DANWATCH

MAERSK AND THE HAZARDOUS WASTE II



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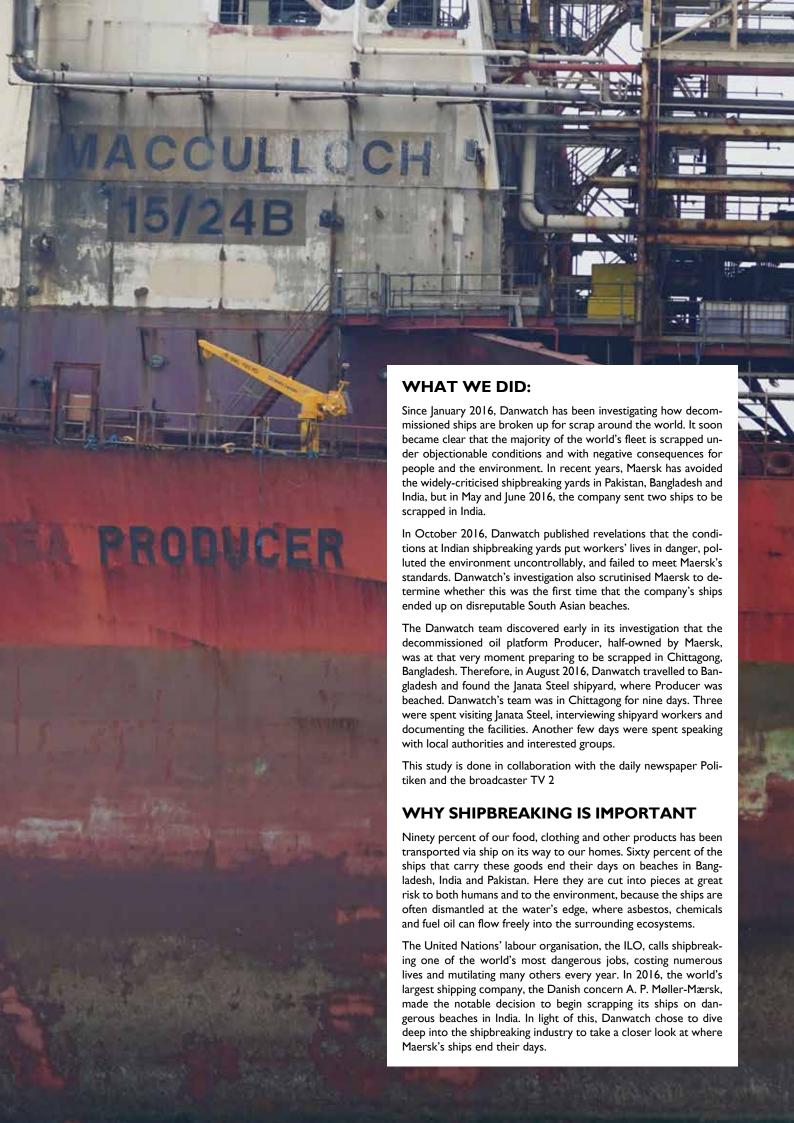
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Another Maersk ship is sailed to dangerous shipbreaking yards

Danwatch is once again able to document that another Maersk ship is being scrapped at a dangerous shipyards, this time in Bangladesh, where conditions are much worse than in India. Torch cutters work in bare feet and without protection from dangerous gasses. Maersk denies responsibility, but admits to Danwatch that it has failed.

The shipyard workers at Janata Steel in Chittagong in southeast Bangladesh prepare to cut up the decommissioned Maersk ship Producer, which after thirty-two years of service in the North Sea has been sold for scrap.

Shipbreaking has been called one of the world's most dangerous by the International Labour Organisation, an arm of the United Nations. Last week, Danwatch documented how Maersk is currently scrapping two ships at a hazardous shipbreaking yard at Alang beach in India, a practice that is expected to earn the company \$150 million over the next five years.

In this investigation Danwatch in collaboration with Politken and TV 2 showed that Maersk has another ship at a far more dangerous shipyard in Bangladesh that experts and professionals have called the one of the world's worst place to dismantle ships. Maersk has for several years distanced themselves from the shipbreaking industry in Bangladesh.

According to the international workers union IndstriAll the ship-breaking yards in Bangladesh are ten years from achieving the same standards as the yard in Alang, India, where two Maersk ships are currently being scrapped. Seventeen workers have lost their lives at the Chittagong shipbreaking yards in Bangladesh this year alone.

Unskilled shipyard workers at Janata Steel are getting ready to break the Maersk ship Producer. They will use torch cutters to break ships into pieces in bare feet while lacking even the most basic necessary protective equipment like shoes, helmets, and respirators to protect them from deadly accidents and potentially deadly gasses, asbestos, and radiation.

"There is nothing we can do," says Annette Stube, director of sustainability at Maersk, emphasising that the company "really, really regrets that this happened."

But the ship is no longer Maersk's responsibility, she says, assigning blame instead to the middleman who bought the ship from Maersk and sent it to be scrapped at Janata Steel.

Lawyer: Maersk has a responsibility

Maersk may not be liable according to the law, but it is responsible according to international conventions and guidelines, says Poul Hauch Fenger, a lawyer with long experience in Danish and international criminal and human rights cases at the United Nations and the European Union.

"It's just so unbelievably convenient in business situations to be able to transfer liability to an intermediary. But Maersk has a responsibility to respect workers' rights and the environment in every link of their supply chain. That's all there is to it," says Fenger.

Maersk also admitted to Danwatch that the company neglected its obligations with respect to the UN's Guiding Principles in this case.

About the North Sea Producer

The Producer is a so-called floating storage, production and offloading (FSPO) unit that has carried oil in the North Sea since 1984, and has been owned and operated by Maersk under a variety of business configurations.

It was originally built in 1984 as an oil tanker with the name Maersk Dagmar at the Lindø Shipyard in Odense. In 1997, it changed its name to the North Sea Producer and its function to an FPSO unit, a floating production and storage facility. As it did so, the ship's operational responsibility was transferred to a firm called the North Sea Production Company, which was owned in equal parts by Maersk and an international firm called Odebrecht.

The Producer is 332.9 m. long, which is roughly equivalent to three football fields. The ship weighs 276,000 tons, equivalent to 500 Airbus 380, the world's largest airliner.

In its time as a floating oil platform the ship could produce up to 76,000 barrels of oil each day and had a total capacity of 560,000 barrels of oil.

Producer operated at sea depth of 147 meters. Producer space for a crew of 73 man.

North Sea Production Company Limited sold the North Sea Producer in April 2016. In August 2016, the ship was sold for scrap to Janata Steel in Bangladesh for nearly 45 million of by GMS, the world's largest cash-buyer for ships for scrap. In connection with the sale, the ship changed name to Producer. The vessel was sold as a 'dead vessel' and pulled by a tug from England to Bangladesh, where it is now being scrapped.

Sources: www.solarshipping.net, http://shipandbunker.com/news/features/risk-management/698729-weekly-vessel-scrapping-report-2016-week-32, http://cpa.gov.bd/, http://www.odebrechtonline.com.br/materias/01301-01400/1343/, www.maersk.com/en/hardware/fleet



The stranded Producer seen from the bow. At the top is the floating olieplatforms helipad. It all must now be scrapped in the tidal zone. Photo: TV 2



It must be some kind

of joke that anyone could

think that the work at

that shipbreaking yard

Delft University of Technology

Kong Convention

complies with the Hong

- Janu Kain, maritime engineer at

Risk of accident everywhere

Danwatch visited the Janata Steel shipyard at the end of August, one day after the Producer was sailed onto the beach at Chit-

tagong. Danwatch took video recordings from the shipyard, interviewed fourteen shipyard workers, and presented the working conditions thus documented to a series of experts to obtain their professional evaluation of the circumstances at Janata Steel.

One of these experts was former director of oversight and lead consultant at the Danish Working Environment Authority Hasse Mortensen, who has years of experience inspecting shipyards.

After viewing the video material from the shipyard, he says, "The first thing I notice is the high risk of accident at the yard. There is imminent danger of accidents in many places where the employees are

working and walking. Tubes carrying gas and oxygen lie unprotected on the ground, where they could be damaged by falling objects or vehicles, and sparks from torch cutting, which can lead to fire or explosion. Then there is the workers' clothing. Bare feet do not have any place at a shipyard. These are not proper conditions for human beings."

Life-threatening shipbreaking

With its serious breaches of regulations governing responsible shipbreaking and workers' rights, along with improper handling of hazardous waste, the shippards at Chittagong are among the most dangerous in the world, according to experts and advocacy organisations.

There are no official records of work-related accidents and

deaths among shipyard workers in Chittagong, but the international labour union IndustriAll and the advocacy organisation Shipbreaking Platform estimate that there are more than 20 serious accidents per year at the shipyards. So far in 2016, Shipbreaking Platform has recorded 18 accidents, in which 17 shipyard workers lost their lives on the job.

One of the fatal accidents occurred in February of this year at Janata Steel, where the Maersk Producer is now being scrapped. One worker died in the accident, according to Shipbreaking Platform's accident tally.

Working conditions at Janata Steel are not only dangerous, they contravene nation-

al and international law. Shipyard workers at Janata Steel like those Danwatch interviewed work 10-12 hours a day, six days a week, for a wage of about \$4.50-7.50 per day.

None of the fourteen workers interviewed by Danwatch for this investigation had a contract, health insurance, or the right to a day off with pay.

Shipyard does not meet Maersk's minimum standard

Few days after the Producer is beached at Chittagong, Maersk wrote to Danwatch in an email that the company regretted that the Producer was being scrapped in Bangladesh. At the same time,



Workers at Janata Steel yard, where Maersk's floating oil platform Producer is right now been scrapped. Their work clothes is not up to the ILO or Maersk's own standards for safe shipbreaking.

Maersk said that it had placed requirements for responsible ship recycling on the intermediary who bought the ship and sold it for scrap to Janata Steel.

According to Maersk, the intermediary had "confirmed in writing that the shipbreaking would be carried out in compliance with the Hong Kong Convention, and that the shipbreaking yard meets the Convention's requirements."

The Hong Kong Convention is meant to ensure responsible ship recycling, along with the protection of human beings and the environment. Maersk's official stated policy says that they will not send ships to be scrapped at shipyards that are not certified in accordance with the Hong Kong Convention, which the company calls a "minimum standard."

About the Hong Kong-konventionen

- The Hong Kong Convention is a global agreement adopted by the United Nations' International Maritime Organisation. Its purpose is to ensure that shipbreaking does not entail unnecessary risks to people or the environment.
- The Convention has not yet come into force, since this requires its ratification by at least fifteen countries.
- So far, only five countries (Norway, France, Belgium, Panama and Congo) have ratified the Convention.
- According to the Danish Minister for Environment and Food Esben Lunde Larsen, Danish ratification, which Maersk has been advocating, is in process..

Sources: IMO, The Danish Environment and Food Ministry

Asked what guarantee Maersk has that the intermediary will uphold the Convention, director of sustainability Annette Stube answered, "We have asked the buyer to document that the shipbreaking upholds the Hong Kong Convention, but we have not yet received that documentation."

According to several experts that Danwatch spoke with, none of the approximately eighty shipbreaking yards in Chittagong currently meets the requirements of the Hong Kong Convention.

Kanu Jain is a maritime engineer at Delft University of Technology in Holland, where he studies shipbreaking. He is well acquainted with the Hong Kong Convention, and reviewed Danwatch's video and photo documentation from Janata Steel.

"It must be some kind of joke that anyone could think that the work at that shipbreaking yard complies with the Hong Kong Convention," says Jain. "There are breaches of a number of the Convention's most basic regulations, which make worker protection against accidents and health risks mandatory. That shipyard is a long way from meeting the demands of the Hong Kong Convention."

Department of Inspection is mystified

At the Chittagong office of the country's Department of Inspection for Factories and Establishments (DIFE), a senior director who asked to remain anonymous is also mystified by the idea that the shipbreaking yard meets the standards of the convention.

"No shipyard in Chittagong is 100 percent compliant with national laws. Even the few good shipyards in Chittagong fail to fully abide by applicable national laws or the Hong Kong Convention's requirements," he says.

Susan Wingfield is a Programme Officer at the United Nations

Environmental Programme (UNEP) Secretariat of the Basel, Rotterdam and Stockholm Conventions: the global agreements on chemicals and waste. She has been involved with the shipbreaking industry in South Asia for over 10 years, and has made nu-

merous field trips to Bangladesh. Wingfield co-authored the 2010 World Bank report, "The Shipbreaking and Recycling Industry in Bangladesh and Pakistan," which looked at the economic and environmental realities of the shipbreaking industry in these countries.

Six years after that report, in Wingfield's judgment the Chittagong shipyards in general still fail to live up to the requirements of the Hong Kong Convention. "Without suitable downstream infrastructure for the disposal of hazardous wastes from shipbreaking activities, yards in Chittagong

could not meet the standards of the Hong Kong Convention, in spite of any improvements made on site," she contends. Such infrastructure for the disposal of hazardous wastes is yet to be developed in Bangladesh.

She declined to comment on Maersk's business practices or the specific shipyard in question.

The official at DIFE and Susan Wingfield both explain that a few individual shipbreaking yards have taken steps forward in recent years. Janata Steel is not one of the yards they single out as improving their practices.

"In my professional opinion, none of the shipyards in Chittagong is in compliance with the Hong Kong Convention," says Wingfield. She explains that a key requirement of the Convention is the presence of disposal systems for hazardous waste like asbestos, chemicals and oil.

"There is no system for this in Chittagong or in Bangladesh generally, so even if a shipyard has a facility to store hazardous waste, that is insufficient, since there is no way to dispose of it responsibly," she explains.

The assessments of these experts were confirmed by the Bangladeshi Ministry of Industries. In February of this year, the Ministry's joint secretary, Yasmin Sultana, participated in a London conference on shipbreaking together with Mohammed Zahirul Islam, a representative of the Bangladesh Ship Breakers Association.

During the conference, both representatives declared that Bangladesh was not yet ready to ratify the Hong Kong Convention, since the country's shipbreaking yards do not currently meet its requirements. Islam estimated that it would take five years and a multi-billion-dollar investment to bring the country's shipbreaking industry into compliance with the Convention.



The shipyard says that we are responsible for buying our own protective equipment

- Abdullah Anwar, shipyard worker at Janata Steel

Maersk: A shipyard is no place for flip-flops

There are about eighty active shipbreaking yards in Chittagong, and they are known for being among the most dangerous and most polluting shipyards in the industry. In Bangladesh, the ships are sailed

onto the beach at top speed until they are grounded, and then they are broken up by hand on the beach itself, with only limited mechanical help. This shipbreaking practice is called "beaching", and it has been criticised for years by experts, environmental organisations, and even Maersk itself.

"People in-flip flops on beaches are OK. But people on beaches wearing flip-flops and no safety gear while taking apart massive cargo ships with hand tools is simply wrong," wrote Jacob Sterling, Maersk's former director of sustainability, in a 2013 blog post expressing the company's opinion of

beaching in Bangladesh.

When a ship is grounded on a beach, a large quantity of its toxic hull paint is scraped off the bottom and washed out into the ocean

Beaching i Bangladesh

Bangladesh's Chittagong Beach and India's Alang Beach are the world's two largest recipients of ships destined for the scrap heap. In Chittagong, the 'beaching'-method is used, in which ships are sailed toward the beach at top speed when the tide is highest and stranded there. Once the tide recedes, the shipbreaking can begin.

The tidal range at Chittagong is six metres, and the beach is very flat. This means that the ships are often beached at a significant distance from the shipyards. The sandy bottom is soft and muddy, and difficult to navigate for large machinery like cranes.

When a ship is stranded, it is first emptied of liquids and gasses, along with any machinery or inventory that can be reused and sold. Then most of the ship's hull is cut into pieces manually, with the help of cutting torches. Large sections are cut loose and fall onto the sand. From here they are either transported to the shipyard using a capstan or crane, or they are cut into smaller pieces and pulled ashore by hand. Once the smaller pieces are on land, they are cut into smaller pieces and sorted again so they can be sold for melting down or rolling into sheet metal.



"Bare feet belong nowhere in a shipyard. These are not proper conditions for human beings," says Hasse Mortensen, former supervisory manager and chief consultant for WEA.

ecosystem. Then the ship is gradually cut into smaller pieces with the help of torch cutting, an extreme high-temperature process that cuts through steel with pure oxygen. To cut a ship's hull into smaller pieces, the "gravity method" is used, which means that pieces are allowed to fall directly onto the beach. Beaching can also lead to large emissions of dangerous gasses, chemicals, oil, asbestos, etc.

The documentation Danwatch collected on its visit to Janata Steel shows unskilled workers at the shipyard barefoot or in sandals, and while most workers are wearing helmets, most of those Danwatch saw using torches do not wear respirators. According to Abdullah Anwar, this is because they must buy the masks themselves.

"The shipyard says that we are responsible for buying our own protective equipment. They have a few helmets and boots available, but we have to buy most of it," he says.

The other thirteen workers interviewed by Danwatch at Janata Steel say the same.

At the Department of Inspection for Factories and Establishments in Chittagong, the shipyard's requirements of their workers do not come as a surprise.

"My inspectors see the same problem. It is a violation of Bangladeshi labour laws, which require employers to equip their workers with the personal protective equipment appropriate to the job," says the DIFE official.

"Shipbreaking is a dangerous industry. In principle, no one without safety equipment like safety shoes and helmets should even be allowed to come through the door of a shipyard," he said.

Anonymity

Several sources in this investigation preferred to remain anonymous. In addition, in the interest of their safety, Danwatch changed the names of the shipyard workers. The real names of all our sources are known to Danwatch.

Shoes are the least of his problems

Abdullah Anwar and his colleague Ali Hassan both use torch cutters at Janata Steel. Hassan wears rubber boots and long pants, while Anwar has bare feet and ragged pants that reach only to his knees. But his lack of shoes is the least of his problems.

Both men say that they sometimes work up to fifteen hours a day, torch cutting steel both inside and outside the ships without respirators. The device used for torch cutting mixes oxygen and gas to produce a flame that reaches 1500°C.

"When we're cutting inside the ships, I frequently get dizzy and have to take many breaks to go outside and get fresh air. I often come home with a headache," says Anwar.

Hassan indicates a ragged cloth around his neck, saying, "The shipyard doesn't give us masks. We use an old scarf."

Former shipyard inspector Hasse Mortensen explains what happens to steel during torch cutting. "When you are torch cutting in black steel, which most ships are made of, microscopic particles and gasses are given off that are hazardous to inhale. If workers

are not properly protected, it can have serious effects on the body. To effectively protect workers against dangerous gasses and particles, workers who do torch cutting in Denmark are provided with respirators attached to an air supply that brings in fresh, filtered air."

It shows an atrocious lack of respect for the workers

- Hasse Mortensen, former shipyard inspector at the Danish Working Environment Authority

Explosions and other acute risks

Jane Frølund Thomsen is a senior consultant with the Department of Occupational and Environmental Medicine at Bispebjerg University Hospital. She explains that torch cutters have a higher risk of respiratory

problems like chronic obstructive pulmonary disorder (COPD) and bronchitis because they are breathing in various particulates and gasses.

Upon hearing the workers' stories of torch cutting without respirators in unventilated rooms in the big ships, Dr Frølund Thomsen says, "A mask doesn't protect you – it doesn't filter out smoke or toxic gasses at all. If the workers perform torch cutting in a confined space without respirators or an exhaust mechanism, they are exposed to major health risks, including an acute risk of fatality."

Dr Frølund Thomsen went through the photo and video documentation Danwatch collected at Janata Steel and believes that its workers are also vulnerable to fire and to infection.

"I can see from Danwatch's videos that some of the workers are without shoes or wear only sandals. They are exposed to large and small risks of burns from torch cutting sparks. If they do sustain burns, they are also at risk of infection given their working environment, where they walk in soil, mud and other filth," says Dr Frølund Thomsen.

About Maersk

- Maersk was founded in 1904 and has its global headquarters in Copenhagen.
- Maersk owns and operates 605 vessels
- The company's annual revenue in 2015 was \$40 billion
- Maersk's fleet is currently valued at \$12.8 billion. For comparison, the value of all Danish shipping put together is \$21.4 billion.
- The company operates in over 130 countries and employs approximately 88,000 people.

Source: www.maersk.com, VesselValue



View from Janata Steel yard. Seen in the background is Producer, which is stranded about 300 meters away in the tidal zone and is waiting to be broken up.



 $\label{thm:continuous} There \ are \ no \ safety \ lines \ or \ fall \ protection \ for \ workers \ when \ they \ climb \ aboard \ the \ Producer.$

Bangladeshi law, the Hong Kong Convention and Maersk's own policy regarding responsible shipbreaking all make clear that it is the shipyard's obligation to ensure that all its workers are protected and that they use personal protective equipment.

During one of its two visits to the Janata Steel shipyard, Danwatch met a worker whose injured hand was covered in a blood-stained bandage.

"I cut my hand three days ago," he says, and goes back to work. He is wearing sandals and shorts that do not even reach his knees.

Expert: "Words fail me"

Hasse Mortensen, the former shipyard inspector at the Danish Working Environment Authority, also looks through Danwatch's videos and photos from Janata Steel. Mortensen watches in one video as four workers climb a rope ladder up the side of the Maersk Producer without safety harnesses or other fall protection, and then lift a gas canister after them with a rope.

"I am looking at people that are in no way equipped for the job they are doing. Not the slightest consideration has been taken for their safety. This shipyard does not meet the standards of an acceptable

workplace environment. Words fail me. It shows an atrocious lack of respect for the workers," says the former workplace inspector.

Maersk: "We really regret it"

On the harbourfront in Copenhagen, Maersk's director of sustainability, Annette Stube, explains that Maersk is not familiar with the shipyard where the Producer is now being scrapped. Danwatch presents her with its photo documentation from Janata Steel.

"My immediate reaction to these pictures is that the shipyard does not comply with the Hong Kong Convention. As I said, we really, really regret that the ship ended up in Bangladesh," Stube says.

"It is very important to us that our ships are scrapped under proper conditions. We make a big deal out of ensuring that the standards are in order where we scrap our ships. We still disapprove of shipbreaking in Bangladesh, but it is not our responsibility.

ILO requirements for Shipbreaking

The International Labour Organisation of the United Nations has drafted guidelines for safety in shipbreaking in Asia and Turkey that are in several respects much more detailed than the Hong Kong Convention or Bangladeshi law. According to these guidelines, the employer should have overarching responsibility for occupational health and safety. The ILO's guidelines describe how safety helmets ought to be worn by everyone present on the shipyard, and how safety glasses or the like should be used when there is a risk of eye or facial injury – especially in conjunction with welding and torch cutting. Furthermore, the guidelines say that respirators should be used when workers cannot be protected in any other way from airborne dust, smoke, vapours or gasses.

Source: Hong Kong Convention, ILO's "Safety and Health in Shipbreaking: Guidelines for Asian Countries and Turkey", and The Shipbreaking and Recycling Rules-2011.

It is the responsibility of the buyer who sent the ship to Bangladesh," maintains Stube.

Maersk fails UN principles

Maersk has joined the United Nations' Global Compact, ten principles for corporate social responsibility that encourage businesses to take precautions to prevent environmental impacts and to respect human rights. Maersk is not only a member of the Global Compact; it belongs to Global Compact LEAD, an exclusive group of sustainable businesses that serve as representatives of the Global Compact.

We still disapprove of shipbreaking in Bangla-desh, but it is not our responsibility

- Annette Stube, Sustainability Manager Maersk In addition, Maersk maintains that the company's policies are based on the United Nations' Guiding Principles for Business and Human Rights. According to these guidelines, businesses are responsible for negative effects on human rights and the environment that can be linked to their actions and supply chains, even when a business has not committed such acts directly.

Human rights lawyer Poul Hauch Fenger believes it is "absolutely clear that the United Nations' Guidelines for Business and Human Rights are being violated in this case."

As Fenger puts it, "Whatever Maersk may

say, it has a responsibility and an obligation to investigate its business partners. You cannot just take it on faith when a middleman says that all regulations will be upheld, especially when that middleman is doing business with shipyards that are known to violate human and workers' rights."

Even though Maersk refuses to accept responsibility for the fact that the Producer is being dismantled at a shipyard that it finds objectionable, the company admits that it could have done a better job in crafting its contracts with buyers to ensure the ships are scrapped responsibly.

Maersk was willing to provide evidence that Maersk required the responsible scrapping of the Producer.

Hong Kong Convention demands on safety

According to the Hong Kong Convention, shipbreaking facilities must guarantee access to and maintenance of necessary personal protective equipment and clothing. It is the shipbreaking facility that must ensure both that workers have the safety equipment they need, and that they actually use the equipment.

Bangladeshi law sets out a number of requirements regarding worker safety in The Ship Breaking and Recycling Rules-2011, Chapter 4. These rules state that shipyards must provide workers with safety equipment like head protection, face and eye protection, hand and foot protection, respirators and hearing protection, along with safety harnesses and helmets when working at heights. In the case of torch cutting, a shipyard owner may only hire workers certified in torch cutting, and these workers must be outfitted with suitable masks so they do not inhale poisonous gasses. According to the law, it is the shipbreaking yard's responsibility to equip its workers with safety equipment.

Shipyard workers break up Maersk oil ship in bare feet

Over the next few months, workers at one of the world's most dangerous shipyards in Bangladesh will break up a Maersk oil ship. The ship is being cut up by workers in bare feet under life-threatening conditions, while Maersk renounces responsibility.

"That is a difficult ship to cut," says an older worker, pointing to the newly-arrived ship Producer, which is grounded about 300 metres from the edge of the beach. On the deck of the 236 metre-long red ship is both a helicopter landing pad and a large crane. Aside from these, from the ship the ship looks similar to the other giant ships stranded at the Janata Steel shipyard in Chittagong, Bangladesh.

"No, no, it's very different from the other ships." The worker attempts to explain, but the explaination gets lost in translation. Finally, the worker accepts defeat in the face of his and the translator's limited technical vocabulary and says simply, "There are many, many pipes. Oil ship."

The difficult ship that the worker is trying to describe is the Producer, a decommissioned oil platform that until spring 2016 was called the North Sea Producer, owned by Maersk and the international firm Odebrecht.

Earlier in the year, the Producer was declared a "dead vessel" after 32 years of service in the North Sea. Last summer, it was towed from northern England to Chittagong in the Bay of Bengal. This followed the sale of the ship by Maersk and Odebrecht. In August the Janata Steel shipbreaking yard bought the ship from the world's largest cash-buyer of ships for recykling, GMS, according to VesselsValue, an agency which provides shipping data.

The older ship worker who welcomed Danwatch on the

Janata Steel Corporation

The full name of the shipyard that purchased the Producer from GMS is Janata Steel Corporation, which is owned by the Habib Group.

shipyard's beach estimates that he and his colleagues will begin the shipbreaking of the Producer in a few weeks. At first glance, he doesn't look much like a shipyard worker in his sandals and sleeveless t-shirt. But he is, and a seasoned one at that, with fifteen years of experience – the last six of them at Janata Steel.

Asked where his protective equipment is, he says, "We don't use any."

Maersk has bad news

Two days after we find the Producer on the beach at Chittagong, Maersk writes an email to Danwatch. The company is aware that Danwatch is investigating the shipbreaking industry in South Asia. Whether the company knows Danwatch is Chittagong remains unknown. Maersk has recived bad news, it says in the email.

"Unfortunately, one of our joint venture-owned ships has been beached in Bangladesh."

For many years, Maersk has distanced itself from the widely-criticised beaching method, in which a ship is sailed at full speed onto the beach so that it can be dismantled directly in the intertidal zone

Shipbreaking and sustainability

90 % of the world's goods are transported to consumers by ship. The world's merchant navy consists of 89,724 ships. These ships have an average lifespan of between 25 and 30 years, and in 2015, 768 ships were recycled. Even though shipbreaking can be hazardous to both humans and the environment, it is still the most sustainable way to dispose of decommissioned ships, since nearly the entire ship can be reused.



Producers iconic crane protrudes among the many stranded ships along the Chittagong beach. The used oil platform is over 300 meters long and has a deadweight of 99,800 tons.



and which is used in Bangladesh. In so doing, toxic paint is scraped off the bottom of the ship and released into the water and sand, while chemicals from the ship flow freely with the tide out into the sea.

Maersk regrets that the Producer now lies on a beach in Chittagong, says Annette Stube, director of sustainability for Maersk,

Maersk's standard:

"As a United Nations Global Compact member, the Maersk Group is committed to conduct business in an ethical, legal and socially responsible manner. As such, the RSRS (Responsible Ship Recykling Standard) reflects our respect for universally recognised normative standards such as the United Nations Universal Declaration of Human Rights and the core labour conventions of the International Labour Organisation. Furthermore, the Maersk Group supports the ratification of the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships. We will therefore act in accordance with the convention, in order to prevent, reduce, minimise and, to the extent practicable, eliminate accidents, injuries and other adverse effects on human health and the environment caused by ship recycling operations."

Source: Maersk's Responsible Ship Recycling Standard, April 2016

when we meet her some weeks later at Maersk's headquarters in Copenhagen. The company has not made adequate demands regarding the responsible scrapping of the Producer, she recognizes.

"We regret that the ship ended up in Bangladesh, because it is not in accordance with the standard that we believe should govern the scrapping of all ships."

The disparity between conditions in Chittagong and the lofty workplace safety standard to which Stube refers is easy to spot at the Janata Steel shipyard. It's a long way from the numerous workers Danwatch met who had neither shoes, helmet nor masks to Maersk's slogan "We live safety," the meaning of which is expounded on the company's website.

"We want our employees and contractors to be out of harm's way at work, and their families to trust that we'll bring them home. And we want our customers and partners to be confident that we strive to keep lives and assets out of risk, no matter where they are."

Radioactivity and asbestos

At Janata Steel, we meet fourteen workers, all of whom have a hard time describing exactly what kind of ship the Producer is. Many of them call it a "difficult ship," though. Shipyard manager Keld Kokhom of Fornæs Shipbreaking in Grenaa, Denmark, agrees. He explains that cutting up a decommissioned floating oil platform like the Producer is so hard that, "we can't manage it in Denmark, because we have nowhere to dispose of the radioactive material that can be present on a ship like that."



Shipyard Workers in full swing at Janata Steel yard. They receive neither safety training or instruction in the health risks associated with work, they say,

"The shipbreaking of a floating oil platform involves totally different and much greater requirements with respect to safety, cleanup, and the environment. It's a much bigger job to cut up a ship like that than a container ship. There are more technical systems, pipes and inventory."

In Oslo, Sigurd Enge, who is responsible for shipping, oil and the Arctic at the Norwegian environmental organisation Bellona, says that a floating oil platform is like an industrial plant.

"A beach in Bangladesh is really the last place a floating oil platform should be scrapped. The shipyards in Chittagong are not at all equipped to perform responsible shipbreaking when it comes to safety and the management of hazardous waste," says

There are neither local nor national systems in place in Bangladesh to dispose of hazardous waste, according to both the

Bangladeshi government and the Bangladesh Shipbreakers Association, the domestic trade association for shipyard owners.

Danwatch made repeated attempts, without success, to contact Aman Uddin, the owner of Janata Steel. Danwatch hoped to ask what plan and security procedures the shipyard has with respect to the scrapping of a floating oil platform and the disposal of hazardous waste. We also wanted to ask how workers would be

protected during the shipbreaking of the Producer.

Furthermore, Danwatch asked GMS, which sold the ship to lanata Steel for scrap, how the Producer was cleared of dangerous chemicals, oil and gasses, as well as of any radioactive material be-

> fore the ship was sold for scrap and sailed to Bangladesh. GMS declined to respond to Danwatch's question on the telephone. Neither did GMS respond to Danwatch's written questions before this investigation was published.

We want our

employees and contractors to be out of harm's way at work, and their families to trust that we'll bring them home

- Maersk's website

Flames of I500°C

At Janata Steel, shipbreaking is accomplished manually, with torch cutters. Oxygen and gas are pumped through a device that creates a 1500°C flame that can cut through steel. Because torch cutting emits a number of harmful substances, the law in Denmark requires that workers complete a specialised training programme before they can be cer-

tified. Bangladeshi law also requires some kind of training for torch cutters.

Ali Hassan and Abdullah Anwar are torch cutters at Janata Steel. They tell Danwatch on their lunch break that they have never received instruction in torch cutting, nor have they had any kind of safety training. They began as assistants and over the years were groomed to become torch cutters. Both have been with Janata Steel for six

years, and will soon begin cutting Maersk's oil ship into small pieces to be sold for recycling on the Bangladeshi steel market.

If the shipbreaking of the Producer were carried out according to the prescriptions of Maersk's standard, torch cutters working in confined spaces would be wearing respirators to protect them from poisonous gasses and particulates.

"We have to buy equipment from the shipyard"

Their lunch break over, Anwar and Hassan return to the shipyard. One of them wears rubber boots and the other is barefoot as they enter an area where metal plates, ship screws, wires and gas lines tangle in the mud. Several of their colleagues follow suit. Some wear sandals, others have helmets. Only a few wear coveralls. The work uniform seems haphazard, with the exception of the scarves that nearly everyone wears around their necks.

"We use those to cover our mouth and nose when we're torch cutting and there's

smoke and sparks," says Hassan. Using a respirator, as Maersk's policy requires, isn't possible, he says. "I can't afford one."

Hassan explains, "The shipyard doesn't give us safety equipment. They say we have to buy our own. There are a few helmets and safety glasses at the shipyard, but not enough for all of us. We don't get masks."

One of Hassan's colleagues, Mohammad Chandra, confirms that Janata Steel does not provide its workers with necessary protective equipment.

"We have to buy safety glasses and coveralls from the shipyard if we want them. We aren't given them. There's not water at the shipyard either, we have to bring our own from home. If we ask for water or food, we'll get a reprimand," says Chandra.

Danwatch wanted to ask Janata Steel how it protects its workers from harm, and whether it is true that workers have to buy their own safety equipment. As noted earlier, it was not possible for Danwatch to get in touch with Janata Steel.

Asbestos in the air

Danwatch spoke at the shipyard and in workers' homes with torch cutters and with carriers, whose job it is to remove and carry inventory out of the ships. They live in wood and sheet metal shacks right next to the walls of the shipyard. Three to four workers share a house four square metres in size, where they sleep on reed mats on the floor.

The workers have a hard time describing in detail what is in the ships they are cutting up with their bare hands. They know that the smoke is dangerous, but don't know what it contains. They can tell that it does something to their bodies, though.

"Cough, headache and breathing problems," say several of the workers.

Only one of the fourteen workers Danwatch spoke with knew what asbestos was.

"Yes, yes, asbestos – it floats in the air when we remove the inventory from the ships," says Abdul Mondal, one of the carriers. Mondal has not received training either, whether in safety or the health risks related to his work.

According to Maersk's standards, a shipbreaking yard must have a programme to ensure the safe handling of toxic materials like asbestos, heavy metals and paint. In addition, workers must go through safety training, be informed about relevant health risks, and receive a health exam.

The workers Danwatch spoke to report that they have never received information or training about the dangerous gasses and

heavy metals they work with on a daily basis, or about what these things can do to their bodies.

The number of workers employed by the shipbreaking industry in Bangladesh is unknown, but Norwegian researchers at the International Law and Policy Institute (ILPI) estimated in a May 2016 report that about 40,000 men, the majority of them between ages 18 and 22, work in the eighty active shipbreaking yards in Chittagong,

For seven years, senior consultant Tapan Kumar Nath from Chittagong College Hospital has organised a mobile clinic for the shipyard workers in Chittagong. Dr. Nath points out that the life expectancy of a shipyard worker in Chittagong is about 50 years – 21 years less than the normal life expectancy for men in Bangladesh, which population data from the United Nations and the CIA Factbook put at 71.

Dr. Nath says that the most common health issues that he observes among shipyard workers are respiratory problems and low lung capacity.

"I meet workers with lung capacity as low as 20 percent. Many of these workers have been working on the shipyards for 25 years with dangerous gasses and asbestos. The accidents that kill many workers a year are one thing, but asbestos is the big silent killer. It leads to serious respiratory illness and kills the workers slowly."

"

- Tapan Kumar Nath, consultant at Chittagong College Hospital

The accidents that kill

many workers a year are

one thing, but asbestos is

the big silent killer

Naughty boys and dangerous gasses

At the shipyard, a worker says that things are busy at Janata Steel, as his colleagues all around him use torch cutters on the large metal plates that lie in stacks everywhere. Three boys play a few metres away at the water's edge, climbing up on one of the great propellers that lie half-buried in the sand around the yard.

"Sometimes we get this close to the ships," says one of the boys, stretching out his arms to show the distance with his hands. A metre, give or take. The boys' provocative glances and shy giggles reveal that they know very well they're doing something they are not aloud to. But they have unfettered access to the shipyard, and no one stops them.

In Copenhagen's Sydhavn neighbourhood, Danwatch meets professor Peter Hasle, a leading expert in occupational environment with the Centre for Industrial Production at Aalborg University's Copenhagen campus.

Prior to our meeting, Hasle has had a chance to read Maersk's standards for responsible shipbreaking, and to compare them to the Hong Kong Convention and to Danwatch's photo and video material that includes images of Hassan and Anwar at Janata Steel.

"It looks like the workers at the shipyard have walked straight in off the street. They are wearing ordinary, everyday clothing,

Shipbreaking in Bangladesh by the numbers

Beaching of ships in Bangladesh started in earnest in the 1980s, propelled by the demand for recycled steel. In 2015, 194 ships were broken in Bangladesh, where there are about eighty active shipbreaking yards. Recycling the metal and steel from the ships reduces the need to import steel. Based on data from 2005-2008, Bangladesh uses approximately 500,000 tonnes of metal and steel annually, more than half of which is provided by the shipbreaking industry.

Source: World Bank Report 2010 - "Shipbreaking and recycling industry in Bangladesh and Pakistan." and Shipbreaking Platform - Annual Report 2015



There are no measures to prevent unauthorized persons, such as children, from entering the Janata Steel yard. When there is low tide, the kids can come right out and play football between the ships. Photo: Norma J. Martinez

have no helmets on, and children run around on the work site. It is a completely basic rule that unauthorised persons may not walk around a shipyard," says Hasle.

He does not see anything that suggests that Janata Steel could be in compliance with the standards of either Maersk or the Hong Kong Convention.

"It definitely does not seem like there is a management there that is capable of instructing workers how to do their jobs in a safe way. Nor does it seem like there's any desire to do so, when the conditions are as terrible as they are," says the occupational environment expert.

\$6 for a 15-hour shift

Still, torch cutters Ali Hassan and his colleague Abdullah Anwar are happy that the Producer has arrived. They prefer Janata Steel to other shipyards they've worked at in the past. Not because the conditions are so different, or because the pay is better, but because there's always work. Steady work is a luxury in Bangladesh, even when the pay is too little to live on, and the job could cost you your life.

"There are always new ships at Janata, and that's good because there's no long stretches without work and pay," says Anwar. He says that he earns about \$8 per day. His monthly salary varies from month to month, since he gets no pay for sick days or days off.

Minimum wage and living wage in Bangladesh. List of prices of basic foodstuffs

The legal minimum wage in Bangladesh is about \$19 per month. The minimum wage for shipyard workers is significantly higher, however: about \$76 per month, based on 26 workdays.

Trade unions and NGOs estimate that the minimum wage in Bangladesh is not enough to cover the basic needs of workers. At the time of Danwatch's visit, these were the prices of some ordinary items:

Cooking oil per litre	\$1.25
Rice per kg	\$0.75
Sugar per kg	\$1.25
Potatoes per kg	\$0.65
Milk per litre	\$1.00
Chicken per kg	\$3.15
Fish per kg	\$3.80

Country profile

Bangladesh has a population of just over 156 million, of which 31.5% live in poverty, according to numbers from 2010. Unemployment in 2014 was estimated at 4.5%. The GNP of the country in 2015 was approximately \$195 billion.

Source: data.un.org, data.worldbank.org, and www.cia.gov

Hassan, Anwar and Chandra all come from northern Bangladesh, where job opportunities are few and poverty is even more prevalent than in the rest of the country, which is one of the poorest and most densely populated in the world. Every year, thousands of men migrate to Chittagong to work in the shipbreaking industry, many of them leaving their families behind in the villages.

"A bus ticket home costs about 1600 taka (\$20, ed.). I can afford to visit my family two or three times a year," says Hassan, who left his wife and three sons behind in Jamalpur.

Hassan earns barely \$6 per day with overtime. Yesterday he worked 15 hours, he says, and he must support a total of six people on his income.

Neither contracts nor pay slips

Twenty-six-year-old Mohammad Chandra has worked at Janata Steel since he was 16, he says. And yet neither Hassan, Anwar nor Chandra has ever seen or signed a contract that describes their work, pay and rights. None of the fourteen workers from Janata Steel that Danwatch spoke with could show us a contract with the shipyard.

Nor could they show us pay slips. The workers report that they sign a paper when they receive their pay, but they don't receive a proper pay slip. Sick pay, vacation pay and bonuses are unknown to the workers Danwatch spoke to.

Chandra says that employment at Janata Steel is governed by the "no work, no pay" principle. For this reason, he forces himself to go to work even when he is not feeling well.

"When I'm torch cutting, I feel dizzy, and I get really bad headaches. But I have to work as many days as I can, overtime too. Otherwise I don't earn enough," says Chandra.

Chandra and most of his colleagues take a half-day off on Fridays. He earns barely \$6 a day for a 12-hour shift. He explains that the job is so hard that some months, he can only work 25 days because he is so exhausted he cannot continue.

A 2015 Bangladeshi labour law set the minimum wage at about \$19 per month. The minimum wage for shipyard workers, however, is about \$76 per month without overtime payment, based on 26 workdays.



Clean drinking water is not available to the shipyard workers at Janata Steel yard. They must bring their own, the workers say.



Most workers at Janata Steel carry scarves around their neck or head. "We use them to cover the nose and mouth when we weld, because welding generats smoke and sparks," says Ali Hassan, one of the workers.

According to Maersk's guidelines, which are based in part on guidelines from the International Labour Organisation, the shipyard must ensure that all workers have an adequate contract and receive fair compensation with respect to local prevailing wages. Furthermore, work may not exceed 48 hours per week. Overtime must be both voluntary and paid at a higher rate.

Workers not aware of health risks

At the Bangladesh Trade Union Centre's local office in Chittagong, Dilip Kumar Mah works to unionise shipyard workers. His organisation, together with other trade unions and advocacy groups, gives shipyard workers both safety training and knowledge about their rights and the health risks associated with their work.

"It's an uphill battle," says Mah of his work.

"The terrible safety conditions and the lack of contracts are the biggest problems at the shipyards. The workers are poor and have no other option but to accept the substandard and dangerous conditions."

Mah confirms that the low pay is a widespread problem, and that shipyard workers do not receive the two yearly bonuses that

are required according to a 2015 Bangladeshi labour law. Another problem is that workers must buy their own protective equipment.

"The workers can't afford it, that's why they are torch cutting without masks," says Mah. He explains that the workers don't understand the serious health risks that can result from torch cutting, asbestos and hazardous chemicals if they are not wearing the necessary safety equipment.

"According to national law and international regulations, the shipyards must give their workers safety training and teach them how to protect themselves from the hazardous waste they are handling. But it's easy for the shipyards to replace workers. If any of them are unhappy with the conditions, there are hundreds of other impoverished workers ready to take the job. That's why the shipyard owners have no interest in investing in worker safety," explains Mah.

At the Chittagong office of the Department of Inspection for

Factories and Establishments, Danwatch meets a senior official who does not wish to be quoted by name. Once he is promised anonymity, he is eager to talk about the serious safety problems the inspectors observe at the shipyards.

"The shipyards are so dangerous, and the ships so unsafe, that my inspectors don't dare to go into the hull of a decommissioned ship to inspect the torch cutting. The workers climb many metres up to the ships without fall protection, something my inspectors wouldn't dare do. It's no secret that the shipyard employees work every day

> without the necessary equipment that could protect them from the dangerous accidents we see in the industry," says the official in his office. He explains that his department simply lacks the economic and human resources to inspect all the shipyards and ensure better conditions.

> The workers at Janata Steel don't have the luxury of being afraid of heights.

> On one of the last days of August, Danwatch sails out to get a closer look at Maersk's oil ship, the Producer. Its rusted hull sways slightly in the afternoon high tide. At close range, the oil ship stands out from the other ships. A complicated labyrinth of pipes fills the entire deck. Five men climb

approximately 20 metres up a rope ladder on the side of the ship. They climb in rhythm, keeping an eye on each other as they attempt to reach the top. They wear neither safety harness nor fall protection, and when they reach the deck, they begin to pull a gas canister up behind them on a rope. The shipbreaking has begun, and Ali Hassan, Abdullah Anwar, and Mohammad Chandra will soon be aboard the Producer. With their torch cutters in their hands, scarves over their mouths, and nothing on their feet, they will cut, tear and chop the ship into unrecognisable steel.

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The workers are poor and have no other option but to accept the substandard and dangerous conditions

- Dilip Kumar Mahmed, Bangladesh Trade Unions Center



North Sea Producer 1983 - 2016 Built at Lindø on the Danish island of Funen (Fyn), served in the North Sea, and cut up for scrap in the Bay of Bengal by men in flip flops and bare feet.

