspection and Evaluation of Port Facilities

No.41-2	<i>Name of Jetty</i>	Botahtaung 4 (lower)		
<i>Dimension</i>	-	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	Good	No damage		Photo 1, 2, 3
Sponson	-			

<Photograph>



Photo 1



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.42-1	<i>Name of Jetty</i>	Botahtaung 5 (upper)		
<i>Dimension</i>	-	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	-			
Bridge	-			
Pier	Fair	Rust, deficit	Pour the concrete	Photo 1, 2
Sponson	-			

<Photograph>



Photo 1



Photo 2

Inspection and Evaluation of Port Facilities

No.42-2	<i>Name of Jetty</i>	Botahtaung 5 (lower)		
<i>Dimension</i>	Pontoon; Length 100'xWidth 20'	<i>Date of Inspection</i>		12 June, 2009
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Good	No damage		Photo 5
Bridge	Good	No damage		Photo 2, 3
Pier	Fair	Rust, deficit		Photo 1, 2, 3
Sponson	Good	No damage		Photo 4
Block	Bad	Stripped block	Repair the block	Photo 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.43-1	<i>Name of Jetty</i>	Botahtaung 6 (upper)		
<i>Dimension</i>	Pontoon; Length 200' x Width 20' (11 nos). Before Nargis	<i>Date of Inspection</i>	10 July, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Bad	Rust, deficit		Photo 1, 2, 3
Sponson	-			

<Photograph>



Photo 1



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.43-2	<i>Name of Jetty</i>	Botahtaung 6 (lower)		
<i>Dimension</i>	Pontoon; Length 200' x Width 20' (11 nos). Before Nargis	<i>Date of Inspection</i>	12 June, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Bad	Collapse	Remove & reconstruct	Photo 1, 2, 3
Sponson	-			

<Photograph>



Photo 1

The concrete pier was Collapsed.
It should be taken away the concrete pier
and re-construct.



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.44	<i>Name of Jetty</i>	Min Ye Kyaw Thu Jetty		
<i>Dimension</i>	Pontoon; Length 120'xWidth 20'	<i>Date of Inspection</i>	30 May, 2009	
Result of Inspection and Evaluation of Port Facilities				
Facility	General Evaluation	Condition of Damage and/or Deterioration	Measures to be taken	Reference Photo
Pontoon	Fair	Hole	Patch the plate	
Bridge	Good	No Damage		Photo 1,2
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 3,4,5
Sponson	Good	No Damage		Photo 6

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3

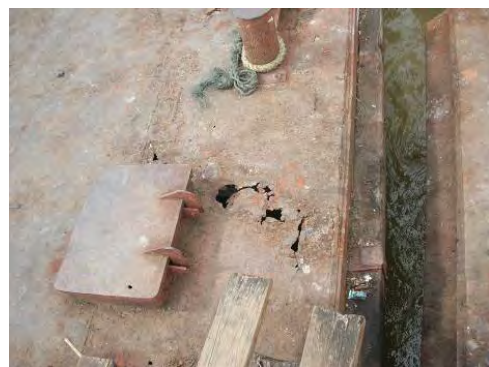


Photo 6

Inspection and Evaluation of Port Facilities

No.45	<i>Name of Jetty</i>	Dala Port Jetty		
<i>Dimension</i>	Pontoon: Length 120' x Width 20'	<i>Date of Inspection</i>	30 May, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	Rust, deficit		Photo 3
Bridge	Good			Photo 1, 2, 7
Pier	Fair	Delaminated concrete	Pour the concrete	Photo 4, 5
Sponson	Good			Photo 3

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6



Photo 7

Inspection and Evaluation of Port Facilities

No.46	<i>Name of Jetty</i>	Ant Gyi Jetty		
<i>Dimension</i>	Pontoon; Length 100'x Width 20' (Before Nargis)		<i>Date of Inspection</i>	10 July, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good			Photo 4
Bridge	Good			Photo 4
Pier	Fair	Rust, deficit	Pour the concrete	Photo 1, 2, 3
Sponson	-			

<Photograph>



Photo 1



Photo 4



Photo 2



Photo 3

Inspection and Evaluation of Port Facilities

No.47	<i>Name of Jetty</i>	Crane Jetty in King's Bank		
<i>Dimension</i>	-	<i>Date of Inspection</i>	30 May, 2009	
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	-			
Bridge	-			
Pier	Bad	Flaking of concrete	Replace the reinforcing-bar and pour the concrete	Photo 1, 2, 3, 4,
Sponson	-			

<Photograph>



Photo 1



Photo 3



Photo 2



Photo 4

Inspection and Evaluation of Port Facilities

No.48	<i>Name of Jetty</i>	King's Bank Jetty		
<i>Dimension</i>	Sponson: Length 30' x Width 20'	<i>Date of Inspection</i>		10 July, 2009
Result of Inspection and Evaluation of Port Facilities				
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage and/or Deterioration</i>	<i>Measures to be taken</i>	<i>Reference Photo</i>
Pontoon	Good	No Damage		Photo 5
Bridge	Good	No Damage		Photo 5
Pier	Fair	Rust, deficit	Reinforce the Steel	Photo 2, 3
Sponson	-			Photo 5

<Photograph>



Photo 1



Photo 3



Photo 2



Photo 4



Photo 5

Inspection and Evaluation of Port Facilities

No.1	<i>Name of Jetty</i>	Chaung Wa Jetty (1&2)			
<i>Dimension</i>	Pontoon: Length 200' x Width 40' (after Nargis)	<i>Date of Inspection</i>			9 Dec 2014
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	Bad	Beam is partly rusted	-Rusted pontoon, steel deck need to be replaced the new -Need to repair deck timber lost		Photo 2,3,5,6
Bridge	Good	N	N		Photo 1,4
Pier	Pier No.1(Good) Pier No.2(Fair)	N	N	New R.C Approach (13'x36')	Photo 1
Sponson	Fair	Rust, deficit	N		Photo 3

<Photograph>



Photo 1 - New pier Added roof



Photo 4 - General



Photo 2 - Pontoon replaced



Photo 5 - Deck timber lost



Photo 3



Photo 6 - Decking support beam rusted, need to replace



Photo 7



Photo 8

Inspection and Evaluation of Port Facilities

No.2	<i>Name of Jetty</i>	Kyeemyindine No.3 Jetty			
<i>Dimension</i>	Pontoon: Length 80' x Width 20' (after Nargis)		<i>Date of Inspection</i>	9 Dec ,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	N	N	N	No	
Bridge	N	N	N	No	
Pier	Fair	crack at top of Slab, Corner of concrete slab damage	Corner slab need to repair	No	Photo 1,2,3,4
Sponson	Fair	N	N	No	

<Photograph>



Photo 1 – General



Photo 4



Photo 2 - Pier concrete damaged



Photo 5 - Timber decking damage



Photo 3 - Pontoon Top cover damage



Photo 6 - Sponson



Photo 7 - Steel bridge



Photo 8 - Pontoon & sponson damage

Inspection and Evaluation of Port Facilities

No.3	<i>Name of Jetty</i>	Kyeemyindine No.5 Jetty			
<i>Dimension</i>	Pontoon: Length 80' x Width 20' (after Nargis)	<i>Date of Inspection</i>		22 February,2011	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Fair	Rusted	New paint	No	Photo 5,6
Bridge	Bad	Support of bridge is destroyed		No	Photo 1,5,6
Pier	Bad	Pillar concrete damage Corner of pier concrete slab damage	Repair pillar concrete and Corner of pier concrete slab	No	Photo 1,2,3,4
Sponson	Good	No damage		No	Photo 5

<Photograph>



Photo 1 - General



Photo 6 - Connection of steel bridge & abutment



Photo 2 - Connection cover plate missing



Photo 7



Photo 3 - Corner of Pier Concrete slab damage



Photo 8



Photo 4



Photo 9



Photo 5

Inspection and Evaluation of Port Facilities

No.4	<i>Name of Jetty</i>	Kyeemyindine Bazar Road Jetty			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>		9 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	Good	No damage	N	No	Photo 4
Bridge	Fair	Timber deck is broken	Need to repair the bridge deck timber lost.	No	Photo 1,3,6
Pier	Bad	Reinforced bar is exposed and trace of crack by delaminated concrete.	To repair the column and bracing is Immediately required.	No	Photo 2,5,7,8
Sponson	Good	No damage		No	Photo 1,3

<Photograph>



Photo 1 - General



Photo 4 - General



Photo 2 - Bracing & Colum damage



Photo 5 - Column damage



Photo 3 - General



Photo 6 - Decking Timber loss & damage



Photo 7



Photo 8 - Bracing & Colum damage

Inspection and Evaluation of Port Facilities

No.5	<i>Name of Jetty</i>	Bagaya No.1 Jetty (Coastal ship Association) Private			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>			9Dec ,2014
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	Fair	No damage	House keeping	No	Photo 5
Bridge	Fair	Timber deck is broken	N	No	Photo 1, 6
Pier	Fair	Delamination of concrete	Set the frame and pour the concrete.	No	Photo 1
Sponson	Good	No damage	N	No	Photo 2,4

<Photograph>



Photo 1 - General



Photo 4



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.6	<i>Name of Jetty</i>	Bagaya No.2 Jetty			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>		9 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		No	Photo 3
Bridge	Fair	Timber deck is broken	Need to be repair bridge deck timber lost	No	Photo 1,4,5,6
Pier	Fair	N	N	No	Photo 1,2
Sponson	Good	No damage	N	No	Photo 5,6

<Photograph>



Photo 1 - General



Photo 4 - Decking timber lost



Photo 2



Photo 5



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

<i>No.7</i>	<i>Name of Jetty</i>	Bagaya No.3 Jetty(Coastal Ship Association)			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>		9 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Fair	rusted	House keeping is required	No	Photo 6
Bridge	Fair	Timber deck is broken	Need to be repair bridge deck timber lost	No	Photo 1,3,4
Pier	Fair	N	N	No	Photo 1
Sponson	Good	N		No	Photo 5

<Photograph>



Photo 1



Photo 4



Photo 2 - Bridge roller connection rusted



Photo 5



Photo 3



Photo 6 - Debris on the pontoon (reason of damage)

Inspection and Evaluation of Port Facilities

No.8	<i>Name of Jetty</i>	Bagaya Concrete Jetty			
<i>Dimension</i>	N/A	<i>Date of Inspection</i>			9 Dec,2014
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2011</i>	<i>Reference Photo</i>
Pontoon	N	N	N	No	
Bridge	N	N	N	No	
Pier	Very Bad	Reinforced bar is exposed	Need to repair	No	Photo 1~ 6
Sponson	N	N		No	

<Photograph>



Photo 1 - General



Photo 4 - General



Photo 2 - Concrete column and slab damage



Photo 5 - Beam & slab damage



Photo 3 - General



Photo 6 - Beam damage, Rebar is exposed

Inspection and Evaluation of Port Facilities

No.9	<i>Name of Jetty</i>	Wardan No.1 Jetty(Marine Police Station)			
<i>Dimension</i>	Pontoon: Length 120' x 20' (after Nargis)		<i>Date of Inspection</i>	5 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Good	No damage			Photo 1,2
Bridge	Fair	Timber deck is broken		No	Photo 1,4,5
Pier	Good	No damage		No	Photo 4
Sponson	Good	No damage		No	Photo 1,3

<Photograph>



Photo 1 - General



Photo 4



Photo 2



Photo 5 - Far View



Photo 3



Photo 6 - Marine Police Station

Inspection and Evaluation of Port Facilities

No.10	<i>Name of Jetty</i>	Wardan No.2 Jetty (Marine Police Station)			
<i>1. Dimension</i>	Pontoon: Length 120' x 20' (after Nargis)		<i>Date of Inspection</i>	5 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	N	N	N	Movable Type	N
Bridge	Good	No damage		No	Photo 1,2,4,5
Pier	Good	No damage		No	Photo 1,2
Sponson	Good	No damage		No	Photo 1,5

<Photograph>



Photo 1 - General



Photo 4



Photo 2



Photo 5 - Roller Wheel Missing



Photo 3

← Wardan No.2 Jetty

Inspection and Evaluation of Port Facilities

No.11	<i>Name of Jetty</i>	Wardan No.3 Jetty			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)		<i>Date of Inspection</i>	9 Dec,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Fair	N	Decking timber loose	No	Photo 4,5,6
Bridge	Fair	N	Roller wheel is required	No	Photo 1,2,3
Pier	Fair	N	N	No	Photo 1, 5
Sponson	Good	No damage		No	Photo 1,3

<Photograph>



Photo 1 - General



Photo 4 - Need proper porter way



Photo 2 - Roller wheel is missing



Photo 5 - Pier column & beam damage



Photo 3 - General



Photo 6 - Timber decking loss & damage

Inspection and Evaluation of Port Facilities

No.12	<i>Name of Jetty</i>	Wardan No.4 Jetty			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>	5 Dec, 2014		
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Fair	No damage	Decking timber lost	No	Photo -1, 2
Bridge	Fair	N	To replace roller wheel	No	Photo 1,4,6,7
Pier	Fair	Damage	Repair	No	Photo 5
Sponson	Good	No damage	N	No	Photo 1, 2
Porter way	Fair	Damage, Surface delamination, rebar exposed	Repair	No	Photo 5

<Photograph>



Photo 1 - General



Photo 4 - Hand rail post damage



Photo 2 - No connection with Pontoon



Photo 5 - Porter Way Damage, rebar export and rust



Photo 3



Photo 6 - General



Photo 4 - Roller wheel missing



Photo 7 - Connection cover steel plate missing

Inspection and Evaluation of Port Facilities

No.13	<i>Name of Jetty</i>	Wardan No.5 Jetty(Coastal Ship Association)			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (after Nargis)	<i>Date of Inspection</i>		5Dec ,2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	N	N		No	
Bridge	N	N	N	No	
Pier	Fair	Pier concrete damage	Need to repair	No	Photo 2,5
Sponson	N	N		No	

<Photograph>



Photo 1 - General



Photo 4



Photo 2 - Coastal Ship Association



Photo 5 - Pier concrete damage



Photo 3 - Revetment

Inspection and Evaluation of Port Facilities

No.14	<i>Name of Jetty</i>	Wardan RO/RO Jetty			
<i>Dimension</i>	N/A	<i>Date of Inspection</i>			5 Dec, 2014
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	N	N	N	No	
Bridge	N	N	N	No	
Pier	N	N	N	No	
Sponson	N	N	N	No	
Revetment	-	Good	-	-	Photo 4

<Photograph>



Photo 1 - General



Photo 3 - Curb Stone Damage



Photo 2



Photo 4 - Revetment

Inspection and Evaluation of Port Facilities

No.15	<i>Name of Jetty</i>	Wardan No.6 Jetty			
<i>Dimension</i>	Pontoon: Length 120'x Width 20' (after Nargis)		<i>Date of Inspection</i>	3 March,2011	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	Good	No damage		No	Photo 4
Bridge	Fair	N	Fix handrails	No	Photo 3,5,6
Pier	Fair	Repaired	N	No	Photo1, 2,4
Sponson	Good	No damage		No	Photo 3

<Photograph>



Photo 1 - General



Photo 4 - Repaired beam and column



Photo 2 - Handrail missing



Photo 5 - New painted steel bridge with timber decking



Photo 3



Photo 6

Inspection and Evaluation of Port Facilities

No.16	<i>Name of Jetty</i>	Concrete Jetty (Bagaya No.4)			
<i>Dimension</i>	Pontoon: Length 120' x Width 20' (before Nargis)		<i>Date of Inspection</i>	9 Dec, 2014	
Result of Inspection and Evaluation of Port Facilities					
<i>Facility</i>	<i>General Evaluation</i>	<i>Condition of Damage And/or Deterioration</i>	<i>Measures to be taken</i>	<i>Change from Last survey in 2009</i>	<i>Reference Photo</i>
Pontoon	N	N	N	N	N
Bridge	Fair	Deck timber loose	Need to be repair bridge deck timber loosening	N	Photo 1,2
Pier	Bad	Concrete Beam, slab & column damage	Immediately repair the column, bracing & slab	N	Photo 3, 6
Sponson	N	N	N	N	N

<Photograph>



Photo 1 - General



Photo 4



Photo 2



Photo 5 - Concrete slab damage



Photo 3 - Beam, column & slab damage



Photo 6 - Pier column damage