CLASS CHECKLIST FOR OIL TANKER

Type of Survey: Annual Survey/Intermediate Survey/Special Survey/General Examination*

Ship Name: I.R. No.: Report No

Report No.:

NOTE	NOTES:	
1	Use "Y" for Yes/Satisfactory, "N" for Not Satisfactory, "NO" for No, "NA" for Not Applicable, "P" for Remains outstanding.	
2	Refer BWM statutory checklist for items related to BWM survey when class & statutory survey for BWM carried out concurrently.	
3	Where the services of an approved firm is utilized, details of approval and personnel qualification is to be provided under remarks. Alternatively, copy of approval page may be uploaded with the report.	

Sr. No.	Item	Y/N/NO/ NA/P
А	DOCUMENTATION	
1	STATUTORY CERTIFICATES	
	Verification that all statutory certificates and class certificate are available and valid.	
2	APPROVED TRIM & STABILITY INFORMATION	
	Confirmation of availability of trim and stability booklet approved by administration.	
3	MANOEUVRING BOOKLET	
	Confirmation that the manoeuvring booklet is on board and that the manoeuvring information is displayed on the navigating bridge.	
4	FIRE CONTROL PLANS	
	Confirming that the fire control plans are permanently exhibited or, alternatively, emergency booklets have been provided and that a duplicate of the plans or the emergency booklet are available in a prominently marked enclosure external to the ship's deck house.	
5	STEERING GEAR ENTRIES REQUIRED BY SOLAS/FLAG	
	Verification of entries made in the ship's log for departure steering checks & Emergency steering drills.	
6	DAMAGE STABILITY	
	Availability of damage stability information.	
7	LOADING MANUAL	
	Verification that vessel has an approved Loading Manual.	
8	I.G. SYSTEM OPERATIONAL MANUAL	
	Verification for availability of I.G. Instruction manual. (operation, maintenance, safety, health hazard etc.)	
9	ESP DOCUMENT	
	Availability of ESP documents on board. Survey report file is to be part of the documentation consisting of reports of structural survey, executing hull summary, thickness measurement reports. Additional supporting documentation to be available on board include, main structural plans of cargo tanks and ballast tanks, previous repair history, cargo and ballast history, inspection by ship's personnel with reference to structural deterioration in general, leakages in bulkheads and piping, condition of coating or corrosion prevention system if any, any other information that will help identify critical structural areas and/or suspect areas requiring inspection, survey programme. (Note: For CSR ships structural plans are to include for each structural element both the as-built	
	and renewal thickness. Any thickness for voluntary addition is also to be clearly indicated on the plans. The midship section plan to be supplied on board the ship is to include the minimum allowable hull girder sectional properties for hold transverse section in all cargo tanks)	
10	THE SHIP STRUCTURE ACCESS MANUAL	
	Checking availability of the Ship Structure Access Manual.	
	(Note: Applicable for ships of 500 GT and over, constructed on or after 1st Jan. 2006)	
11	CONSTRUCTION DRAWINGS MAINTAINED ON BOARD Confirmation that structural alterations performed, if any, have been approved by the classification society and reported on the as-built drawings kept on board. (constructed on or	
	after 1 st Jan. 2007)	

12	EMERGENCY TOWING PROCEDURES	
	Confirmation that ship specific emergency towing procedures available on board.	
13	CORROSION PROTECTION OF CARGO OIL TANKS OF CRUDE OIL TANKER IN ACCORDANCE WITH IMO PSPC	
	Confirmation that a technical file verified by the Administration is available on board and that	
	the maintenance, repair and partial recoating of cargo oil tanks of crude oil tankers are recorded	
	in the coating technical file.	
	(Note: Applicable to crude oil tankers of 5000DWT and above for which building contract	
	placed on or after 01/01/2013 or in absence of building contract, keel laid or at a similar stage of construction on or after 01/07/2013 or delivery is on or after 01/01/2016)	
14	DAMAGE CONTROL PLAN & BOOKLET:	
	Verification that damage control plan and booklet are available.	
	(Note: Applicable for vessels of 500 GT and over, keel laid on or after 01/01/2009)	
15	DOCUMENT OF APPROVAL FOR STABILITY INSTRUMENT:	
	Confirm vessel is provided with DOA for stability instrument.	
	(Note: Applicable for new vessel keel laid on or after 01/01/2016 and existing vessel first renewal	
	survey on or after 01/01/2016)	
16	COATING TECHNICAL FILE:	
	Confirm that Coating Technical File is available on board and maintained.	
	(Note: Applicable for ships of not less than 500 gross tonnage provided with dedicated seawater ballast tanks for which the building contract is placed on or after 01/07/2008 or the keels of which	
	are laid on or after $01/01/2009$ or which are delivered on or after $01/07/2012$)	
17	SHIP CONSTRUCTION FILE (SCF):	
	Confirming availability of Ship Construction File.	
	A – For the SCF stored on board ship, the Surveyor is to examine the information on board ship.	
	In cases where any major event, including, but not limited to, substantial repair and conversion, or	
	any modification to the ship structures, the surveyor is to also verify that the updated information is kept on board the ship. If the updating of the SCF onboard is not completed at the time of	
	survey, the Surveyor is to record it and request for confirmation at the next periodical survey.	
	\mathbf{B} – For the SCF stored on shore archive, the Surveyor is to examine the list of information	
	included on shore archive. In cases where any major event, including, but not limited to,	
	substantial repair and conversion, or any modification to the ship structures, the Surveyor is to also	
	verify that the updated information is stored on shore archive by examining the list of information included on shore archive or kept on board the ship. In addition, the Surveyor is to confirm that the	
	service contract with the Archive Center is valid. If the updating of the SCF Supplement ashore is	
	not completed at the time of survey, the Surveyor is to record it and request for confirmation at the	
	next periodical survey.	
	(Note: Applicable for oil tanker of 150 m length & above as per SOLAS Chapter II-1, Part A-1,	
10	Regulation 3-10 (built to Goal Based Standards)	
18	HARMONIC DISTORTION RECORD FOR VESSEL FITTED WITH HARMONIC FILTER.	
	Verification of annual measurement record of harmonic distortion level at bus bar.	
	(Applicable for vessel keel laid before 1 July 2017 and for any modification on electrical	
	distribution system on existing vessel, total distortion measured along with equipment running	
10	at the time of measurement to be recorded)	
19	OPERATIONAL MANUAL FOR EFFECT OF HARMONIC FILTER	
	Verification that following document are available on board. a. Effect of failure on harmonic filter on electrical distribution system.	
	b. Permitted modes of operation for maintaining harmonic distortion level within acceptable	
	limit during normal operation and during failure of filter.	
	c. Approved copy of relaxation on allowable distortion limit, if any	
	d. Record of harmonic distortion level measured.	
	(Note: Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with	
20	harmonic filter on or after 01 July 2017.)	
20	ALTERNATIVE DESIGN & ARRANGEMENTS: Confirm that, where applicable, the approved documentation for the alternative design and	
	arrangement is on board.	
21	PROCEDURAL REQUIREMENT FOR CERTAIN ESP SURVEYS	
	Confirmation that procedural requirement in respect of conduct of intermediate and special	
	surveys by two exclusive surveyors complied with for following cases:	
	On ships 20,000 tonnes DWT and above, subject to ESP, starting with special survey No.3, all	
1	special and intermediate hull classification surveys are to be carried out by at least two exclusive	

	surveyors. For dual class vessels where this requirement of two surveyors (where compatible with	
	relevant laws and regulations) was fulfilled by having one surveyor from each society, name of the	
	other society surveyor is to be provided in "Remarks section".	
В	HULL AND WEATHER DECK	
1	SUPERSTRUCTURES, DECKHOUSES & WHEELHOUSES	
	Verification gas tight condition of wheelhouse doors and windows, fixed type side scuttles and	
	windows in superstructure and deckhouse ends facing the cargo area and gas tight bulkhead	
	penetrations.	
2	CARGO, OILY SLOP & BALLAST TANK OPENINGS	
-	Openings including gaskets, covers, coamings, flame screens and fasteners examined for	
	condition and signs of leakages.	
3	CARGO TANK VENTING ARRANGEMENTS	
5	Pressure/Vacuum valves and mast risers including secondary means of venting (could be cargo	
	tank pressure monitoring system, P/V valves or IG system P/V breaker) examined for proper	
	operation, absence of oil carry over, flame screens, condition and maintenance records.	
	Examining the cargo tank pressure/vacuum valves and devices to prevent the passage of flame.	
4	CARGO, COW, OILY SLOP & BALLAST TANK PIPING SYSTEMS	
4	Cargo, crude oil washing, bunker, ballast and vent piping systems including COW deck	
	machines, valves, vent masts and headers visually examined and records of testing verified (no	
	soft patches allowed).	
-	EMERGENCY TOWING ARRANGEMENT	
5		
	Examining the towing arrangements and verification of operational readiness (Applicable for	
	vessels of 20,000 DWT and above)	
6	WATER TIGHT DOORS AND CONTROLS	
	Examining and testing (locally and remotely) all the watertight doors in watertight bulkheads	
	including indicating lights and alarms.	
7	FIRE DOORS AND CONTROLS	
	a. Examination of manual/automatic fire doors, verification of their satisfactory operation and	
	confirmation that no holding back arrangements exist and arrangements for self-closing &	
	locking are in order.	
	(Note: Hold-back arrangements fitted with remote-release devices of the fail-safe type may be	
	utilized)	
	b. Confirmation that fire doors provided between machinery space and steering gear	
	compartment are of gastight, self-closing type and without any hold back arrangements.	
	(Note: applicable where emergency fire pump is in steering gear compartment)	
8	ANCHORING & MOORING EQUIPMENT	
	Examining the anchoring equipment & mooring equipment. At renewal survey, during the	
	examination, anchors are lowered and raised using the windlass.	
9	SOUNDING PIPES	
	Sounding pipes, including self-closing devices on short sounding pipes.	
10	HATCHWAYS, COAMING AND COVERS	
	Examination and testing of hatchways on freeboard and superstructure decks including efficient	
	condition of closing appliances.	
11	WEATHER DECKS	
••	Examination of weather decks.	
12	HULL MARKINGS	
12		
	Verification that hull markings such as freeboard markings, draft markings, vessel name, IMO	
10	number, port of registry are legible and in satisfactory condition.	
13	VENTILATORS	
	Examination and or testing of ventilators including efficiency of their closing appliances.	
14	WINDOWS, SIDE SCUTTLES AND DEAD LIGHTS	
	Examination and or testing of windows, side scuttles and dead lights.	
15	SCUPPERS, SANITARY DISCHARGES, VALVES AND CONTROLS	_
	Examination scuppers and sanitary discharges and valves together with valves and their control	
	gear.	
16	SKYLIGHTS AND FIDDLEY OPENINGS	
10	Examination and or testing of skylights and fiddley openings including their closing appliances.	
17	TRADUCED CANINGSIDECK LIDIENS COMPANIAN MAAVS AND T	
17	EXPOSED CASINGS, DECK HOUSES, COMPANION WAYS AND SUPERSTRUCTURES	

	bulkheads including closing appliances.	
18	REFUSE CHUTES etc., AND OTHER OPENINGS	
	Examination and/or testing including their closing appliances.	
19	GUARD RAILS AND/OR BULWARKS	
	Examination of the condition and arrangement.	
20	FITTINGS FOR TIMBER DECK CARGOES	
	Examination of the condition and arrangement.	
21	COLLISION & WATERTIGHT BULKHEAD OPENINGS	
	Examining the collision and the other watertight bulkheads as far as can be seen. Watertight	
	bulkheads penetrations examination as far as practicable for satisfactory condition.	
22	TUNNEL	
	Tunnel closing arrangements, lighting and notices.	
23	MASTS AND STANDING RIGGING	
	Masts, Derricks & Crane columns including their standing rigging.	
24	FLUSH DECK SCUTTLES	
	Flush Deck scuttles including their closing appliances.	
25	TIGHTNESS TESTING OF CLOSING APPLIANCES	
	Where tightness testing of closing appliances such as hatches, doors, etc. is carried out with	
-	ultrasonic equipment, confirmation that firm engaged in tightness testing is approved.	<u> </u>
26	THICKNESS MEASUREMENT	
	Where thickness measurements on structure/plating of the vessel is carried out, confirmation that firm engaged in thickness measurement on vessel is approved.	
27		
27	REMOTE INSPECTION TECHNIQUES (RIT) Where remote inspection techniques are used in survey, confirmation that firm engaged for RIT	
	is approved.	
28	NON-DESTRUCTIVE TESTING (NDT)	
20	Where NDT carried out onboard, confirmation that the firm providing NDT services is	
	approved.	
29	SAFE ACCESS TO BOW	
	Examining arrangements of safe access to bow including the paint applied should be of anti-slip	
	type, trends, side stringer cross member, decking, deck plate, stanchion, right hand rails, hand	
	ropes and all support points.	
30	BOW AND STERN LOADING	
	Confirmation, when applicable Bow or Stern loading and unloading arrangement in order and testing of means of communication and remote shut down for cargo pump in satisfactory	
	condition.	
31	COMPANIONWAYS	
	Verification of Companionways and posting of appropriate notices.	
32	AIR PIPES	
	Examination and or testing of air pipes including efficiency of their closing appliances, weld	
	connection between Air pipes and deck plating.	
	Examining and confirming that vents from bunker tanks, oily ballast, oily slop tanks, void	
	spaces and ballast tanks (with cathodic protection) are equipped with flame screens and mesh	
	provided are in satisfactory condition.	
33	FREEING PORTS	
24	Examination of the condition and arrangement including shutters and crew protection bars.	
34	GANGWAYS, LIFELINES AND MEANS OF EMBARKATION/DISEMBARKATION a. Satisfactory examination of various items pertaining to lifelines, accommodation ladder,	
	gangways, Davits, Winches. Verification of inspection and maintenance records.	
	b. Confirmation that embarkation ladder and accommodation ladder including safety net are in	
	satisfactory condition and marked with safe working load.	
35	UPGRADATION/REPAIR TO COATING	
	Confirmation that maintenance, repair and partial recoating had been done as per	
	manufacturer's specification using acceptable coating system, suitable surface preparation and	
	adequate film thickness under the supervision of coating manufacturer's representative/coating	
	inspector. These had been verified through stage/patrol inspection during survey and considered acceptable.	
	Confirmation that in-service maintenance and repair activities of coating systems in cargo oil	
	tanks are recorded in the coating technical file.	
	(Note: Ballast tank/Cargo oil tank for which coating condition was upgraded to "GOOD" this	

	time during survey are to be listed in the "Remark" section.)	
36	WATERTIGHT CABLE TRANSIT SEAL SYSTEMS	
	(Note: Applicable for all vessels contracted for construction on or after 1 st July 2021)	
	a. Review of the cable transit seal systems register to confirm that it being maintained.	
	b. Confirmation that where any disruption to the cable transits or installation of new cable	
	transits carried out onboard from last annual survey, records are reviewed for the	
	satisfactory condition of those transits.	
	(Note: If deemed necessary examination of such transits to be undertaken)	
	c. Examination of cable transits as far as practicable for their satisfactory condition.	
	d. Confirmation that the results of survey are recorded in the cable transit seal system register.	
	e. Where the cable transits have been examined by an approved service supplier, review of the cable transit seal system register to confirm that it has been properly maintained by the owner and correctly endorsed by the service supplier.	
37	ACCESS TO AND WITHIN SPACES IN, AND FORWARD OF, THE CARGO AREA OF OIL TANKERS AND BULK CARRIERS	
	Confirming, when appropriate and as far as is practicable when examining internal spaces on oil tankers of 500GT and over that the means of access to cargo and other spaces remain in good condition.	
	Checking, when appropriate, the provision of means of access to cargo and other spaces in accordance with the arrangements in the Ship Structures Access Manual of oil tankers of 500GT and over.	
38	NEW INSTALLATION OF MATERIALS CONTAINING ASBESTOS	
• •	Confirming that new equipment containing asbestos was not fitted on board since last survey.	
39	TOWING AND MOORING EQUIPMENT	
	Confirming that towing and mooring equipment are maintained in good condition and are properly marked with any restrictions associated with its safe operation. Relevant plans/procedures/certificates and record of inspection/maintenance are available on board.	
40	INTERNAL SPACES	
	Verification of the permanent means of access where appropriate of the internal spaces as far as practicable.	
41	COATING TECHNICAL FILE	
	Confirming that maintenance, repair and partial recoating of dedicated ballast tanks and double side skin space as appropriate are recorded in the coating technical file and the maintenance of the protective coating is included in the overall ship's maintenance scheme.	
42	SHIP CONSTRUCTION FILE	
	Examine where appropriate the ship's structure in accordance with the ship construction file, taking into identified areas that need special attention.	
43	LOADING INSTRUMENT	
	Availability of an approved loading instrument together with its operational manual and verification of test cases.	
	(Note: capable of verifying compliance with intact and damage stability requirement as per MSC	
	.370(93) for new vessel keel laid on or after $01/01/2016$ and existing vessel first renewal survey on or after $01/01/2016$).	
C	or after 01/01/2016). MACHINERY SPACES	
C 1		
1	MACHINERY AND BOILER SPACES	
	Confirming that the machinery, boilers and other pressure vessels, associated piping systems and fittings are so installed and protected so as to reduce to a minimum any danger to persons	
	on board, due regard being given to moving parts, hot surfaces and other hazards.	
2	FIRE/EXPLOSION HAZARDS	
2	a. i) Propulsion system and auxiliary machinery, boilers, all pressurized systems (steam,	
	pneumatic, hydraulic) and their associated fittings were examined to see whether they are	
	being properly maintained and with particular attention to the fire and explosion hazards.	
	ii) Verification that oil/water leakages, accumulation of oil, with potential source of ignition	
	does not exist in the machinery spaces. Leakages if any have been dealt and source of leakages	
	rectified.	
	iii) Confirmation that floor plates & gratings are secured and found to be in order.	
	b. Confirmation that lagging material on hot surfaces, anti-splash tapes on joints are in place as	
	required and high-pressure fuel lines are jacketed and spray shields flanged/screwed joints of	
	pipes are in satisfactory condition.	
	c. Confirmation that arrangement for high pressure fuel oil leak off alarm for propulsion engine, auxiliary engines or any other diesel engines are satisfactory and operational. Drain lines are	

	connected to alarm unit and working satisfactory.	
	d. Where flexible hoses/pipes are used, examination of hoses/pipes for any signs of material cracking or deterioration to ensure that, there is no damage, cut, kinked, crushed, twisted,	
	hardened, cracked hoses/pipes exists in the oil systems.	
	e. Confirmation that the supports and retaining devices of low-pressure fuel system provides	
	adequate restraint and are in satisfactory condition.	
3	STEERING GEAR	
5	a. All main and auxiliary steering arrangements and their associated equipment and control	
	systems were examined and tested. Steering chains are verified for wear and tear and it was	
	ensured wear is within 12% of the original rule diameter. Confirmation that various alarms	
	required for hydraulic power operated, electric and electro-hydraulic steering gears are,	
	operating satisfactorily and that the recharging arrangements for hydraulic power operated	
	steering gears are being maintained. Log entries made in accordance with statutory	
	requirements were verified where applicable. Confirming, when appropriate, that the requisite	
	arrangements to regain steering capability in the event of the prescribed single failure are	
	being maintained.	
	b. Confirmation that steering gear compartment is in satisfactory condition and provided with	
	handrail arrangements, grating or non-slip surface.	
4	MEANS OF COMMUNICATION	
	All means of communication between the navigating bridge and the machinery control positions	
	including engine room telegraph, as well as the bridge and the main/alternative steering position, if fitted, are tested. Where ships having emergency steering positions there are means	
	of relaying heading information and, when appropriate, supplying visual compass readings to	
	the emergency steering positions. Confirmation that means of indicating the angular position of	
	the rudder are operational.	
5	BOILERS AND PRESSURE VESSELS	
	Periodical Surveys of boilers and other pressure vessels have been carried out as required by the	
	Rules and the safety devices have been tested. External visual examination. External	
	examination of boilers including test of safety & protective devices and test of safety valve	
	using its relieving gear. For exhaust gas economisers, review of engine log book to verify that	
	Chief Engineer has tested the safety valves at sea within the window period of Annual Survey.	
1	DEMOTE CONTROL C	
6	REMOTE CONTROLS	
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14	 EMERGENCY GENERATOR ROOM VENTILATORS ARRANGEMENT Verification that following requirement of emergency generator room ventilation louvers and its closing appliance examined/tested and found satisfactory. a. Manual or power operation of louvers and its closing appliance. b. Operating instruction, where hand –operated system is in use c. Automatic opening of ventilation louvers whenever emergency generator starting/in operation for power operated system where provided including fail to open operation. d. Manual closing operation from outside the space, where open/closed indication clearly marked. 	
15	MACHINERY VERIFICATION RUNS Towards completion of Special/Continuous Survey of Machinery, trial of main & auxiliary machinery including the steering gear & controls carried out to confirm satisfactory operation. (In afloat condition)	
16	 SEA TRIAL In case of major repairs to main propulsion machinery or steering gear, confirmation that a sea trial has been carried out satisfactorily to confirm proper operation of the relevant machinery in all respects. (Note: With effect from 1st July 2018, in case of major repairs to main propulsion machinery or steering gear, the scope of sea trial is to also include a test plan for astern response characteristics based on those required for such an equipment or system when fitted to the new ship. The tests are to be carried out at least over the manoeuvring range of the propulsion system and from all control positions. A test plan is to be provided by the manufacturer and accepted by the surveyor. If specific operational characteristics have been defined by the manufacturer, same is to be included in the test plan and the reversing characteristics of the propulsion plant, including the blade pitch control system of controllable pitch propellers, are to be demonstrated and recorded during trials) 	
D	ELECTRICAL INSTALLATION	
1	ELECTRICAL EQUIPMENT IN DANGEROUS ZONES Confirming that all electrical equipment and cables in dangerous zones is suitable for such location, is in good condition and maintenance records verified for last insulation readings.	
2	EARTHING AND BONDING OF CARGO TANKS AND PIPING SYSTEM Confirmation that independent cargo tanks and cargo piping systems intended for cargo with flash point not exceeding 60°C and not permanently connected to the hull of the ship are provided with bonding straps and these are maintained in good condition and not affected by	
3	 high resistivity contamination e.g. corrosive products or paint. ELECTRICAL SYSTEM a. General examination visually and in operation, as feasible, of the main electrical machinery, the emergency sources of electrical power, the switch gear, other electrical equipment including the lighting system. The precautions provided against shock, fire and other hazards of electrical origin for proper maintenance. b. Confirmation that light covers including emergency lights are in satisfactory condition. c. Confirmation that 440 V/220 V panels are not showing low insulation resistance. 	
	 d. Confirmation that insulation mat is provided around the electrical switch board, panels. e. Confirmation that the generator breakers, interlocks and generator automatic starting as applicable are in satisfactory operational condition. f. verification of insulation monitoring devices for all distribution systems. Operation of power management system, where fitted. 	
4	EMERGENCY SOURCE OF POWER Confirming the operation of the emergency source(s) of electrical power, including their starting arrangement, the systems supplied, and when appropriate, their automatic operation as far as practicable. Examining the emergency lighting in all cargo pump rooms of tankers constructed on or after 1 July 2002. (Note: This to remain independent from the battery source provided for propulsion and/ or main source of power in case battery systems used as main or an additional source of power for propulsion)	
5	NAVIGATIONAL LIGHT SYSTEM Verification of Navigational light systems for satisfactory operation of lights, audio-visual indications and power supply arrangement for their satisfactory condition.	
6	MONITORING OF HARMONIC DISTORTATION Confirmation that equipment for continuous monitoring of harmonic distortion level is in good order, alarm tested, logging of measured value verified in engine log book or electronically in case	

	where automation system fitted and found to satisfactory.	
	(Note:-Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with	
	harmonic filter on or after 01 July 2017.)	
7	PROTECTION ARRANGEMENT FOR HARMONIC FILTER	
	Confirmation that protection for harmonic filter, including alarm tested and found satisfactory.	
	(Note: Applicable for vessel keel laid on or after 01 July 2017 and on exiting ship retrofitted with	
	harmonic filter on or after 01 July 2017.)	
8	MOTOR CONTROLS	
	Confirmation that motor controls including remote control are in satisfactory operational	
Б	condition, where provided. ADDITIONAL REQUIREMENTS FOR BATTERY PROP NOTATION	
E 1	DOCUMENTATION AND RECORDS	
1.1	Confirmation that batteries are type tested as per relevant IEC standard.	
1.1	Type of battery used: Nickel Cadmium Battery/Lithium-Ion Battery/ Lead Acid Battery/Nickel Metal Hydride Battery*.	
1.2	Verification that operation and maintenance manual for Battery Management System (BMS) &	
	Power Management System (PMS) is available along with all the required details of batteries such as battery chemistry, test certificates, cell voltages, system voltages, number of battery banks,	
	recommended charge and discharge rates, functional test, monitoring, software maintenance and	
	other environmental requirements as applicable.	
1.3	Confirmation that battery manufacturer recommended practices for safety have been documented and implemented satisfactorily.	
1.4	Confirmation that details of schedule as well as records & log towards storage, maintenance, replacement of batteries is available and maintained.	
1.5	Confirmation from the records that state of health and state of charge of battery system is maintained satisfactorily.	
1.6	Confirmation that risk assessment towards possible potential hazards associated with type of battery chemistry, system design and its incorporation is available.	
1.7	Confirmation from the records that the software updates including verification or testing after	
,	updates are being carried out.	
2	SYSTEM ARRANGEMENT AND TESTING	
2.1	Examination of arrangement for battery installation, battery spaces and equipment as far as practicable for satisfactory condition.	
2.2	Confirmation of satisfactory operational testing of battery room//spaces ventilation systems and cooling systems as applicable.	
2.3	Examination of firefighting systems in battery spaces.	
2.4	Testing of all smoke, gas and fire detectors for their satisfactory condition.	
2.5	Verification of all emergency shutdown arrangements to confirm their satisfactory operation.	
2.6	Verification of operation of UPS for their satisfactory performance.	
2.7	Verification and testing of safety systems arrangements towards overcharging, undercharging, high temperature, gas leakage etc. for satisfactory condition.	
2.8	Testing of audio-visual alarms and controls for system power supply failure, cell temperature high, battery space high temperature, cell voltage etc.	
F	ADDITIONAL REQUIREMENTS FOR PERFORMANCE MANAGEMENT SYSTEM	
1	Confirmation that arrangement of performance management system including associated cabling, sensors and interconnections maintained as per approved plan.	
2	Verification that on loss of hardware, functions of the systems does not get affected. (Applicable where the system is provided with dedicated operator stations and servers)	
3	Confirmation from the records that hardware & software inventory maintained and changes if any,	
5	have been verified and found in order.	
G	ADDITIONAL REQUIREMENTS FOR SHIPS USING BIO-FUEL BLEND AS FUEL	
1	Confirmation of following towards use of bio-fuel blend onboard as fuel oil:	
	a. Availability of documented permission from the Flag Administration for use of bio-fuel blend.	
	b. Vessel is in possession of required documents issued by the bunker suppliers to show that the	
	bio-fuel blend meets the relevant specification requirements including Test analysis report as per ISO 8217:2017, BDN, Safety Data Sheet, Proof of Sustainability (PoS) for Biofuels).	
	c. The percentage of bio-fuel in the fuel oil blend supplied to the ship is clearly reflected in the	
	bunker delivery note and that the blend proportion conforms to the limit permitted by Flag	

	Administration.	
	d. Measures are in place in respect of shelf life of the bio-fuel blend used onboard as declared by	
	the bunker supplier.	
	 e. Ship specific risk analysis for use of bio-fuel blend is available. Any redundancy requirements onboard as per risk analysis is taken care for the operational safety and emergency contingency measures. (Note: Bio-fuel blend is not to be used for emergency equipment e.g. emergency generator, emergency fire pump, etc.) 	
	 f. Confirmation by manufacturers of engines and equipment (e.g. purifiers) on suitability for use of bio-fuel blend onboard. 	
	g. Shipboard operational procedures for use/ handling of bio-fuel blend including procedures for procurement, availability test result, storage of biofuel blend, frequency of cleaning of fuel filters, inspection of storage tanks, monitoring of transfer lines and associated piping & fittings and any other requirements specified by the manufacturers of engines/equipment is available.	
	h. Crew members onboard are familiarized with the shipboard procedures regarding the handling and use of bio-fuel blend including contingency measures and records are maintained.	
	i. Maintenance and inspection of fuel oil system including storage tanks, filters, fuel transfer hoses and connectors is undertaken as specified in the shipboard operational procedure and records maintained.	
	j. Logging/ monitoring of all relevant engine parameters, maintenance and checks as specified by the manufacturer is undertaken and records maintained.	
Н	ADDITIONAL REQUIREMNETS FOR IMPRESSED CURRENT CATHODIC PROTECTION (ICCP)	SYSTEMS
1	DOCUMENTATION AND RECORDS	
	a. Confirmation that ICCP Manual is available onboard and attachments details of anodes and reference electrodes along with specification of connecting cables are available for reference.	
	b. Confirmation that record of system operation is maintained and downtime if any is recorded. Confirmation that all anode current outputs and potentials monitored are similar to those settled during previous assessment.	
	c. Confirmation from records that ICCP system is maintained and adjusted by the supplier on regular basis as per manufacturer's instructions.	
2	SYSTEM OPERATION	
	Confirmation that system is in operation and working satisfactory. Confirmation that operation of indicators and control on the panel including auto/manual switch are found to be satisfactory.	
3	PROTECTION ARRANGEMENT FOR ANODE CABLES	
	Confirmation that protection arrangement for ICCP anode cables is in satisfactory condition.	
Ι	ALTERNATIVE DESIGN AND ARRANGEMENT	
1	Where applicable, examination of alternative design and arrangement for machinery or electrical installations, low-flashpoint fuel storage and distribution systems, or fire safety, in accordance with the test inspection and maintenance requirements, if any, specified in the approved	
-	documentation is to be carried out.	
J	FIREFIGHTING ARRANGEMENTS	
1	MAIN & EMERGENCY FIRE PUMP, HYDRANTS, HOSES, NOZZLES Examining the fire pumps, fire main, hydrants, hoses and nozzles and the international shore	
	connection and checking that each fire pump, including the emergency fire pump, can be	
	operated separately so that two jets of water are produced simultaneously from different	
	hydrants at any part of the ship while the required pressure is maintained in the fire main.	
2	READINESS OF FIRE HYDRANTS, HOSES Each hose complete with couplings, nozzle (dual-purpose nozzles where applicable) and tools	
	kept ready for use.	
3	PORTABLE EXTINGUISHERS AND FOAM APPLICATORS	
	Checking the provision and randomly examining the condition of the portable and non-portable fire extinguishers.	
4	SPARE CHARGES	
	Availability of spare charge/s for each portable extinguisher or additional portable extinguishers of the same type.	
5	FIRE AND/OR SMOKE DETECTION SYSTEM a. Examining, as far as possible, and testing, as feasible, any fire detection and alarm system	
	and any sample extraction smoke detection system.	

	b. Confirmation that maintenance as recommended by manufacturer has been undertaken and spares available as per manufacturer's instructions for the system.	
(
6	FIXED FIRE FIGHTING SYSTEM (MACHINERY, CARGO, PAINT LOCKER, DEEP FAT COOKING ETC.)	
	a. Examining the fixed fire-fighting system and confirming that the installation tests have been	
	satisfactorily completed and that its means of operation is clearly marked.b. Verification with	
	regard to correct positioning(for in service condition) of safety pins, where used on cylinder head discharge valves for fixed fire fighting CO2 system are in accordance with manufacture's	
	instruction manual.	
	c. Checking that fixed carbon dioxide fire-extinguishing systems for the protection of	
	machinery spaces and cargo pump-rooms, where applicable, are provided with two separate	
	controls, one for opening of the gas piping and one for discharging the gas from the storage	
	container, each of them located in a release box clearly identified for the particular space.	
	d. Examining the fire-extinguishing system for spaces containing paint and/or flammable liquids	
	and deep-fat cooking equipment in accommodation and service spaces.	
7	REMOTE STOPPING OF FANS, OIL PUMPS, ETC	
	Verify that the remote controls for stopping fans and machinery and shutting off fuel supplies in	
	machinery spaces are in working order.	
8	REMOTE CLOSING OF VALVES	
	a. Examining the arrangements for oil fuel, lubricating oil and other flammable oils and testing	
	the remote closing of valves for oil fuel, lubricating oil and other flammable oils and the	
	operation of the remote means of closing the valves on the tanks that contain oil fuel,	
	lubricating oil and other flammable oils.	
	b. Confirmation that quick closing valves are in satisfactory condition and no valve is isolated/disconnected and operating instructions are displayed.	
9	PORTABLE INSTRUMENTS	
2	Checking the provision of at least one portable instrument for measuring oxygen and one for	
	measuring flammable vapour concentrations, together with a sufficient set of spares and suitable	
	means for the calibration of these instruments.	
10	CLOSING ARRANGEMENTS FOR SKYLIGHTS, FLAPS ETC	
	Examining the fire-extinguishing and special arrangements in the machinery spaces and	
	confirming, as far as practicable and as appropriate, the operation of the remote means of	
	control provided for the opening and closing of the skylights, the release of smoke, the closure	
	of the funnel and ventilation openings, the closure of power-operated and other doors, the	
	stopping of ventilation and boiler forced and induced draught fans and the stopping of oil fuel	
11	and other pumps that discharge flammable liquids.	
11	FIREMAN'S OUTFITS & EEBDS	
	Confirming that the fire-fighters' outfits including their self-contained compressed air breathing apparatus and emergency escape breathing devices (EEBDs) are complete and in good	
	condition, that the cylinders, including the spare cylinders, of any required self-contained	
	breathing apparatus are suitably charged, and that onboard means of recharging breathing	
	apparatus cylinders used during drills or a suitable number of spare cylinders to replace those	
	used are provided, and provision of two-way portable radiotelephone apparatus of an explosion-	
ļ	proof type or intrinsically safe.	
12	FIRE DAMPERS AND VENTILATION SYSTEMS	
	Testing the fire dampers of ventilation ducts and the means of closing the main inlets and	
	outlets of all ventilations systems and testing the means of stopping power ventilation systems from outside the space served.	
13	MEANS OF ESCAPE	
15	a. Confirmation that the means of escape from accommodation, machinery and other spaces are	
	satisfactory and free from any obstruction.	
	b. Confirmation that opening of escape doors are in the way of direction of escape, handrails are	
	provided in the corridors that are being used as escape routes and none of the doors along any	
L	designated escape routes require keys to unlock them when moving in the direction of escape.	
14	GASEOUS FUEL FOR DOMESTIC PURPOSE	
	Examining the arrangements for gaseous fuel for domestic purposes.	
15	PUMP ROOM VENTILATION	
	Verification that the pump room ventilation system is operational, ducting intact, dampers	
16	operational and screens clean. EXTERNAL EXAMINATION OF PIPING AND CUT-OUTS	
10	Examine for satisfactory condition of piping and cut out valves of cargo tank and cargo pump	
	room fixed fire fighting systems.	

17	DECK FOAM SYSTEM	
	Verify that the deck foam system and deck sprinkler system was in good operating condition,	
	check for adequate supply of Foam concentrate and periodic lab analysis of the sample.	
Κ	INERT GAS (NV) SYSTEM	
1	IG SYSTEM COMPONENTS AND PIPING	
	External examination of the condition of all components and piping for signs of corrosion and	
	gas/effluent leakage including inert gas plant overboard discharges.	
2	SCRUBBER ROOM VENTILATION SYSTEM	
	Verification of the operation of scrubber room ventilation arrangement.	
3	DECK WATER SEAL	
	Verification of deck water seal for automatic filling/draining and absence of water carry over	
	and condition of non-return valve.	
4	INERT GAS BLOWERS	
	Verification of the proper operation of both inert gas blowers including test of interlocking	
	feature of the soot blowers and automatic closure of gas pressure regulating valve when the IG	
	blowers are stopped.	
5	IG SYSTEM VALVES	
	Verification of the operation of all remotely or automatically controlled valves. (in particular the	
	flue gas isolating valve/s)	
6	IG SYSTEM INSTRUMENTATION, AUTOMATION & ALARMS	
	Verification of the function of alarms and safety devices of the inert gas system (using	
	simulated conditions, where necessary): Low water pressure to the scrubber, High gas	
	temperature in inert gas main, High water level in the scrubber, Failure of inert gas blower, High oxygen content of gas in inert gas main, Low water level in deck water seal, Failure of	
	power supply to gas regulating valve/IG main pressure and oxygen content indicators, Low gas	
	pressure in inert gas main, High gas pressure in inert gas main. Check for the operational test of	
	the inert gas system after performing the above checks satisfactorily.	
7	CARGO SPACE	
,	Confirming, as far as practicable and when appropriate, the operation of the remote means for	
	closing the various openings.	
L	CARGO PUMP/CONTROL ROOM	
1	CARGO PUMP ROOM VENTILATION, CLEANLINESS Etc	
-	Examination of cargo pump room(s) spaces for freeness from potential sources of ignition,	
	access ladders and cargo pump room drainage arrangements; operation of the ventilation system	
	(damper operation and flame screens) including interlocking arrangement to lighting .	
	Verification that no oil leakages and no accumulation of oil in the cargo pump room. Leakages if	
	any have been dealt and source of leakages rectified.	
	Examining the cargo tank venting, cargo tank purging and gas-freeing and other ventilation	
	systems.	
	Confirmation that potential sources of ignition in or near the cargo pump room are eliminated,	
	such as loose gear, combustible materials, etc. that there are no signs of undue leakage of cargo	
2	and that access ladders are in good condition	
2	CARGO PUMP ROOM BULKHEADS	
	Examinations of all pump room bulkheads for signs of leakages and fractures and sealing arrangements of bulkhead penetrations, Temp. Sensing devices for bulkhead glands and alarm.	
2		
3	PIPING IN CARGO PUMP ROOMS	
4	Examination of the condition of cargo, bilge, ballast and stripping systems.	
4	CARGO PUMPS	
	Examination of Cargo pump/s bulkhead/deck glands, remote operation/shut down devices, pressure relief devices, pump foundations and temperature monitoring of glands, bearings &	
	casings and associated alarm systems including stand-by means of pumping.	
5	CARGO HANDLING SYSTEM CONTROLS, INSTRUMENTATION & ALARMS	
5	General examination of pressure gauges and relief devices on cargo pumps and discharge lines,	
	local/remote controls of valves on cargo piping and cargo tank level indicator/alarm systems.	
6	CARGO PUMP ROOM GAS DETECTION/BILGE LEVEL MONITORING SYSTEM	
0	Examinations of the monitoring & alarm system for concentration of hydrocarbon gasses and	
	bilge level in cargo pump rooms.	
7		
7	MONITORING OF GAS IN CARGO AREA	
7	MONITORING OF GAS IN CARGO AREA Examining, as far as possible, and testing the fixed hydrocarbon gas detection system	
7	MONITORING OF GAS IN CARGO AREA	

М	CRUDE OIL WASHING ARRANGEMENTS	
1	IOPP Report to be referred for COW System Examination.	
2	COW PIPING SYSTEM	
	Confirmation by external examination that the crude oil washing piping, pumps, valves and deck mounted washing machines are free from any sign of leakage and that all anchoring devices for crude oil washing piping are intact and secure.	
3	TANK CLEANING MACHINE DRIVE UNITS	
	Confirmation, in those cases where drive units are not integral with the tank cleaning machines, that the number of operational drive units as specified in the Manual are on board.	
4	ISOLATION OF STEAM HEATERS FOR WATER WASHING	
	Confirmation that, when fitted, steam heaters for water washing can be properly isolated during crude oil washing operations, either by double shut-off valves or clearly identifiable blanks.	
5	COMMUNICATION Confirmation that the prescribed means of communications between the deck watch keeper and the cargo control position is operational.	
6	PRESSURE RELIEF DEVICE Confirmation that an overpressure relief device (or other approved arrangement) is fitted to the pumps supplying the crude oil washing systems is in satisfactory condition.	
7	FLEXIBLE HOSES FOR SUPPLY OF OIL TO THE WASHING MACHINE Confirmation that flexible hoses for supply of oil to the washing machines on combination carriers, are of an approved type, are properly stored and are in good condition.	
8	CRUDE OIL WASHING MACHINE Confirmation by checking, as far as practicable, that the crude oil washing machines are operable and, when the survey is carried out during crude oil washing operations, by observing the proper operation of the washing machines by means of the movement indicators and/or sound patterns or other approved methods.	
9	CARGO TANK STRIPPING SYSTEM Confirmation by checking, as far as practicable, the effectiveness of the stripping system in appropriate cargo tanks by observing the monitoring equipment and by hand-dipping or other approved means.	
N	COMBINATION CARRIERS	
1	GAS DETECTION ARRANGEMENTS	
-	Verification of Gas detection arrangement in cofferdams.	
2	ISOLATION ARRANGEMENTS Verification of blanking arrangement for IG main, oil cargo and slop tank pipes, when carrying	
3	cargo other than oil. OPERATIONAL NOTICES	
	Verification of posting of required signboards and instruction manuals.	
4	ADDITIONAL CLASS NOTATIONS 'SPM' NOTATION Components of the single point mooring system (bow chain stoppers, bow fairleads, winches and capstans), to verify their satisfactory condition, Hull structures supporting and adjacent to the components to the single point mooring system, to verify that there is no deformation or fracture.	
0	GENERAL	
1	 HOUSE KEEPING a. Verification that general housekeeping/cleanliness in engine room, pump room, on deck, accommodation, hospital, galley, wash basins and toilets are satisfactory. b. Confirmation that no loose drums and no heavy items without securing/lashing on deck. c. Confirmation that Spare anchor where provided, its lashing bracket in good condition. 	
2	FLAG SPECIFIC REQUIREMENTS Confirmation that flag specific requirements/instructions, if any are complied with. Please Provide details in Remark section.	
3	H.O. INSTRUCTIONS Confirmation that H.O. Instructions pertaining to this survey if any communicated separately, have been compiled with. Please Provide details in Remark section.	
4	SURVEY UNDERTAKEN ON BEHALF OF OTHER SOCIETY For surveys on behalf of other society, confirmation that authorization, survey status and	

-	endorsement of certificate, communication have been followed.	
5	OVERDUE SURVEY Confirmation that H.O. authorization is available for dealing with overdue surveys. (Note: For dealing with overdue statutory surveys held together with Class surveys, Flag Administration authorization is required, details are to be provided in "Remarks")	
6	REINSTATEMENT OF CLASS Where the vessel was attended during suspension period, reference of relevant marine miscellaneous reports are provided in "Remarks" section which have been taken into account towards reinstatement of class.	
7	SURVEY HELD BY OTHER SOCIETY ON BEHALF OF IRS	
7.1	Confirmation that on board records verified for any survey held by other society on behalf of IRS. (details to be included in "Remarks")	
7.2	Where survey undertaken by other society on behalf of IRS, survey status updated with relevant information and a confirmatory survey carried out and found to be satisfactory.	
8	REVIEW OF PORT STATE AND FLAG STATE INSPECTION REPORTS	
8.1	Confirmation that reports of inspection by port state and flag state since last survey reviewed. Repairs/corrective action taken towards the deficiencies examined. Repairs to outstanding reported using Form "Cert-PSC".	
8.2	Where the vessel was detained, a general examination was carried out as per Flag instruction and as required by survey procedure D-01 in consultation with H.O.	
9	SURVEY ARRANGEMENTS Verification of preparation for survey, means of access, safety arrangements for the safe and efficient conduct of the survey.	
10	CALLIBRATION STATUS OF MEASURING AND TESTING EQUIPMENT Verification of calibration status of measuring and testing equipment used for survey.	
11	REMOTE INSPECTION TECHNIQUES	
11.1	Confirmation that an inspection plan for the use of remote inspection techniques including any confirmatory survey/close-up survey/thickness measurements is submitted to H.O. and reviewed for acceptance prior commencement of survey.	
11.2	Confirmation that risk assessment undertaken to identify any hazards, to assess the likelihood of an incident occurring and to establish control measures to minimize the risk so that mitigating measures as required are put in place for safe conduct of survey using the remote inspection technique.	
11.3	Confirmation that a pre-meeting held between all parties i.e., surveyor, service supplier, ship owner's representatives in order to confirm planned arrangements as per inspection plan are in place so as to ensure safe and efficient conduct of the inspection. The equipment, procedure for observing, two-way communication between surveyor and RIT operator, data presentation including pictorial representation and reporting the surveys using RIT discussed and agreed with the parties prior to the RIT survey, and equipment set-up, calibrated prior the inspection.	
11.4	When the remote inspection technique is used for a close-up survey, confirmation that such remote inspection technique is also able to carry out the required thickness measurements.	
11.5	Where remote inspection technique is not able to carry out the required thickness measurements, confirmation that means of access for the corresponding thickness measurements provided. Confirmatory surveys/close up surveys including thickness measurement carried out as required at selected locations to verify the results of the remote inspection technique.	
11.6	If the RIT reveals damage or deterioration that requires attention, confirmation that traditional survey undertaken without the use of a RIT. (Details to be provided in "Remarks")	
12	CHANGES TO EQUIPMENT/SHIP PARTICULARS/LIST OF SURVEYABLE ITEMS Changes to equipment/ship particulars/list of surveyable items reported using corresponding FE forms.	
13	ADDITION/SUSPENSION/DELETION OF CLASS NOTATION For any request for additional class notation where plan approval is required, Head Office authorization has been received. Separate reporting done using relevant checklists for class notations assigned to the vessel. Class certificate has been amended to reflect the amended class notation. (Note: Details regarding addition/suspension/deletion of class notation is to be included under "Remarks")	
14	PLAN APPROVAL COMMENTS Relevant plan approval comments if any closed out in E-Plan arena.	

Р	ADDITIONAL REQUIREMENTS TOWARDS CLASS INTERMEDIATE SURVEY	
1	APPROVED SURVEY PROGRAM	
	Confirmation of availability of approved survey program for the survey on board.	
	(Note: Applicable for vessels over 10years of age)	
2	SURVEY PLANNING MEETING	
	Confirmation that survey planning meeting held between the attending surveyor(s), the owner's	
	representative in attendance and where involved, the thickness measurement company	
	representative and the Master of the ship or an appropriately qualified representative appointed	
	by the Master or Company for the purpose to ascertain that all the arrangements envisaged in	
	the survey programme are in place, so as to ensure the safe and efficient conduct of the survey work to be carried out.	
2		
3	CRUDE OIL WASHING PIPING SYSTEM	
	Examining the crude oil washing piping outside the cargo tanks. If upon examination there is any doubt as to its condition, the piping may be required to be pressure tested, gauged or both.	
	Particular attention should be paid to any repairs such as welded doublers.	
4	ISOLATION OF STEAM HEATER	
4	Confirming the satisfactory operation of the isolation valves to steam heaters for washing water,	
	when fitted.	
5	CARGO TANK EXAMINATION	
-	Examining at least two selected cargo tanks for verifying the continued effectiveness of the	
	installed crude oil washing and stripping systems. If the tank cannot be gas-freed for the safe	
	entry of the surveyor, an internal examination should not be conducted. In this case this	
	examination may be conducted in conjunction with the internal examination of cargo tanks as	
	part of the structural survey required for SAFCON intermediate survey.	
6	CARGO TANK VALVE EXAMINATION	
	Examining the manual and/or remote operation of the individual tank valves (or other similar	
	closing devices) to be kept closed at sea.	
7	CARGO, COW, BUNKER, BALLAST, STEAM AND VENT PIPING SYSTEMS	
	a. Verification that the cargo, crude oil washing, bunker, ballast, steam and vent piping systems	
	as well as vent masts and headers are maintained in satisfactory and efficient condition (Note:	
	If upon examination there is any doubt as to the condition of the piping, the piping may be	
	required to be pressure tested, thickness measured or both. Particular attention is to be paid to	
	any repairs such as welded doublers).	
	b. Where the scope of intermediate survey is to the same extent as the previous special survey, examination and operational testing to working pressure of cargo piping on deck including	
	crude oil washing (COW) piping, and cargo and ballast piping systems within the tanks and	
	spaces, bunker, steam and vent piping to ensure that tightness and condition are satisfactory	
	(Note: Special attention is to be given to ballast piping in cargo tanks and cargo piping in	
	ballast tanks and void spaces and when the piping, including valves and fittings are open	
	during repair periods, same to be examined internally).	
8	ELECTRICAL EQUIPMENT IN DANGEROUS ZONES	
	General Examination and testing of insulation resistance of electrical circuits in dangerous zones	
	to confirm these are maintained in satisfactory condition.	
	(Note: i) In cases where a proper record of testing is maintained, consideration should be given for	
	accepting recent readings. ii) These measurements are taken when the ship is in a gas free	
0	condition and to be carried out within an acceptable time period)	
9	EXAMINATION OF TANKS, SPACES AND THICKNESS MEASUREMENT	
9.1	Confirmation that internal examination of tanks, spaces including testing and thickness	
	measurements carried out satisfactorily as per the rule requirements and reported separately.	
9.2	Examination of ballast tanks included examination of the condition of the corrosion prevention	
0.7	system in these spaces and found to be satisfactory.	
9.3	Where special consideration is allowed as per the survey procedure and/or Main Rules Part 1,	
	Chapter 2, the extent of thickness measurements is reduced, the special consideration is reported under "Pamarka"	
0.4	under "Remarks".	
9.4	In case examination of tanks, spaces and thickness measurements are partly carried out, the	
	extent of examination, thickness measurement carried out or pending is reflected in the survey	
0.7		
9.5	Confirmation that diminution criteria of other class society (under the special survey of which	
	the vessel was built) is adopted for thickness measurement. (Details to be provided in	

Q	ADDITIONAL REQUIREMENTS TOWARDS SPECIAL SURVEYS	
1	APPROVED SURVEY PROGRAM	
	Confirmation of availability of approved survey program for the survey on board.	
2	SURVEY PLANNING MEETING	
	Confirmation that survey planning meeting held between the attending surveyor(s), the owner's	
	representative in attendance and where involved, the thickness measurement company	
	representative and the Master of the ship or an appropriately qualified representative appointed	
	by the Master or Company for the purpose to ascertain that all the arrangements envisaged in	
	the survey programme are in place, so as to ensure the safe and efficient conduct of the survey work to be carried out.	
2		
3	AIR PIPES	
4	Internal Examination of Automatic air pipe heads at special survey as required by IRS Rules. MOORING ROPES AND TOW LINES	
4		
	Confirmation that sufficient mooring ropes and tow lines as required by rules are provided onboard.	
5	MEANS OF EMBARKATION AND DISEMBARKATION	
3		
	Accommodation ladders, gangways and its winches incl. brake system are to be operationally tested with specified maximum operation load in accordance with IRS Rules.	
(CRUDE PIPING PRESSURE TESTING	
6	Carrying out pressure testing of the crude oil washing system to at least the working pressure	
	and confirming it is satisfactory.	
7	CARGO TANKS STRIPPING SYSTEMS	
	Examining the cargo tanks verifying the continued effectiveness of the installed crude oil	
	washing and stripping systems.	
8	ISOLATION VALVES	
_	Examining internally, when fitted, the isolation valves for any steam heaters.	
9	PRESSURE VACUUM VALVES	
-	Confirming that pressure vacuum valves connected to cargo tanks are examined in open condition,	
	tested for the setting, and found satisfactory.	
10	CARGO TANK EXAMINATION	
	Verifying, by internal tank inspection or by another alternative method acceptable to the	
	Administration, the effectiveness of the crude oil washing system. If the tank cannot be gas-	
	freed for the safe entry of the surveyor, an internal inspection should not be conducted. An	
	acceptable alternative would be verification of arrival/departure ballast, verification of operation	
	of COW machines, verification of effectiveness of stripping system.	
11	CARGO, COW, BUNKER, STEAM AND BALLAST PIPING SYSTEM	
	Examination of cargo piping on deck including crude oil washing (COW) piping, and cargo and	
	ballast piping systems within the tanks and spaces, bunker, steam and vent piping and operational	
	testing to working pressure, as applicable to ensure that tightness and condition remain satisfactory. (Note: Special attention is to be given to ballast piping in cargo tanks and cargo	
	piping in ballast tanks and void spaces and when the piping, including valves and fittings are open	
	during repair periods, same to be examined internally)	
12	LONGITUDINAL STRENGTH EVALUATION	
	Confirmation that for oil tankers of 130 [m] in length and upwards (as defined in ILLC), the ship's	
	longitudinal strength has been evaluated and found to be satisfactory.	
	(applicable during the renewal survey after the ship reached 10 years of age).	
13	EXAMINATION OF TANKS, SPACES AND THICKNESS MEASUREMENT	
13.1	Confirmation that internal examination of tanks, spaces including testing and thickness	
_	measurements are carried out satisfactorily as per the rule requirements and reported separately.	
13.2	Examination of ballast tanks included examination of the condition of the corrosion prevention	
	system in these spaces and found to be satisfactory.	
13.3	Where special consideration is allowed as per the survey procedure and/or Main Rules Part 1,	
	Chapter 2, the extent of thickness measurements is reduced, the special consideration is	
	reported under "Remarks".	
13.4	In case examination of tanks, spaces and thickness measurements are partly carried out, the	
	extent of examination, thickness measurement carried out or pending is reflected in the survey status.	
13.5		
13.3	Confirmation that diminution criteria of other class society (under the special survey of which the vessel was built) is adopted for thickness measurement. (Details to be provided in	
	"Remarks" section)	
	/	

14	WATERTIGHT CABLE TRANSIT SEAL S	YSTEMS	
	(Note: Applicable for all vessels contracted for	construction on or after 1 st July 2021)	
		ns for their satisfactory condition and review of	
	the cable transit seal systems register to con		
		the cable transits or installation of new cable al survey, records are reviewed and examination	
	carried out for the satisfactory condition of t		
	Confirmation that the results are recorded in the		
		nined during previous annual survey may be	
	excluded)		
	c. Confirmation that the Special Survey is reco (Note: A single record entry will be sufficient to	-	
		ed by an approved service supplier, review of the	
	cable transit seal system register to confir	m that it has been properly maintained by the	
	owner and correctly endorsed by the service		
R	ADDITIONAL REQUIREMENTS FOR CLA		
1	be assigned is available.	rvey including scope of survey, class notation to	
2	status of the losing society/first society is available		
3	undertaken in consultation of HOD (classifi "Remarks".	there plan approval is required, Same has been cation & certification). Include details under	
4	Separate reporting done using relevant checklist	ts for class notations assigned to the vessel.	
5	GENERAL EXAMINATION OF ESSENTIA	AL MACHINERIES	
5.1	Examination of oil fuel burning equipment of under working conditions. The adjustment of sa	boiler, economizers and steam/steam generators fety valves of this equipment verified.	
5.2	External examination of all pressure vessels including their associated piping and protective devices. Internal examination and hydraulic testing carried out satisfactorily as considered necessary. (Note: Provide details under remark section where tests carried out.)		
5.3	Examination of generator circuit breakers, preference tripping relays and generator prime mover governors including verification of insulation resistance, paralleling and load sharing for their		
5.4	satisfactory condition. Examination of navigating lights and indicators for their working condition including verification of alternative sources of power.		
5.5	Confirmation of antimative sources of power. Confirmation that following machinery and items have been dismantled and inspected for satisfactory condition.		
	(Note: Details of items inspected undertaken are		
	Machinery/Items	Details	
	a. Main Engine		
	b. Auxiliary Engine(s)		
	c. Pumps		
	d. Pressure Vessels (Air bottles)		
	e. Compressors		
	f. Any other machinery/item (please specify the same under "Details")		
5.6	Examination of following items under working	conditions:	
	a. Bilge Pumps		
	b. Emergency Fire Pumps		
	c. Remote control for oil valves, oil fuel pump	os, lubricating oil pumps, forced draught fans	
5.7	Examination of recirculating and ice clearing an	rangements, if any for satisfactory condition.	
5.8	Examination of main and all auxiliary machine together with their essential controls to confirm	ery necessary for operation of the vessel at sea satisfactory working condition.	
5.9		working condition including testing of alternate	
5.10	Verification of initial start arrangements for sati	sfactory condition.	

5.11	Confirmation that a short sea trial held satisfactorily.	
	(Note: 1. Mandatory where the vessel was laid up for a long period.	
	2. For class entry of non-compliant vessel subject to IACS PR 1D, sea trial to be undertaken in	
5.10	accordance with approved protocol as per survey procedure B-03)	
5.12	Confirmation that the cargo oil system and electrical installation in way of hazardous spaces comply with the Rule requirements. Where intrinsically safe equipment is installed,	
	confirmation that a recognized authority has approved such equipment. The safety devices,	
	alarms and essential instruments of the inert gas system are to be verified and the plant	
	generally examined to ensure that it does not constitute a hazard to the vessel.	
	(Note: Applicable for oil tankers)	
5.13	Any class notation included in H. O. authorization but not assigned.	
	(Note: Include explanation included in "Remarks")	
6	AVAILABILITY OF PLANS/DOCUMENTS	
6.1	All relevant plans/ documents are available. If not appropriate actions initiated in consultation	
	with Head Office.	
	(Note: (i) For class entry involving IACS PR 1D, plans/documents listed in Part 1, Chapter 1	
	Section 3.2.1 to 3.2.5 of the IRS Rules are to be appraised.	
	(ii) Plans/documents as listed in survey procedure B-03 Annexure 2 are to be submitted to head	
()		
6.2	Shipboard arrangement verified against plans/documents and confirmation that no alteration/modification is done to the vessel.	
6.3	Where plans/documents not available, confirmation that technical data collected in lieu of	
0.5	specific plan/document and sent to Head Office (HOD (PAC-Existing Ships) and HOD	
	(Classification & Certification)).	
7	THICKNESS MEASUREMENTS	
7.1	Where class entry survey is to be credited as a periodical survey for maintenance of class	
,.1	thickness measurements undertaken by the losing society carried out within the applicable	
	survey window of the periodical survey being credited and accepted based on satisfactory	
	review for compliance with the applicable survey requirements, and confirmatory gauging now	
	undertaken as reported.	
	(Note: Copy of TM to be uploaded)	
7.2	Where class entry survey is not to be credited as a periodical survey for maintenance of class	
	thickness measurements undertaken by the losing society carried out within 15 months prior to	
	completion of class entry survey (when it is in the scope of a Special Survey)/within 18 months	
	prior to completion of class entry survey (when it is in the scope of an Intermediate Survey)*	
	and accepted based on satisfactory review for compliance with the applicable survey	
	requirements, and confirmatory gauging now undertaken as reported.	
0	(Note: Copy of TM to be uploaded)	
8	EXAMINATION OF BALLAST TANKS AND CARGO SPACES Examination of ballast tanks and cargo spaces undertaken and are reported separately.	
0		
9	TANKS TESTING Testing of ballast tanks undertaken as reported separately.	
10	ANCHORS AND ANCHOR CHAIN CABLES	
10	ANCHORS AND ANCHOR CHAIN CABLES Confirmation that anchors examined and chain cables ranged and gauged and found to be	
	satisfactory.	
11	OVERDUE SURVEY AND CONDTIONS OF CLASS	
11.1	Confirmation that (i) all overdue surveys and (ii) all overdue conditions of class previously	
11.1	issued against the vessel as specified to the Owner by the losing Society, have been dealt with	
	satisfactorily.	
	(Note: Applicable for vessels less than 15years of age)	
11.2	Confirmation that (i) all overdue surveys and (ii) all overdue conditions of class previously	
	issued against the vessel have been dealt with satisfactorily by the losing society.	
	(Note: Applicable for vessels of 15years of age and over)	
12	OUTSTANDING CONDITION OF CLASS	
	Confirmation that all outstanding conditions of class issued by the losing society which have not	
	been dealt with during class entry have been reflected in the survey status.	
	(Note: Details of outstanding conditions of class dealt with at the time of class entry are to be	
	reported separately)	

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4	Confirmation that the Annual Survey/Intermediate Survey/Special survey* carried out partly as reported. Extent of survey/examination* carried out/pending* is reflected in the survey status. (Note: Explanation for carrying out surveys partly may be included under "Remarks")	
5	Annual Survey/Intermediate Survey/Special survey/General examination* could not be completed due to reason as provided under "Remarks" and the survey window having been expired it is recommended that the class of the vessel may be suspended. Extent of survey/examination carried out /pending is reflected in the survey status as additional information and pending repairs to deficiencies have been reflected in the survey status as condition of class.	
6	The special survey has been preponed in consultation with the Flag Administration for alignment with statutory renewal surveys. A fresh date for special survey is recommended to be assigned.	
7	The Annual/Intermediate* survey has been completed before the survey window at the request of the owner and the anniversary date is amended in the class certificate accordingly.	
REN	MARKS:	