

Efforts of an Indian Ship Recycler to Comply with HKC



- R.L.Kalthia Ship breaking yard has been in operations since 1983 AND ONE OF THE OLDEST RECYCLING FACILITY IN ALANG.
- It is a commercially associated yard of Wirana Shipping Corporation.
- R.L.Kalthia has received Certificate of Compliance from Class NK in September 2015. And RLK was the first facility in Indian subcontinent to receive such certification.

R.L. Kalthia Ship Breaking Private Limited



OUR POLICY – CONTINUOUS IMPROVEMENT



- The conceptual journey to green recycling was initiated by our yard since 2005 but Class NK gave us right direction, technique and methodology to achieve World Class Sustainable Ship Recycling in a way that was easy to comprehend.
- Making decision to go for HKC compliance was made in 2013
- Decision making was easy because of our resolve to continuously improve our ship breaking practices to achieve International Standards
- We believe that More Money at cost of environment and worker's safety – An absolute NO.

INITIAL PHASE – GATHERING REQUIREMENTS AND BUDGETING RESOURCES



- Facility visit required – scrutiny of present practice – GAP Analysis and comparison with HKC requirement
- Identification of requirements based on GAP analysis – Management, Training, Environment
- Discussion with Class NK team and yard team
- Understanding of changes required, 3-4 months discussion and opinion exchange, refinement.
- Final layout – facility layout (environment friendly and safer), Training layout, management flowchart was reviewed and new position identified and created.
- GSR and NKCS have helped us a lot all the way

PHASE 2 – IMPLEMENTATION



- Impermeable floors with effective drainage system
- Sufficient capacity of overhead and underground tanks attached
- Effective Asbestos decontamination unit
- Upgradation of Hazardous waste temporary storage facility
- Secured non-leakage trays covered with roof for winches & its wire ropes
- Training – Handling and management of hazardous materials, fire protection & prevention, First Aid,
- Workers' Safety and Welfare

Impermeable Floors With Effective Drainage System

10" thick concrete flooring with more than 50,000 sqft near shoreline

Drainage system designed for catchment of oil and oily water from working areas



Workers' Training, Safety and Welfare

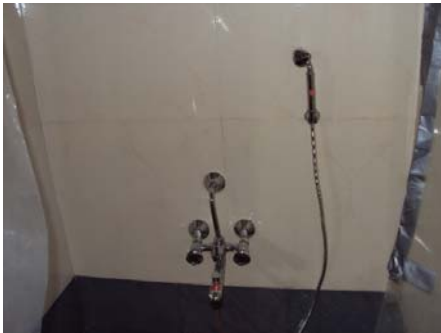


- Compulsory medical check up for all workers.
- Job specific regular health checks for workers.
- Frequent medical camps.
- Special training on work hazards.
- Mock drill exercise conducted, fire protection & prevention, first aid,
- HSE awareness through regular trainings.
- Technical training at different stages of work.
- Oil spillage on sea and plot,
- Safe for entry and safe for hot works, working at height, removal of ACM

Effective Asbestos Decontamination Unit

The Asbestos Abatement Unit with Negative Air Pressure Unit (NAPU) built as per OHSAS.

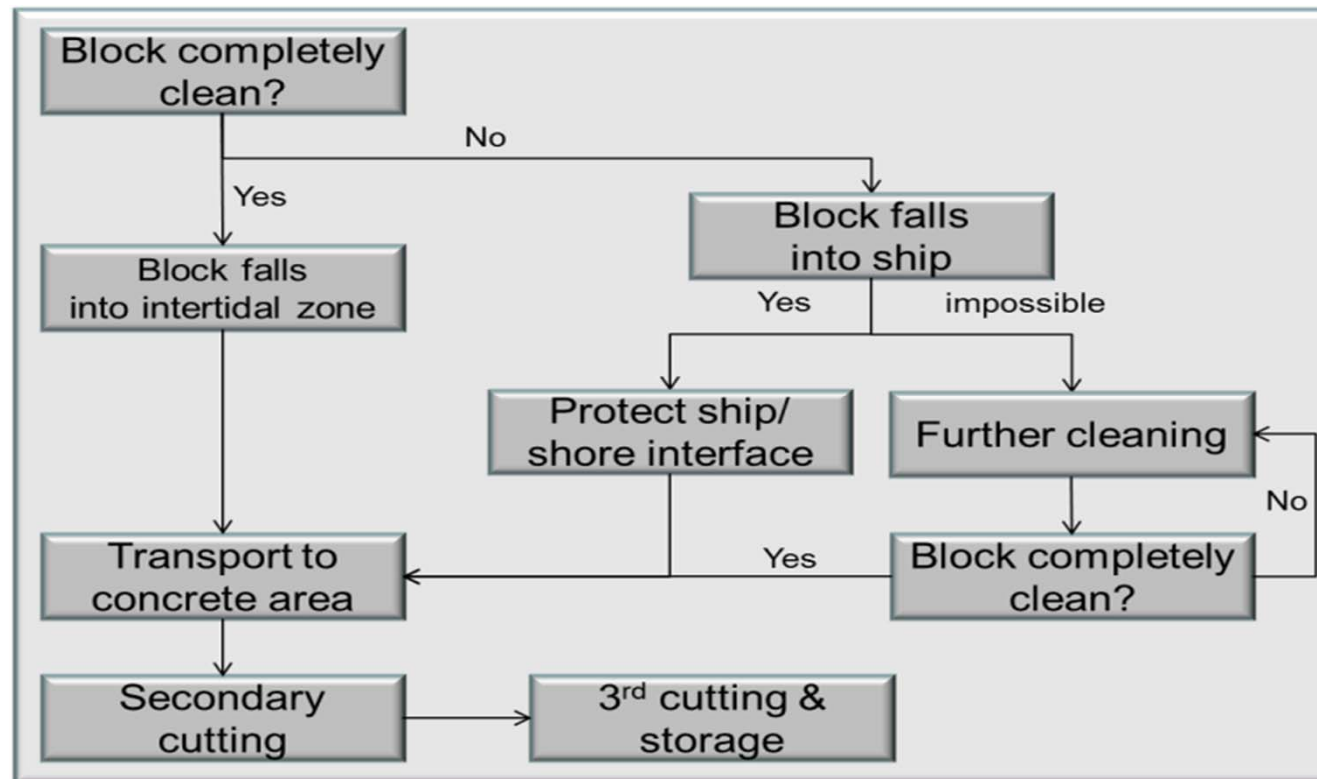
Asbestos Abatement Room: 20 ft x 20 ft x 8 ft. Negative Air Pressure Unit up to **2000 cbm** and HEPA filters.



Hazardous Waste Temporary Storage Facility, Training



Cutting Procedure In Intertidal Zone





Oil Booms & CO2 Cylinders



CHALLENGES & LESSONS - HIGHLIGHTS



- Reduced production volumes because of elaborate process for HKC compliance
- Retaining same trained workforce even if they are not permanent
- Only 4 facilities following HKC compliant practices – availability of skilled workers is limited
- Class NK provides an excellent platform and directions to achieve environment friendly and sustainable ship recycling
- Class NK stood by their certification in spite of criticism from some quarters during the process of certification

CONCLUSION AND NOTE OF THANKS



- We have done our part and now expect more ship owners to go for HKC compliant recycling
- We welcome all ship owners to visit our facility and will be glad to answer any questions
- HKC certification has made it possible to strong shipping company like Maersk to work with HKC certified facilities. We are confident other ship owners will be encouraged and bring in their vessels for recycling.