

Key components to include when preparing a BOQ for Vessel Construction.

Bill of Quantities (BOQ) for vessel construction typically includes various key components that are essential for the construction process. While the specific components can vary depending on the type and purpose of the vessel, here are some common elements that may be included in a vessel construction BOQ:

1. **Main Hull Construction:** This includes the construction of the vessel's hull, which involves steel or other materials, plate bending, welding, and painting.
2. **Deck Construction:** This involves the construction of the main deck and its supporting framework. It includes the installation of steel plates, beams, and other structural elements that form the deck's foundation.
3. **Wheelhouse Construction:** This involves the construction of the enclosed area or room on the vessel where the navigation bridge is located. It includes the installation of steel plates, windows, doors, and other structural components to create a safe and protected area for navigation operations.
4. **Machinery and Equipment:** This covers the installation of machinery and equipment onboard the vessel, such as engines, generators, propulsion systems, pumps, compressors, HVAC (Heating, Ventilation, and Air Conditioning) systems, and electrical systems.
5. **Piping and Plumbing:** This involves the installation of piping systems for various purposes, including fuel, water, sanitation, and fire-fighting systems. It includes pipes, fittings, valves, pumps, and other necessary components.
6. **Interior Fittings and Accommodations:** This includes the construction and installation of interior fittings, such as cabins, galley (kitchen), mess rooms, crew quarters, bathrooms, and other accommodations.
7. **Navigation and Communication Systems:** This covers the installation of navigation and communication equipment, including radar systems, GPS (Global Positioning System), radio equipment, and other relevant devices.
8. **Deck Equipment:** This includes the installation of equipment and machinery on the vessel's deck, such as cranes, winches, windlasses, capstans, davits, and lifeboats.
9. **Safety and Fire Protection Systems:** This covers the installation of safety and fire protection systems, including life-saving equipment, fire detection and suppression systems, alarms, emergency lighting, and firefighting equipment.
10. **Insulation and Ventilation:** This involves the installation of insulation materials to maintain temperature control onboard the vessel, as well as ventilation systems to ensure adequate airflow.
11. **Interior Finishes:** This includes the finishing touches inside the vessel, such as flooring, wall paneling, ceiling systems, paint, and other decorative elements.
12. **Miscellaneous Items:** This category covers various miscellaneous items required for vessel construction, such as anchors, chains, ropes, fittings, gauges, instrumentation, and other smaller components.

Cost of labor incurred during each phase must also be reflected on the BOQ.

It's important to note that the specific items and quantities in a vessel construction BOQ can vary depending on the project specifications, vessel type, and client requirements.