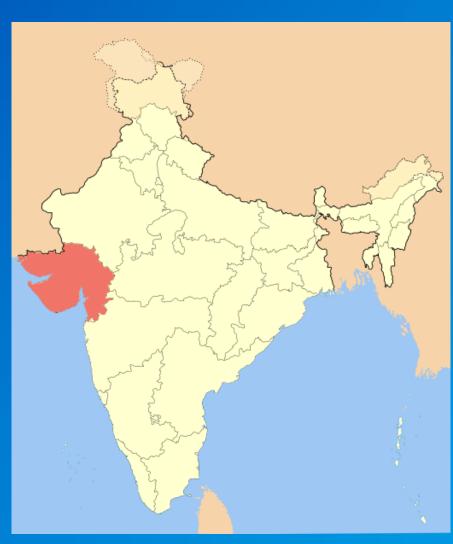




INDIA – World's largest Green Ship Recycling Nation





110+

HKC_SOC recycling facilities in India (85% are green ship recycling yards)

HKC Compliant & certified by Class NK IRS BV & LR – IACS Members

17

HKC_SOC Recycling Facilities in Bangladesh

8

HKC_SOC certificate under progress in Pakistan

CAPACITY BY 2030

200 YARDS

By expanding India intends to **DOUBLE** recycling capacity.

70% OF GLOBAL SUPPLY

Alang, India should be able to recycle ships with this increase.

Recycling Statistics of Alang



8500+

Ships are recycled in Alang since its inception (from 1982)

— 67 – Millions+

Tons of Steel
recovered, which is
equivalent to
building 9077 Eiffel
Towers, and saving 9
Years of Daily New
York City Power
Consumption

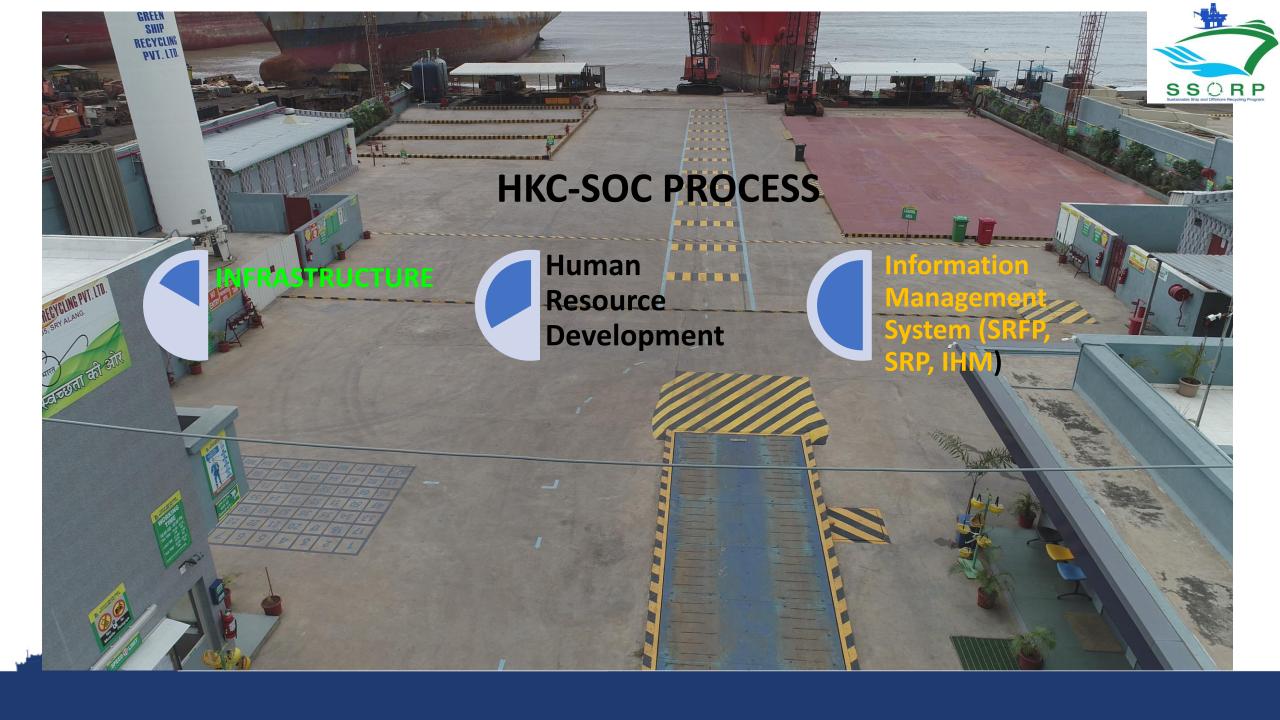
142,000+

Tons of wood recovered has been reused – that about 1258 football fields of trees

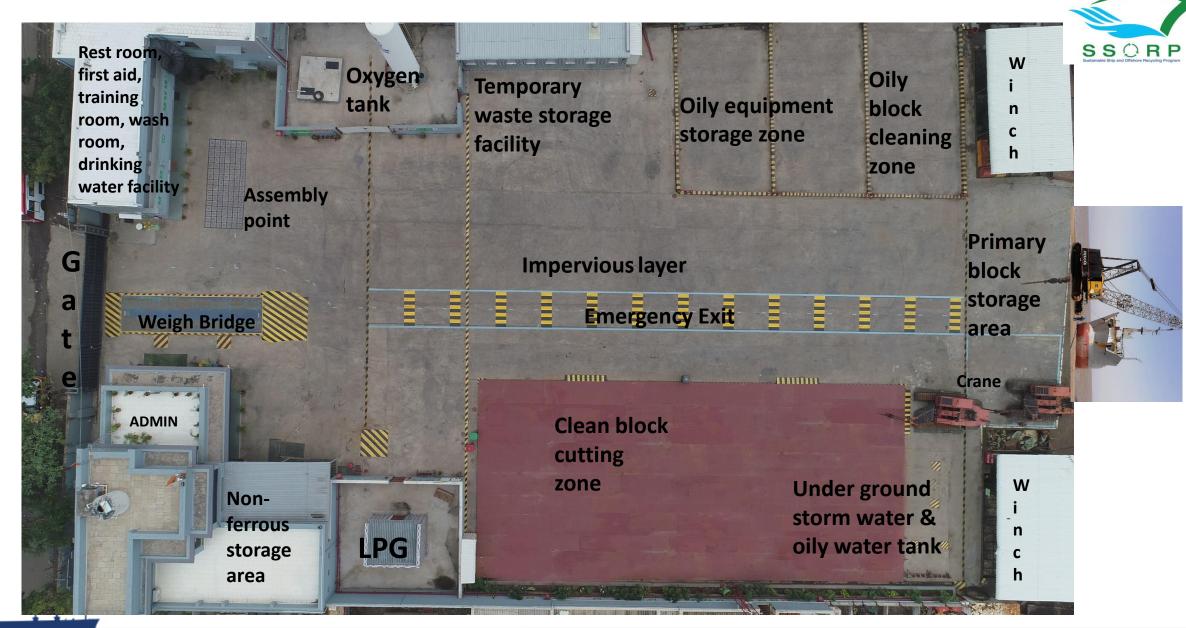
4293+

Tons of CO2 captured from atmosphere by reusing wood recovered saving equivalent amount of deforestation

(1 acre of trees removes up to 2.6 tons of carbon dioxide each year)



HKC-SOC PROCESS



HKC-SOC PROCESS



Human Resource Development

Trained workforce to carry out different work activities

Hazardous waste management, work-at-height, confined-space entry, first aid, fire prevention and protection, hot-work, cold work, emergency preparedness & response plan, oil spill control & management







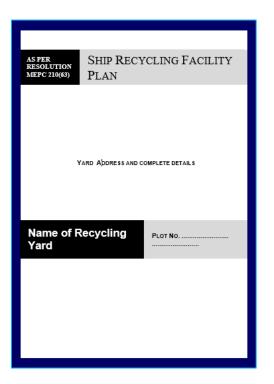
HKC-SOC PROCESS



Ship Recycling Facility Plan as per MEPC.210(63)

Inventory of Hazardous
Materials Report (Part I II II) as
per MEPC.379(80)

Ship Recycling Plan as per MEPC.196(62) guidelines



VESSEL NAME INVENTORY OF HAZARDOUS MATERIALS [PART I, II AND III] AS FER MEPC 269(68)	
REPORT No.: GMS-IHM	
PICTURE OF VESSEL	



Layout of Various Yards – Guess the country ??

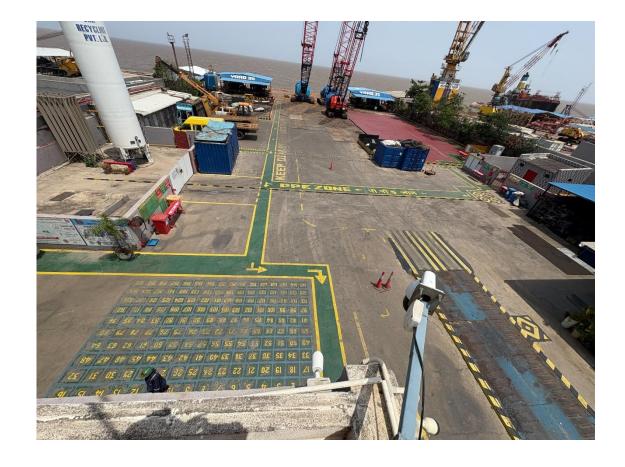












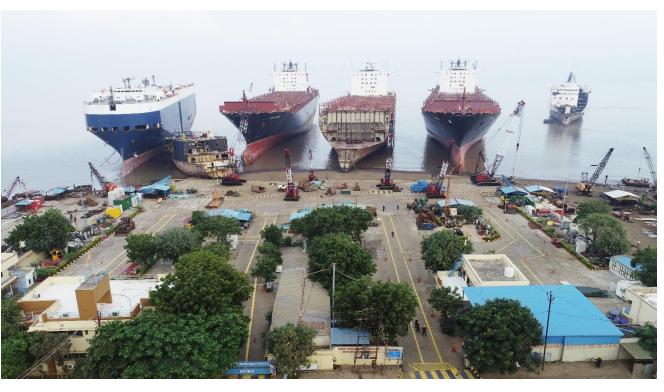




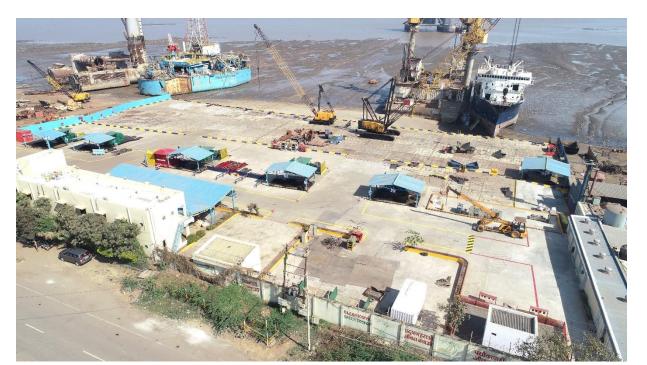










































































Why Green Steel?



1

8% of total CO₂ emissions on annual basis

Iron ore and steel industry globally accounts for around 8% of total CO₂ emissions on annual basis

2

Net Zero Emission Goal

Paris Agreement Climate change 3

Shortage of Fossil Fuels (coal)

Need of alternative technologies Innovation



Sustainable Recycling is ALREADY contributing. How?





About 140,000 tons of Nonferrous metals

- Like stainless steel, copper, bronze, nickel, is RECOVERED and REUSED.
- All the steel, wood, and nonferrous items and most of the machinery and equipment are used DOMESTICALLY.

1

Ton of Recycling of steel saves

- 1.1 tons of virgin iron ore mining
- 642 Kwh of energy
- 1.8 Barrels of oil
- 4 cubic yards of landfill space

Ship recycling's contribution to reduce carbon emissions. How?



>97%

Typical ships (in weight) is reused, repaired, and repurposed,

(Best example of circular economy)

or recycled.

25%

The carbon footprint of steel generated from ship recycling is a **Quarter** of producing steel from iron ore.

Role of Recycling in Decarbonization

Ship Recycling –
Removing carbonintensive tonnage is
a key part of the
equation to keep the
world fleet balanced.

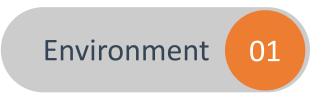
30,404 MT

CO2 equivalent GHG Emission Saved for Vessel – MT XXXXXXX

- Vessel Type Oil Tanker
- LDT 29,624 MT
- 9776 MT CO2-equivalent Total GHG emission from complete recycling of the vessel (landing to production of steel bars and steel ingots) was estimated to be around.
- 40181 MT CO2-equivalent -Total GHG emissions if same amount of steel bars and steel ingots, if produced using the conventional process (mining), without recycling.

Environmental, Social and Governance (ESG)

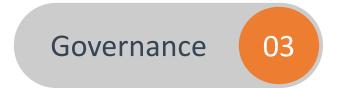




This criteria consider how a company safeguards the environment, including corporate policies addressing climate change, for example.



This criteria examine how a company manages relationships with employees, suppliers, customers and the communities where it operates.



This criteria deals with company's leadership, executive pay, audits, internal controls and stakeholder rights.

1.8 Billion Tons of Steel is Produced annually, producing 29 billion tons of CO₂.

A total 98 billion tons of water is wasted to extract steel from iron ore annually.

About 85% of the total weight of ship is steel & recycling reduce GHG emissions and water consumption.

Still How various Search engines or online world Portray Ship Recycling!









