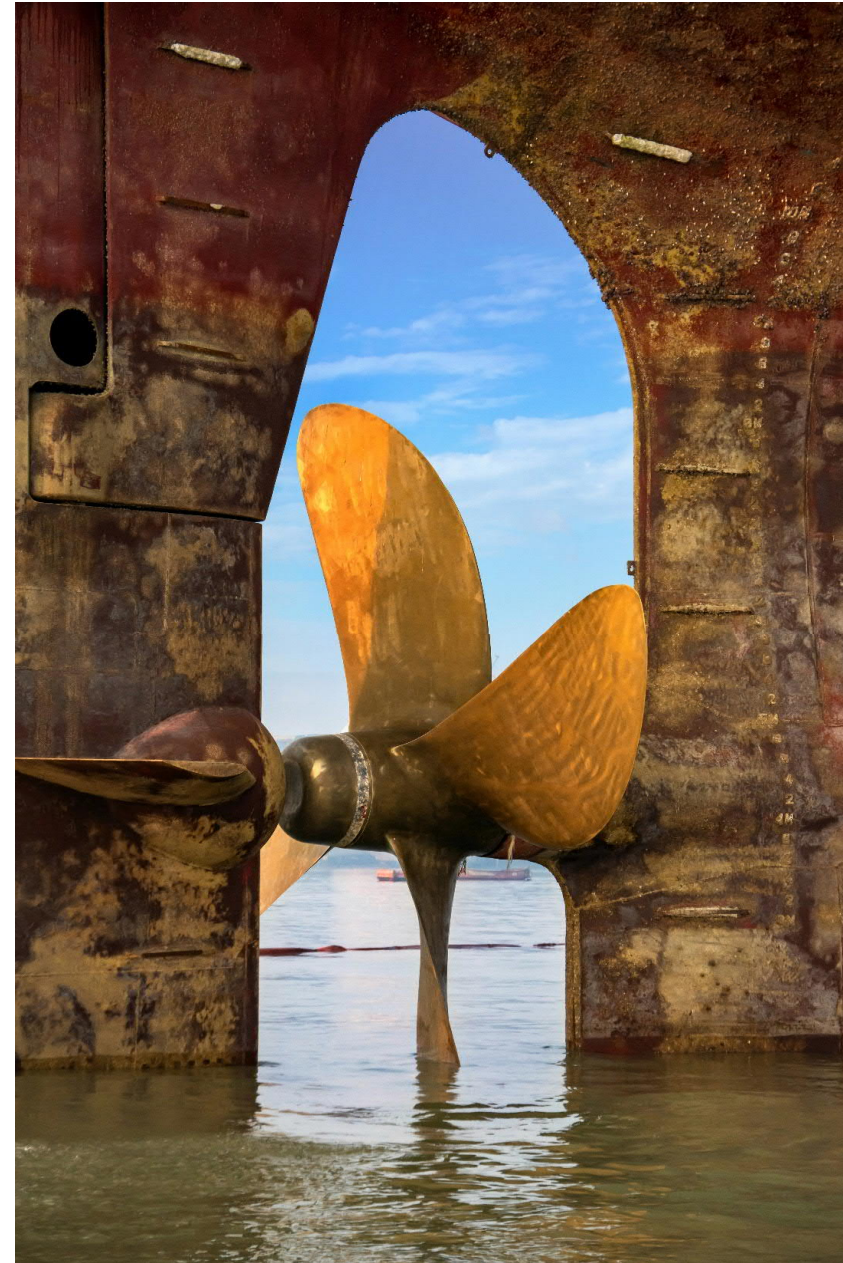


PHP - The Change Maker's Journey to HKC Certification at Bangladesh

Mohammed Zahirul Islam
Managing Director – PHP SBRIL
Vice President – BSBRA
Board Member – SBSRB



Bangladesh Ship Recycling – Rising of the New Era



Bangladesh Ship Recycling Industry – Importance of the Industry

- Much needed activity for sustained growth of Bangladesh economy.
- Huge demand of Iron and Steel in local market due to dependency on scrap metal, as lack of iron ore in the country
- 39% supply from Ship Recycling Industry to steel production in Bangladesh for the year 2010 (Study by University of Chittagong and University of Tokyo)
- Direct employment around – 50,000 people
- Indirect employment – more than 1,000,000 people

Bangladesh Ship Recycling Industry – Challenges

- International Regulations: HKC, Basel Convention,
- EU SRR and possible interpretation by the commission.
- EU Waste Shipment Regulations
- NGO Pressures: Ship Breaking Platform, BELA, YPSA and many more...
- Impractical enforcement of rules and regulations
- Multiple enforcement agency and multiple national rules / regulations
- Ambiguity of rules and regulations
- Lack of competent manpower
- Lack of competent service providers

Bangladesh Ship Recycling Industry – Latest Development

Administrative Reforms:

- Bangladesh Ship Recycling Act, 2018

Published in the GOB's official gazette on 12 February 2018.

Salient features of the Act:

- Establishment of Ship Recycling Zone – Restrict the activities within a specific area
- Establishment of Ship Recycling Board
- Responsibility and Power to SR Board
- Establishment of one stop service
- Establishment of TSDF
- Roadmap for early ratification to Hongkong Convention

Bangladesh Ship Recycling Industry – Latest Development

1. SENSREC Phase I (2015 -2017)
2. SENSREC Phase 2 (April 2018-October 2020)
3. SENSREC Phase 3 –MOU Signed between IMO & ERD (Expected to Start in 2023)

Objectives

- To enhance national capacities for safe & environmentally sound recycling of ships
- To support GOB to comply with the requirements of the HKC (GOB be in a position to accede to the HKC)

Expected outcomes:

- To provide technical assistance to the GOB for the establishment of a TSDF
 - Layout Plan, Business Model, Engineering Design, Corporate Plan
 - Guidelines for Waste Collection, Transportation, Waste Fee Charges
- To provide further technical assistance to help the GOB accede to the HKC

Bangladesh Ship Recycling Industry – Latest Development

- Treatment, Storage, Disposal Facility (TSDF) – Project In Pipeline
- Common Incineration Facility – Project In Pipeline

Expected to complete the project in next 2 – 4 years time and all process is delayed to due to pandemic

- No. of Registered Ship Recycling Facility – 113 (As per BSBRA records)
- No. of Ship Recycling Facility in Operation – 40 (As per BSBRA records)

Bangladesh Ship Recycling Industry – Latest Development

Training of Workers by BSBRA Training Institute:

(Training Institute Approved by MOI,
Operated and maintained by BSBRA)

No. of Workers Trained – 12,370 Nos. (up to
Sept. 2022)

Training provided at Institute is Free of Cost
(From 2022) to all workers and BSBRA
bearing all expenses.



New Office Building of BSBRA and Training Institute

Bangladesh Ship Recycling Industry – Latest Development



Healthcare Facilities for Workers (Hospital–Developed & Maintained by BSBRA)

Bangladesh Ship Recycling Industry – Eagerly Awaiting

Bangladesh Ratification to Hongkong International Convention for the safe and environmentally sound recycling of ship, 2009

PHP Ship Breaking and Recycling Industries Limited

The Change Makers of Sustainable Ship Recycling in the world

The Change Maker's Journey for
Certification to Statement of Compliance to
Hong Kong International Convention for the
Safe and Environmentally Sound Recycling of Ships, 2009

***PHP** Family*

From ClassNK, Japan



Proposed Development Plan – January 2014



With aim to have 100% activities on Impermeable Floor – 46000 Sq. Mtr.

Proposed and Actual Investment

Phases	Proposed Investment (In USD) Planned in 2014	Actual Investment (In USD)
Phase 1 (Up to Dec. 2016)	3,000,000	4,000,000
Phase 2 (2018 – 2020)	4,000,000	3,700,000
Phase 3 (2021 – 2024)	7,000,000	3,450,000
Total Investment (In USD)	14,000,000	1,150,000 (up to Dec. 2022)

Planned in 2023		
Phase 4 (2025 – 2028)	10,000,000	
Total Investment (In USD)	10,000,000	

Certification

15th January – 2020

Statement of Compliance to Hong Kong International Convention for Safe and Environmentally Sound Recycling of Ship, 2009

 **NIPPON KAIJI KYOKAI**

**STATEMENT OF COMPLIANCE
FOR
FIRMS ENGAGED IN SHIP RECYCLING**

No.: KC20SRF-002

THIS IS TO CERTIFY that

**PHP SHIP BREAKING AND RECYCLING
INDUSTRIES LIMITED**

VILLAGE & P.O.: SITALPUR, P.S.: SITAKUNDA, DIST.:
CHATTOGRAM, BANGLADESH

has been confirmed as a firm engaged in ship recycling that the operations and procedure that are in place at the facility in accordance with IMO Resolution MEPC. 210(63) "2012 GUIDELINES FOR SAFE AND ENVIRONMENTALLY SOUND SHIP RECYCLING".

Any reductions of the above operations or procedure may render this statement of compliance invalid.
This statement is valid until 14 January 2025 subject to continued compliance with the related GUIDELINES and periodical audits.

Issued at Tokyo on 15 January 2020

NIPPON KAIJI KYOKAI


(H. Takano)
Director

 **ClassNK**

This Report is issued subject to the condition that it is understood and agreed that neither the Society nor any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by this Society or its Surveyors or in any entry in the Record or other publication of the Society or for any error of judgment, default or negligence of its Officers, Surveyors or Agents.

**SUPPLEMENT TO:
STATEMENT OF COMPLIANCE
FOR
FIRMS ENGAGED IN SHIP RECYCLING**

NO.: KC20SRF-002-2

Notes:
1 This supplement shall be permanently attached to the Statement of Compliance. The Statement of Compliance shall be available at the Ship Recycling Facility at all times.
2 All procedures, plans and other documents produced by the Ship Recycling Facility and required under the terms to which the Statement of Compliance has been issued shall be available in the working language of the Ship Recycling Facility and in English.
3 Statement of Compliance subject to the limitations defined by this supplement.

1 GENERAL TERMS

1.1 Ship Recycling Facility Certified

Name of Ship Recycling Facility : PHP SHIP BREAKING AND RECYCLING INDUSTRIES LIMITED
Full Address of Ship Recycling Facility : VILLAGE & P.O.: SITALPUR, P.S.: SITAKUNDA, DIST.: CHATTOGRAM, BANGLADESH
Primary Contact Person : MOHAMMED ZAHIRUL ISLAM CHOWDHURY
Phone Number : +880-31-2511037
E-mail Address : zahir@phpfamily.co
Name, Address, and Contact Information of Ownership Company : PHP SHIP BREAKING AND RECYCLING INDUSTRIES LIMITED
PHP HOUSE # 31, AGRABAD COMMERCIAL AREA, CHATTOGRAM – 4100 BANGLADESH
BENGALI / ENGLISH

Working Language(s) :

1.2 SHIP RECYCLING FACILITY PLAN

The examined SHIP RECYCLING FACILITY PLAN for PHP SHIP BREAKING AND RECYCLING INDUSTRIES LIMITED is attached.

1.3 Map and location of Ship Recycling operations

A map of the boundary of the Ship Recycling Facility and the location of Ship Recycling operations within it, is attached.

2 CAPABILITY OF SHIP RECYCLING FACILITY

2.1 Size of ships

The Ship Recycling Facility is confirmed to accept a ship for recycling subject to the following size limitations:

	Maximum Size	Other Limitations
Length	N/A	Nil
Breadth	100m	Nil
Draft	N/A	Nil
Lightweight	100,000MT	Nil

2.2 Safe and Environmentally Sound Management of Hazardous Materials

The Ship Recycling Facility is confirmed to accept a ship for recycling that contains Hazardous Materials as specified in the following table subject to the conditions noted below:

Hazardous Material(*4)	Management of Hazardous Materials			Confirmation/Limitations
	Removal Y/N (*2)	Storage Y/N	Process (*1) Y/N (*3)	
Asbestos	Y	Y	N	Nil
Ozone-depleting substances	Y	Y	N	
Polychlorinated biphenyls (PCB)	Y	Y	N	
Anti-fouling compounds and systems	Y	Y	N	
Cadmium and Cadmium Compounds	Y	Y	N	
Hexavalent Chromium and Hexavalent Chromium Compounds	Y	Y	N	
Lead and Lead Compounds	Y	Y	N	
Mercury and Mercury Compounds	Y	Y	N	
Polybrominated Biphenyl (PBBs)	Y	Y	N	
Polybrominated Diphenyl Ethers (PBDEs)	Y	Y	N	
Polychlorinated Naphthalenes (more than 3 chlorine atoms)	Y	Y	N	
Radioactive substances	Y	Y	N	
Certain Shortchain Chlorinated Paraffins (Alkanes: C10-C13, chloro)	Y	Y	N	
Hazardous liquids, residues and sediments	Y	Y	N	
Paints and coatings that are highly flammable and/or lead to toxic release	Y	Y	N	
Other Hazardous Materials not listed above and that are not a part of the ship structure (specify)	Y	Y	N	

Notes: *1 Process means the processing of Hazardous Materials in the Ship Recycling Facility, such as:
a. incineration of Hazardous Materials;
b. reclamation of Hazardous Materials; and
c. treatment of oily residues.
*2 If Yes (Y), indicate in the Ship Recycling Facility Plan the responsible personnel authorized to carry out the removal, with the certificate number or other relevant information.
*3 If No (N), describe in the Ship Recycling Plan where the Hazardous Materials are to be processed/disposed.
*4 These Hazardous Materials are specified in Appendices 1 and 2 and regulation 20 of the Convention.

Certification

ISO 9001 / ISO 14001 / ISO 45001 / ISO 50001 and ISO 30000

Bureau Veritas Certification



PHP SHIP BREAKING AND RECYCLING INDUSTRIES LIMITED

YARD: SITALPUR-4314, SITAKUNDA, CHATTOGRAM, BANGLADESH.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

Standards

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018

Scope of certification

"SHIP RECYCLING ACTIVITIES, HANDLING OF HAZARDOUS AND NON HAZARDOUS MATERIALS AND SALE OF RECYCLABLE MATERIALS SUCH AS STEEL, EQUIPMENTS, MACHINERIES AND SALE OF OTHER MATERIALS AND DISPOSAL OF WASTE OBTAINED FROM SHIP"

Original cycle start date for ISO 9001 & ISO 14001: **14 January 2016**
Original cycle start date for ISO 45001: **15 September 2018**
Expiry date of previous cycle: **14 September 2021**
Recertification Audit date: **26 August 2021**
Recertification cycle start date: **13 September 2021**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **14 September 2024**

Certificate No. **IND.21.3866/IMU**

Version: 1 Revision date: **13 September 2021**

Jagdeesh N. Manian

Signed on behalf of BVCH SAS UK Branch
Jagdeesh N. MANIAN
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



0008

Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom.

Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
Symphony (5th Floor), Plot- SE(P)9, Road-142
South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call + 88 (02) 8836765.



PHP Ship Breaking and Recycling Industries Limited

PHP Family

SITALPUR – 4314, SITAKUNDA, CHATTOGRAM, BANGLADESH.

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System Standard detailed below.

Standard

ISO 50001:2018

Scope of certification

Ship Recycling Activities, Handling of Hazardous and Non-Hazardous Materials and Sale of Recyclable Materials such as Steel, Equipments, Machineries and Sale of other Materials and disposal of waste obtained from Ship.

Original cycle start date: **21 November 2022**
Expiry date of previous cycle: **Not Applicable**
Certification Audit date: **13 October 2022**
Certification cycle start date: **21 November 2022**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **20 November 2025**

Certificate No. **IND.22.20407/EN/U**

Version: 1

Issue date: **21 November 2022**

Jagdeesh N. Manian

Signed on behalf of BVCH SAS UK Branch
Jagdeesh N. MANIAN
Director – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division



0008

Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom.

Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
Symphony (5th Floor), Plot- SE(P)9, Road-142
South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call + 88 (02) 8836765.



PHP SHIP BREAKING AND RECYCLING INDUSTRIES LIMITED

YARD: SITALPUR - 4314, SITAKUNDA, CHATTOGRAM, BANGLADESH.

Bureau Veritas (India) Pvt. Ltd. (Certification Business) certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the Management System Standard detailed below

Standard

ISO 30000:2009

Scope of certification

"SHIP RECYCLING ACTIVITIES, HANDLING OF HAZARDOUS AND NON HAZARDOUS MATERIALS AND SALE OF RECYCLABLE MATERIALS SUCH AS STEEL, EQUIPMENTS, MACHINERIES AND SALE OF OTHER MATERIALS AND DISPOSAL OF WASTE OBTAINED FROM SHIP"

Original cycle start date: **17 November 2021**
Expiry date of previous cycle: **Not Applicable**
Certification Audit date: **02 October 2021**
Certification cycle start date: **17 November 2021**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **16 November 2024**

Certificate No. **IND.21.0338/BA-SB**

Version: 1

Revision date: **17 November 2021**

Jagdeesh N. Manian

Certification Authority
Jagdeesh N. MANIAN
Head – CERTIFICATION, South Asia
Commodities, Industry & Facilities Division

Local office: Bureau Veritas (Bangladesh) Pvt. Ltd.
Symphony (5th Floor), Plot- SE(P)9, Road-142
South Avenue, Gulshan-1, Dhaka-1212, Bangladesh.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call + 88 (02) 8836765.

PHP SBRIL Team – Key Members



Md. Zahirul Islam
Managing Director



Dharmesh Jani
Consultant



Md. Khairuzzaman
Sr. General Manager



Md. Muslim Uddin
Sr. Dy. GM



Liton Mazumder
MR and Dy. Manager



Sehal Anwar
HSE Manager

Facility Development Information

Feb. 01, 2014



Oct. 10, 2015



Development of Impermeable Floor

Facility Development Information

May. 17, 2017



Development of Impermeable Floor

Facility Development Information

Jan. 16, 2020



Development of Impermeable Floor

Facility Development Information

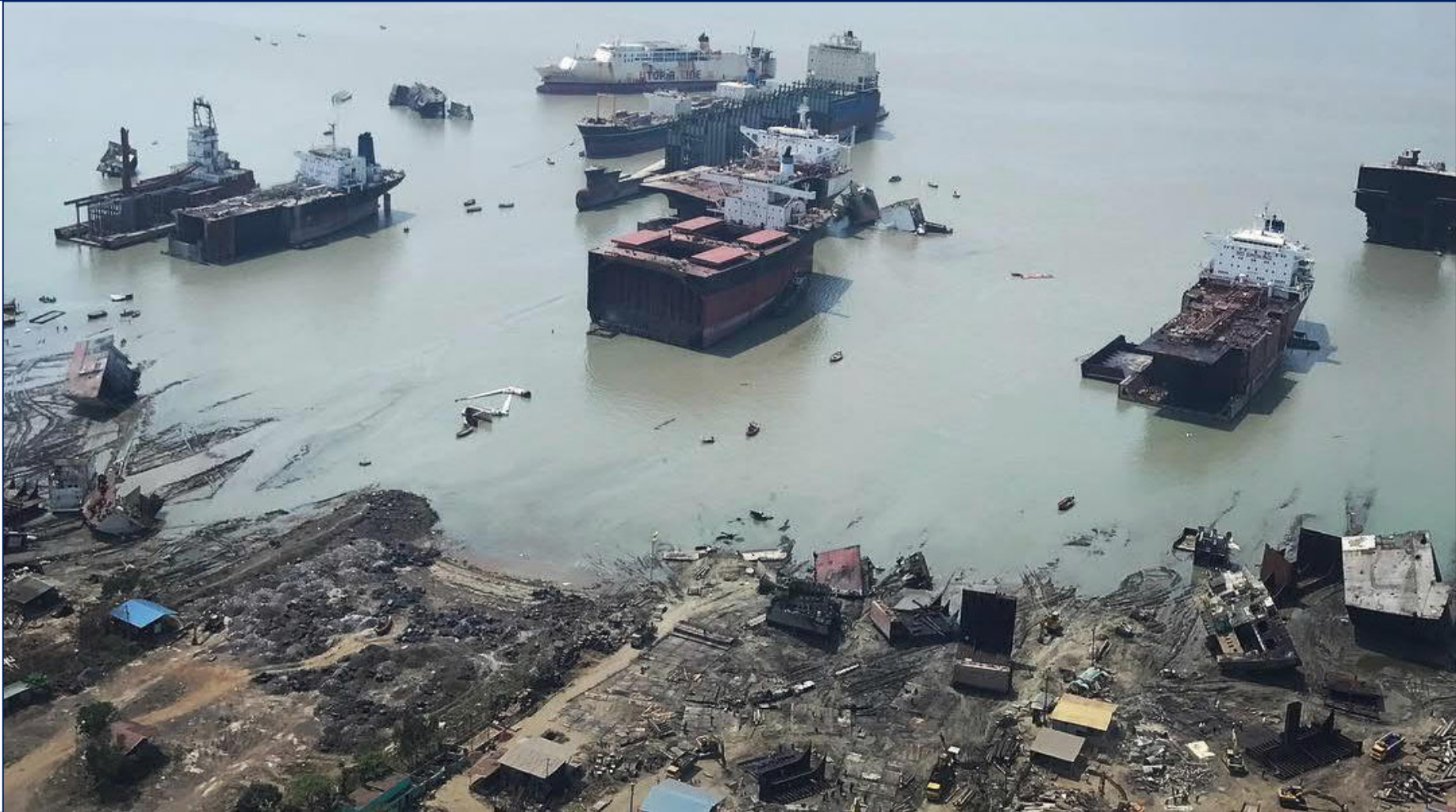
April 01, 2022



Facility Development Information



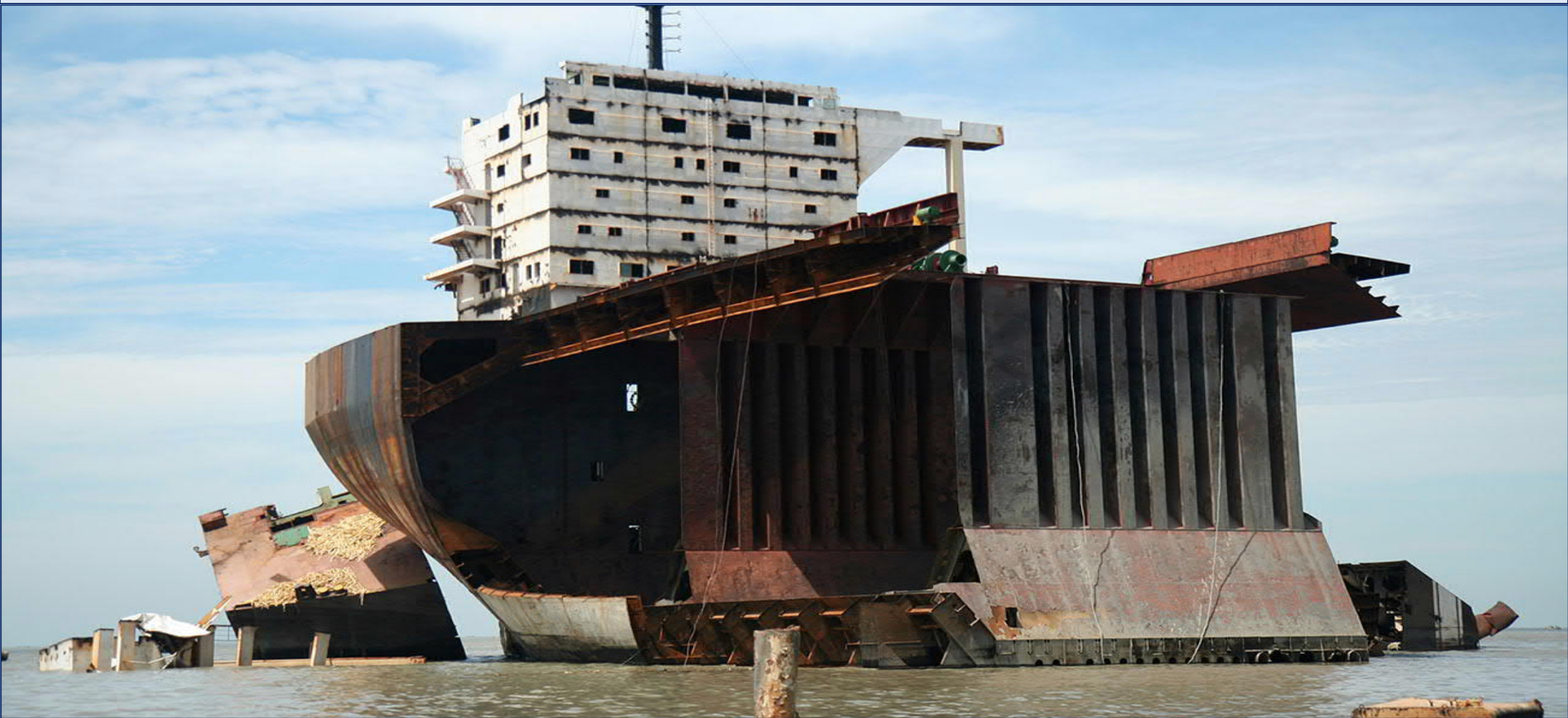
Challenged encountered for meeting HKC requirements



Traditional Cutting System in Bangladesh Ship Recycling Industry

(Image Source NGO Ship Breaking Platform)

Challenged encountered for meeting HKC requirements



Traditional Cutting System in Bangladesh Ship Recycling Industry

(Image Source NGO Ship Breaking Platform)

Challenged encountered for meeting HKC requirements

Secured
Falling of Cut
Block



Change of Cutting System – Maintaining Ship Bottom as Impermeable Floor

Facility Development Information

Ship of Adjoining Facility



Change of Cutting System – Maintaining Ship Bottom as Impermeable Floor

Challenged encountered for meeting HKC requirements



Pulling of Ship on Impermeable Floor

Challenged encountered for meeting HKC requirements



Handling Oily Block at Intertidal Zone

Jan 1, 2023 1:06:30 PM

Challenged encountered for meeting HKC requirements



Handling Boiler at Intertidal Zone

Jan 2, 2023 3:17:43 PM

Challenged encountered for meeting HKC requirements



Transferring and Use of Equipment on Ship for Material Handling

Challenged encountered for meeting HKC requirements



Handling of Main Engine Related Parts

Challenged encountered for meeting HKC requirements



Non-availability of TSDF and Downstream Waste Management

Challenged encountered for meeting HKC requirements



Non-availability of Authorized Recycler (Recyclable Waste)

Challenged encountered for meeting HKC requirements



Controlling / Managing the waste generated / dumped by Other SRF

Challenged encountered for meeting HKC requirements



Controlling / Managing the waste generated / dumped by Other SRF

Challenged encountered for meeting HKC requirements



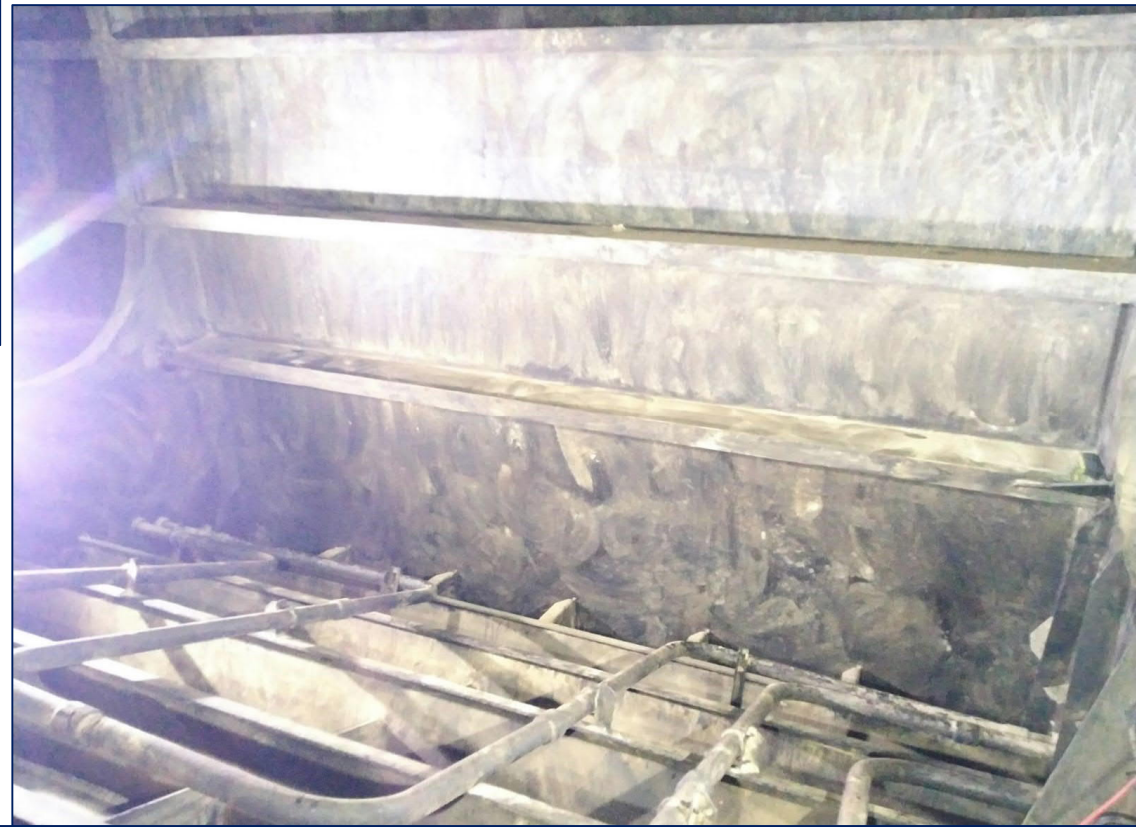
Decontamination of Bunker Storage Tanks

Challenged encountered for meeting HKC requirements



Decontamination of Bunker Storage Tanks

Challenges encountered for meeting HKC requirements



Decontamination of Bunker Storage Tanks

Tank Cleaning Process

58/116



Tank Cleaning Process

60/116



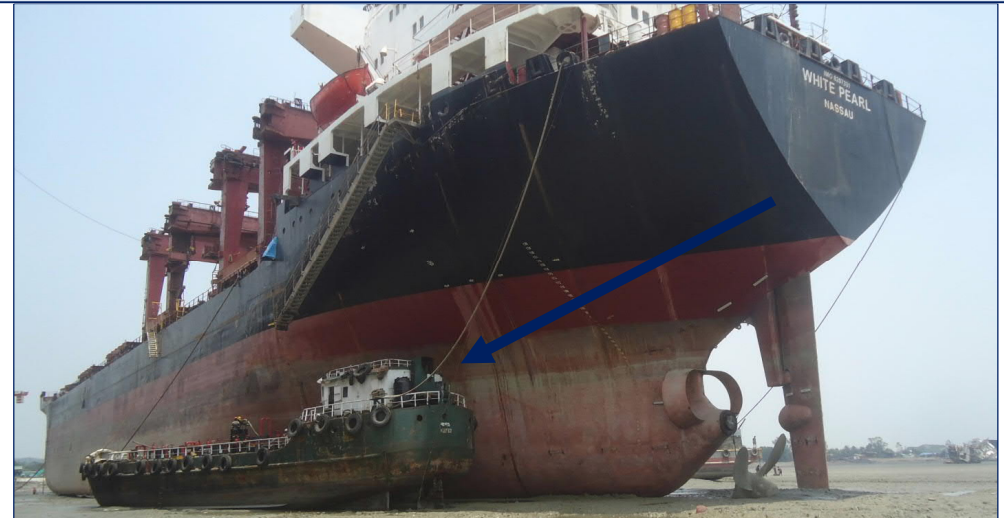
Challenged encountered for meeting HKC requirements



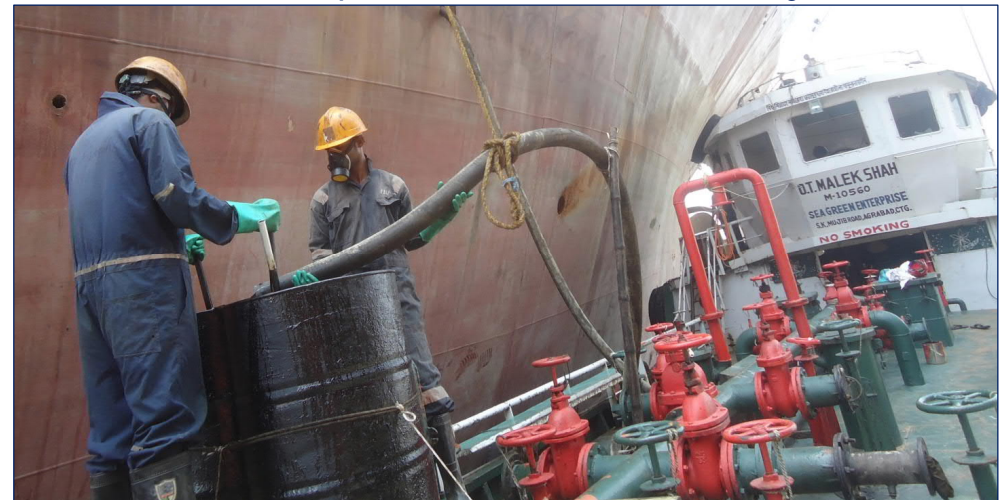
Oily Piece Cleaning Mechanism after receipt of Oil Block received from Ship

Challenged encountered for meeting HKC requirements

Traditional way of Bunker Delivery



Present practice of Bunker Delivery

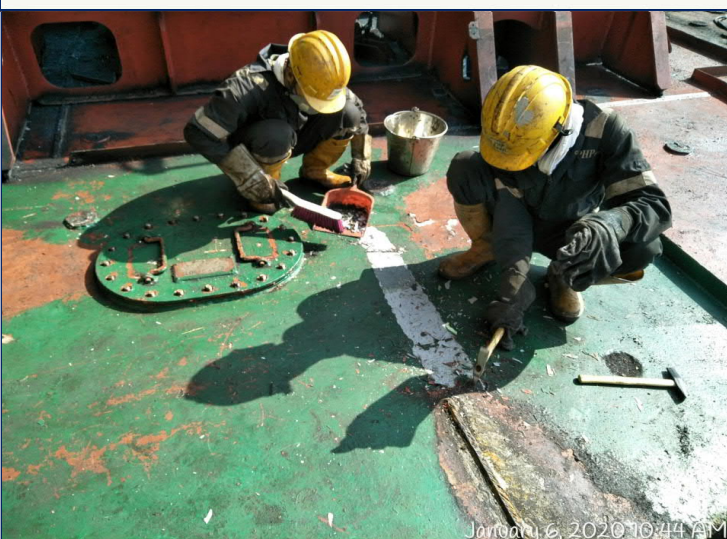


Bunker Delivery through Lighter Vessel (Small Tanker)

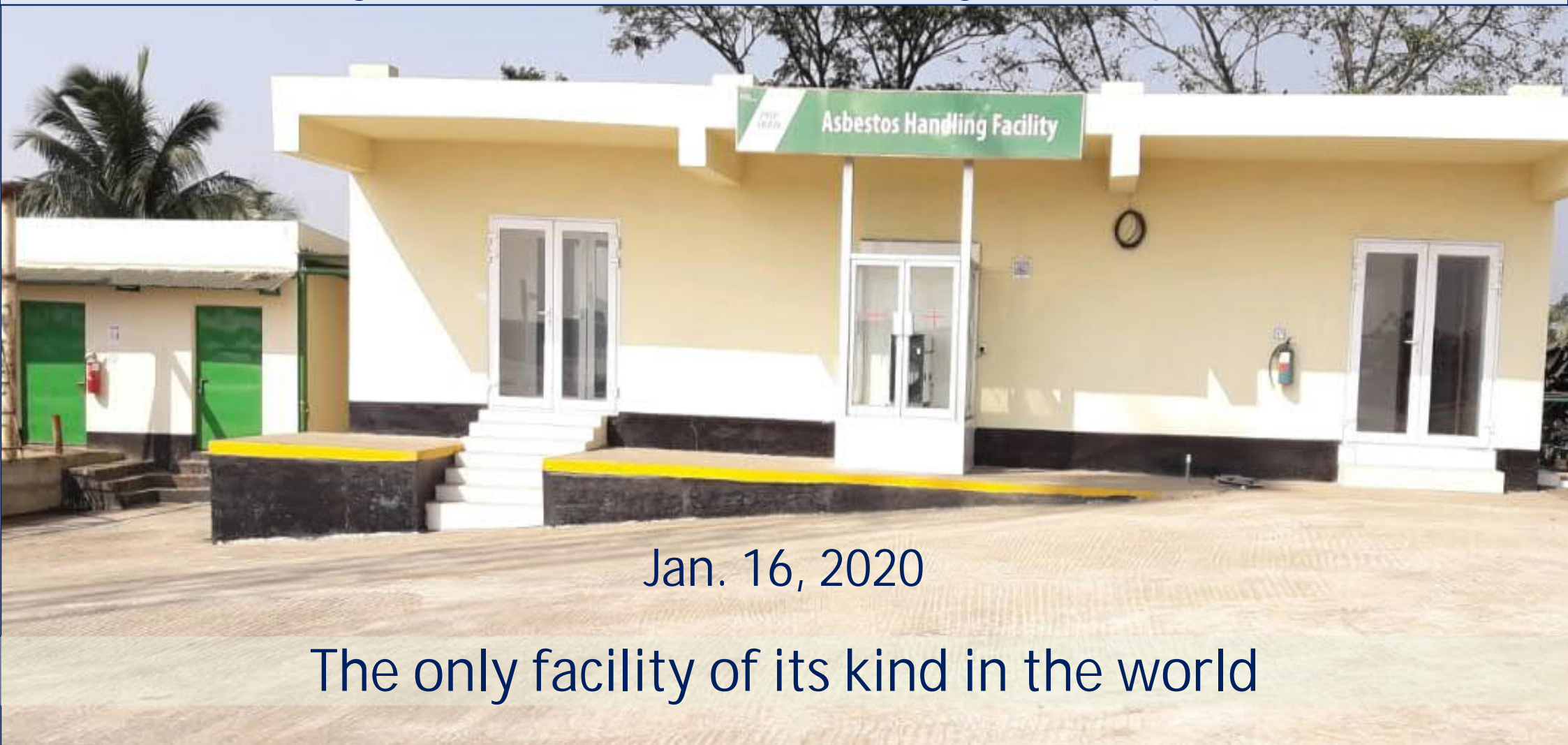
Challenged encountered for meeting HKC requirements



Paint Chips removal from Cutting Line



Challenged encountered for meeting HKC requirements



Jan. 16, 2020

The only facility of its kind in the world

Non-availability of Asbestos Handling Equipment in the country

Challenged encountered for meeting HKC requirements



Lack of Competent Manpower

Challenged encountered for meeting HKC requirements

Oct. 13, 2019



Bringing Competent Trainer from different Part of the world (USA)

Challenged encountered for meeting HKC requirements



Bringing Competent Trainer from different Part of the world (Germany and India)

Challenged encountered for meeting HKC requirements



Certificate

Fully Approved HazMat Expert

Reg. No.: 144345784

This is to certify that

Mr. Dharmesh Jani

Has successfully completed the seminar "Approved HazMat Expert" and the witnessing audit for the final approval. The participant has demonstrated the competence to prepare an "Inventory of Hazardous Materials" (IHM) with reference to following:

- Hong Kong International Convention for the Safe and Sound Recycling of Ships 2009
- EU Ship Recycling Regulation (EC 1257/2013)

Seminar "Approved HazMat Expert" Place, Date, Signature: Bhavnagar, 2016-08-11 Gerhard Aulbert
DNV GL Representative

Successful witnessing Place, Date, Signature: Hamburg, 2022-07-19 Khalid Mahmood
DNV GL Representative

This certificate is valid until: 2025-08-09

Issued at Hamburg, 2022-07-19

This certificate is subject to a revalidation every three years.

First Revalidation Place, Date, Signature: _____
DNV GL Representative

Second Revalidation Place, Date, Signature: _____
DNV GL Representative

Khalid Mahmood

Doc. 032-03

Competent Team

The only
Ship Recycling Facility
in South East Asia
having team of
Fully Approved
HazMat Expert

(Certificate
Valid up to
Sept. 08, 2025)



Certificate

Fully Approved HazMat Expert

Reg. No.: 144345779

This is to certify that

Mr. Liton Mazumder

Has successfully completed the seminar "Approved HazMat Expert" and the witnessing audit for the final approval. The participant has demonstrated the competence to prepare an "Inventory of Hazardous Materials" (IHM) with reference to following:

- Hong Kong International Convention for the Safe and Sound Recycling of Ships 2009
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First Revalidation Place, Date, Signature: _____
DNV GL Representative

Second Revalidation Place, Date, Signature: _____
DNV GL Representative

Khalid Mahmood

Doc. 032-03

ClassNK Visit for Review of Assessment activities – Sept.30, 2019



ClassNK Visit for Facility Assessment – Nov. 27 & 28, 2019



ClassNK Visit for Facility Assessment – Nov. 27 & 28, 2019



PHP Team Visit to ClassNK – Tokyo (Japan) – July 25, 2022



Visit by Team from Japanese Shipowners' Association and ClassNK at PHP SBRIL on April 19, 2019



Thank you

HONG KONG CONVENTION COMPLIANT
PHP Ship Breaking & Recycling Industries Ltd.
First Green Ship Recycling Facility in Bangladesh

