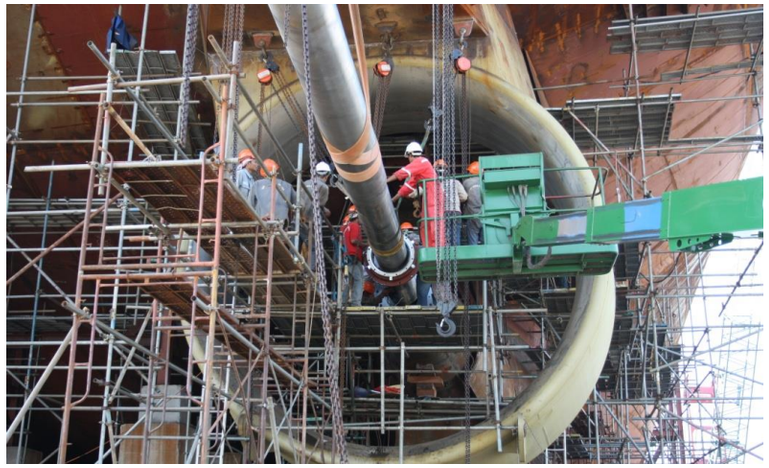
IMW GROUP OF COMPANIES

INTEGRATED MARINE WORKS SDN BHD

INAI KIARA SDN BHD

Selat Melaka SHIPYARD SDN. BHD. (716023-A)



TSHD INAI KENANGA

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

PRODUCT OF WAWASAN 2020

INTEGRATED MARINE WORKS
SDN BHD

LIST OF EQUIPMENTS

IMWgroup.2018.002

TRAILING SUCTION HOPPER DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI KENANGA (JUMBO)

Specifications

Length Overall	**: 197.7 m**
Breadth Moulded	**: 36.4 m**
Dredging Depth	**: 32/45/90 m**
Speed	**: 17.5 knots**
Hopper Capacity	**: 33,335 m^3**

TRAILING SUCTION HOPPER DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI LAVENDER

Specifications

Length Overall	**: 85.4 m**
Breadth Moulded	**: 18.0 m**
Dredging Depth	**: 35.0 m**
Speed	**: 13.0 kn**
Hopper Capacity	**: 3,600 m^3**

INAI TECOMA

Specifications

Length Overall	**: 85.4 m**
Breadth Moulded	**: 18.0 m**
Dredging Depth	**: 35.0 m**
Speed	**: 13.0 kn**
Hopper Capacity	**: 3,600 m^3**

TRAILING SUCTION HOPPER DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI TULIP

Specifications

Length Overall	**: 126.6 m**
Breadth Moulded	**: 18.8 m**
Dredging Depth	**: 45.0 m**
Speed	**: 14.2 kn**
Hopper Capacity	**: 8,700 m^3**

INAI SIANTAN

Specifications

Length Overall	**: 105.43 m**
Breadth Moulded	**: 16.00 m**
Dredging Depth	**: 38.00 m**
Speed	**: 13.20 kn**
Hopper Capacity	**: 5,250 m^3**

TRAILING SUCTION HOPPER DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI SELASIH

Specifications	
Length Overall	**: 142.36 m**
Breadth Moulded	**: 22.73 m**
Dredging Depth	**: 55.00 m**
Speed	**: 15.00 kn**
Hopper Capacity	**: 11,750 m^3**

INAI ANGGERIK

Specifications	
Length Overall	**: 128.50 m**
Breadth Moulded	**: 18.90 m**
Dredging Depth	**: 45.00 m**
Speed	**: 14.00 kn**
Hopper Capacity	**: 9,500m^3**

TRAILING SUCTION HOPPER DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI KESUMA

Specifications

Length Overall	**: 78.60 m**
Breadth Moulded	**: 11.95 m**
Dredging Depth	**: 15.00 m**
Speed	**: 13.00 kn**
Hopper Capacity	**: 2,200 m^3**

INAI KEKWA

Specifications

Length Overall	**: 46.0 m**
Dredging Depth	**: 15.0 m**
Hopper Capacity	**: 1,500 m^3**

CUTTER SUCTION DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI IXORA (2010)

Specifications

Length Overall	**: 84.6 m**
Breadth Moulded	**: 15.2 m**
Dredging Depth	**: 25.0 m**
Total Installed Power	**: 13,800 HP**
Cutter Power	**: 10,000 kW**

INAI LIATREE (2011)

Specifications

Length Overall	**: 84.6 m**
Breadth Moulded	**: 15.2 m**
Dredging Depth	**: 25.0 m**
Total Installed Power	**: 13,800 HP**
Cutter Power	**: 10,000 kW**

CUTTER SUCTION DREDGER

INTEGRATED MARINE WORKS
SDN BHD

INAI DAHLIA

(Heavy Duty)

Specifications

Length Overall	**: 84.0 m**
Breadth Moulded	**: 20.0 m**
Pumping Capacity	**: 5,000 m**
Total Installed Power	**: 10,200 kW**

INAI DELIMA

Specifications

Length Overall	**: 84.0 m**
Breadth Moulded	**: 15.2m**
Dredging Depth	**: 22.0 m**
Total Installed Power	**: 4,687 kW**

INAI SAGA

Specifications

Length Overall	**: 54.9 m**
Breadth Moulded	**: 15.2 m**
Dredging Depth	**: 22.0 m**
Total Installed Power	**: 5,000 kW**

GRAB DREDGER – BUCKET SIZE from 16m3 – 20m3

INTEGRATED MARINE WORKS
SDN BHD

CLAMSHELL DREDGERS

INTEGRATED MARINE WORKS
SDN BHD

INAI MELATI

INAI MAWAR

INAI MELAWIS

INAI MELOR

INAI MAS

Specifications

Bucket Capacity	**: 16 – 20 m^3**
Draft	**: 1.75 – 2.80 m**
GRT	**: 697 – 800 tons**
NRT	**: 209 – 1,196 tons**

BACK-HOE DREDGER

INTEGRATED MARINE WORKS
SDN BHD

Back Hoe Dredger -INAI RAYA

Specifications

Dredging Depth	**: Max. 8.0 m**
Bucket Capacity	**: 25 m^3**

Plough Dredger - INAI TERASEK

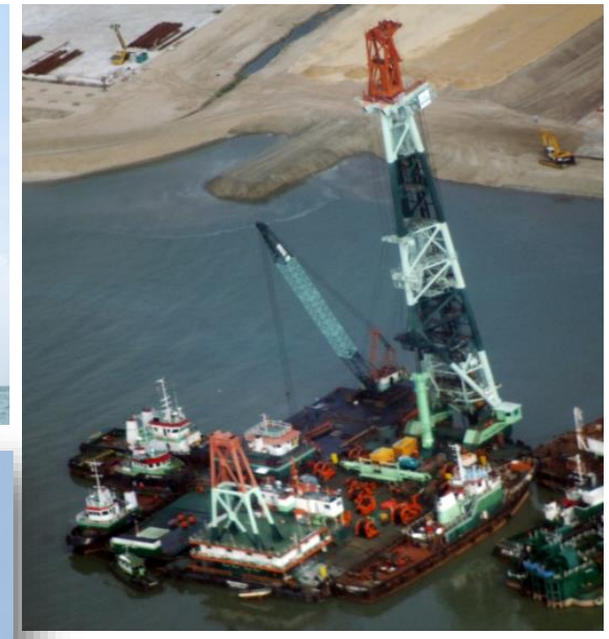
PILING BARGE (Largest in South East Asia)

INTEGRATED MARINE WORKS
SDN BHD

INAI CEMPAKA

SPECIFICATIONS

Dimension (LxBxD)	**: 64.1 x 26.1 x 4.5 m**
Hammer Weight	**: 20 / 35 tonnes**



CRANE BARGES

INTEGRATED MARINE WORKS
SDN BHD

INAI BAKAWALI

INAI BAKAWALI 2

INAI TANJUNG 160

INAI SEMARAK 1

INAI SEMARAK 3

INAI SEMARAK 2

IMWgroup.2018.014

MULTI PURPOSE BARGES

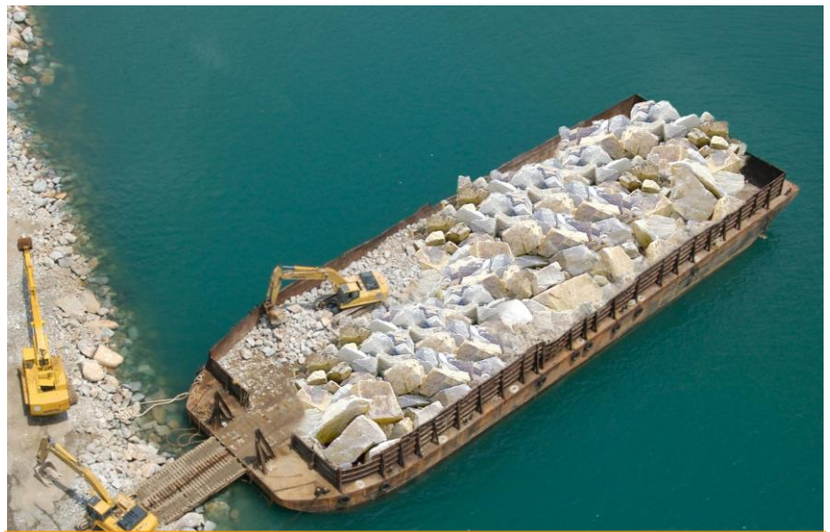
INTEGRATED MARINE WORKS
SDN BHD

Flat Top Barge

Sand Transportation Barge

Work Barge

Crane Barge



Rock Transportation Barge

Rock Transportation Barge

MULTI PURPOSE BARGES

INTEGRATED MARINE WORKS
SDN BHD

Dumb Barge

Accommodation Barge

Flat Top Barge

Spreader Pontoon

Split Hopper Barge

SUBMERSIBLE BARGE

INTEGRATED MARINE WORKS
SDN BHD

INAI KIAMBANG

SPECIFICATIONS

Dimension (LxBxD)	**: 86.4 x 27.0 x 60.6 m**
Gross Tonnage	**: 4,091 tonnes**
Hopper Capacity	**: 1,227 tonnes**

TUG BOATS

INTEGRATED MARINE WORKS
SDN BHD

INAI TERATAI

Specifications

Tug Boat	
Engine Capacity	**: 730 – 4,000 BHP**

ANCHOR BOATS

INTEGRATED MARINE WORKS
SDN BHD

INAI LILY

Specifications

Anchor Boat / Multicat	
Engine Capacity	**: 260 – 470 BHP**

BOOSTER STATION

INTEGRATED MARINE WORKS
SDN BHD

Power of Diesel Engine	**: 1640 Kw at 1860 r.p.m**
Dredge Pump Type	**: IHC 3 Bladed. High Efficiency Pump**
Capacity	**: 418 r.p.m.**

FLOATING PIPELINES

INTEGRATED MARINE WORKS
SDN BHD

LAND MACHINERIES

INTEGRATED MARINE WORKS
SDN BHD

IMWgroup.2018.022

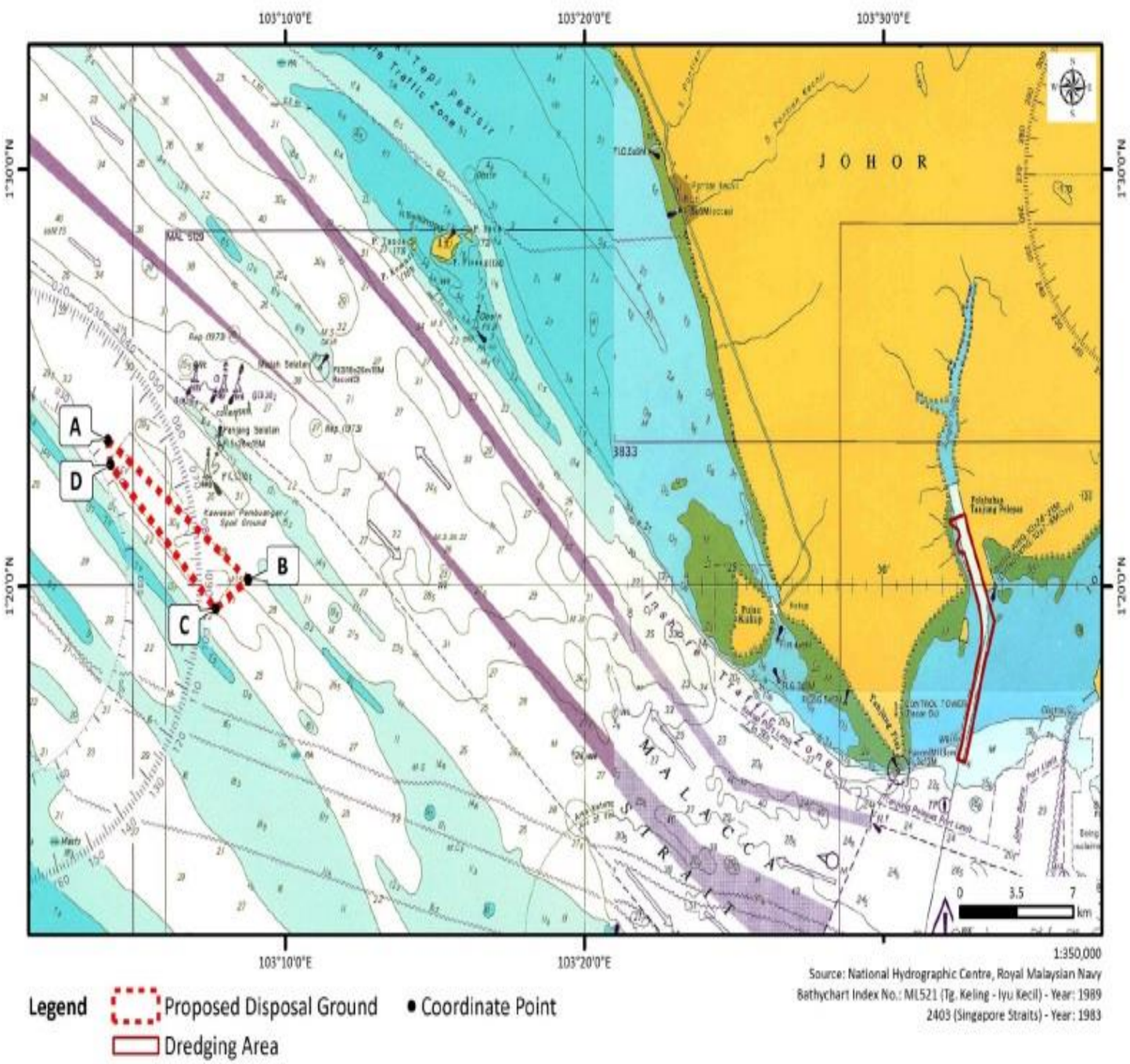
LAND MACHINERIES

INTEGRATED MARINE WORKS
SDN BHD

OUR EXPERIENCES

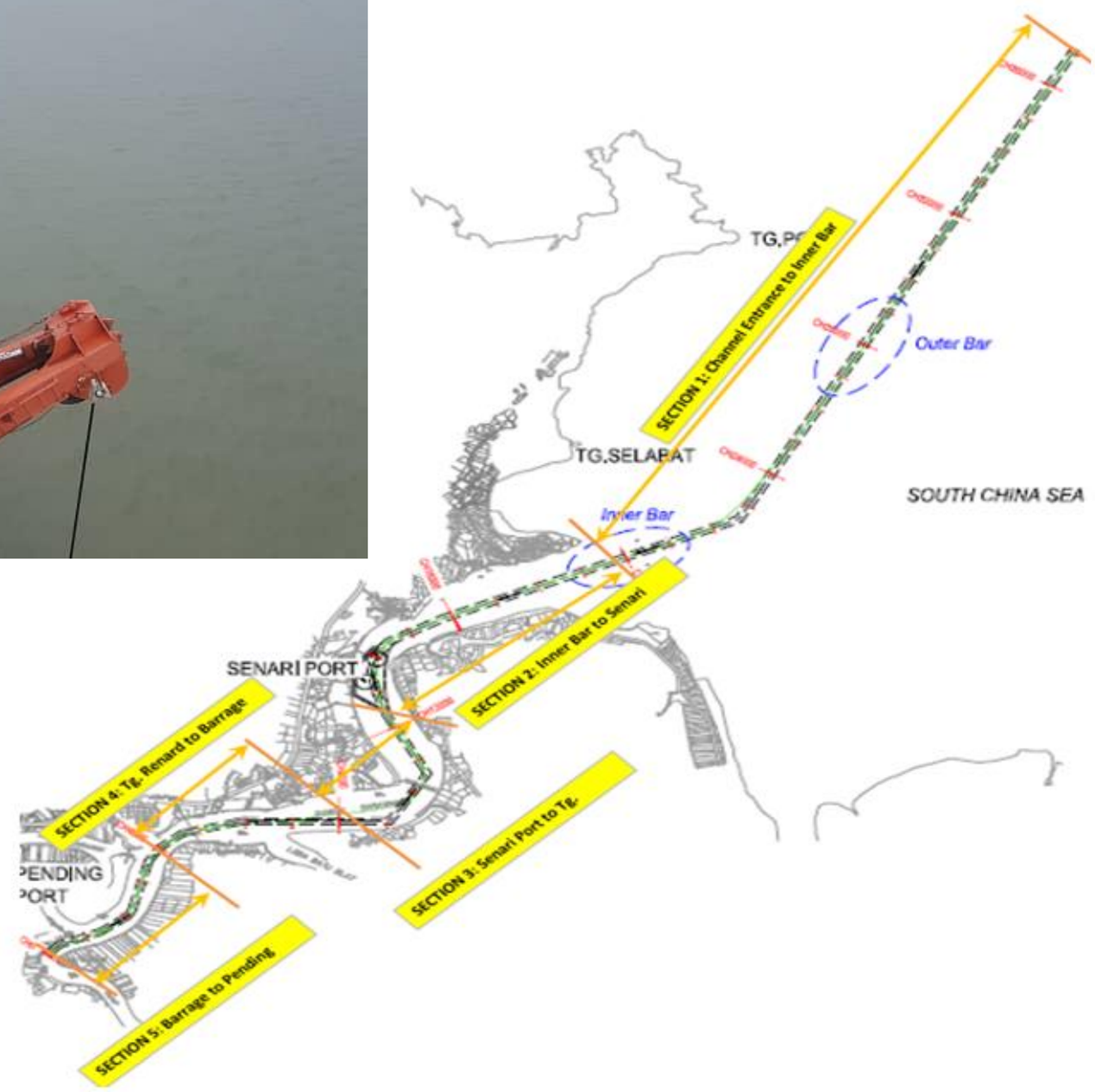
2017 - Capital Dredging at Pelabuhan Tanjung Pelepas, Johor

INTEGRATED MARINE WORKS
SDN BHD



2017 - Capital dredging at Navigational Channel Senari Port, Kuching,

INTEGRATED MARINE WORKS
SDN BHD

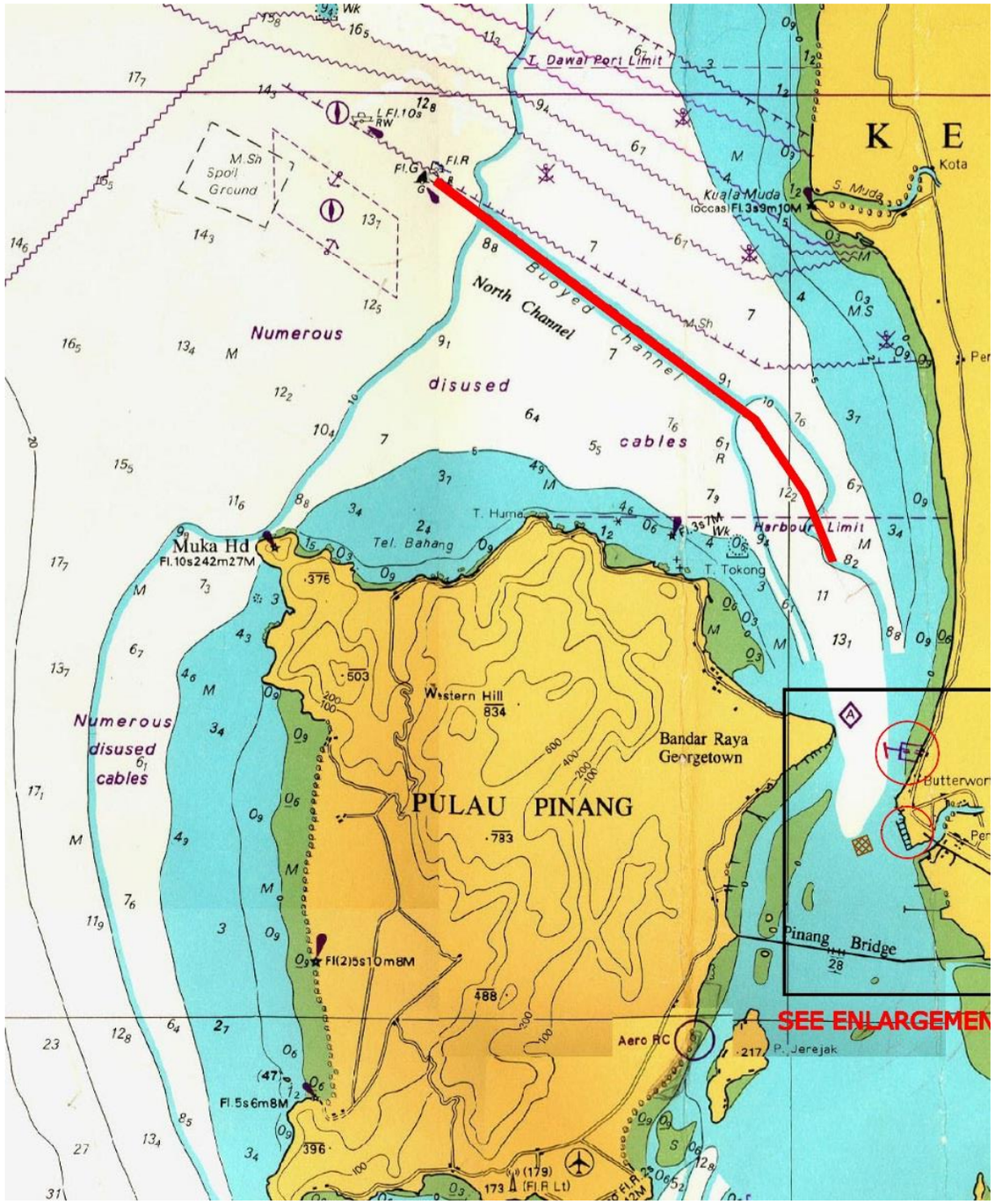


2017 - Maintenance Dredging at Johor Port, Pasir Gudang, Johor

INTEGRATED MARINE WORKS
SDN BHD

2017 - Maintenance Dredging of North Channel & Approaches to Wharf at Penang Port, Penang

INTEGRATED MARINE WORKS SDN BHD



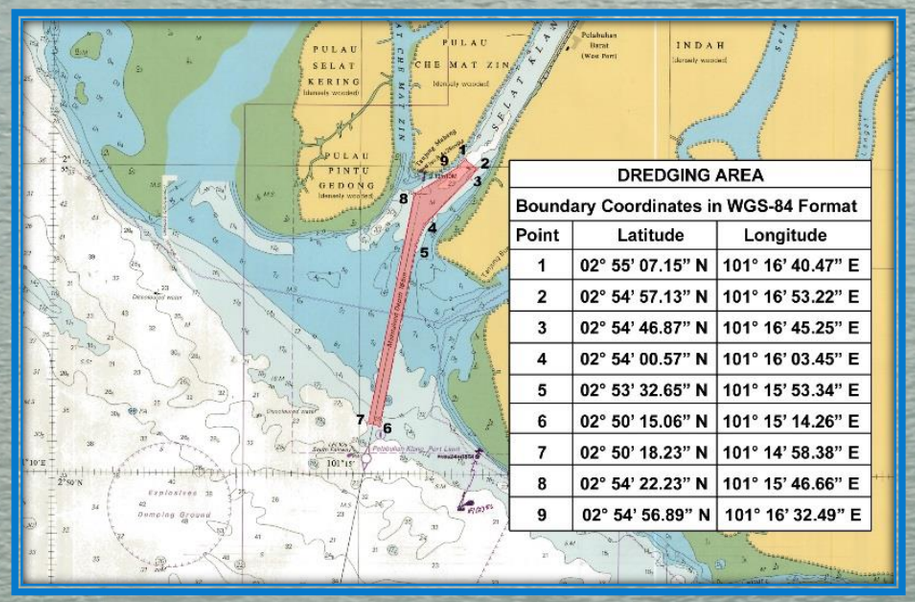
2014 - Maintenance Dredging at Berth 6 & 7 at Tanjung Langsat Port, Johor

INTEGRATED MARINE WORKS
SDN BHD

IMWgroup.2018.029

2014 – Capital Dredging at Southern Approach Channel Phase II, Port Klang

INTEGRATED MARINE WORKS SDN BHD



DREDGING AREA		
Boundary Coordinates in WGS-84 Format		
Point	Latitude	Longitude
1	02° 55' 07.15" N	101° 16' 40.47" E
2	02° 54' 57.13" N	101° 16' 53.22" E
3	02° 54' 46.87" N	101° 16' 45.25" E
4	02° 54' 00.57" N	101° 16' 03.45" E
5	02° 53' 32.65" N	101° 15' 53.34" E
6	02° 50' 15.06" N	101° 15' 14.26" E
7	02° 50' 18.23" N	101° 14' 58.38" E
8	02° 54' 22.23" N	101° 15' 46.66" E
9	02° 54' 56.89" N	101° 16' 32.49" E

2014 – Maintenance Dredging of all Navigational Channels in Port Klang

INTEGRATED MARINE WORKS
SDN BHD

2003 - Site Filling & Soil Improvement Works for 700mw Coal-Fired Power Plant at Tanjung Bin, Johor

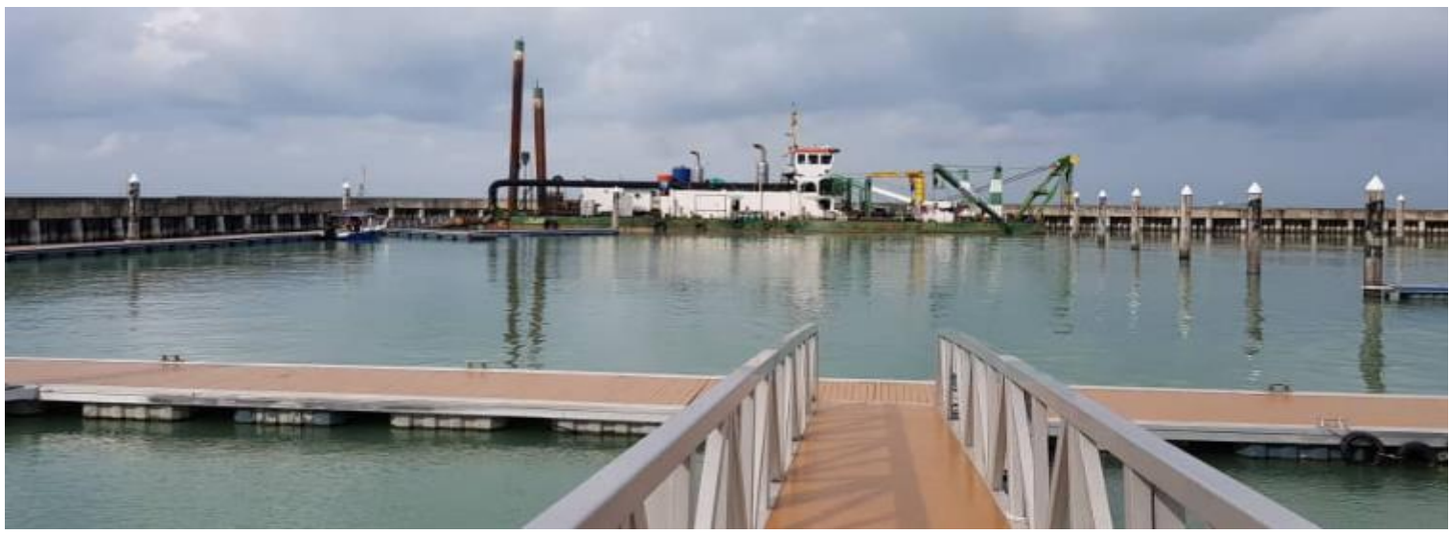
INTEGRATED MARINE WORKS
SDN BHD

Capital & Maintenance Dredging at Port Klang, Selangor

INTEGRATED MARINE WORKS
SDN BHD

Capital Dredging at Marina Melaka, Melaka (2019)

INTEGRATED MARINE WORKS
SDN BHD



IMWgroup.2018.034

Breakwater Construction at Kuantan Port, Pahang

INTEGRATED MARINE WORKS
SDN BHD

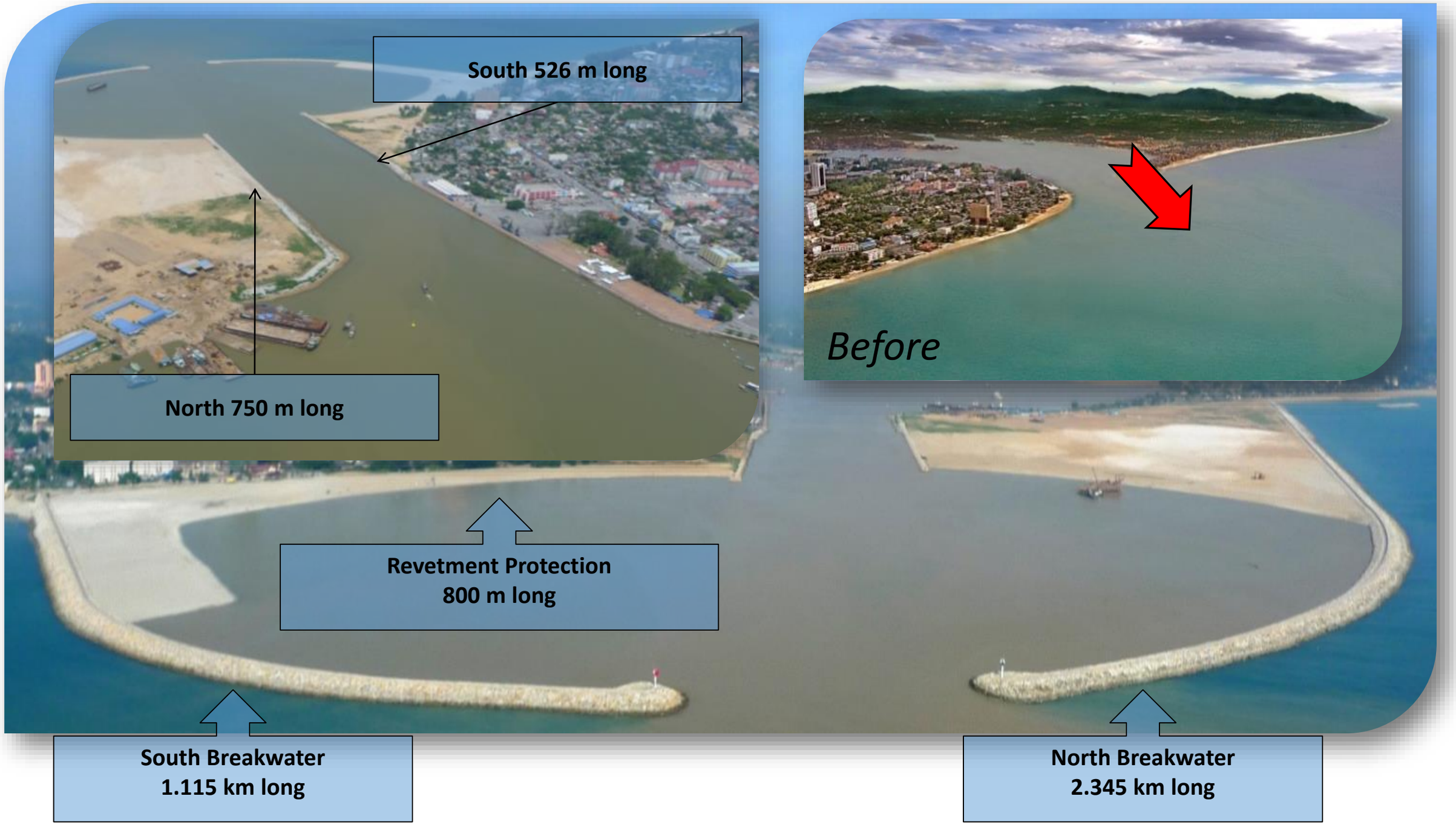
Breakwater Construction at Bintulu Port, Sarawak

INTEGRATED MARINE WORKS
SDN BHD

IMWgroup.2018.036

Breakwater & Channel Deepening Works of Muara Sungai Terengganu

INTEGRATED MARINE WORKS
SDN BHD



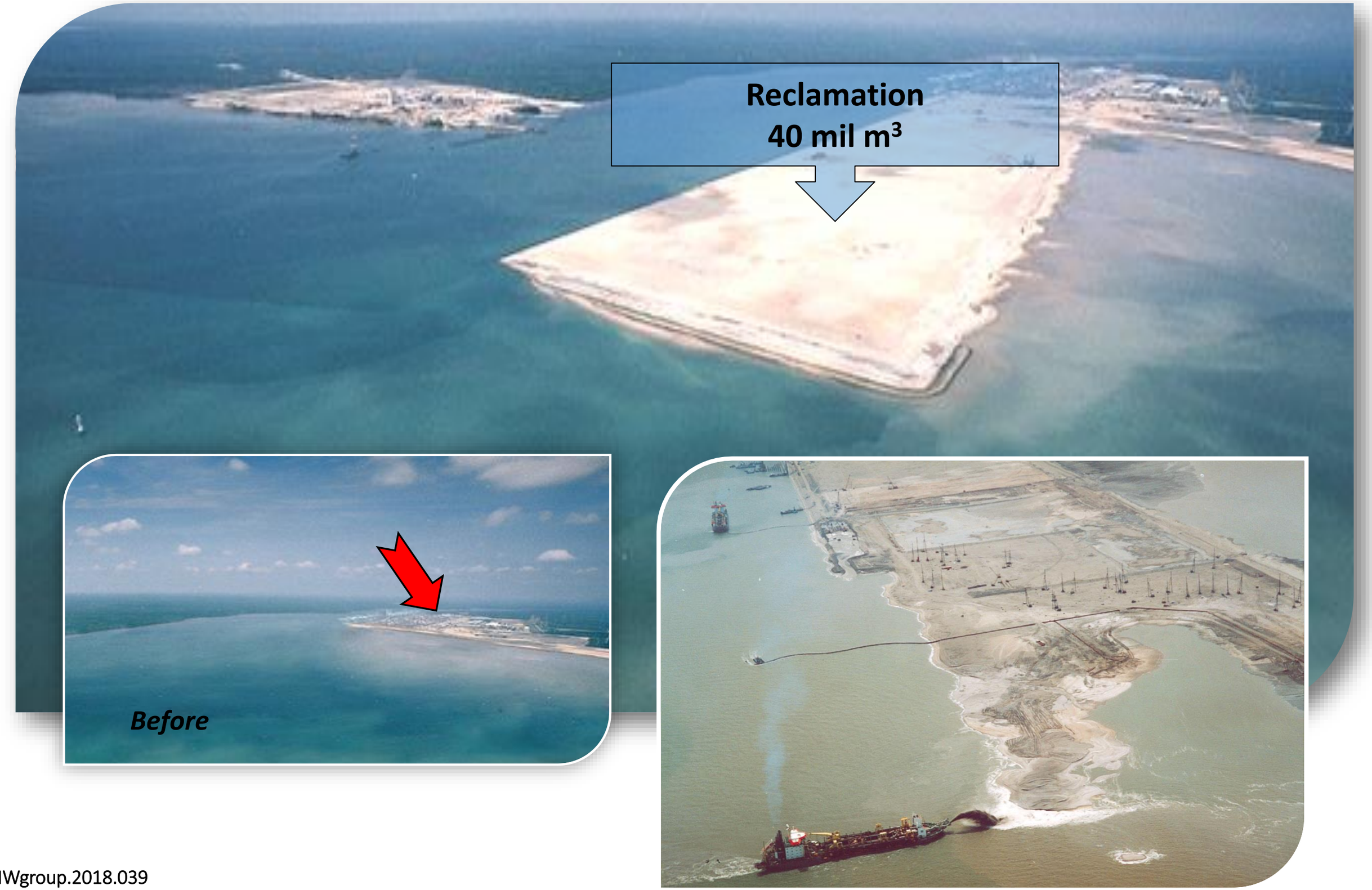
Breakwater & Channel Deepening Works of Muara Sungai Terengganu

INTEGRATED MARINE WORKS
SDN BHD

IMWgroup.2018.038

Reclamation Works at Tg. Pelepas Port, Johor

INTEGRATED MARINE WORKS
SDN BHD



Reclamation Works at Tg. Pelepas Port, Johor

INTEGRATED MARINE WORKS
SDN BHD

Reclamation Works at Miri Marina Park, Sarawak

INTEGRATED MARINE WORKS
SDN BHD

IMWgroup.2018.041

Reclamation Works at Terengganu Airport

INTEGRATED MARINE WORKS
SDN BHD

Reclamation & Ground Improvement Works

INTEGRATED MARINE WORKS
SDN BHD

Wreckage Removal Works at Kuantan Port, Pahang

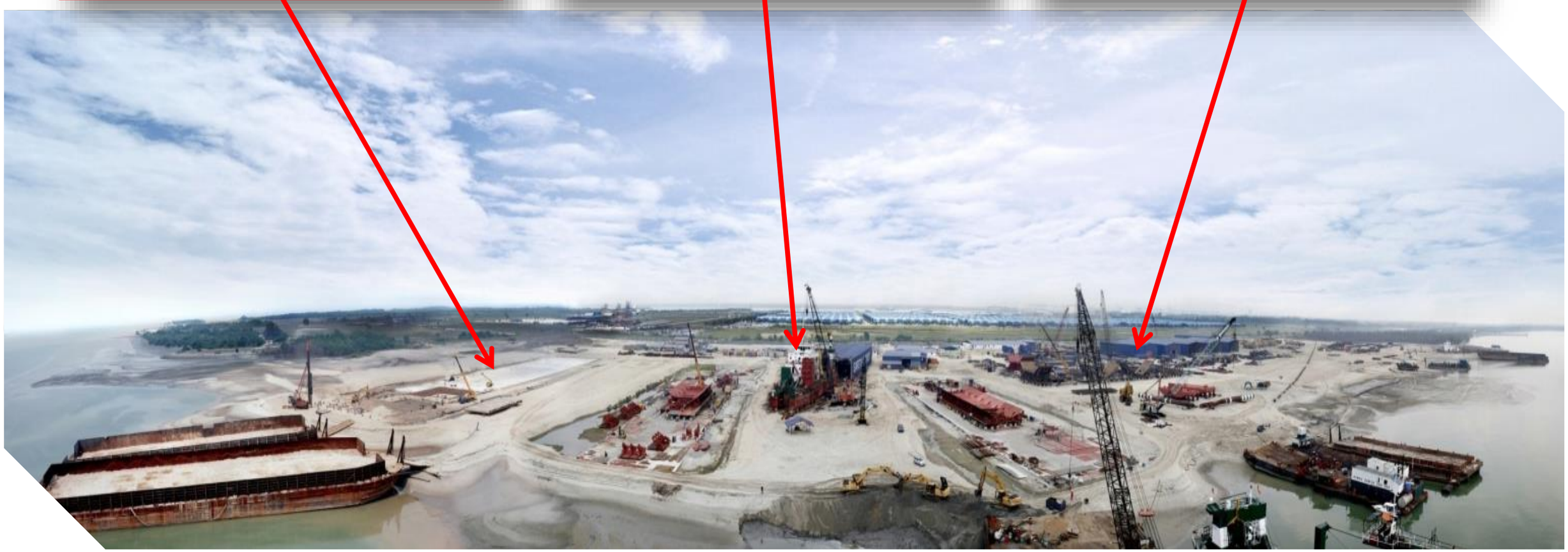
INTEGRATED MARINE WORKS
SDN BHD

RESOURCES & SHIPYARD FACILITIES

IMWgroup.2018.045

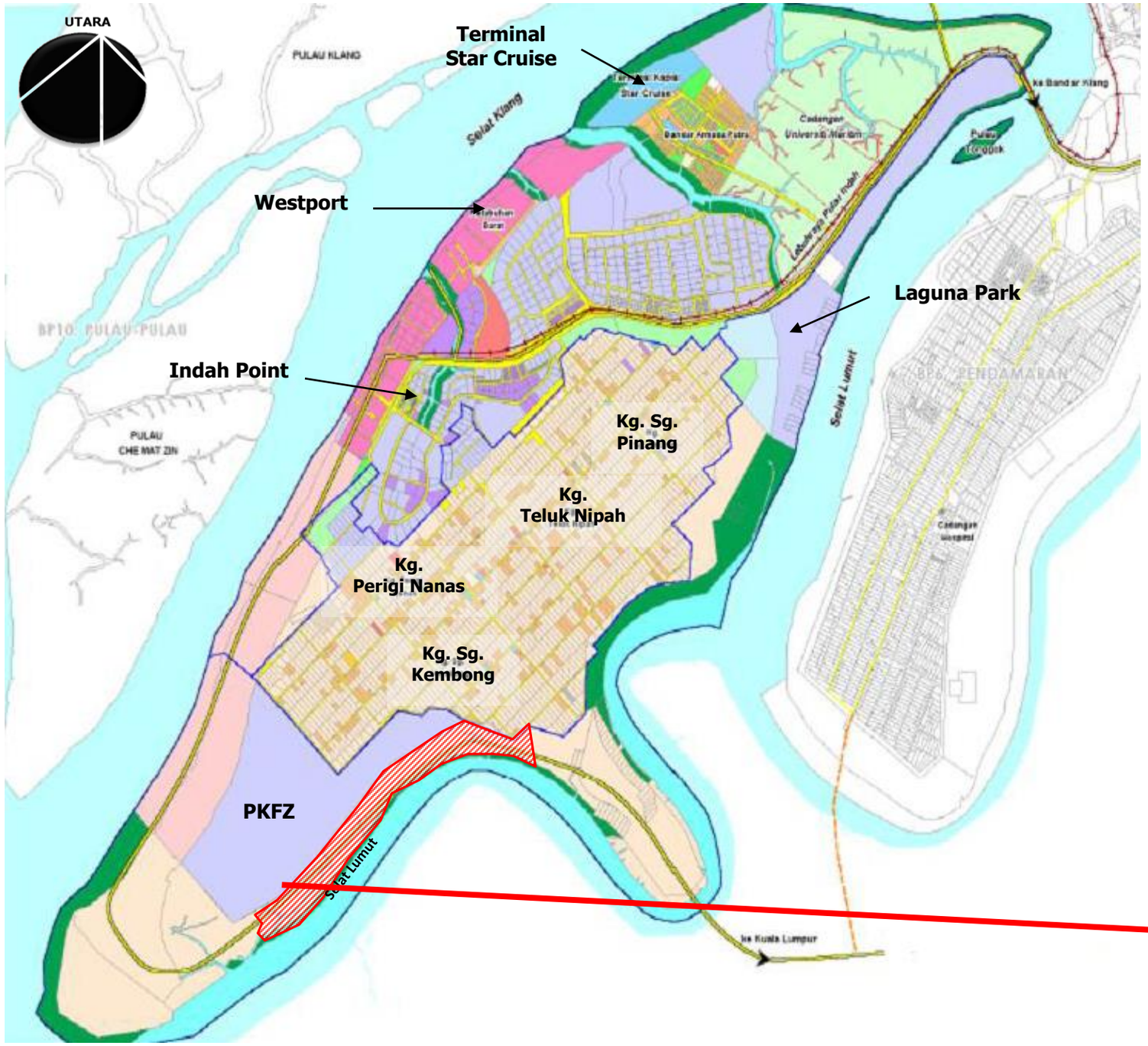
EXISTING SHIPYARD (2018)

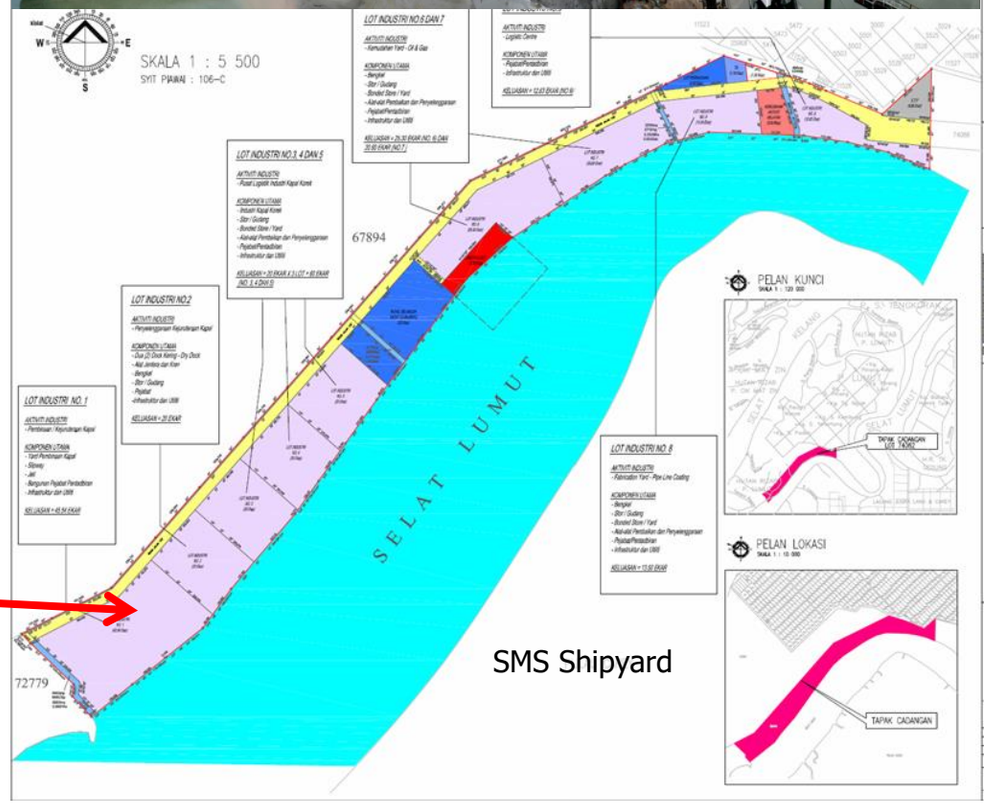
Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



EXISTING SHIPYARD LOCATION @ PULAU INDAH

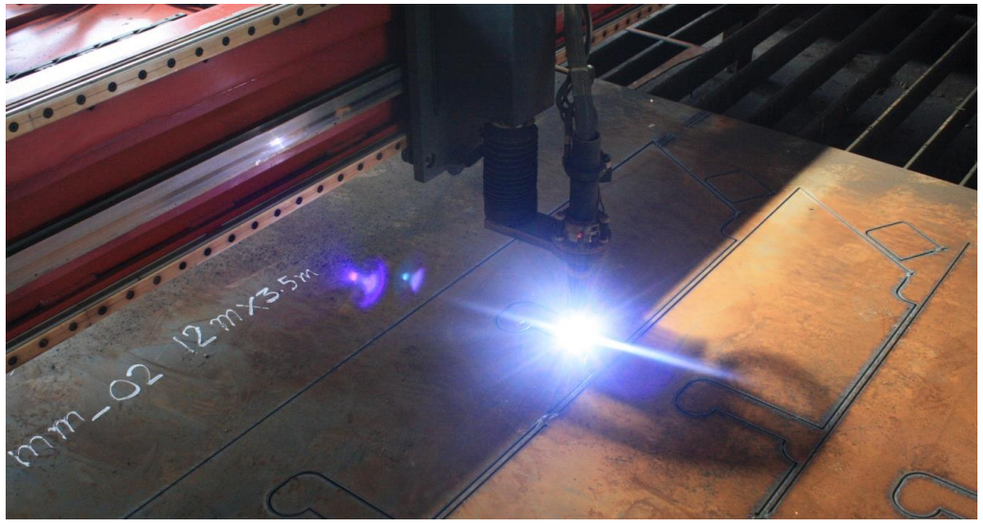
Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)





COMPUTER NUMERICAL CONTROL MACHINE (PLASMA)

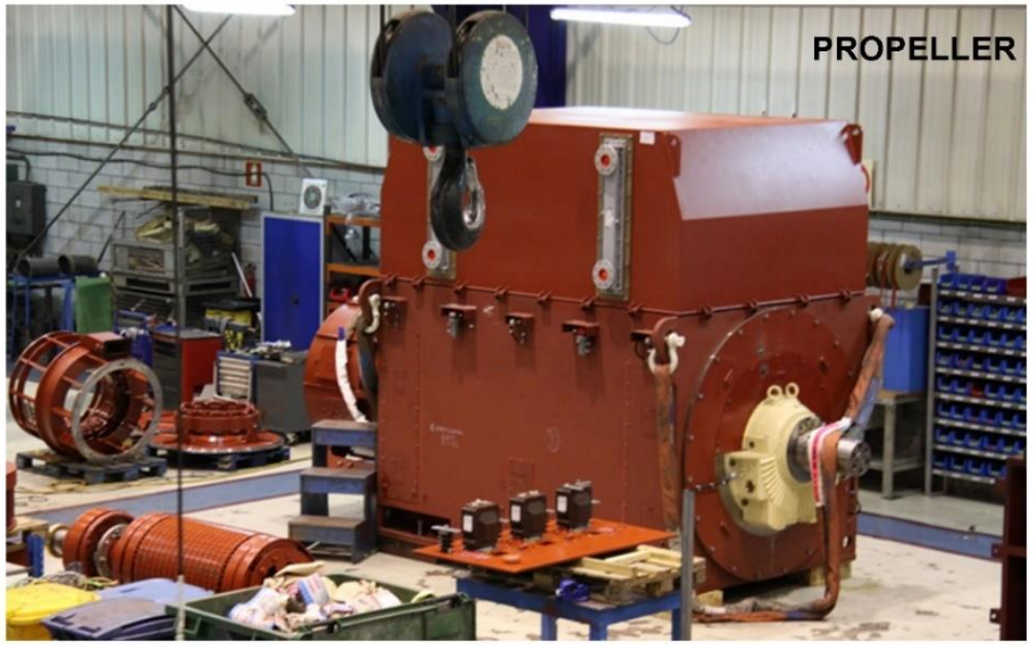
Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



DREDGER EQUIPMENTS

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

DREDGER EQUIPMENTS



DREDGER EQUIPMENTS

Selat Melaka SHIPYARD SDN. BHD. (716023-A)

Silencers & Economizers

Sand Pump Gearboxes

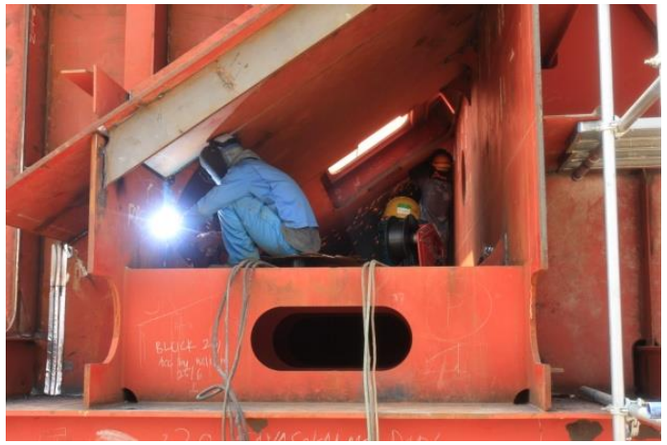
Starting Air Reservoire Installed

Rotating Converter

FABRICATION YARD – PUMP CASING & IMPELLER

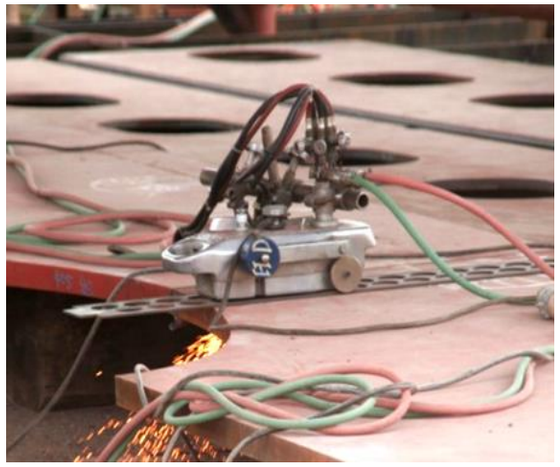
FABRICATION YARD - HARD STAND FOR SHIP BLOCKS

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



FABRICATION YARD - HARD STAND FOR SHIP BLOCKS

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



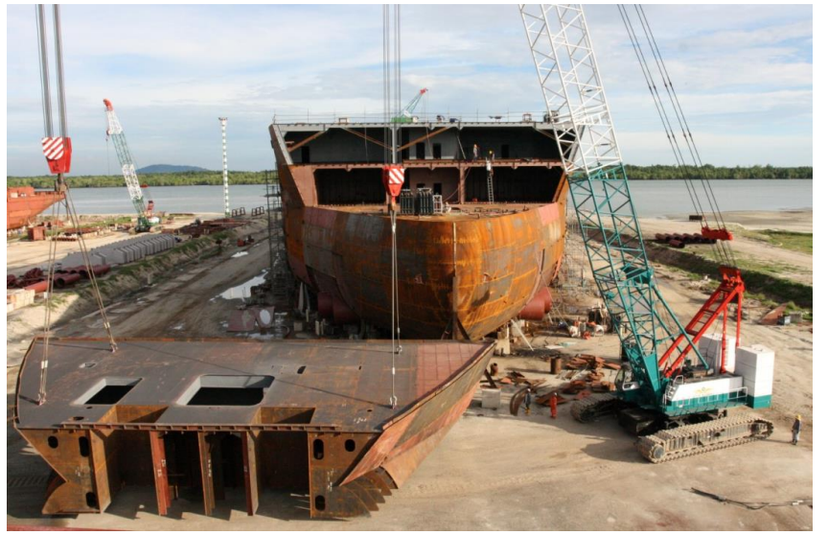
IMWgroup.2018.053a

FABRICATION YARD - TRANSPORTATION

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

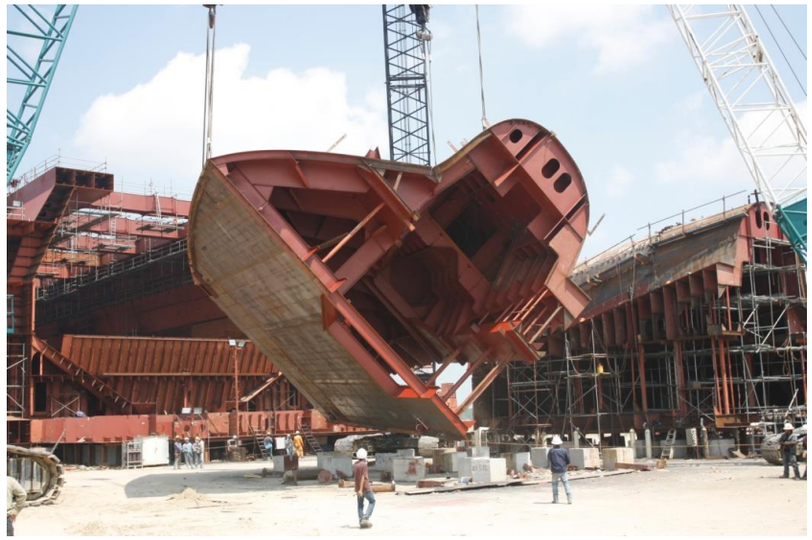
FABRICATION YARD - HEAVY LIFTING

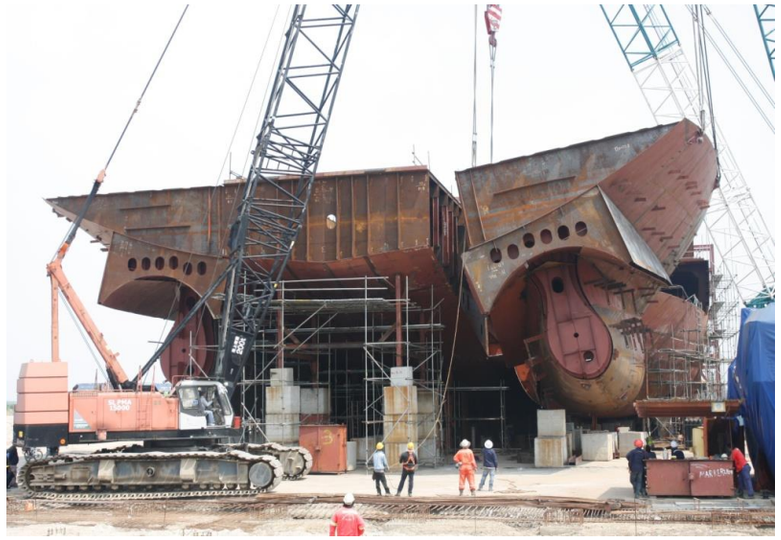
Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

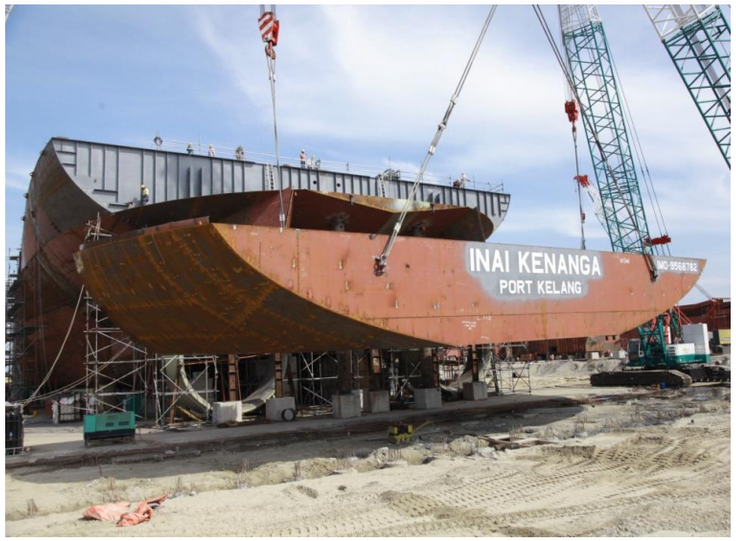


FABRICATION YARD – HEAVY LIFTING

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



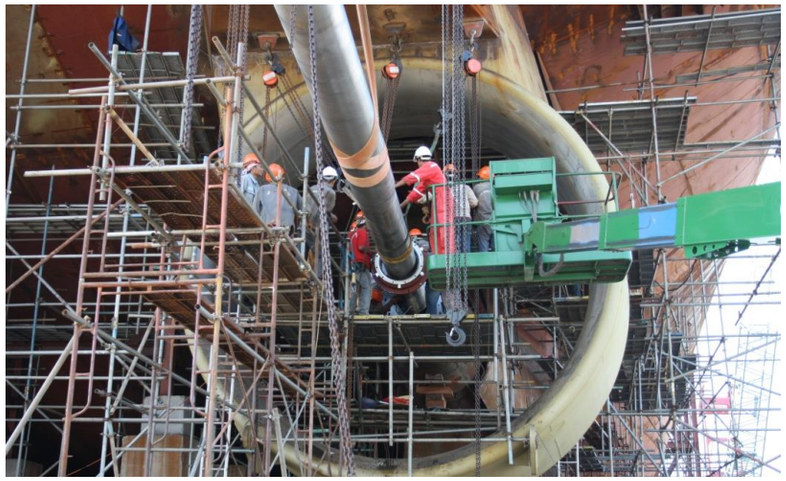




IMWgroup.2018.056

FABRICATION YARD – PROPELLER INSTALLATION

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



FABRICATION YARD – MAIN ENGINE

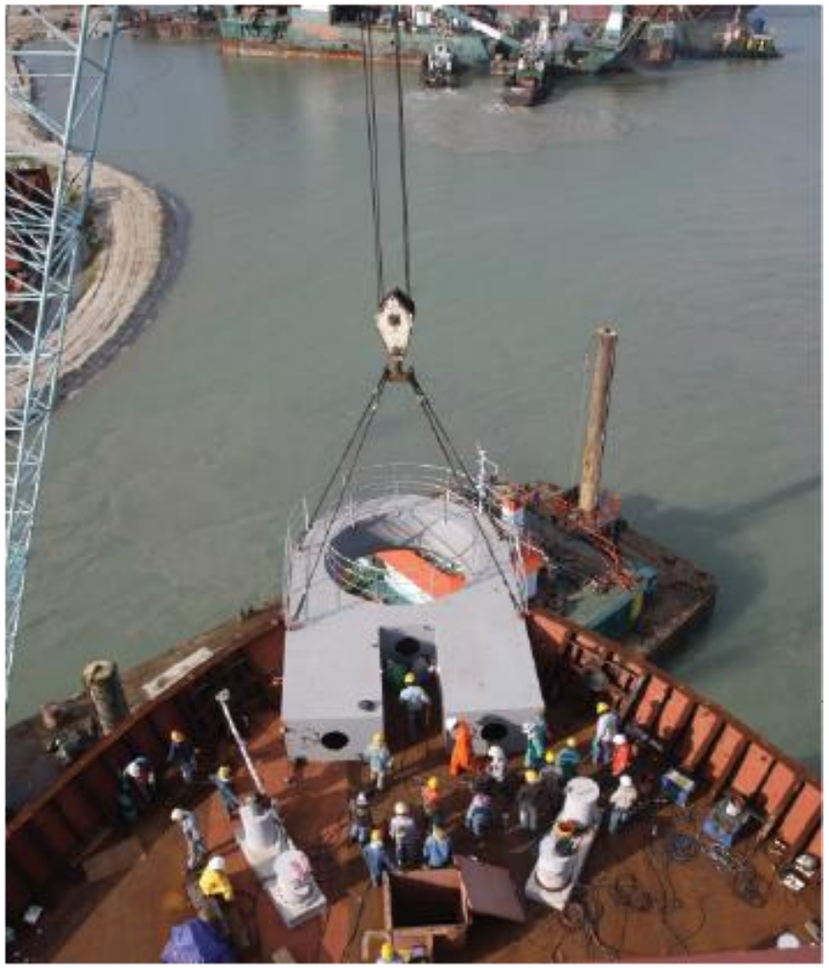
FABRICATION YARD – MAIN ENGINE LIFTING

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

IMWgroup.2018.059

FABRICATION YARD – INSTALLATION OF BOW COUPLING

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



IMWgroup.2018.060

FABRICATION YARD – BLASTING & PAINTING

Selat Melaka SHIPYARD SDN. BHD. (716023-A)

CRANES & DREDGER DRAGHEAD INSTALLATION

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

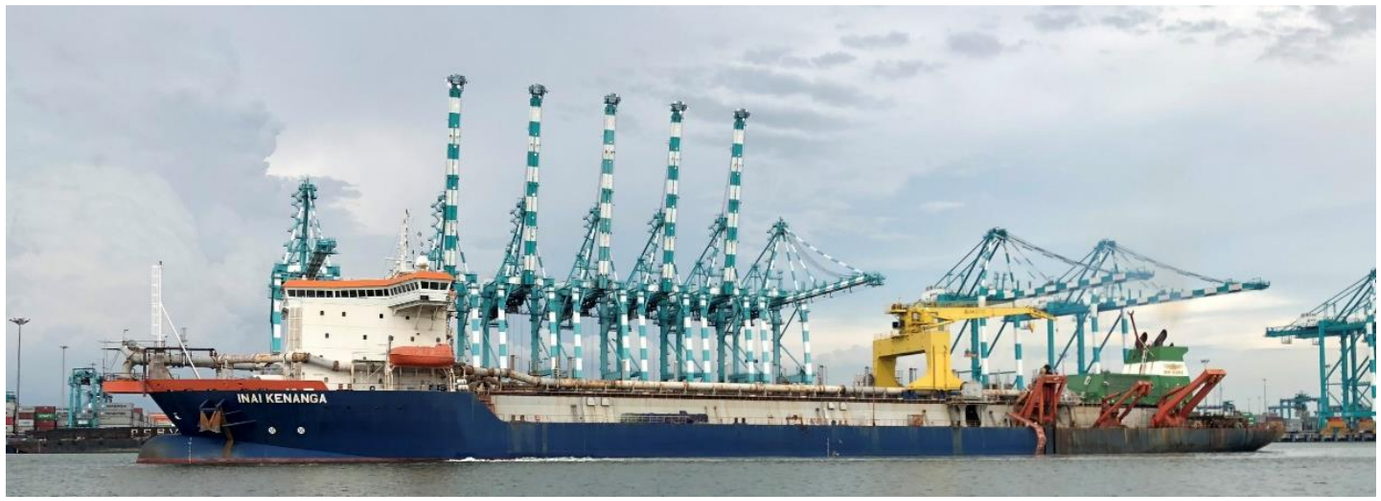
IMWgroup.2018.062

TSHD INAI KENANGA (33,335m3)

Selat Melaka SHIPYARD SDN. BHD. (716023-A)

SPECIFICATIONS

Length Overall	**: 197.7 m**
Breadth	**: 14.9 m**
Depth	**: 36.4 m**
Draught Dredging	**: 12.3 m**
Deadweight	**: 50,000 tonnes**
Hopper Capacity	**: 33,335 m^3**



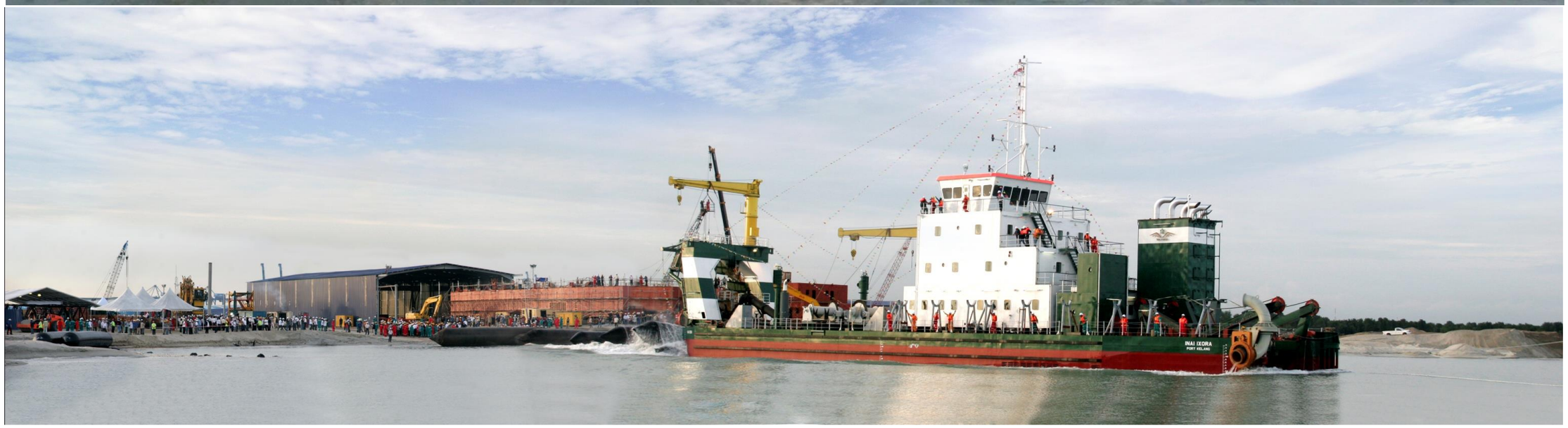
CSD INAI IXORA (13,800HP)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

IMWgroup.2018.064

CSD INAI IXORA (13,800HP)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



IMWgroup.2018.065

FABRICATION YARD – CONSTRUCTION OF CSD INAI LIATREE (13,800HP)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

CSD INAI LIATREE (13,800HP)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

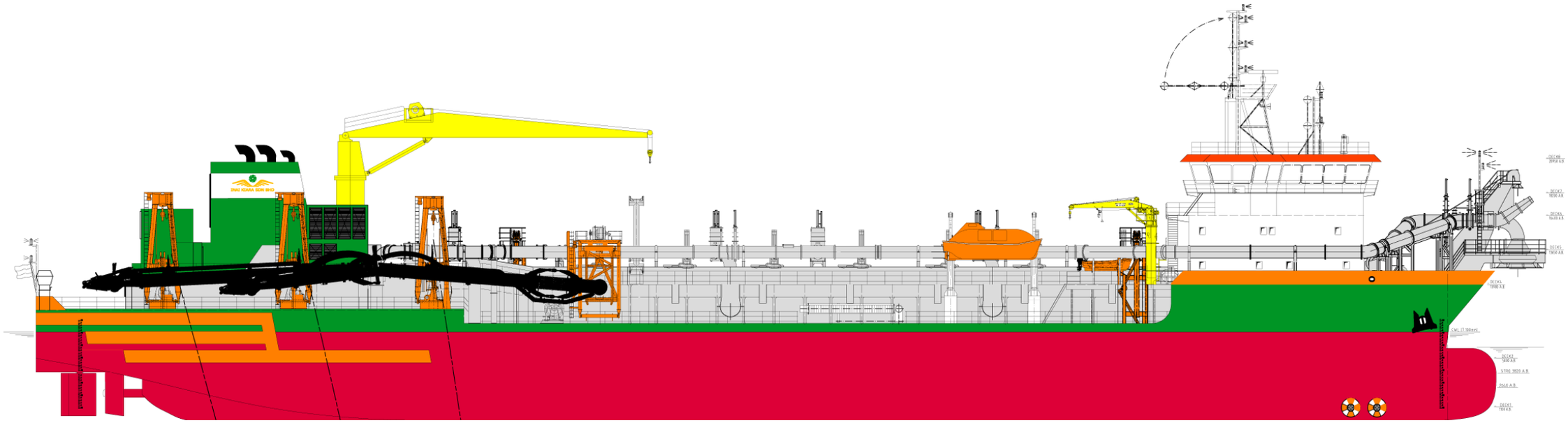
OUR ACHIEVMENTS – 2011 Launching of CSD Inai Liatree

OUR ACHIEVMENTS – 2011 Launching of CSD Inai Liatree

IMWgroup.2018.069

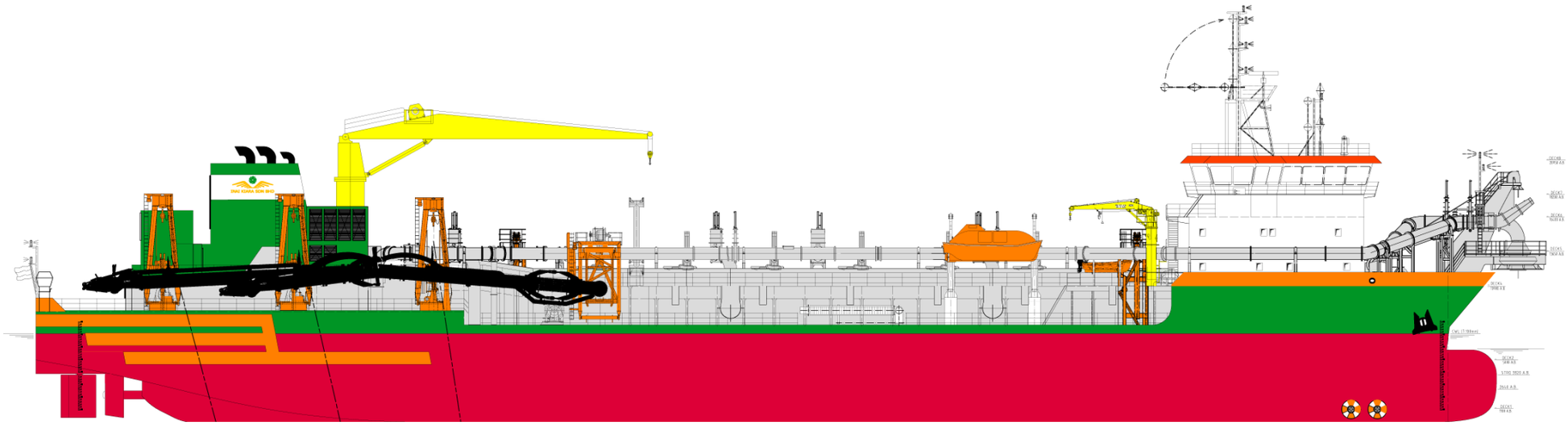
SHIPBUILDING – VESSEL UNDER CONSTRUCTION

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



TRAILING SUCTION HOPPER DREDGER				
Year Built	Vessel Name	LxBxH (m)	Hopper Capacity (m^3)	Remarks
2018	Inai Permai	230 x 55 x 20	70,000	
2014	Inai Jasmine	117.3 x 21.0 x 14.9	8,800	
2014	Inai Saffron	117.3 x 21.0 x 14.9	8,800	

TSHD INAI JASMINE (8,800m3)

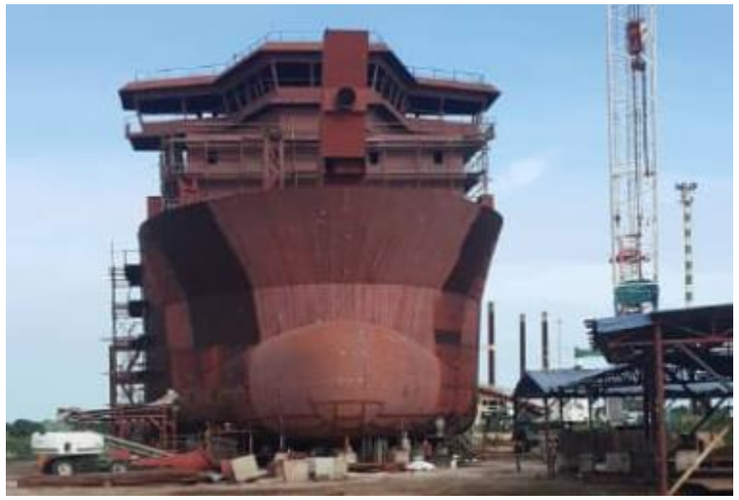


SPECIFICATIONS

Length Overall	**: 117.3 m**
Beam	**: 21.0 m**
Depth	**: 14.9 m**
Draught Dredging	**: 7.1 m**
Deadweight	**: 47,500 tonnes**
Hopper Capacity	**: 8,800 m^3**

TSHD INAI JASMINE (8,800m3)

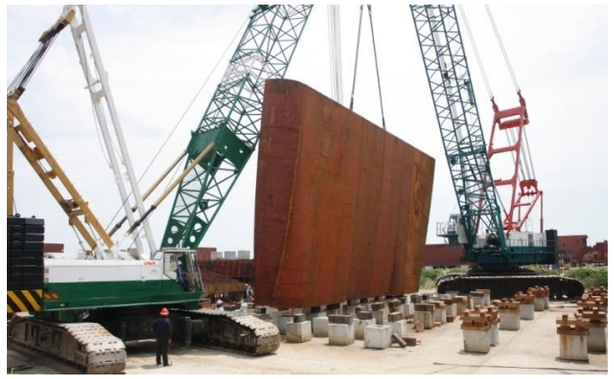
Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

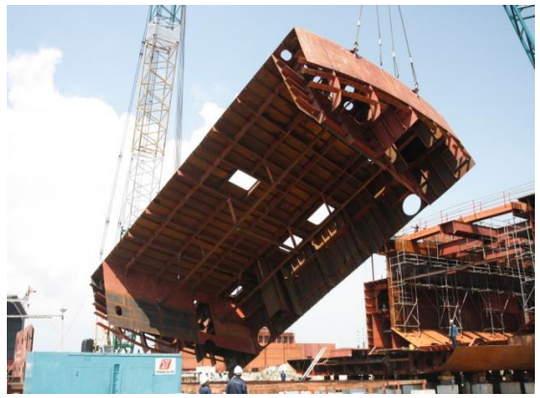


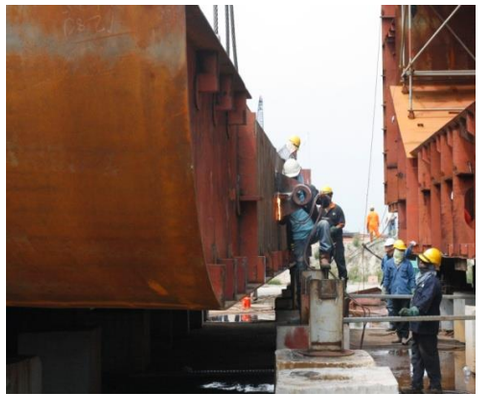
IMWgroup.2018.073

TSHD INAI JASMINE (8,800m3)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

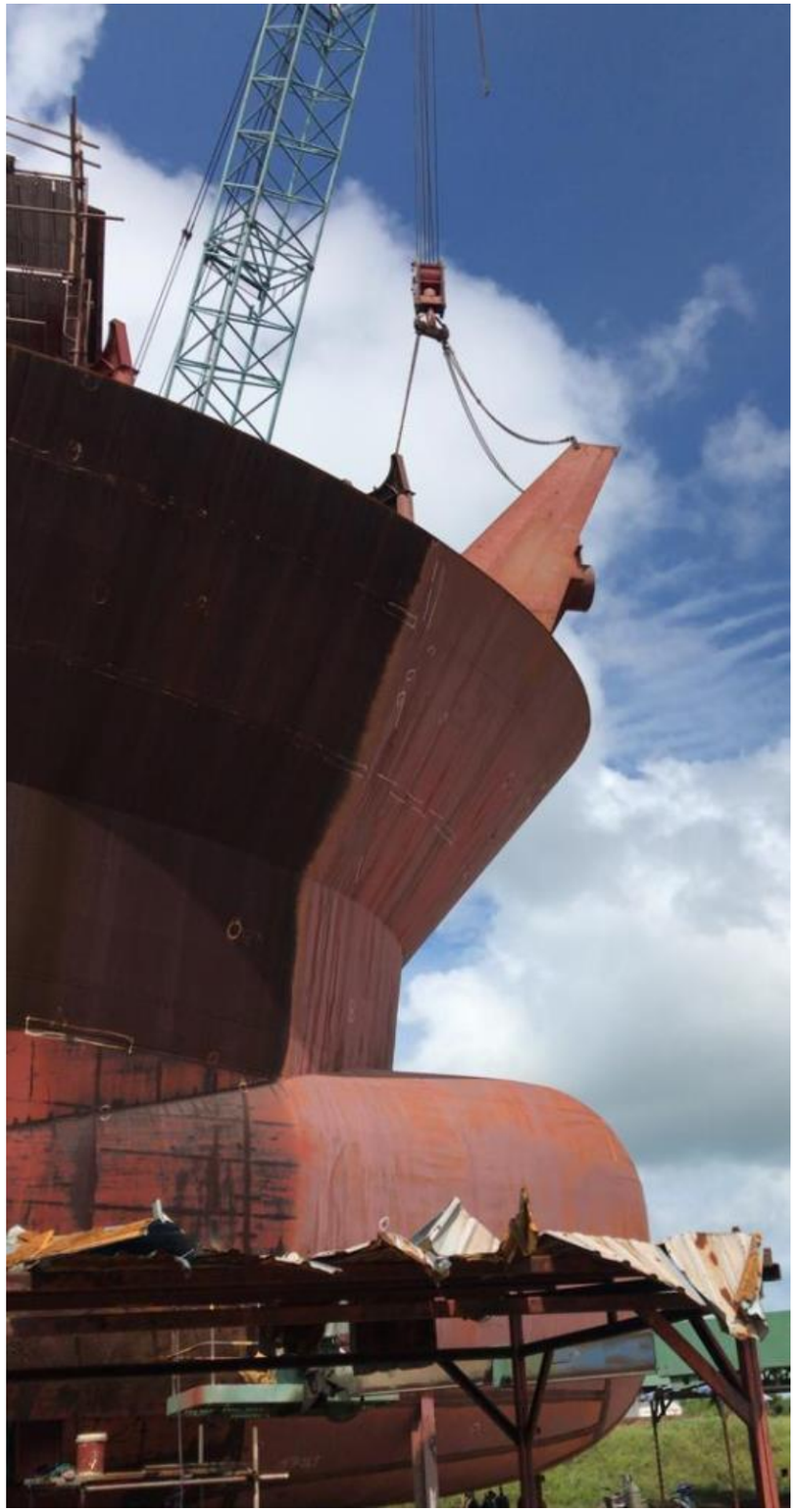






TSHD INAI JASMINE (8,800m3)

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)



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TSHD INAI SAFRON (8,800m3)

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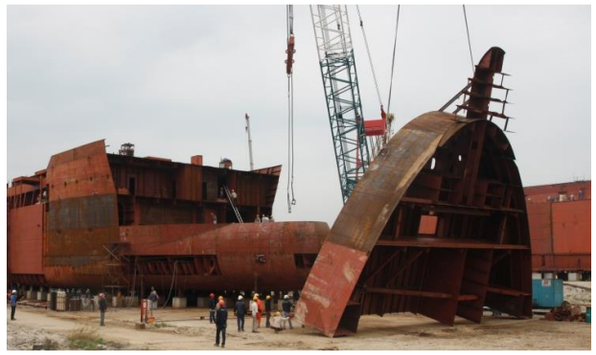
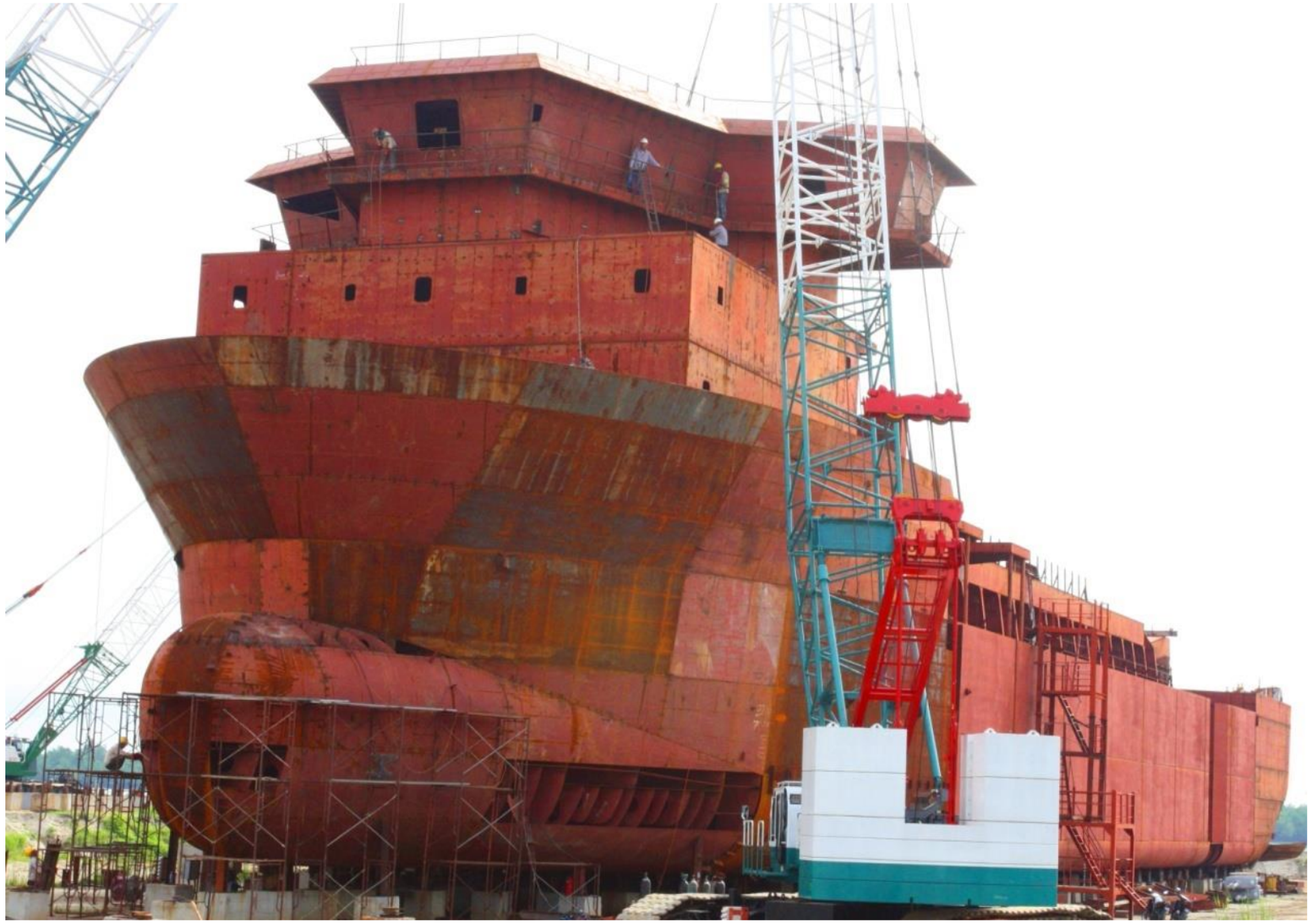
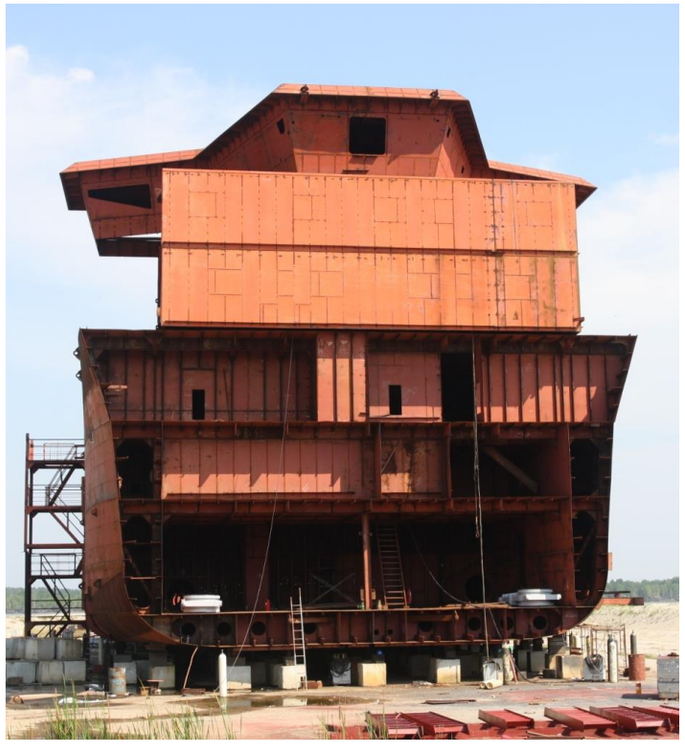
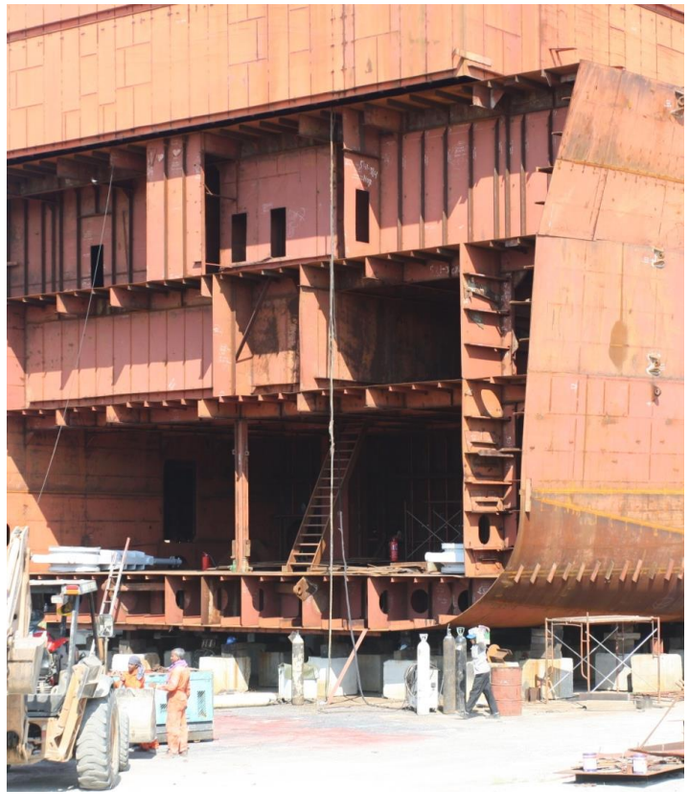
SHIPYARD SDN. BHD.
(716023-A)



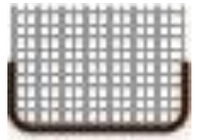
TSHD INAI SAFRON (8,800m3)

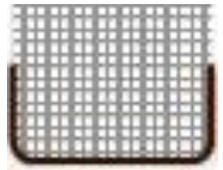


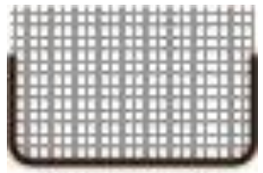




EVOLUTION OF CONTAINER SHIPS







398m x 54m

398m x 54m (18,800 ~ 22,000teu)

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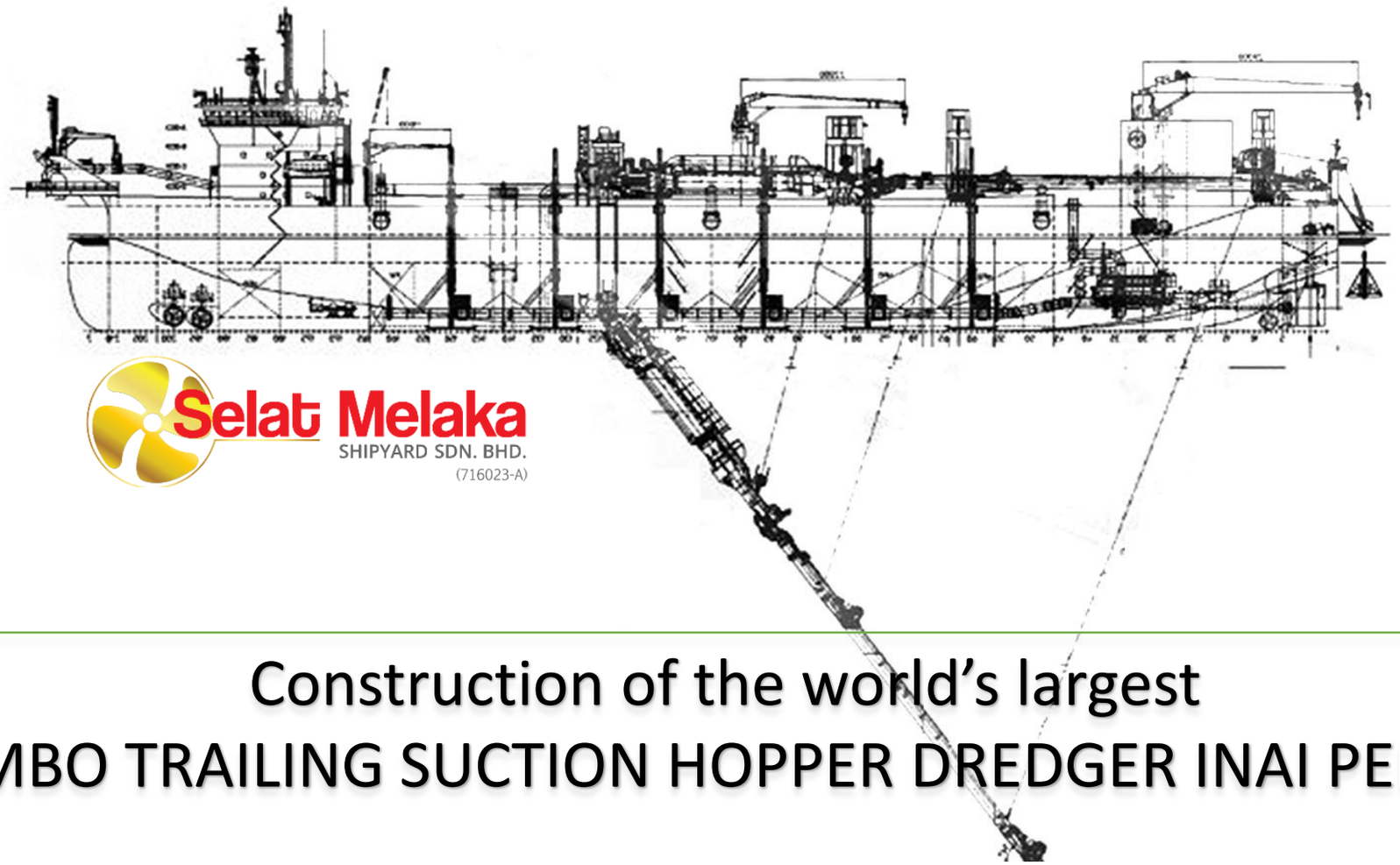
WAWASAN 2020 – LARGEST JUMBO DREDGER IN THE WORLD

JUMBO TSHD INAI PERMAI (70,000m3)



Construction of the world's largest
JUMBO TRAILING SUCTION HOPPER DREDGER INAI PERMAI

Incorporating latest technologies to meet safety, accuracy and efficiency.

Length 230m x Width 55m x Depth 20m
Hopper capacity : 70,000m3
Dredging depth : upto 140m

TOWARDS WAWASAN 2020

THANK YOU

INTEGRATED MARINE WORKS SDN BHD

INAI KIARA SDN BHD

Selat Melaka SHIPYARD SDN. BHD. (716023-A)

OUR ACHIEVMENTS – 2011 Launching of CSD Inai Liatree

IMWgroup.2018.069a

2011 LAUNCHING OF CSD INAI LIATREE

Selat Melaka
SHIPYARD SDN. BHD.
(716023-A)

IMWgroup.2018.069b

2011 LAUNCHING OF CSD INAI LIATREE

IMWgroup.2018.069c

2011 LAUNCHING OF CSD INAI LIATREE

IMWgroup.2018.069d