

| JOB TYPE  | JOB DESCRIPTION  | AUTHORIZED MAKERS   | COMPETENT MAKERS  |
|---|--|---|---|
| <i>PUMPS &amp; TURBINES</i>                                 | CARGO PUMP   | SHINKO, KOSAKA LAB., TAIKO KIKAI  | MHI, HYUNDAI, NANIWA, SHIN NIPPON   |
|   | BALLAST PUMP   | SHINKO, TAIKO KIKAI, TEIKOKU  |   |
|   | TANK CLEANING PUMP   | SHINKO  |   |
|   | STRIPPING PUMP   | SHINKO  |   |
|   | CARGO OIL PUMP TURBINE   | SHINKO  |   |
|   | TANK CLEANING PUMP TURBINE   | SHINKO  |   |
|   | TUBRO GENERATOR TURBINE  | SHINKO  |   |
|   | VARIOUS GENERAL SERVICE/ COOLING PUMPS   | SHINKO, KOSAKA LAB., TAIKO KIKAI, SHIN SHIN, TEIKOKU MACHINERIES.             |   |
| <i>VALVES AND CONTROL SYSTEM</i>                            | CONTROL VALVES AND CONTROL SYSTEMS   | NAKAKITA  | YAMATAKE-HONEYWELL, GADELIUSRISYO VALVE WORK  |
|   | PRESSURE / VACUUM RELIEF VALVES/ VENTING EQUIPMENT   | NIKURA JAPAN  | PRESVAC, TANKTEC, SEWON, OTHERS   |
| <i>BWTS &amp; SCRUBBER SYSTEMS SUPPORT:</i>                 | <b>VRCS – BWTS INTERFACING/ SUPPLY OF VARIOUS VALVES INCLUDING DUPLEX STAINLESS STEEL, ACTUATORS &amp; CONTROL CABINET, IACS APPROVED ELECTRIC CABLES.</b> | NAKAKITA  | VARIOUS MAKERS  |
| <i>AUTOMATION / INSTRUMENTATION/ CALIBRATION</i>            | PUMP & TURBINE INSTRUMENTS   | SHINKO  |   |
|   | AUS CARGO DISCHARGE SYSTEM   | SHINKO  |   |
|   | CARGO TANK LEVEL/TEMP/PRESSURE GAUGES AND HH LEVEL ALARMS (Float Type)   | NAKAKITA  | MUSASINO, ENRAF - HENRI SYSTEMS   |
|   | PRESSURE TRANSMITTERS IN P/P ROOM AND RECEIVER UNITS IN CCR FOR CARGO & BALLAST SYSTEM   | MEIYO ELECTRIC, NAKAKITA  | NAGANO KEIKI  |
|   | AIR PURGE TYPE WBT LEVEL GAUGE & DRAFT GAUGES  | NAKAKITA  | ASAHI KEIKI, NAGANO KEIKI, HANLA, AUXITROL, UTSUKI KEIKI.                                 |
|   | CARGO AND BALLAST VALVES CONTROL SYSTEM AND ITS HYDRAULIC SYSTEM.  | NAKAKITA  | DANFOSS   |
|   | OIL CONCENTRATION DETECTOR OF 15 PPM BILGE SEPERATOR   |   | FELLOW KOGYO, RIVERTRACE, DECKMA, JOWA, BRANNSTROM  |
|   | ME VISCOCITY CONTROL UNIT  | NAKAKITA  | SAGINOMIYA  |
|   | INSPECTION AND FUNCTION CHECK OF IGS SYSTEM  | KASHIWA   |   |
|   | OIL MIST DETECTION SYSTEM  | MEIYO ELECTRIC  | DAIHATSU  |
|   | CONTROLLERS OF CONTROL VALVE FOR TEMPERATURE,PRESSURE AND LEVEL CONTOLLER  | NAKAKITA  | EPCON, OMC, MT-H, DAEHO   |
|   | <i>MARINE SAFETY</i>   | ANNUAL INSPECTION & CERTIFICATION OF LIFEBOAT & DAVITS                        | SHIGI SHIPBUILDING CO., LTD<br>NISHI-F CO.,LTD<br>TSUNEISHI FORESTRY CONSTRUCTION COMPANY |
| FIVE YEARLY INSPECTION & CERTIFICATION OF LIFEBOAT & DAVITS |  | SEKIGAHARA SEISAKUSHO LTD.<br>MANSEI INC, MIURA MACHINE CO., LTD.             |   |
| FIRE FIGHTING (EXTINGUISHING) SYSTEM                        |  | KASHIWA   |   |
| IMMERSION SUITS   |  | TAKASHINA   |   |
| <i>DECK EQUIPMENT</i>                                       | ELECTRO HYDRAULIC STEERING GEAR  | MHI (Together with SAMAYU CO LTD),<br>FLUTEK LTD, Korea (Together with maker) |   |
|   | WINCHES/WINDLASS, HYDRAULIC DECK MACHINERY   | NIPPON PUSNESS CO.LTD JAPAN,<br>FLUTEK LTD, Korea (Together with maker)       |   |
|   | HYDRAULIC WINCHES/WINDLASS   | FUKUSHIMA LTD (Together with Maker)   | MHI   |