

# **The Problems and Prospect of Ship Breaking Industry in Bangladesh: An Overview**

Presented by

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# Introduction

- Turn discarded ships into scrap
- Corrosive, noisy and dusty in nature
- Terrible working conditions
- Environment pollution due to emission of toxic and pollutant gases
- Employment generation (about two hundred thousand workers)
- Provide 70% raw materials for MS Rod
- About 130 million US Dollar revenue contribution

# Background







- First ship: Clan Alpine of 6000 MT Cargo Vessel in 1960 cyclone.
- Covering Area: About 20 Km along with coastal Foujdarhat, Bhatiary, Kumira & Sitakunda under Chittagong District.
- Massive momentum in 1982 onward (BCCI Bank financed importing scrap vessel)
- 1983: Owners Associating Formation.
- 1987: Declaration of Industrial Sector by Government of Bangladesh.

# Existing Situation

Number of Companies: 130

Active Players: 18

Number of Yards: 79

Active Yards : 61

Under construction: 08

Closed: 09

Proposed: 01

Survey report: Chittagong Environment Department, April 2009.

Number of Yards: 149

Active Yards : 74

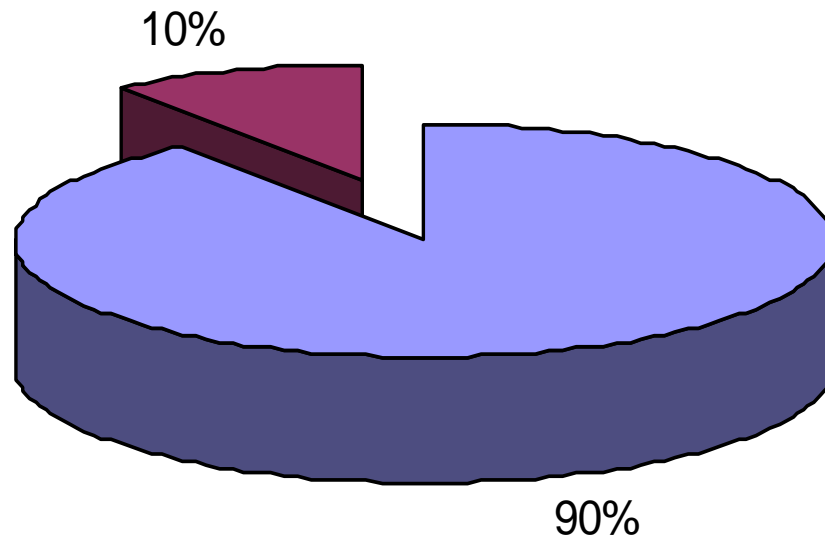
Closed: 53

Awaiting Operation: 22

Source: Chittagong district administration



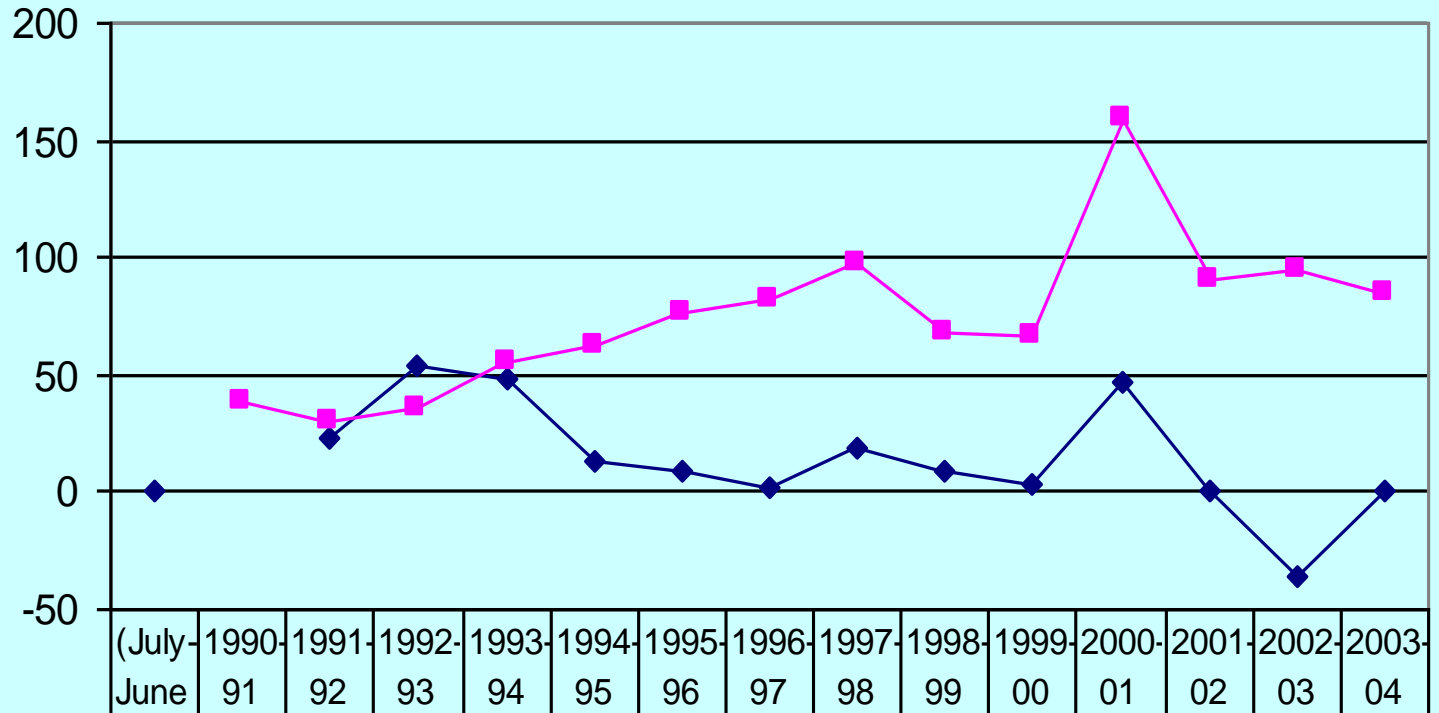
# Ship Recycling



■ Steel Contents

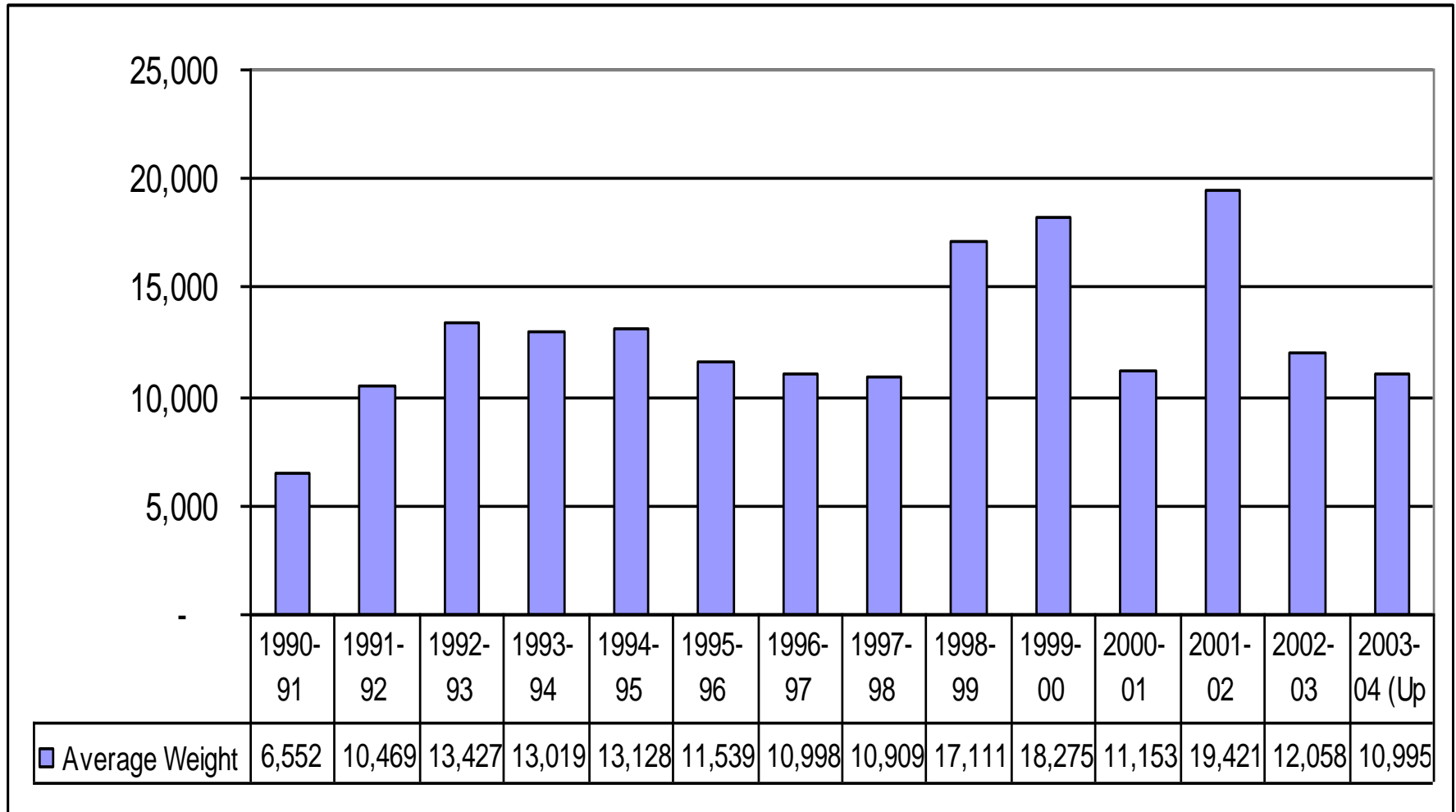
■ Brass, Copper, Lead, Asbestos, Plastics Woods & Wooden things

# Growth and increase of Ships

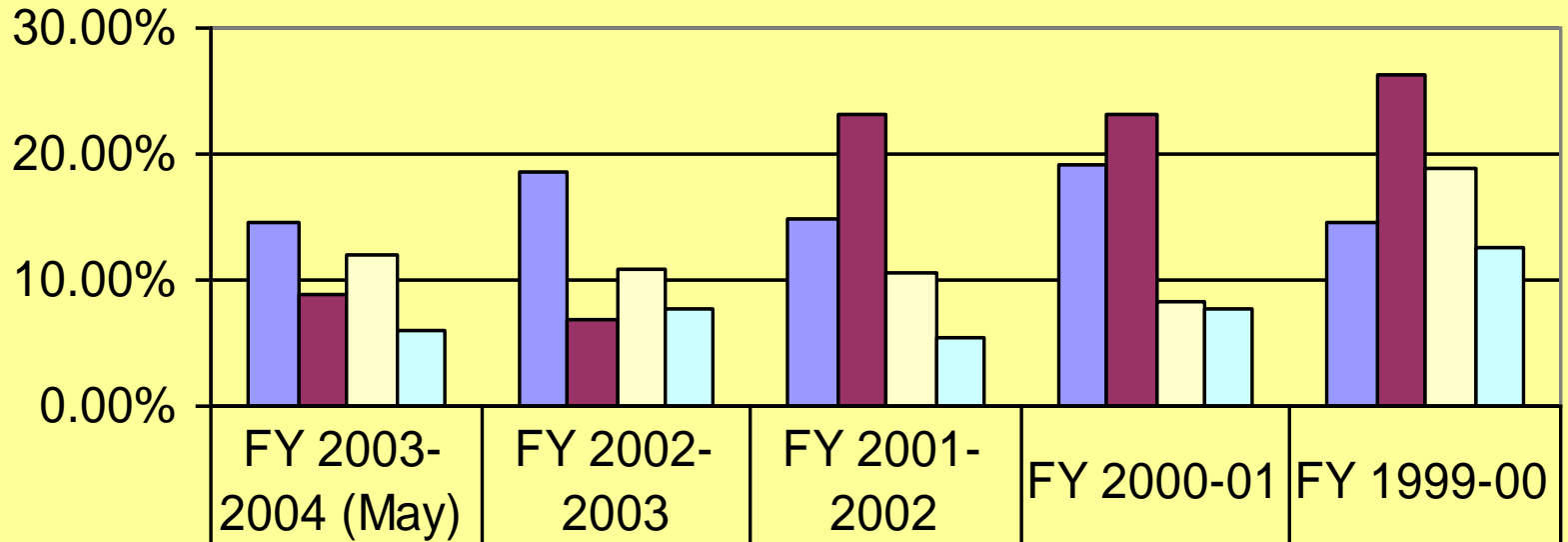


◆ Growth in % Over	0		22.9	53.9	48.1	13.7	9.16	1.5	18.6	8.84	3.66	47	-0	-35.9	0
■ No. of Ships		39	30	36	55	62	77	82	98	68	66	159	91	94	85

# Average Weight (Metric Ton)



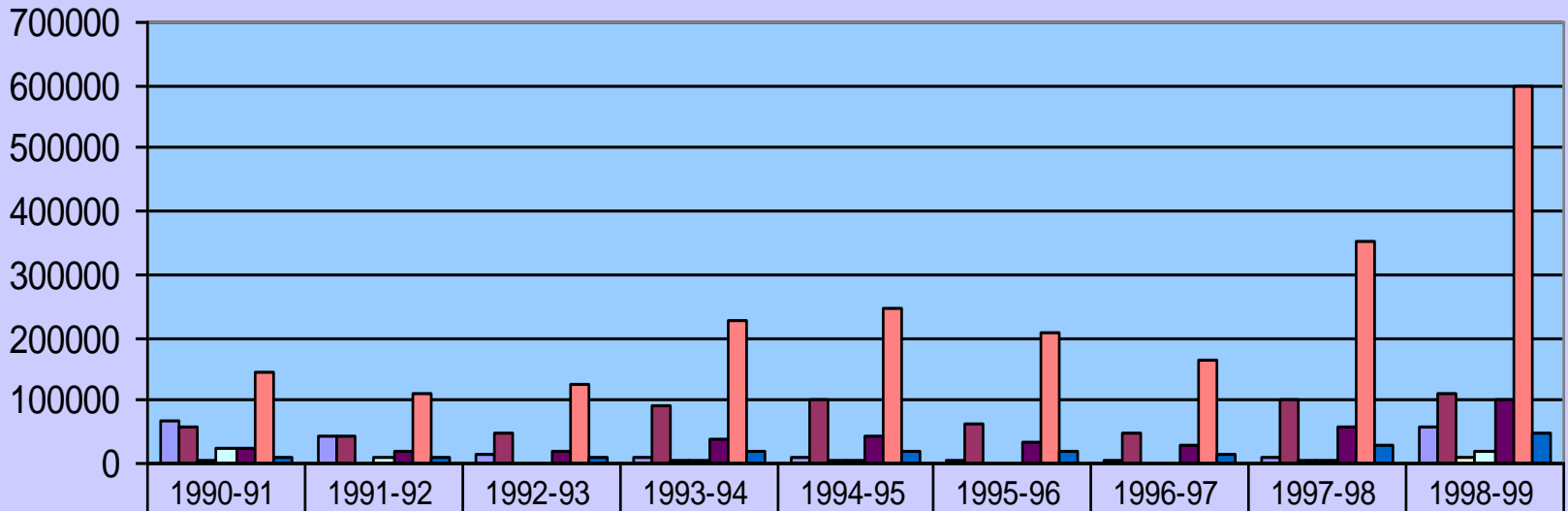
# Share of Import by Key Players



	FY 2003-2004 (May)	FY 2002-2003	FY 2001-2002	FY 2000-01	FY 1999-00
■ Kabir Group	14.63%	18.62%	14.85%	19.12%	14.53%
■ ABC Group	8.88%	6.89%	23.03%	23.25%	26.32%
□ Royal Steel	11.96%	10.92%	10.68%	8.36%	18.80%
□ PHP	6.05%	7.71%	5.35%	7.76%	12.70%

■ Kabir Group ■ ABC Group □ Royal Steel □ PHP

# Steel Products from Ship Scrap



Steel Ingot	66092	44944	14245	9413	8048	4904	3892	8321	59817
MS Rod	57654	44700	50653	90155	99171	60431	47961	102541	109665
MS plate	5720	1999	1870	2583	2599	1584	1257	2687	9970
Billet (2" Sq)	23890	11929	2343	3944	3453	2104	1670	3570	19939
Angles	24023	18625	21105	37565	41321	34374	27201	58327	99987
Deformed Bar	144135	111750	126633	225388	247926	206295	163726	350047	600070

■ Steel Ingot 
 ■ MS Rod 
 ■ MS plate 
 ■ Billet (2" Sq) 
 ■ Angles 
 ■ Deformed Bar 
 ■ Coils

# Problems in Ship Breaking

- Pollution
- Deadly Industry
- Ballast Water
- Workers and Environment Contamination
- Permanent Danger
- Human Rights
- Toxic Substances and Heavy Metals
- Open Fire
- Asbestos

# Solutions

- Prevent Pollution
- Clean Ships
- IMO
- Basel and UNEP
- International Legislation
- Regulatory Environment

# Serious Accident Hazards

- Fire and explosion: explosives, flammable materials
- Being struck by falling objects
- Compressed between heavy objects
- Snapping of cables, ropes, chains, slings
- Handling heavy objects; poor access to progressively dismantled vessels (floor, stairs, passage ways)



# Hazardous Substances

- Asbestos fibers, dusts
- Heavy and toxic metals (lead, mercury, cadmium, copper, zinc etc.)
- Organ metallic substances tributyltin etc.
- Lack of hazard communication (storage, labeling, materials safety data sheets)
- Batteries, fire-fighting liquids

# Physical Hazards

- Noise
- Extreme Tropical Heat
- Terrible load on Shoulder
- Working in Mud and filth for a pittance
- Hauling metal up the Beach
- Lifting great weight with skin Arms
- Carrying Steel ropes and heavy pipes

# Human Rights Issues

- Total 1300 death cases in last 12 years
- Total 800 Injuries between 2007 and 2009
- Less wage and severe Risk
- Lack of safety ness
- Lack of Health Facilities and Incentives
- Accident Incentives

# Conclusion

- Challenge of Safe, Environment Friendly, contamination free and cost effective manner.
- Protection and development Environment and conservation of Ecology
- International and national concerns, policies and interventions
- Sustainable livelihood

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