CLASS CHECKLIST FOR BULK CARRIER

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

Ship Name:		I.R. No.:	Report No.:
NOT	TES:		
1	Use "Y" for Yes/Satisfactory, "N" for Not S	Satisfactory, "NO" for No, "NA" for Not Applic	able, "P" for Remains outstanding.
2	Refer BWM statutory checklist for items rel	elated to BWM survey when class & statutory sur	rvey for BWM carried out concurrently.
3	Where the services of an approved firm in Alternatively, copy of approval page may be	is utilized, details of approval and personnel one uploaded with the report.	qualification is to be provided under remarks.

Sr. No.	Item	Y/N/NO/ NA/P
A	DOCUMENTATION	
1	APPROVED TRIM & STABILITY INFORMATION	•••
	Confirmation of availability of trim and stability booklet approved by administration.	
2	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.	•••
3	LOADING MANUAL Verified that vessel has an approved Loading Manual.	•••
4	LOADING INSTRUMENT Availability of an approved loading instrument together with its operational manual & verification of test cases.	
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. (Note: Applicable for Cargo vessel of 80 m & above length on or after 01/07/1998 and length > 100 m on or after 01/02/1992)	•••
7	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 holds 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 holds)	•••
8	STATUTORY CERTIFICATES Verification that all statutory certificates and class certificate are available and valid.	•••
9	DAMAGE CONTROL PLANS & BOOKLET Verification that damage control plans and booklet are available. (Note: Applicable for vessels of 500 GT & over and constructed on or after 01/02/1992)	•••
10	MANOEUVRING BOOKLET Confirmation that the manoeuvring booklet is on board and the manoeuring information is displayed on the navigation bridge.	•••
11	CARGO SECURING MANUAL Confirmation of availability of approved cargo securing manual.	•••
12	THE SHIP STRUCTURE ACCESS MANUAL Confirming that the Ship Structure Access Manual is on board. (bulk carriers of 20,000GTand over, constructed on or after 1st Jan. 2006)	•••

13	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.	
1.4	(Note: Applicable for ship constructed on or after 1 st Jan. 2007)	
14	LOADING/UNLOADING BOOKLET	•••
	a. Confirming, that the loading/unloading booklet required in SOLAS regulation VI/7 is on board.	
	b. Confirming that; where restrictions are imposed with respect to the carriage of cargoes with a	•••
	density of 1,780 kg/m3 and above,	
	 the restrictions imposed are identified and recorded in the booklet and; a triangle is permanently marked at midship. 	
1.5		
15	EMERGENCY TOWING PROCEDURES Confirmation that ship specific emergency towing procedures available on board.	•••
16	COATING TECHNICAL FILE	
10	Confirmation 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 and double-side skin spaces arranged for ships of 150 m in length and upwards 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	OWNER'S INSPECTION AND MAINTENANCE OF CARGO HATCH COVERS	•••
1,	Confirmation that vessel is provided with maintenance plan for cargo hatch covers and coamings	•••
	and record maintained for the inspection, maintenance and replacement of components.	
18	SHIP CONSTRUCTION FILE (SCF)	
10	Confirming availability of Ship Construction File. Examining the ship's structure in accordance	•••
	with the Ship Construction File, taking into account, identified areas that need special attention.	
	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.	
	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 bulk carrier of 150 m length & above as per SOLAS Chapter II-1, Part A-1,	
	Regulation 3-10 (built to Goal Based Standards))	
19	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 at the time of	
	measurement to be recorded)	
20	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 harmonic filter on or after 01 July 2017.)	
21		
21	ALTERNATIVE DESIGN AND ARRANGEMENTS	•••
	Confirmation that, where applicable, the approved documentation for the alternative design and	
22	arrangements is on board.	
22	PROCEDURAL REQUIREMENT FOR CERTAIN ESP SURVEYS Confirmation that procedural requirement in respect of conduct of intermediate and special	•••
	Confirmation that procedural requirement in respect of conduct of intermediate and special surveys by two exclusive surveyors complied with for following cases:	
	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 special and intermediate hull classification surveys are to be carried out by at least two	
	exclusive surveyors. On bulk carriers 100,000 dwt and above of single side skin construction the intermediate hull classification survey between 10 and 15 years of age is to be performed by 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".	
7	DETAILS OF STRUCTURAL MODIFICATIONS/ALTERATIONS	•••
	Confirmation that, in case of any modifications observed during survey, which may have impact on tonnage values (GT and/or NT), conditions of assignment of Loadlines, strength and stability of the vessel etc., Head office has been notified and necessary changes effected in the survey report, class and statutory certificates and documents.	
	(Any instructions/authorisation from HO with respect to above to be uploaded in supporting documents)	
В	HULL AND WEATHER DECK	
1	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.	
	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)	
2	ANCHORING & MOORING EQUIPMENT	•••
	Examining the anchoring equipment & mooring equipment. At renewal survey, during the examination, anchors are lowered and raised using the windlass.	
3	SOUNDING PIPES Sounding pipes, including self closing devices on short sounding pipes.	•••
4	HATCHWAYS	
7	Examination and testing of hatchways (Access hatch) on freeboard and superstructure decks including efficient condition of closing appliances, side bow and stern doors, flush deck scuttles, ash shoots and other openings.	•••
5	WEATHER DECKS	•••
	Examination of weather decks, ships side plating above water line.	
6	HULL MARKINGS Verification that hull markings such as freeboard markings, draft markings, vessel name, IMO number, port of registry are legible and in satisfactory condition.	•••
7	VENTILATORS	•••
	Examination and or testing of ventilators including efficiency of their closing appliances.	
8	WINDOWS, SIDE SCUTTLES AND DEAD LIGHTS Examination and or testing of windows, side scuttles and dead lights.	•••
9	SCUPPERS, SANITARY DISCHARGES, VALVES AND CONTROLS Examination scuppers and sanitary discharges and valves together with valves and their control	•••
10	gear.	
10	SKYLIGHTS AND FIDDLEY OPENINGS Examination and or testing of skylights and fiddley openings including their closing appliances.	•••
11	EXPOSED CASINGS, DECK HOUSES, COMPANION WAYS AND	•••
	SUPERSTRUCTURES Examination and/testing of exposed casings, deck houses, companionways and superstructure bulkheads including closing appliances.	
12	GUARD RAILS AND/OR BULWARKS	
	Examination of the condition and arrangement, fittings & appliances for timber deck cargo.	•••
13	COLLISION & WT 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, watertight doors in watertight bulkheads.	
14	MASTS AND STANDING RIGGING	
17	Masts, Derricks & Crane columns including their standing rigging.	•••
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15	WATER TIGHT DOORS AND CONTROLS	•••
	Examining and testing (locally and remotely) all the watertight doors in watertight bulkheads including indicating lights and alarms.	
16	COMPANIONWAYS	•••
	Verification of Companionways and posting of appropriate notices.	
17	CLOSEUP/OVERALL EXAMINATION OF CARGO HATCH COVERS AND COAMINGS	•••
	Cargo hatch covers and coamings including their closing appliances, stowage, fit including efficiency of closing in sealed condition & operation including hatch cover sets within the forward 25% of the ship's length and atleast one additional set, such that all sets on the ship are assessed at least once in every 5-year period, are to be surveyed open, closed and in operation to the full extent on each direction at each annual survey to the extent as per the requirement IRS Rules Part 1 Ch.2, Cl.2.2.2.2 to 2.2.2.7. Drainage channels and non return valves for cargo hatch to be specially examined. Above mentioned examination carried out for cargo hatch covers for Hold nos (1,2,3,4,5,etc)/all.	
18	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.	
19	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.	
20	REMOTE INSPECTION TECHNIQUES (RIT)	•••
	Where remote inspection techniques are used in survey, confirmation that firm engaged for RIT is approved.	
21	NON-DESTRUCTIVE TESTING (NDT)	•••
	Where NDT carried out onboard, confirmation that the firm providing NDT services is	•••
	approved.	
22	AIR PIPES	•••
	Examination and or testing of air pipes including efficiency of their closing appliances, weld	
	connection between Air pipes and deck plating.	
	Confirmation that vents from bunker tanks and ballast tanks (with cathodic protection) are equipped with flame screens and mesh provided are in satisfactory condition.	
23	FREEING PORTS	
23	Examination of the condition and arrangement including shutters and crew protection bars.	•••
24	MAINTENANCE, REPAIR AND PARTIAL COATING OF DEDICATED BALLAST	•••
	TANKS	***
	Confirmation that maintenance, repair and partial recoating of dedicated ballast tanks and	
	double side skin spaces, as appropriate, are recorded in the coating technical file and the	
2.5	maintenance of the protective coating is included in the overall ship's maintenance scheme.	
25	NEW INSTALLATION OF MATERIALS CONTAINING ASBESTOS Confirming that now equipment containing schools was not fitted on board since lest survey.	•••
26	Confirming that new equipment containing asbestos was not fitted on board since last survey.	
20	ACCESS TO AND WITHIN SPACES IN, AND FORWARD OF, THE CARGO AREA OF OIL TANKERS AND BULK CARRIERS	•••
	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 bulk carriers of	
	20,000 G/T and over.	
	Confirming, when appropriate and as far as is practicable when examining internal spaces on	
	bulk carriers of 20,000 G/T and over, that the means of access to cargo and other spaces remain in good condition.	
27	GANGWAY, LIFELINES AND MEANS OF EMBARKATION/DISEMBARKATION	
27	a. Satisfactory examination of items pertaining to lifelines, accommodation ladder, gangways,	•••
	Davits, Winches for their satisfactory condition. 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.	
28	INTERNAL SPACES	•••
	Verification of the permanent means of access where appropriate of the internal spaces as far as practicable.	
	practication.	

29	UPGRADATIONREPAIR 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.	
	(Note: Ballast tank for which coating condition was upgraded to "GOOD" this time during survey are to be listed in the "Remark" section.)	
30	WATERTIGHT CABLE TRANSIT SEAL SYSTEMS	
	(Note: Applicable for all vessels contracted for construction on or after 1st 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.	•••
31	OXYGEN AND GAS DETECTION EQUIPMENTS Confirmation that, when transporting a bulk cargo which is liable to emit a toxic or flammable gas, or cause oxygen depletion in the cargo space, an appropriate instrument for measuring the concentration of gas or oxygen in the air is provided. Verification that instructions for use of such equipment incl. operation by crew are available.	
32	ADDITIONAL REQUIREMENTS: Additional Annual survey requirements for the foremost cargo hold subject to SOLAS XII/9. (Note: Overall/close up survey of foremost cargo hold, shell frames, suspect areas including thickness measurement are to be undertaken as required by Rules for vessels subject to SOLAS XII/9).	
<u> </u>	VESSEL AGE OVER 10 YEARS	
<u>C</u>	CARGO HOLDS:	
1	Single skin/other Bulk carrier: close up survey of forward cargo hold and overall survey of all cargo holds. Double skin bulk carrier: Overall survey of two selected cargo holds. Examination of all piping	•••
	and penetrations in cargo holds including overboard piping.	
D	VESSEL AGE ABOVE 15 YEARS	
1	CARGO HOLDS:	
1	Overall survey of all cargo holds, close-up examination of a selected cargo hold in addition to the forward cargo hold. All piping and penetrations in cargo holds, including overboard piping are to be examined.	•••
E	MACHINERY SPACES	
1	MACHINERY AND BOILER SPACES	•••
	Confirming that the machinery, boilers and other pressure vessels, associated piping systems and fittings are 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	•••
	 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	•••
	a. All main and auxiliary steering arrangements and their associated equipment and control systems were examined and tested. 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.	
	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 it's relieving gear. For exhaust gas economizers, review of engine log book to verify that Chief Engineer has tested the safety valves at sea within the window period of Annual Survey.	
6	REMOTE CONTROLS	•••
	Examining the means for the operation of the main and auxiliary machinery essential for propulsion and the safety of the ship, including when applicable, the means of remotely controlling the propulsion machinery from the navigating bridge (including the control, monitoring, reporting, alert and safety actions) and the arrangements to operate the main and other machinery from a machinery control room.	
7	BILGE PUMPING ARRANGEMENT	
7.1	Examination of the bilge pumping systems and bilge wells including operation of each bilge pump (including hand pumps and eductors), extended spindles and level alarms, where fitted. Operational confirmation of emergency bilge suction and bilge-pumping system for each watertight compartment and drainage from enclosed cargo spaces situated on freeboard deck.	•••
7.2	Examination and testing of bilge well audible and visual alarms to all cargo holds and conveyor tunnels as applicable for their satisfactory functionality.	•••
7.3	For ships complying with the requirements of SOLAS XII/12 for hold, ballast and dry space water level detectors, an examination and a test, at random, of the water ingress detection systems and of their alarms.	
8	DANGEROUS GOODS ARRANGEMENTS	•••
	Examining, when appropriate, the special arrangements for carrying dangerous goods, including checking the electrical equipment and wiring, the ventilation, the provision of protective clothing and portable appliances and the testing of the water supply, bilge pumping and any water spray system.	
9	FIRST START ARRANGEMENT	•••
	Operational confirmation of the means provided to bring the machinery into operation from the dead ship condition without external aid.	
10	NORMAL OPERATION OF PROPULSION MACHINERY	•••
	Confirming that the normal operation of the propulsion machinery can be sustained or restored even though one of the essential auxiliaries becomes inoperative.	
11	AUTOMATION	•••
	General Examination of automation equipment and examination, testing of the general emergency alarm system. Operation of safety devices, bilge level detection and alarm systems and control systems. Operational confirmation of the engineer's alarm that it is clearly audible in the engineer's accommodation.	

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12	SCHEDULE OF BATTERIES	•••
	Endorsed schedule of batteries for essential and emergency services available on board and	
	maintenance being done as per this schedule.	
1.2	Confirm that changes (If any) in battery type, location and rating are reviewed and endorsed.	
13	FORWARD SPACE/TANK BILGE PUMPING SYSTEMS	•••
	Examination and test of the pumping systems for draining and pumping ballast tanks forward of	
	the collision bulkhead and bilges of dry spaces any part of which extends forward of the foremost cargo hold and of their controls.	
1.4		
14	SEA WATER PIPE EXPANSION JOINTS Expansions visually the condition of non-metallic expansion is into whom fitted in mining	•••
	Examining visually the condition of non-metallic expansion joints where fitted in piping systems which penetrate the ship's side, with both the penetration and the expansion joint	
	located below the deepest load waterline, and checking the service record.	
15	MACHINERY SPACE VENTILLATION	
13	Confirmation that machinery space ventilation is in good working condition.	•••
16	EMERGENCY GENERATOR ROOM VENTILATORS ARRANGEMENT	
10	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.	
	(Note: Applicable for vessel keel laid on or after 01 January 2017)	
17	TOWING AND MOORING EQUIPMENT	•••
1,	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.	
18	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)	
19	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.)	
F	ELECTRICAL INSTALLATION	
1	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	•••
2	management system, where fitted.	
2	BATTERY CHARGING USING SOLAR POWER General examination of installation, among among and an exaction of hattery charging using Solar	•••
	General examination of installation, arrangement and operation of battery charging using Solar power as additional source.	
	(Note: Applicable for IV vessels only)	
	(Note: Applicable for 14 vessels only)	

3	EMERGENCY SOURCE OF POWER	•••
	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. (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)	
4	NAVIGATIONAL LIGHT SYSTEM Verification of Navigational light systems for satisfactory operation of lights, audio-visual indications and power supply arrangement for their satisfactory condition.	
5	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.)	
6	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)	
7	MOTOR CONTROLS Confirmation that motor controls including remote control are in satisfactory operational condition, where provided.	•••
8	ELECTRICAL PROPULSION	•••
	Examination of installation, arrangement of electric motors used for propulsion system, including associated cabling, drives, cooling systems (where provided) is to be carried out. Verification of operational and maintenance logs. Confirmation that controls, alarms, indications including remote control system is in satisfactory operational condition.	
G	ADDITIONAL REQUIREMENTS FOR BATTERY PROP NOTATION	
1	DOCUMENTATION AND RECORDS	
	2 G C C II Z I I I I I I I I Z I I Z C I I Z C I I Z C I I Z C I Z	
1.1	Confirmation that batteries are type tested as per relevant IEC standard. Type of battery used: Nickel Cadmium Battery/Lithium-Ion Battery/ Lead Acid Battery/Nickel Metal Hydride Battery*.	•••
	Confirmation that batteries are type tested as per relevant IEC standard. Type of battery used: Nickel Cadmium Battery/Lithium-Ion Battery/ Lead Acid Battery/Nickel Metal Hydride Battery*. 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	
1.1	Confirmation that batteries are type tested as per relevant IEC standard. Type of battery used: Nickel Cadmium Battery/Lithium-Ion Battery/ Lead Acid Battery/Nickel Metal Hydride Battery*. 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,	
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1 DOCUMENTATION AND RECORDS	'ROTI	ECTION
 a. Confirmation that ICCP Manual is available onboard and attachments details of anodes a 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 record. Confirmation that all anode current outputs and potentials monitored are similar to the settled during previous assessment. c. Confirmation from records that ICCP system is maintained and adjusted by the supplier 	e. led. ose	
regular basis as per manufacturer's instructions. 2 SYSTEM OPERATION		
Confirmation that system is in operation and working satisfactory. Confirmation that operation indicators and control on the panel including auto/manual switch are found to be satisfactory.	ı of	•••
PROTECTION ARRANGEMENT FOR ANODE CABLES Confirmation that protection arrangement for ICCP anode cables is in satisfactory condition.		•••
K ALTERNATIVE DESIGN AND ARRANGEMENT		
Where applicable, examination of alternative design and arrangements for machinery electrical installations, low-flashpoint fuel storage and distribution systems, or fire safety accordance with the test inspection and maintenance requirements, if any, specified in approved documentation is to be carried out.		•••

L	FIREFIGHTING/PROTECTION 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 firefighting 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 spaces, as 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	STRUCTURAL FIRE PROTECTION AND FIRE DAMPERS	•••
	Confirming, as far as practicable, that no changes have been made in the structural fire protection.	
	Testing the fire dampers of ventilation ducts and the means of closing the main inlets and outlets	
	of all ventilation systems and testing the means of stopping power ventilation systems from	
	outside the space served.	
8	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.	
9	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	
1.0	and other pumps that discharge flammable liquids.	
10	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.	•••
11	FIREMAN'S OUTFITS & EEBDS	
11	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-proof type or intrinsically safe.	
12	WATER MIST LANCE For ships designed to carry containers on or above the weather deck, as applicable, examining the water mist lance and, as appropriate, the mobile water monitors and all necessary hoses,	•••
	fittings and required fixing hardware.	
13	MEANS OF ESCAPE a. Confirmation that the means of escape from accommodation, machinery and other spaces are satisfactory.	•••
	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 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	CARGO SPACE The operation of the means of control provided for closing the various openings.	•••
M	GENERAL	
1	HOUSE KEEPING	•••
	a. Verification that general housekeeping/cleanliness in engine room, on deck, accommodation, hospital, galley, wash basins and toilets are satisfactory.b. ii) Confirmation that no loose drums and no heavy items without securing/lashing on deck.	
	c. iii) 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 additional survey requirements if any are available and requirement related to reporting, 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.	•••

1.1.1. Confirmation that an inspection plan for the use of remote inspection techniques including any confirmation y survey/tools-up survey/thickness measurements is submitted to H.O. and reviewed for acceptance prior commencement of survey. 1.2. Confirmation that risk usessement 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 rechnique. 1.3. 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 RTI operator, data presentation meluding pictorial representation and reporting the surveys using RTI discussed and agreed with the parties prior to the RTI survey, and equipment set-up, calibrated proor the inspection. 1.1.4 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. 1.1.5 Where remote inspection technique is not able to carry out the required thickness measurements, confirmation that means of access for the corresponding thickness measurements, confirmation that means of access for the corresponding thickness measurements carried our as required at selected locations to verify the results of the remote inspection technique. 1.6 If the RTI reveals damage or deterioration that requires attention, confirmation that traditional survey undertaken without the use of a RTI. (Details to be provided in "Remarks") 1.7 CHANCES TO EQUIPMENTSHIP PARTICULARS/LIST OF SURVEY BABLE TIEMS 1.8 ADDITIONSUSPENSION/DELETION OF CLASS NOTATION 1.9 For any request for additional class notation where plan approval is	11	REMOTE INSPECTION TECHNIQUES	
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 technique is also able to carry out the required thickness measurements. 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, 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 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 14 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. Suspensional plan approval comments if any closed out in E-Plan arena. 15 ADDITION/SUSPENSION/DELETION of CLASS INTERMEDIATE SURVEY 16 APPROVED SURVEY PROGRAM 17 CONTINIATION OF CL		confirmatory survey/close-up survey/thickness measurements is submitted to H.O. and reviewed for acceptance prior commencement of survey.	
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survey undertaken without the use of a RIT. (Details to be provided in "Remarks") CHANGES TO EQUIPMENT/SHIP PARTICULARS/LIST OF SURVEYABLE ITEMS Changes to equipment/ship particulars/list of surveyable items reported using corresponding FE forms. 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 notation. (Note: Details regarding addition/suspension/deletion of class notation is to be included under "Remarks") PLAN APPROVAL COMMENTS Relevant plan approval comments if any closed out in E-Plan arena. ADDITIONAL REQUIREMENTS TOWARDS CLASS INTERMEDIATE SURVEY APPROVED SURVEY PROGRAM Confirmation of availability of approved survey program for the survey on board. (Note: Applicable for vessels over 10years of age) SURVEY PLANNING MEETING Confirmation that survey planning meeting held between the attending surveyor(s), the owner's 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. CONTINUED COMPLIANCE WITH UR 19 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S19 with respect to initial approval calculation/document for vertical corrugated aft transverse watertight bulkhead of fore most cargo hold for vessels subject to this requirement. CONTINUED COMPLIANCE WITH UR 31 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S19 with respect to initial approval calculation/document for vertical corrugated aft transverse watertight bulkhead of fore most cargo hold for vessels subject to thi	11.5	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	•••
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(This section is applicable where the intermediate survey is equivalent to the previous special survey)	4	Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S31 with respect to initial approval calculation/document for side shell frames and brackets of cargo holds for vessels subject to this	
Limitation of an piping by overno within Cargo Horas, Danas, Land, Inch. Double Doubli willing	5	(This section is applicable where the intermediate survey is equivalent to the previous special survey)	

	End Oil Toda Bin Annual Coffindana ad Wild Consultant and an advantaged	
	Fuel Oil Tanks, Pipe tunnels, Cofferdams and Void Spaces bounding cargo holds and operational	
	testing to working pressure to confirm that the tightness and condition are satisfactory.	
6	CLOSE-UP/OVERALL EXAMINATION OF CARGO HATCH COVERS AND	•••
	COAMINGS INCL. OPERATION OF HATCH COVERS	
	(This section is applicable where the intermediate survey is equivalent to the previous special	
	survey)	
	a. Examination of all cargo hatch covers and coamings including their closing appliances,	
	stowage, fit & operation (IRS Rules) for satisfactory condition.	
	b. Confirmation that all mechanically operated hatch covers have been checked for operation and	
	effectiveness of sealing arrangement and found to be satisfactory.	
	c. Verification for continued compliance with IACS UR S30 for Cargo Hatch cover securing	
	arrangements and stoppers for bulk carriers constructed before 1st January 2004 and not built	
	in accordance with UR S21 (for No.1 and No.2 Cargo Hold Hatch).	
7	EXAMINATION OF TANKS, SPACES AND THICKNESS MEASUREMENT	
7.1	Confirmation that internal examination of tanks, spaces including testing and thickness	•••
	measurements carried out satisfactorily as per the rule requirements and reported separately.	
7.2	Examination of ballast tanks included examination of the condition of the corrosion prevention	•••
	system in these spaces and found to be satisfactory.	
7.3	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".	
7.4	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.	
7.5	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	
	"Remarks" section)	
8	WATER INGRESSDETECTION AND ALARM SYSTEM	•••
	(This section is applicable where the intermediate survey is equivalent to the previous special	•••
	survey) For ships complying with the requirements of SOLAS XII/12 for hold, ballast and dry	
	I SULVEY I TO SHIDS COMDIVING WITH THE TEMPLECHERIES OF SCIENS ATT/12 TO HOID, Danast and dry I	
	space, confirmation that examination and a test, of the water ingress detection system and their	
0	space, confirmation that examination and a test, of the water ingress detection system and their alarms carried out and found to be satisfactory.	
O	space, confirmation that examination and a test, of the water ingress detection system and their alarms carried out and found to be satisfactory. ADDITIONAL REQUIREMENTS TOWARDS SPECIAL SURVEY	
O	space, confirmation that examination and a test, of the water ingress detection system and their alarms carried out and found to be satisfactory. ADDITIONAL REQUIREMENTS TOWARDS SPECIAL SURVEY APPROVED SURVEY PROGRAM	
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4.4	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.	•••
4.5	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 "Remarks" section)	•••
5	CONTINUED COMPLIANCE WITH UR 19 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S19 with respect to initial approval calculation/document for vertical corrugated aft transverse watertight bulkhead of fore most cargo hold for vessels subject to this requirement.	
6	CONTINUED COMPLIANCE WITH UR 31 Confirmation that thickness measurement and subsequent repairs/reinforcement required has been completed and vessel continues to comply with IACS UR S31 with respect to initial approval calculation/document for side shell frames and brackets of cargo hold for vessels subject to this requirement.	•••
7	MOORING ROPES AND TOW LINES Confirmation that sufficient mooring ropes and tow lines as required by rules are provided onboard.	•••
8	AIR PIPES Internal Examination of Automatic air pipe heads as required by IRS Rules, to confirm these are maintained in satisfactory condition.	•••
9	LONGITUDINAL STRENGTH EVALUATION FOR CSR BULK CARRIERS (This section is applicable for CSR Bulk Carriers and during special surveys carried out after the ship reached 15 years of age or during the special survey No.3, if this is carried out before the ship reaches 15 years) Confirmation that the ship's longitudinal strength evaluated by using the thickness of structural members measured, renewed and reinforced, as appropriate, in accordance with the criteria for longitudinal strength of the ship's hull girder for CSR bulk carriers was considered acceptable. (The final result of evaluation of the ship's longitudinal strength required above after renewal or reinforcement work of structural members, if carried out as a result of initial evaluation, is to be reported as a part of the Executive Hull Summary.)	
10	MEANS OF EMBARKATION AND DISEMBARKATION Confirmation that accommodation ladders, gangways and its winches incl. brake system operationally tested with specified maximum operation load in accordance with IRS and found to be satisfactory.	
11	WATER LEVEL DETECTION AND ALARM SYSTEM For ships complying with the requirements of SOLAS XII/12 for hold, ballast and dry space water level detectors, an examination and a test of the water ingress detection systems and of their alarms to confirm these are in satisfactory condition.	•••
12	PIPING SYSTEM Examination of all piping systems within Cargo Holds, Ballast Tanks incl. Double Bottom tanks, Fuel Oil Tanks, Pipe tunnels, Cofferdams and Void Spaces bounding cargo holds including plating and framing, bilge and drain wells soundings, venting, pumping and drainage arrangements and operational testing to working pressure to confirm that the tightness and condition are satisfactory.	
13	WATERTIGHT CABLE TRANSIT SEAL SYSTEMS (Note: Applicable for all vessels contracted for construction on or after 1 st July 2021) a. Examination of all cable transit seal systems for their satisfactory condition and 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 special survey, records are reviewed and examination carried out for the satisfactory condition of those transits. Confirmation that the results are recorded in the Register against each of those cable transits. (Note: Entries that were reviewed and examined during previous annual survey may be excluded) 	•••
	c. Confirmation that the Special Survey is recorded in the Register. (Note: A single record entry will be sufficient to record the survey of all transits.)	•••

	d. Where the cable transits have been examined by an approach cable transit seal system register to confirm that it has owner and correctly endorsed by the service supplier.		•••
P	ADDITIONAL REQUIREMENTS FOR CLASS ENTRY (EXISTING SHIP)		
1	GENERAL		
1.1	Authorization for undertaking the class entry survey including scope of survey, class notation to be assigned is available.		•••
1.2	For transfer of class and dual classification cases confirmation that current classification survey status of the losing society/first society is available.		•••
1.3	For any request for additional class notation where plan approval is required, Same has been undertaken in consultation of HOD (classification & certification). Include details under "Remarks".		•••
1.4	Separate reporting done using relevant checklists for class ne		•••
2	GENERAL EXAMINATION OF ESSENTIAL MACHINERIES		
2.1	Examination of oil fuel burning equipment of boiler, economizers and steam/steam generators under working conditions. The adjustment of safety valves of this equipment verified.		•••
2.2	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.)		
2.3	Examination of generator circuit breakers, preference tripping relays and generator prime mover governors including verification of insulation resistance, paralleling and load sharing for their satisfactory condition.		•••
2.4	Examination of navigating lights and indicators for their working condition including verification of alternative sources of power.		•••
2.5	1		•••
	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")		
2.6	Examination of following items under working conditions:		
2.0			
	a. Bilge Pumpsb. Emergency Fire Pumps		•••
		:1	•••
2.7	c. Remote control for oil valves, oil fuel pumps, lubricating oil pumps, forced draught fans		•••
2.7	Examination of recirculating and ice clearing arrangements, if any for satisfactory condition.		•••
2.8	Examination of main and all auxiliary machinery necessary for operation of the vessel at sea together with their essential controls to confirm satisfactory working condition.		•••
2.9	Examination and testing of steering gear under working condition including testing of alternate means of steering for satisfactory working.		•••
2.10	Verification of initial start arrangements for satisfactory con	dition.	•••
2.11	Confirmation that a short sea trial held satisfactorily.		•••
	(Note: 1. Mandatory where the vessel was laid up for a long		
	2. For class entry of non-compliant vessel subject to IACS		
	accordance with approved protocol as per survey procedure		
2.12	Any class notation included in H. O. authorization but not as (Note: Include explanation included in "Remarks".)	ssigned.	•••
3	AVAILABILITY OF PLANS/DOCUMENTS		
3.1	All relevant plans/ documents are available. If not appropr with Head Office.	iate actions initiated in consultation	•••
	(Note: (i) For class entry involving IACS PR 1D, plans/do 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 Ann	lexure 2 are to be submitted to head	

	office.)	
3.2	Shipboard arrangement verified against plans/documents and confirmation that no alteration/modification is done to the vessel.	•••
3.3	Where plans/documents not available, confirmation that technical data collected in lieu of specific plan/document and sent to Head Office. (HOD (PAC-Existing Ships) and HOD (Classification & Certification))	•••
4	THICKNESS MEASUREMENTS	
4.1	Where class entry survey is to be credited as a periodical survey for maintenance of class 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)	
4.2	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. (Note: Copy of TM to be uploaded)	
5	EXAMINATION OF BALLAST TANKS AND CARGO SPACES	
5.1	Examination of ballast tanks and cargo spaces undertaken and are reported separately.	•••
6	TANKS TESTING Testing of ballast tanks undertaken as reported separately.	•••
7	ANCHORS AND ANCHOR CHAIN CABLES Confirmation that anchors examined and chain cables ranged and gauged and found to be satisfactory.	
8	OVERDUE SURVEY AND CONDTIONS OF CLASS	
8.1	Confirmation that (i) all overdue surveys and (ii) all overdue conditions of class previously issued against the vessel as specified to the Owner by the losing Society, have been dealt with satisfactorily. (Note: Applicable for vessels less than 15 years of age)	
8.2	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)	
8.3	OUTSTANDING CONDITION OF CLASS	
6.3	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)	
8.4	MATERIAL TESTING	•••
	Confirmation that material used for construction of the vessel meet Rule requirements and confirmed through material testing as required by survey procedure B-03. (Note: (i)Material testing is required to be carried out at accredited laboratory (accredited to ISO 17025 or equivalent) or at a laboratory approved by the respective Flag Administration. (ii) Applicable to class entry of non-compliant vessel subject to IACS PR 1D)	
8.5	NON-DESTRUCTIVE TESTING Confirmation that NDT of weld joints undertaken as required by survey procedure B-03. (Note: Applicable to class entry of non-compliant vessel subject to IACS PR 1D)	•••
8.6	HYDRAULIC TEST Confirmation that hydraulic testing of pressure vessel and piping system carried out in accordance with applicable class rules as per survey procedure B-03. (Note: Applicable to class entry of non-compliant vessel subject to IACS PR 1D)	
8.7	COMPLIANCE TO RETROACTIVE RULE REQUIREMENTS Confirmation that vessel is in compliance with retroactive Rule requirements which are applicable to the vessel at the time of class entry. (Note: Applicable to class entry of non-compliant vessel subject to IACS PR 1D)	

8.8	INSTRUCTION FROM FLAG ADMINISTRATION	•••
	Confirmation that specific instruction from flag if any is taken into account.	
Q	CHANGE OF FLAG/CHANGE OF CERTIFICATION SURVEY (EXISTING SHIP)	
1	Valid Permanent/ Provisional Registry certificate is available as issued by gaining flag/flag for which certification is being done.	•••
2	IRS has authorization to carry out surveys on behalf of the flag. HO authorization including scope of survey, requirement for approval of statutory documents on behalf of the flag has been received.	•••
3	Statutory certificates, supplements & documents issued on behalf of previous flag/RO are available.	•••
4	Exemptions, where applicable, have been issued by the gaining flag/flag for which certification is being done.	•••
5	Information on additional flag requirements, if any are taken into account.	•••
6	All relevant drawings, documents etc. are available. If not, appropriate actions initiated.	•••
7	Plans and documents requiring approval on behalf of gaining flag have been approved.	•••
8	Confirmation that mandatory certificate, documents required to be carried on board are available.	•••
9	(Note: Refer Instruction to Surveyors (Statutory) D-05 and Flag instruction) Confirmation that statutory documents/plans onboard are in the language as required by applicable conventions, codes and confirming flag specific requirements.	•••
10	Confirmation that marking and carving as required by flag has been done on the vessel.	•••
11	Confirmation that new flag, port of registry and ship's name are indicated, as applicable, on life boats, life rafts, life buoys, statutory documents as applicable.	•••
12	Confirmation that vessel is in compliance with new statutory requirements due to changes to statutory regulations as applicable to the vessel on the date of survey.	•••
R	STATUS OF SURVEY AND CERTIFICATE	
1	Confirmation that the Annual Survey/Intermediate Survey/Special Survey* completed satisfactorily.	•••
2	General examination of the vessel carried out satisfactorily towards [postponement of special survey/for granting voyage permission/towards class entry/towards condition improvement program/(specify)]* with the scope of Annual survey/ Intermediate Survey/Special Survey* relevant to the age and type of the vessel as per Rules. (Note: (i) Authorisation reference received from head office/flag Administration are to be provided under "Remarks" (ii) Further survey scope covered for postponement survey are to be confirmed by indicating under "Remarks")	
3	On satisfactory completion of the survey/examination* Full-Term Certificate issued/endorsed/extended/Interim certificate issued/Short term certificate issued* (Note: Validity of the short-term certificates and other conditions based on which the certificate	•••
4	is issued are to be included in the "Remarks" section) Confirmation that where a Condition is imposed/extended affecting the statutory requirements, same is in compliance as per survey procedure, A-01-06 and relevant Flag Instructions, D.13.	•••
5	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")	•••
6	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.	
7	information and pending repairs to deficiencies have been reflected in the survey status as	•••