



**SHIP CONSTRUCTION PROJECT MANAGEMENT,
MARINE POWER PLANTS MAINTENANCE AND REPAIR**



Who we are

CISS GROUP Pte.Ltd. is a Singapore based company, incorporated in 2016.

CISS GROUP is a team of professionals with vast (over **20 years experience**) in the maritime business.

We are involved in shipping business as a third party contractor. Our main business: independent inspection and supervision.

We have joined up our forces, experience and knowledge in order to offer the best business practices and customized solutions for the needs of our clients. Operational excellence and high standards of CISS GROUP allow our partners to feel protected twenty-four-hour a day.

There are three CORE businesses in our GROUP:

- cargo quantity and quality survey, testing, inspection and certification of different cargoes and commodities;
- ship brokerage and vessel chartering, ship operation and management;
- project management, coordination and control of ships; construction/conversion/modernization and independent control of execution of all stages on the shipyards; organization of maintenance and repair works for marine power plants at dry docks, onboard the vessels during voyages by afloat/mobile repair team.

We provide service globally - all around the world by own or subcontracted inspectors in more than **60 countries and more than **150 ports**.**

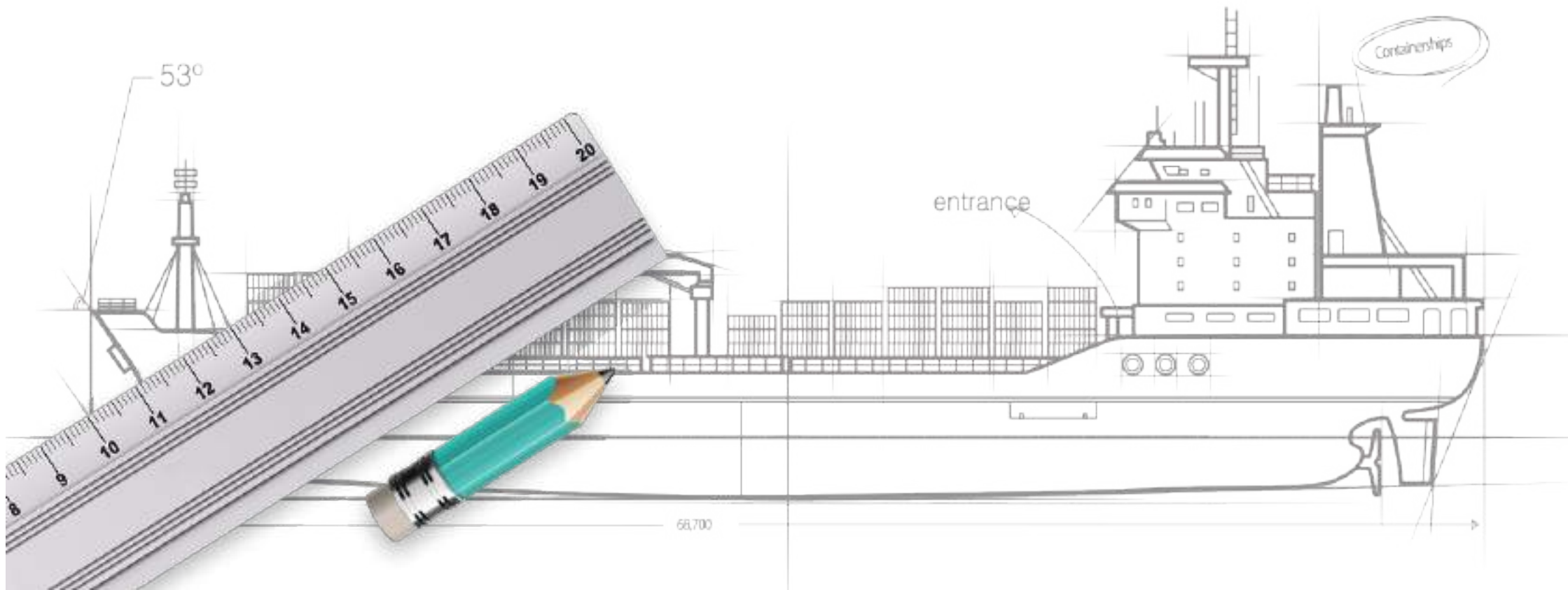
Ship construction project management, marine power plants maintenance and repair.

In the ship's project management, repair and maintenance our staff experienced and specialized for such kind of vessels: LNG, LPG, FPSO, FSRU, OSV (AHTS, PLV), seismic and wind turbines service vessels.



Ship's design and plan.

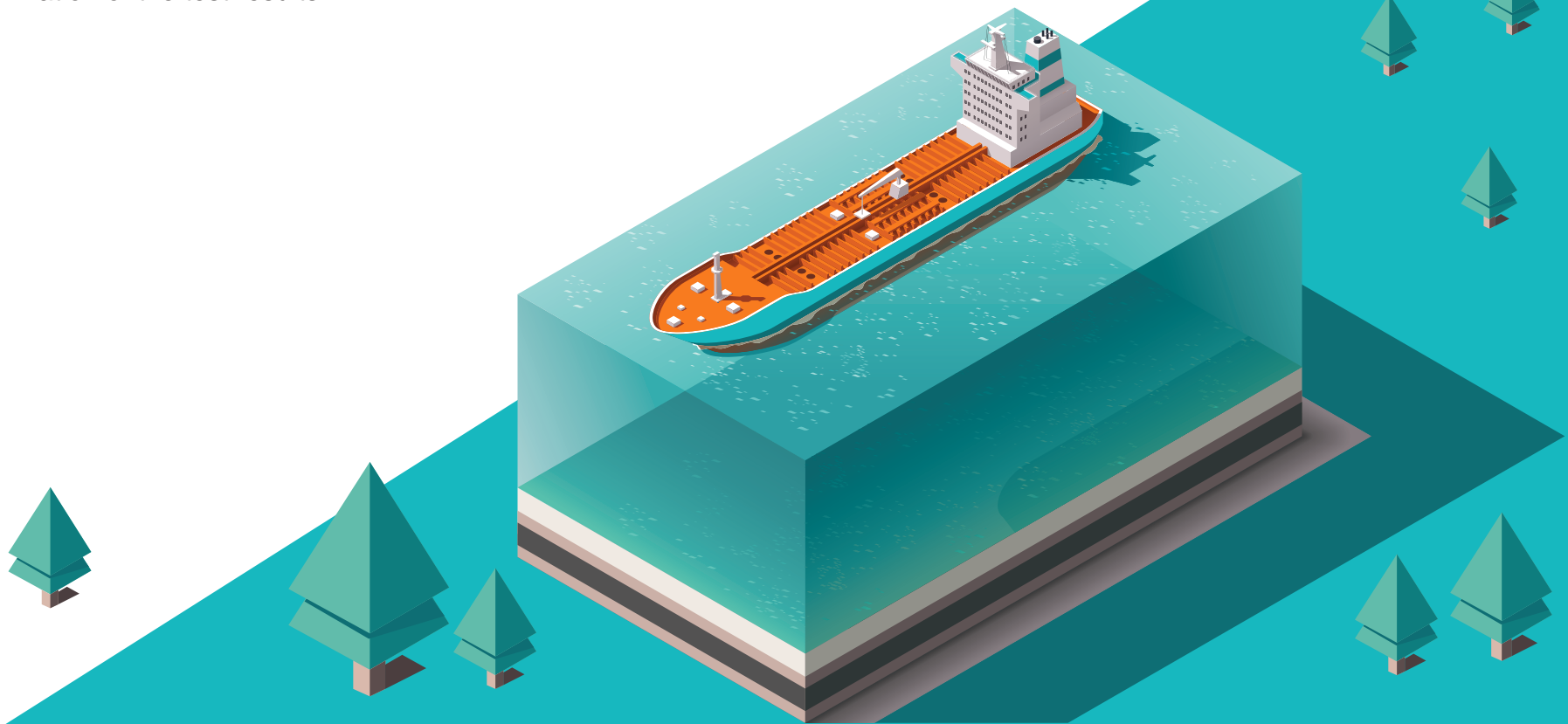
- Independent examination and negotiation of vessel's principal drawings and building plans;
- overseeing the design and construction of the hull structure, electrical, electronic and marine systems;
- redesign and corrections (if any) of ships drawings and particulars;
- new build ships plan approval of the hull on behalf of vessel owners;
- development of modernization, conversion and renovation projects for all types of vessels, including change of assignment, class, cargo capacity, area of navigation and ice category under any classification society;
- taking participation in drawings approval of hull repairs, modifications and upgrading projects for ships;
- design engineering and converting single hull vessel to a double hull to meet safety requirements;
- inspection of drawings for machinery upgrades on vessels;
- concept development and basic engineering consulting;
- advisement for hull structure modification during vessel's dry docking after collision, includes design, fabrication arrangement and class drawings;
- analysis of actual fulfillment of requirements of Classification societies, International Conventions and Flag Authorities



Ship model trials in the basin. Factory assessment tests.

Before the ship starts construction at the shipyard, our inspectors can provide:

- attendance and participation in model tests in the trial basin/pool, analysis of model tests reports, stability tests;
- consultation of the customer on selection of principal vessel's equipment suppliers;
- attendance and participation in factory acceptance tests (FATs), confirmation of the test results





Supervision of hull construction at shipyard.

- taking participation in coordination, planning, execution, technical support and procurement during different phases of projects, ensuring compliance with Company Policies, International Rules and Regulations, Quality & Safety Management standards;
- supervisions of hull construction assembling, welding of steel constructions;
- providing of non-destructive testing of welding and thickness of the steel (ultrasonic, radiographic and penetrate testing)



Supervision of hull painting at shipyard.

- design of different ways of anticorrosion protection (Cathodic Protection and coatings) in accordance with ISO 12944 and recommendations for corrosion impact reducing;
- supervision and verification of surface preparation, painting and insulation refractory works in shipyard (new building and ship maintenance);
- performing Adhesion Test of coatings, paint application monitoring Climatic conditions, coating thickness and evaluating the results as per the standards and industry specifications;
- inspection and quality control of coating and insulation on building





Inspection of ship's equipment installations.

- supervision of equipments installations and commissioning on board (deck, navigational equipment at captain bridge, engine room – main engine, diesel generators, fuel separators, boilers, gas turbines, steering gear, incinerators, evaporators, desalination, water preparation and sewage plant, ballast systems etc. and including all auxiliary machinery with automation remote control panels);
- superintendence and supervision activities for mechanical construction and commissioning of marine electric, instrumentation and telecommunication (E, I & T), integrated automation systems;
- consulting and control of installation and testing trial runs of full range of new electrical, instrumentation, electronic and computer-based equipment and IAS;
Our engineers are experienced with ABB, Schneider, Terasaki, IMESA electrical equipment, as well Kongsberg, Honeywell, Yokogawa and Siemens integrated automation systems;
- checking out that all installations are made in accordance with Class Rules, IEC standards, IMO codes and conventions;
- quality control inspections and tests, including non-destructive and destructive testing techniques, mechanical testing, dimensional inspection, emergency alarms and monitoring systems etc.;
- testing of ship's local fire-fighting systems and fire-detection systems;
- taking participations in all testing of emergency equipments and rescue boats

Marine trials and vessel delivery to the owner.

- attendance and participation in the Sea trials on the site;
- verification of compliance of key tests and trials with the technical parameters agreed under the Vessel Building Contract and Technical Specifications;
- attendance and participation in Vessel's delivery to the owner



Other services provided for ship owners.

- organization of dry dock repairs and maintenance works on board during voyages by afloat/mobile repair team for marine power plants and others: main engine, diesels generators, engine room auxiliary machinery and installations, different electrical, radio-navigation, telecommunication and automation equipment, repair of hull, repair of ship's systems, repair of deck machinery, ship cranes and derricks;
- planning an effective preventive maintenance and repair schedules for various shipboard machinery;
- executing cost and energy saving techniques/measures and modifications to achieve substantial reduction in expenditures and working within the budget;
- fail and malfunctions investigation, detection;
- testing of ship's devices, systems and equipments



- ultrasonic tests for measurements of thicknesses of pressure vessels and pipelines;
- tightness testing of hatches and openings by means of ultrasonic equipment and water hose tests;
- clearing, sand blasting and painting works;
- technical documentation and drawings workouts;
- Instrumentation, Telecommunication, Navigation equipment installation, testing and commissioning;
- on/off hire survey, bunker & condition survey, including lab. analyses for all petroleum products;
- damage inspection;
- loss prevention inspection;
- pre-purchase (or after-sales) survey (Ship & Cargo);
- marine casualties, collisions, grounding, stranding, pollution survey;
- supercargo service;
- underwater services - underwater inspection, hull cleaning, propeller polishing, sea chests and sea chests grids, bilge keel, rudder, anodes replacement etc.



Underwater inspection.

Our highly certified, trained and experienced divers have the expertise to undertake any under-water shipping maintenance, inspection and surveys of any complexity such as:

- hull repairs - underwater cutting and welding, repair, inspection and technical maintenance of pipelines;
- underwater technical operations for port facilities;
- underwater certification for Class of the ship;
- underwater inspection of hull for cleaning, propeller polishing, sea chests and sea chests grids, bilge keel, rudder, anodes replacement etc.



Work process.





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It's shipping & survey