KERALA INLAND VESSELS RULES, 2010

O Government of Kerala maceood 2010 Reg. No. 6<1. 2 KERALA GAZETTE cang (DQOÖ EXTRAORDINARY crocmoooo€mo PUBLISHED BY AUTHORITY THIRUVANANTHAPURAM, FRIDAY aoe.JJo 55 .'G o.(P) No. •92010/CSiND. 30th April 2010 2010 30 10th Vaisakha 1932 19.32 10 No. 1055 mm.l(ö GOVERNMENT OF KERALA' Coastal Shipping. and Inland Navigation Department NOTmCATION Dated, Thiruvananthapuram, 30th April, 2010. S. R. O, No. 424/2010.—In exercise df the powers conferred by sectiöri 19(1), 19 R, 29(1), 30, 30A, 52(1), 53(1), 54(1), 54(b) and 67(1) of the 'Inland Vessels Act, 1917 (Central Act I of d 917) and in supersession of the Travagcore Public Canals and public Ferries Rules, 1100 ME, issued under the Public Canals and Public Ferries Act, 10.96, Cochin Public Canals and Backwaters Navigation Rules, 1114 ME issued. under the Cochin Public .Canals and Bac kwaters NaviÉatibn Act, 1092 and the Canals and'Pubiic•Ferries Rules, 1917 issued under the Canals and Public Ferries Äct, 1890, to the •extent they {pply to methanically propelled vessels and the Inlånd Vessels Survey and Registration (Kerala) Rules, 1999 issue.d under G. O. (P) No. 1/99/CS&IND dated 5th June, 1999 and published as S.R.O. No. • 503/99 in the Kerala Gazette Extraordinary. No. 1112 dated 5th June, 1999, the Govemment of Kerali hereby make the follpwing rules, namely:— 33/1763/2010/DTP. l. 2. 2 CHAPTER. I PRELnvf1NARY Short title and commencement.—(l) "Iliese rules may be called the Kerala •Inland. Vessels Rules, 201(). (2) They shall come into force on such date as may be appointed by Govemment by notification in the officiai Gazette. Definitions.—(l) in theée Fufes•, unless the context otherwise requires,— (a) (b) (c) (d) (f) (g) (h) (i) (j) (k) (l) (m) (n) (o) (p) (q) (s) (u) (w) (x) (y) (z) (aa) (ab) (ad) 'Act' means the Inland Vessels Act, 191? (Central Act I of 191 7); 'amidships' means at the middle of tlie length L; 'Approved life-buoy' shall be deemed sufficient to prqvide buoyancy for two persons; 'approved consukant' means a naval architect or a marine engineer qualified to certify the. safe construction of hull/machine}y of the vessel for the purpose.of- survey. and duly approved by the , Competent Authority; 'Buoyant apparatus' means rpctangulat rafts fitted with buoyancy tanks sufficient to support up to fourteen persons *in the water and includes buoyant deck seat; 'Certifi#te 'of Survey' means the certificate of sUrvey granted under section 9 of the Act; 'Class Survey of' Classification Society' means survey by a ship classification ,society to assign charåcters and class notations of inland vessel; 'channel marks' include coconut piles/bamboo marks, buoys and beacon; 'Chief examiner Inland Water Transport' means an cffcer so appointed by the Goyernment in charge of syllabus, examination and issue of certificates; 'Chief surveyor' means •an duly so appointed by the Govemment under this rules; 'Competent Authority' means an authdrity so appointed by the Govemment; 'convoy' means a group of vessels, floating, equipments or raft towed or pushed by a mechanically propelled vessel; 'drifting' means being driven by the current wiü) the. engine stopped; 'ferry boat' means any vessel providing a transport service across or along a waterway; 'Form' means fohn appended to these rules;. "freeboard' means the diétarfce measured vertically downwards amidships from the upper edge of the deck line to the position at which the upper edge. of the appropriate load iine mark lies; 'GT' means gross tonnage; 'Government' means thé.Govemment of Kerala; . 'length and breadth of a vessel' rheans ,maximum length and breadth of a vessel; '106k' means confined' section of river or canal where level can be changed for. raising and lowering boats between adjacent sections by use of gates and sluices; 'lock basin' nieans the approach to •the lock narrowing towards the lock from upstream and downsream; • 'master' means' any person.possessing a certificate of competency/service issued under the Act and in overalf charge and. control of a vessel; 'miles' means nautical miles; 'name of the vessel' includes the registration"mark referred to section 19 H of the Act; 'navigable channel* means the cGnncl intended for uninterrupted passige of vessels; 'owner' meahs the owner of a vessel; 'Registering Authority' •means the re>istering Authonty appointed under this rule; 'restricted visibility' means any condition in which visibility is restricted by fog, rainstorms, sandstorms or any other similar causes; 'sailing vessel'. means a•ny vessel under sail, Without, using the propelling machinery ; 'Schedule' means the schedule appended tq these Rules; mist, heavy (ae) (ag). (ah) 3 'surveyor' includes Chief Surveyor also; 'Underway' means a vessel which is not at anchor or inade fast to the shore or aground; 'Vessel' means an inland vessel or a inland mechanically prppelled vessel; 'Vessel not under command' means a vessel, which through some exceptional circumstances is unable to maneuver as required by these rules and is therefore unable to keep

out of the way of another vessel. (2) Words and expressions used, but not defined in these Rules, shall have the meaning assigned to them in*he Act

CHAPTER 11 SIAVEY AND REGISTRATION SURVEY OF VESSELS 3. Types of Every vessel tp which the piovisions of the •Act apply shall bc subjected •to the surveys specified below: (i) A survey before. the vessel is put in service; (iii A periodical survey once in every twelve months; (iii) Additional Surveys as occasion demands. (2) Tnc survey before the vessel is put in service shall include a inspection of the hull, machinery a equipments to ensure that arrangements, material, scantlings of hull, main and auxiliary machinery, life-saving .a liancas, fire appliances and other equipments ftlly comply with •the fequirements under the Act and these Rules as • ar_. applipable in its case. Provided that the bottom of the vesel which has been surveyed or examined by a surveyor before the vessel is'aunched may be exempted unless the surveyor has special rdasons fot_ considering it necessary. (3) The periodical survey of the vessel shall include an inspection of the whole of the hull, machinery and •e iimehts to ensure' that hull, machinery_ and .cquipmen& are iå satisfactory condition ind fit for ihe service for which •vessel is intended and that she complies with the requireménts under this Act and these rules as are applicable in itk (4). All Ves'sels shall be inspect?d once in every twenty (our months by a surveyor in a. dry dock or on a sl • way such' that •all portions of hull external can be during ihe hours of daylight: Provided that a vessel may be exempted from inspection- in a dry dock-or a slip Way only where the approved clissification soéiety conducting the-periodical survey of the vessel does not ihsist for the same. (5) No survey of the extemal hull shali be carried out during the hours pf dakness unless specially authorized in! any cxceptional case by. the pmpetent authority. (6) *The period of, validity of a certificate of survey shall be twelve moaths from the date of survey. (7) A survey either genera] or partial, according to the circumstances shall be made,— (a) the efficiency or competence of its equipments has changed or whenever a request for extension of certificate of •survey is being considered, (b) every time a •defect is diécoüered or an accident which affects the safety of the vessci. (8) The survey. shall be conducted in such a way to ensure that the necessary repairs or renewals have beep etectively made, that the material and workmanship of such repairs or •renewals are in ali respects satisfactory and that vessel is fit for the service for which she is intended. 4 4. Categorization of Vessels.— För the purpqse of survey inland vessels may be classified into two categories as follows:— Category A (a) Vessels .driven .with more than 300 H? in board engine; (b) Passenger VcsselslHouse Boats with deck above the free béard deck; (c) . Vessels with Fibre Reinforced Plastic hull having a passenger capacity of more than 25; (d) VeseelS Other than house boats of.more than 24m. length; (e) Hover ciafts and Hydro foils; (f) House •Boats o! length more than 35 m. with no upper deck. Category B All mechanically propelled vessels not included in Category A. 5. P_rocedure for (l) The owner or büiidei who intends to build a vessel shall, before laying the keel of the vessel, submit a preliminary application expressing his intention tQ build a vcssel, in

Form No. I alon•g with particulars' specified in sub clause (b): (c) ,(d) ,(e) arid (f) of rule 6(4), to the Chief Surveyor so that the progress of construction ean bc watched by the Surveyor from the very beginning and at different stages of cdnst•uction. (2) Upon receipt: of application as above, th6 Chief Surveyor shall verify the same and decide the category . to which _the vesscl is to be included and •intimate it to the applicant. (3) The date and place of laying the keel for. thc new vessel shall be intimated to thc Chief Surveyor, in writiqg, at least seven days before laying the keel. Categopy A vesscrs shall be required to be built under the class survey of classification society as may be specificd by the Government and Category B . vessels built either under class survey of Classification society or •under the inspection of State Suriey authority, •assisted by certificd .Naval Aichitects -or Marine Engineers for approval of drawings, stage suryey • etc. Provided that Governmcnt may exempt. aiy vessel or class of yessels satisfying thc requirements of Travancore Pübiic Canals and Pubhc Ferries Act 1096, thc Cochiri Puh)lic Canals and Back Waters Navigation Act of 1092, the keel of which is laid •or under construction or constructcd before the .coming into force of these rules, -from rule 4 bnd pro- visions in sub rules (l) and' (2) of this rule, for a period not expeeding one year from the datc of commencemcnt of these rules if the vessel or class of vessels equipped with adequate life saving and fire fighting equipments for the pur- pose of attaining the standards of survey as spccified in rule 5

6. Application for Survey.-: - (V) Every appiic?tion for. survey shall be made to -the surveyor fifteen clear days before thc date on which the applicant would likc to have the survey made. (2) The application shall be made in•F.orm No. 2 a•nd shall contain the particulars required therein. (3) Eve.ry application shall be a&ompanied by t.hé following records in respect of the vessel, namely,-—. (ii) (iii) (vi) (vii) (viii) copy of registration of the vessel or records evidencing the title of the applic:ant in respect Cif the vessel; copy of latest ccrtiticate of Survey if it is an existing vesspl and case the vessel undergoing • the first initial survey, a' deClaration to ghat cfféct; authorization from thg registcred owner, in the cases wbere the applicant is not the registered owner; documentqry , proof of his legal/natural guardian in casc of minor; chalan receipt payment of such tugs for survey as specified in the Schedule-I for the survcv; duplic.ate of latest declaration. if any, given to the owner; the name of.port or place at which' survcy is expected to be carried put', such other records as are necessary for and in connection'. with "survey; 5 (4) For survey of Inland vasel either newly constructed or existing vessel being surveyed for the fist time, application shil be accompanied by: (a) (b) (c) (d) (e) (O particulars in

Form No. 3 General Arrangement plans, structural drawings', freeboard marking, shell expansioi, machinery ind machinery layout, propeller, shafting, gears and steering pans, pipeline such as bilge and ballast, oil transfer etc. p'articulars of wheel house, crew accomniodation, passages, galleys, stores/service plaee etc. farticulars of ventilation/change of air for engine room, accommodation etc. particulars of Life Saving, Fire Fighting, Light and Sqund Sl*gnals, Navigational and CÖmmunication • é.quipments. drawings and cdmputation as •required under (b), (c), (d) and (e) below and signed by a Nava] • Architect/Classification Society approved by Government. (5) •For Category A vessels, application shaH be accompanied by: (a) (b) (c) (e) relevant plans; computation Of the styength of the hull, decks, bulkhead including cbl]isioh bulkhead etc. compÜtation of siability, free board clearly showing amount of cargo and- method of its placement, debicging calculatiqn of metacentric height; all possible data from the Ex Registering Authority regarding stability, drawings as mentionéd above etc. and builders pcrtificate, if available; Provided that, if previous Surveying Authority is unable to supply such data, for any reason and communicates, the •same in writing, the Owner shall produce sugh communication; certificqte of machineries from •manufacturers or •classification societies or surveyors and copy of Registration Certificate of vessel, if neccssary. i 7. Date, Time and Place of survey.= (l) On receipt of an application for survey, the surveyor shall fix the date, .time and place of urvey and shall give intimation thereof to the applicant 'in Form No. 4. (2) Survey of Inland vessel shall be conducted at such places that as may be declared by the Government as places of survey under section 4 of the Act

8. Manner of The survey shall be madé at such time, place and date, as may be specified in the intimation referred to in rule 7: Provided that the surveyor may postpone the survey for reasons to be recorded and in the case of such postponemcnt, the survey shall be made •only.after frcsh intimation, in the manner herein before specified: •Provided further thit the surveyof may require the vessel to bc brought over to dry dock or any 'other suitable place, if such a step is, for reasons to be recorded, considered necessary by the surveyor for the purpose of the survey and •no survey need be made in pursuance of an application unless the directions of the surveyoi in this regard are complied with by the applicant: Provided also that no survey shall be made on a public holiday unless it is mutually convenient for the surveyor and the- applicant and unless the additional' fees as,,provided thereof in these rules are paid by the applicant. (2) (Ihc survey shall be made by actual inspection of the vessel and every part thereof including the machinery thereof and any other article in the yessel, the inspection of which is relevant for the purposes of the Act. (3) . At the survey,' the surveyor shall satisfy himself as to the •particulars specified in . section 7 of the Act. (49 (a) ,lf, as a result of the survey any defect is noticed in the vessel or in any part ' thereof or. in any machinery or article therein, intimation of such defect Shal! be givqn to the applicant with a direqtion to rectify such defect Within the period to be specified in such intimation. 3311763/261 OIDTP. 6 {b) On receipt. of informatiop from the. apilicant. regarding rectification of such defects, further survey shall bC made and at further survey, the Surveyor shall, before giving the declaration referred to in section 7 of the Act satisfy himself as to the. reciification. or such defect. (c) The surveyor may reftlse to give the declaration referred' to fn section 7 of the Act until the defect is • rectified as directed by him. (5) Where a vessel offered for survey in pursuance of an application in that behalf by the owner is withdrawn by the owner owing to any default or any other act or cQnduqt by the owner and the survey is hindered or made impossible, no survey of thc vcssel sball be made based on that application: Provided th4t nothing in this sub-Nie shall prevent the owner. from filiné a fresh application for survcy. (6) (a) The »zrveyor shall, as and. when required by the •Govemmcnt, furnish to the Government such information as he has in respect- of any vesscl- apd if he is not in possession of such information, he shall obtain such information from the owner or master and furnish to the Govemment. (b) -The owner or master of the vessel shall be, bound to give such informåtion on a requisition in that behalf by Lhe surveyor. (7) anything in these rules, .it shall be competent for the surveyor to go on board any vessel and inspect it or any part thereof* or any machinery or article thereon relpvant to the purpose.of the Act, if such inspection becomes necessary for or in connection with any. of the purposes of the Act. (8) No surveyor shall enter a vessel for the purpose of survey of the vessel unter this Act eicept under a notice to the owner or master of the' vessel. •9. Declaration of Survey* l) The declaration referred to in section 7 of the Act shall be in a

Form No. 5 for. categoty A vessels and in Form No. 6 for category B vessels and shall be given in duplicate. (2) , The owner or master to wh6m the declaration is given, shall witbin founecn days after the date of •receipt send the declaration to such 6mcer, as the Govern}nent may by notification appoint in this behalf. (3) The surveyor giving such a declaration shall obtain from the owner or master of the vessel the current or expired Certificate of survey in respect of the vessel and . forward the same to thc competent officer with information regarding the survcy madc by him of the vessel and regarding the declaration givén by him to the Owner under 7 of the Act

10. Notice regarding Certificate of Survey.—A notice undér clause (b) of •sob-section (l) of section 9 of the Aci shall be in

Form No. 7 and shall cqntain the details specified therein. . Application för certificate of survey.—An application 'for a certificate of survey shall be made to such offcec aåthorized under subsection (2) .Of section 9 of the Act in Form No. 8 and shall contain thc details specified therein. 12. • Certificates of Survey.—The ccflificate of survey in respect of class A vessels shall be' in Form NO. 9 and in respect of class B vessels shall be in Form .No. IO and shall contain the -particulars. specified therein

13. Change of Where a change of name of a -vessel in respect of which a certificate of survey had been granted under the Act is required, the owner or master of the vessel shall forward the cerdficate of survey to the authority who issued the certificate .along with an application for change of the name of the vessel entered in the certificate of survey. (2) Such application shall be in Form No. and shall cöntain the particulars required therein. (3) Such officer shall, after due enquiry by bimsclf Of th?ough any other officer satisfy that the new name is not ållöåed to any' other véssel and cause-such change as is necessary to be effected in the certificate-of survey. which shall' thcreupon •be retumed to the owner, 7 PART 11 REGISTRATION OF VESSELS 14. All Vessels to. be registered.—Every vessel coming under category A and category B, except those tioned in section 19S of the Act' shall be registered with the registering authority appointed by the Governmept u er sectidn 19 B of the Act. 15: Application for registration.—(l) Every application for registration sh@ll be in

Form No. 12 and shall tain the particulars required therein. (2) Each application 'for registration shall be acpompanied by:— (a) a statement by the owner' that the •provisions Qf:the Act aid these rules have 'been complied With; (b) a duplicate öf the certificate of survey; (c) chalan receipt evidencing payment of such fees as specified in the Schedüle 11 for the •reiistration of the vessel; (d) copy of .the •3d party insurance certificate' of the Vessel

16. Proceduréfor On receipt of the application for registration, tbe registering authority s If give a notice in Fonn No.13, to the åpplicant informing him of the the and date. of the •enquiry in respect of the -5 (2) For the purpose of enquiry under these rules, it -shali be competent for such authority; (a) to inspect the vessel or any part thereof or any machinery therein .or any arGcle therein relevant to the purpose of such enquiry; (b) to call for any record' from the owner or master of the vessel and cxamine it in so far as such records are relevant for the purpose Qf such enquiry; and (c) to have such assistance as he deems fit for the purpose of such inspection. (3) The owner; thc master and ev.cry member of thc crew. of the vessel shall afford to such authprity all re4sonable facilities for the enqåiry and furnish such ihformation as the authority requires for the purp'ose of such inquiry

Form No. 14 and shall contain the palticulars specified .therein. 18. 'Manner .of display of di'tinguishing niark.—(l) The diétinguishing mark (hereinafter called the retistration mark) assigned-td a-Vessel under •section 19H of the Act, such as registration number, port of registry and n$e of Vessel shall be displayed conspicuously on Star board or such other places and both sides of the vessel. 4 (2) • Every vessel except such small crafts whiöh may be specified by the Government by notification shall bear' following identification marks on its huil:— (a) Name of vessel, (Name shall be inscribed on each bow and stemz of thZ vessel); (b) Registration Ro; '(c) Place of •registry ahd •year of registration. (3) The identification mark shall be inscribed with letters not less than 20 cm. in height and 2 cm. wide and s 11 be päirited in light colöur on a dark background or in dark colour on a light background.' (4) In addition to the identifiéatiön marks, every vessel shall be painted and' displayed on a fixed board, •exhibned or*the upper deck, the following information: (a) gross registered tonnage , (b)' maximum pehnissible number df påssengers , (c) name of the owner ; (d) date of'last survey. (5) Every vessel shall• have the load line marked at least for. meter amid ship on both sides and draught Sd-le marked in meters and decimeters at both ends of the vessel. (6) Every ynall craft shali have its registration number inscribed on both sides of the .vesscl. 8 (7) Every craft shall have its Fegistration number or thc name of the owner, or both, exhibited on a wide board at a conspicuous part of the. craft. 19. . Book of The of registration referred to in section 19 C of the Act, shall be in Forn No. 15 and it shall contain the particulars required therein. (2) The book of registration shall be kept in bound volumes with machine numbered pages

20. Safety Inspection, suspension/cancellation.—(l) ne registering authority may, at any time, require that an Inland Vessel under his jurisdiction may be inspected by an offcer appointed by Government in this behalf under section 19 (0) of the Act. (2) registering authority af any time, if •satisfied that the vessel is in such a condition not fit to ply in-the Inland water, suspend *the registration of tbe vessel and require the owner thereof to surrender forthwith the certificates of survey and registration in respect of *that vessel. (3) A registering authority may also suspend/cancel a certificate of registration if the vessel •has been destroyed or rendered permanently unfit for service. Provided that no certificat.e of registration shall be cancelled without affording an opportunity for being heard to the owner of. the vessel

Form No. 16 and shall contain -the particulars requiréd therein. (2) The appeal shall be accompanied by the following, namely:— (a) twp of the order appealed agairist (of which at least one shall •be an original or an attested. copy); (b) chalan receipt evidencing payment of the fee 'for the appeal specified in the SchcdGle 11; (c) such other records as are necessary for the disposal of the appeal. (3) (a) The notice of appeal referred to, in sup-section .(2) of section 19 P of the Act shåll be in Form No. 17 and shall contain the particulars specified therein; (b) The notice shall be communicated to the registering authority through post, through. a -messeng% or: •by any other method which has the effect of communicating the notice

22. Report of No alteration to a' vessel, shall be made yithout obtaining sancti0Q from the Registering Authority.(2) The report of alteration referred to in (l) of section 19 J of the •Aét shall be made by the owner of the vessel within thirty days of the alteratiori in

Form No. 18

23. Duplicate of the The authority whith issued the tertificatc of registration shall issue a duplicate of the •certificate of registration to replace a certificate lost, destroyed or mutilated: Provided that no such duplicate certificate Shail be issued unless,—(a) in the case of a certificate lost, it is proved to the satisfaction of the Registering Authority that .all• mcasures possible for tracing out the certificate have been exhausted; (b) in the case of a certificate destroyed, such authority is satisfied after due enquiry that the cekifieate has• actually been destroyed; and (c) in case of mutilated certificate, the owner delivers up such certificate to such authority. (2) Every duplicate of the certificate shall on the fade of it bé stamped with the word 'duplicate' in red ink. (3) In the case of a certificate lost if, subsequent to the issue of a duplicate certificate, the original certificate is found, the later shall be delivered up to such authority who sball take such action in respect of the original• certificate as he deems fit

24. Transfer - If a vessel is transferred to any person, whether resident within the State or not, the trinsferor and the transferee shall make joint •report of the transfer to the registering authority concemed within thirty days of such transfer along with chalan receipt evidencing payment •of fees specified in Schedule 11, for such transfer: Provided that no transfer shall be made to any person resident in another State Qr in any counüy outside India without the previous approval of the• Goverhment.'9 • (2) The certificate of registration in respect of the Vessel shall also be surrendered along with such report 'ed to in sub-sectiön (l) in ordcr that the particulars of the transfer of the ownership may be entered thereon. 25. •Mörtgåge of Instrument creating a .mortgagc of a vessef or a share therein Shall be in IFO' No. 19. (2) Instrument Geating a trapsfcr of a mcftgage OF' a share' therein shall bé in Fdrm No. 20. (3) Insthllneht creating the discharge of mörfgage shall bc in

Form No. 21. (4) On production of thc• instrument of mortgage or the instrument of discharge of such mortgage the •regi cring authority shall record it on the book of registration sto the effect that •the Inland Vessel is mortgaged or, as the- se may. be, thc Inland Vcsscl is discharged from the said mortgage. It Ghall be qompctcnt for the registering" authority to call for. and examine any such' instrument and any (5) Having custody, possession or control of the .instrument shall bc bound to make.a+ailable such instrument to such 'aut rity. PART FEES 26. Fée.s payable.—Thc fecs payable under the Act shall be as specified in the Schedule and Schedule IL of. . •.,theS rules. 27.- Rersun•ey of the Vessels.--•W.herc a resurvey is neccssitaied on account of any .défault, act or omission on the art of owner or master or any member of the crew the owner shall be liable to pay such fee as may be payable for 28. Method of paymept.-—Any fee. payable under the Act or. under these rules shall be paid by remittance into Sa -G yernmént,Treaéury to the credit of the Government under such head df äcc.ount as the Govei•nment may specify . fro •time 'to time

29. Refihid.—No, fce paid under the Act or these Rules shall be refundable

PART IV PUALn71CA110N, POWERS, m.tCTlONS AND DUTIES OF SURVEYOR AND REGISTERING AUTHORITY '30. Qualification fop: appointment .0$ Chief Surveyor of vessels ahd his duties:—(l) No person shall be app. nted as surveyor ufiless he possesses-a basic degree in Marinc Engineering or Ministry of Transport first class •cert Tate of Director General of Shipping or a basic degree in Naval Aréhitecture witli•fifteen •years experience in sea : , goi _ regülar vesselS/Classification Societies/Ship Building-yards/reputcd Ilitcmation•al Shipping Corporations or State Port eparfinent. (2) A Chie(Surveyor shall di"harge the following dutieQ riamew:— (a) (b) (d) (c) (f) (g) (h) receive applicatiohs for• survey of •vessels, and confirm that they are in Oilier; fix the date and •place of and cohduct the survey as per rules;. vcrifr and ensure tbat tfie vcsscls arc constrfcted as per the approved drawings, General Arrangement •plans etc.: determine whether the hull of thc vessel is in proper conditidn and fitafor service; t9St the stability •of the vessc! so as to ensure against capsizing upder any conditions; ascertain that the machincry and machinery Iqyout: propeller, shafting, geaFs and steering, pipe lincs such as bilge and ballast, oil transfer etc., wh'eel 'höuse, crcw accommodation,Npassages, galleys, storcs, _ s&üice place etc., ventilation. change of air foi engine room ctc., life såving,• fire fighting, Light and sound Navigation and communication cquiPments -ctc., are in order and that gencrany the vessel is fully •equipped for iho safety And convenience of passengers; :issuc declaration of sprvcy to the vessels surveyed by •him to the owner of master of the Vessel; . give copies of documents on payment of fees specified in these mlcs and maintain accounts of all dues connected with survey and miscellaneous receipts. '3i7ü3Q01G/DTP. IO 31. QuaRfication for appointment as Surveyor of vessels and his duties.—(l) A surveyor of vessels shall possess• a basic degree in Marine Engineering or Mioistry of Transport first Class certificate of Director General t.)f Shipping or a basic degree in Naval Architecture with •seven• years experience cithcr/or in sea going regular vessels: Classification Societies/Ship Building yardsteiuted International ShippinÅ Corporations or State Port Department. (2) The surveyor shall be subordinate to-the Chief suFveyor add shall discharge the following fianctions and duties, namely:— (a) attend to the. survey of vcssel as per di!cctions from •the Chief surveyor; (b) . maintain rcgisters of vessels; '(c) condåct •surprise inspection as per statutory provisions on¯boård vessels and verify the records to he maintained on board, validity 'of crew eeriißcpte, sun"ey certificatc, Life' Saving Appliances, Fire Fighting Appliances, navigation and commfinication equipment etc. Incase of default he shall detain the vessel and make necessary recommendations for suspension/eancellation of the certificate ef registration/survcy to thc competent authority. Such detention order shall be in Fonn No. 22

32. Qualification for appointment as Registetinß Authority und his Powers, functions and duties. Registering Authority shall -possess a basic degree in Marine Engincering or Ministry of Tränspprt first class certificat:e of Director General •of Shipping or basic degree in Naval Archiiccture•with fifteen years. in experience either/nr in sea going regular vessels/CIassification Socicties/Ship Büilding yards/rcputcd fnternational Shipping Corporations/State Port Department or a certificate of competency as Master Mariner with fifteen years of experience. ••(2j The Registering Authority shall,— (a) ensur9 that all documents as specified in Rule 15 are -received alid are in order; (b) conduct enquiry after, giving a notice to the applicant informing thc date and time of enquiry; (c) For the purpose'of such enqüiry the authority shall be competent Ito— . (i) inspect the vegsel or any part thereof or any machinery th&con or any Miclc therein relevant to the purpose of such. enquiry; (ii) -caki for any record from the.owner •or

master of the vessel and examine it in so far ås such records are relevant for the purpose of such enquiry; (iii) have such sassistanc<hhas he Necms fit for the pirpose of such inspection. (d) •issue certificate of registration and maintain all records related to registration of vessels; (e) inspect any vessel undcr his jurisdiction, or get it inspepted by an officer appointed on his behalf at ahy time and to suspend the registration, of the vessel if satisfied that she is not fit to ply in Inland Waters," (f) cancel certificate of registration aftcr necessary formalities, if found necessary; (g) issue duplicatc copy of certificates issued by the authority

CHAPTER Ili INLAND VESSELS CREW, GRANT OF CERTIFICATE OF COMPETENCY AND CERTIFICATE OF SERVICE 33. Minimum crew(manhing.—(l) Every vessel having passenger capacity of morc than 2S numbcrs shall be in charge Of a Master and also shall havc a minimum •of;two Lascars possessing competency certificate issued as per these rules. (2) Évery mechanically propelled vessel shall have on board the following crew when. proceed on any voyage. namely:— (i) Fpr vessels having inboard engines with 565BHP or more.— (b) (c) Onc Master possessing a first class master's Certificate granted under the Act or master 'certificat2 issued under Merchantr Shipping Act, 1958; Onc Engineer possessing Engineer's Certificate granted under the Act; Two Lascars possesSing competency certificate issued as per these rules. (ii) (iii) (iv) For vessels having inboard engines with 226BHP or more 'but less than 565BHP,— (a) One Master posspsSing a second Glass master's Certificate granted under thc Act; (b) One Engineer possessing first .class Eggine Drivers certifigate' issued under the Act or Engine Drivers certificate. issued under. Merchao-t Shipping Act, 1958: (c) Two Lascars possessing competency certificate' issucd as per these rules. For vessels haVing inboard pngines •wilh 113BHP or more but less than 226BHP,— (a) (jnc Master possessing a serang ccrtificate• granted under the Act; (b) Onc Engineer possessing second class Efginc Drivers certificatc issued under the Act; (c) One Lascar possessing competency certificat; issued as•pcr these rules. For vcsscls having inbogrd engihes with tess than 113BHF,— (a) (c) Ohe•Master possessing a serang certificate granted under thc Act; • OR One Master. possessing competency certificate as Boat Serang issued undcr the Act. One Engineer poséessing second ck8SS Engine Drivers Certificate issued under thc Aét•, OR Onc Engine. Dhvcr possessing competency certificate as Boat I)river issued under the Act. One Lascar possessing competency certificate issued as per these rules. (3) For .vessels having inboard engine' lcss than 75 BHP, one serang-cum-driver possessing ioth driver and serang certifica.te and one lascar. (4) For owner driven of less than 75BHP, the owner may drive if he possesses a combined driver-cum- scrang certificate. (5) Any Vessels or class' of vessels satisfying thc requirements of thc Traéancore Public Canals and Public Ferries 'Act of 1096, the Cochin Public Canals and Backwaters Navigqtion Act of '1092, the keel of. which is laid, under constructidn or constructed before the coming into forcc of these rules may bé cxemptcd from compliance therewith of the prévisions of this chapter for a period not exceeding onc year from the date of commencement of • thcsc rules for thc purpose of Compliance öf the provisions of Ihis chapter

34. Qualificalions and age.of apl'licant for First Class Master Certificate of Competéncy.—(l) The minimum qualifications to be required of pcrson &sirous of obtaining-a first class Master's certificate of competency shall be as föflows:— (i) A pass•in Xth. Standard Exam and shall be able to read and write English and Malayalam; and .(ii)• he shall be not be less than twenty four years of age; and (iii). he shall.— . (G) (c) (e) have served as second class Master in charge of an inland vessel of not less than 260' BHP for not less than three years: or whilc posscssing a second class Master's certificate havc scrvcd as sccond serang of an inland vessel* for pot less than four years; hold a certificate of second mate, foreign-going or mate home trade granted under thc Merchant Shippirig Act, 1958 and havc served as a mate inland, vessel for hot .1css thane onc year; or have served not less than three years at sea and three years as mate of an inland vesscl; or' have served not less than six years as a matc•of an. inland vessel. (2) T h? applicant shall 'atisfy thc Examining Board of his ability to distinguish colours, unless already holds i.-a Bdard of Trade sea-gomg certificate as Mate qr Mastei (3) Thc .applicant shall produce a mcdical, certificate as' to his phyäcal fitness •in

Form No. 33. (4) namely:— 12 The applicant shall paks written examination and •viva voce examinatipn in. the following subjeqs (a) géneral principlcs of navii4tion, in particular for river and backwatei»avigafion; • (b) management of vessgl$ under all contihgeneies of mecting, passing-and vessels and. the Rule of the road; • (f) questions regarding the exercise of seamanship in casc of difficulty. and. danger eg. Y'hcn a yesScl has' • grounded when anphors and chains arc carried •out, when a-vessel has to be got afloat, when the' hull ié datmaged or leaking or what steps •to lake in case of fire or other accident to the vcssci; (d). provisions of thc Inland Vessels Act 1917', Travancore Public Canals and Public . Ferries Act, 1096, Cochin Public Canals and Backwäters Navigation Act, 1092, .aad the rules made thereunder and • National Waterways and Cochin Port Rul.es; (e) &ide tables, stomi signals; qrfd 6) compass. 35. age OJI applicqnr for Second Class Master's Certificaté.s-(l) The minimum qualifications to be requireq of a person desirous of obtaining a second class Master's certificate of competency shall be as •féllows:— (i) a pass in Xtll Standard ex.amination and able.to read and write both English and Malayalåm; • (ii) hc shall be not be leks *han 22 years of agc: (lii) shali have served at least five years at sea or •on inland waters, the last three years of•Which must been as 'erang in an .intand vessel with a serang certificate •granted' under the Act. shall have served at least six yeårs as G lascar/dcck hand in an inland vessel of not less than 226BHP. (2) The 'applicant shall satisfy' the Eemining Board of his ability to distinguish cdlours, unless already holds a' Board of Tradg seazgoing ccHificate as Mate of Master: (3) 'l Ile .applicant shäll produce a medical ccrtificate as to his physical fitness Forfii Nd. 33. (4) . The applicant shall pass a written examination and Viv-a yocc examination in the following subjects namely,— • (a) general pyinciplös of navigation, in particular for river and hackwatcr navigation; (b) management of vessels under all contingencies passing and overtakipg •yesseis arid the. Rule of road; (c) questions regarding the •exercise of seamanship in casc of difficulty and danger cg : when a vessel has A greutided when anchors and chains .prc carried out. when a vessel bas to bc got •afloat', Whcnj.he hull is damaged or leaking .or:what steps to takc: in case of fire or other accident to the vessel; (d) provisions of* the Inland Vessels Act 1917, Travancor% Public Canals and Public Ferries Act, Cochin Public Canals and* Backwater> Navigation Act, 1092, and the rules made thércundcr, National waterway regulations and Cochin Port Rules; (e) lid" •tables: storm signals; and (f) compass. 36, Qualifications and age bf applicant Jbr Serangs Certificate of competency. The minimdm. qualification to be required of ae person desirpus of obtaining a Sérang's ccrtificatc of •competcncy shåll bc as follows:— (i) a pass in* Xt.h. Standard Examination and shall bc able to read' and write both English and Malayalam (Iq2is iS not applicable to those hQIding a certificate of service as 1309t Mas!cr and Boat serang issued in lieu of the certificate of cotnpvtcncy as Master and Serang under thearavancore public Canals and ' Piblic• Ferrics Act. 1096 and the Cochin Püblic Canals and BaQwaterS Navigation Act, 1092 granted to those persons.) (ii) he shall be not less than twentyone years oc age. ' (iii) (iv) shall have served at Icast two yeæ•s at sea or inla•nd waters, on vessels of engine with not less than 1 13 BHP the last year ofrwhich must have been on an inland • vessel as eithcr•a helmsman or deck hand/lascar. shall be able to swim and dive ir. canals and back waters. (2) (3) (4) 1 he applicant shall produce a medical certificate as to •his physical fitness in Fom No. 33. applicant' shall, produce testimonials of sobriety and intelligence. The applicant shall pass a viVa voce examination. in the fol!owing subjects namcly:— (b) (c) (d) (e) thc general principles of navigation, in particular for rivcr and backwater navigation; the management of vessels under all contingencies of mceting. passing and overtaking vessels and the Rules of •the road', questions regarding -the excrcise'of seamamship in cisc of difficulty and danger eg : when a vessel has grounded when anchors and chains arc carried out, when a vessel has _to be got afloat, when the hull is damaged or leaking or what steps to be taken in case of fire or other accident to the vessel; the provisions of the Inland Vessels Act 1917,. Travancore Public Canals and Public Ferries Act, Cochin Public Canals and Backwaters Navigatioh Act. and Rhe rules made thereunder, National Waterway Regulations ?nd. Cochin Port Rules; tide tables, storm signals; and compass.' The existing competency certificate issued under the Travancore Public Canals and Public Act. • 1096 E, The Cochin Public Canals and Backwaters Navigation Act, 1092ME, The Madras Act 11 of i890 as master/. Serap shall be renewed as boat master/boat serang ceilificatc issued under these rules within a period of six months • from 'e date of commencement of these' rules. (6) Notwithstand anything contained in •the above sub rules, the' persons hoiding probationary licence for '"Ädast. . or Serang issued under the Canals and Ferries Acts, priof to t.he commencement of these rules may appear for "the e amination for the Boat serang certificate of competency within a period of two years from thc

date of Com.lcement of these rules if they have two years service in. an -inland vessel and Qn passing of. the examination f..they be.issued a certificate of competcncy Boat serang. l' (1) (3) (7) (8) Qualifications for a lascar.—The Qualification for a' lascar shall bé:— a pass in V.lll'h Standard Eiamination and shall be able to.rcad and write English and Malayalam Provided, that this clause shall no! apply to the renewal of the existing competency certificate. He •shau be not• less than eighteen years of age. He shall produce sufficicfit evidence of sobriety and intelligence, . He shall hive served one year ras pole manfhelpcr in any toÜntry craft or other Vessels. He shall exhibit his ability to swim and dive in canals and backwaters. shall producc a medical certificate as to his physical. fitness in Form No; 33. He shall pass viva voce examination iri the following liamely:— • (a) ._colour tést; (b) the use of navigation lights and. how to act when thcy are seen in different directions: (c) the rules• regprding sound signals to give indications to other. vessels as to the position of thc helm; ctc.; (d) use of life saving add. fire fighting appliances; (e) the management of small inland vessels in all conditions. <l'hc existing comie!ency certificatc issued under the Travancore Pubiie Canals and Public Ferries Act E, the Cochin Public Canals and Backwaters Navigation Act, 1092 M*E, the Madras Canals and Public Ferries V.Act 90 (Act 11 of 1890) as Lascar shall be liable to be rcriewed as Lascar certificate issued under these rules, with *riod of six months from the date of commencement of these ruics. • å/DTP. 38. • Qüalifiéations and age for obtaining Engineer's certificate of The qualificatiop.• required of a person•desirous of obtaining an Engineer's Certificate of pompetcncy shall be as follows:— • • (i) a pass in ITI certificate for. diesel mechanic/motor mechanic; • (ii) muse have served as an apprenticc Engineer for..two years; (iii) must have-served four years with a first class engine drivers certificate granted under the 'Aci chårge of the engines of a vesSek having not IP$S than 226 BHP or two years in vessels of not than 565 BHP; (iv) Shalal be able to 'explain the actual working of engines and the seöara(e uses •of the feéd. pumps, -pistons • - and other appliances; (v) shall able to show how hc would act in• case of the break-down •of any portion of the. machinery, etc. (vi) shall be not less than twenty twp of age. (2) The applicant shall produce a medical certificatc .as to his. physical fitness in Form No. 33. (3) Thc applicant shall iass a written and viva voce examination to, satisfy that,— he fully understands the' working and managemen! of motor engines- and, separate .use of magnetos carburetots, water circulating and oil pumps,- sparking •plugs, etc. (b) • he is ablc to dismantle motor engines and 4hy accessory part of them detecting excessiü.e .weasr• . other defects and re-assemble their parts in correct order; (d) -(e) (f) he is able•to detect what is 'Mong iri the event of the engine failing. tQ sta.rt up or any accessory p•a€z to perform its.proper function; he is able to show how he would act in case of breakdown bf any portiön of the machinety; he• iS able to show that, he fully .rcalises. the danger of fire and understands .the precautions necessa•ry• -Z to preyent it and what-to do when a fire åctually breaks. out; he is having thorough knowledge of auxiliary machineries, instruments,' hull protection, .etc. The, quå!ification required of•a.person desirou5 35. Qualification for Fii•st Class Engine D' er. obtaining a Firsp Class Engine Driver's Certificate of compctency shall be as follows:— (i) he must have passed [TI c*amination for dievl mpchanichnotor mechanic; (ii) he must possess a second class' engine drivers certificate granted under the Act' and have served, noi•. less than oric year as engine driver on regular watch -on the main' engines of a- veSsel not less 565 BHP -or must have served for -a period noN -lcss than 2 years as 2nd driver 'With a' second engine driver. certificate issued under the Act, in chargp of any vessel (jf%ot less than 226 BHP; • (lii) he must have served for a period of not lesx than 18 months with a second Class engine certificate granted under •the. Inland Vessels Act, as driver in charge of the engine of a-n inland of not 'less than -113' BHP; (iv) he shall be able to explain the actual working of engifies and thZ separate gses of the feed• pumps, pistons and Other appliances; (v) he shall bc able to show .how he Would act in case of die break:down of any portion of the ctc.; (vi) he shall be not less thin twenty two (2) The applicant shall produce a medic•al •certificate as to his physical fitness in Form No. 33. • (3) . The applicant shall pass a written -exaniination and viva voce to satisfy that. - (a) he fully undgrstälds the working and management of motor engines and separatß ust •of carburctors, water circulating and oil pumps, Sparking- plugs, etc., and that he is able; td some extent; to explain théir actual means of operation; '(b) he is' able to -dismantle rpotor engines and any accessory part Of them détecting excessiVe wear • other defects and reassemble their parts in correct order; h. (c) (d) (e) (f) 15 he is able to detect what is wrong in the event of the engine failing to Start up or any aceessory part to perform- its proper function; •he is able to show how he Would act in case of breakdown of any portion •of thc machinery; hc is able to show that he fully realizes the danger of fire and understands thc precaution necessary to prevent it and

what to do When a fire actually breaks out; he has thorough knowledge of auxiliery• machineries, instruments, hull protection, refrigeration etc

40. Quhlification for Second Class Engine Driver.—(i) The qualifiö4tion required of acpcrson desirous of a second class Engine Driver's Certificate of qompetency shall bc as follows :— (2) (3) (i) . be must have passed ITI course for diesel mechanic/motor•mechanic;. (ii) he must have sbrvcd for onc•year as a scrang/lascar/greasgr of •ah Inland Vessel of not less than 113 BHP; OR he must h4ve served for not less than two years as an apprentice in the making, fitting or repairing of IC engines and in addition; he must Kave* served. for six months in the engine room of an Inland Vesselrof nöt rcks than 226 BHP o? twe_lve months in a vessel with engines Of not- less than 113 BHP; (iii) • he shall be. not less than twenty. two years of age. *Ihe applicant shall prpduce• a' medical certificate as•to his physical fitness 'in Form No

33. The applicant Shail pass a written cxamination and viva voce to satisfy that:—(a) (e) (f) .hc fully understands the working and management of motor-engines and separate use of magnetos; carburetors, water-circulating and oil pumps, sparking plugs, etc., and that hc •is able to some extent, to explain .their tactual means of operation; he is able {o dismåntle motof engines and any accessory part df them detecting excessive year or other defects and . reassemble the parts in proper order; he is able to detect what is wrong in the event .of the engine failing to start up or any accessory part to perform its proper function; he is able to show how he would •act in case of breakdown of any portion OT the machinery, he is able to show that he fully realises the danger of fire and underdtands the #recautions necessaö' to prevent it and what to do when a fire _actually breaks out; he has thorough knowledge Of •auxiliary machineries, •instruments, hull protection, etc. (4) f he cxisting compctcncy certificatc l'ssucd under thc Travancore Public Canals aid Public Ferries Acg, 1096 ME, The Cochin Public Canals and Backwaters Navigation Act, 1092 ME, The Madras Act 11 of 1890 as Driver sh' I be renewed as Doat Driver certificate under the Act within a period of six months from the commencement of th e rules•.- (5) Not •withstanding tgntainéd in sub-rul.és (l) tö (4), persons holding probationpry. licence as Driver is*d under the 'Canals and FerHes.Acts prior to commencement.' of these rules may appear for the examination for the Boåt dtivcr certificate of competency within a pcriod of two years from the commencement of these rules provided they haie two years servicc in an inland vessel as a hclpcr. . F 41. • Certificate of Competency as A candidate not •below thc ege of twenty •two and deårous of obtaining a certificate of competency as serang-cum-driver in order to -bC eligible to man mechanically pr el]ed vessél with ehgine of less •than' 75 BHP Shal! submit the application in: Form No. •23 with documents .ev#ncing the' remittance of the required fee as per Schedule-Ill. • (2) The compctcnt authority inay fisue a combined Certificate of Competency as Serang-cum-Driver in Form NOP4 to persons who will be eligible to operate their own vesselS of less than 75 BHP, subject to passing of a test c04sisting of subject. arcas given, in rule 44(3) and practical • test of boat handling

42. Appointment of examihers for issuing coipetency certificates.as Masters, Serangs, Engineers. Engine • dræers and Lascars.—The Statc Govcrnment shall appoint. duly qualified examiners for. the iurpose of examining the qu$ifications of persons, desirous of obtaining certificate of competency•to the effect.that they are competent to act •as frästers or serangs or as engine-drivers. as• the casc.may bc, oh board inland vessels.. .43. 44. 16 Grant of "Mast&s 'Seratgs' Engineers, Engine Dr.ivers ' and Lascars certificgte of competency.— (l) Every application for grant of certificpte of compctcricy is to be made in

Form No. 25. (2) Every Certificate of competency granted. under these rules shall be issüed in Form No: 26. Grant of certificate of service as Serang/Second class engine driver.—(l) The State Government grant to any person Who yas served. as a Master, Serang, Engine Driver, or as a Lascar ofa vessel for a peripd of not - less than 2 years before the date of coming into force of these rules and holding certificate of competency as .Master,. Serang, Driver or Lascar issucd• undc* the Travancore Public Canals and Public Ferries Act; 1096 .or Cochin Pilblié .Canals and Back'.vatei•s Navigation Agt of 1092, a certificatt• (hcrcigafter called certificate of service). td the effeét that he is by reason of his having so served, and having qualified in the viva voee is competent to act as a Serang or, . Second Chss Engine driver, as the case may be on boprd an Inland undcr: these Rules. (2) A'II applicatiOns for grant of Certificate of Service are to be •made in Form No.. 27. (3) The exariiner will conduct a voce before recommending issue of the certificat.e •of service by the conlpetent authbrity in the following subjects: (a) Imowledge of Inland Act, 1917 and Rules made thereunder;' (b) navigation safety and Rule of thc roäd in inland waters; provisions ahd operations of Life Saving Appliances/Fire Fightirig Appliances; (d) stability of vessel, general principles 6f navigation; (e) propulsion Machinetymrcventive maintenance. (4) A certificate of service so grafted shall have the same effect as a certificate of,competency grarited under these Rules. Certificate of Service shall be issued in Fonn No. 28. 45. . Certificate of service fop Ex Army/Navy/Coast guard The competent authårity may. grant,. to any *rson who has served _in the Army/Navy/Coast Guard in the capacity of a. Master/ SerangÆngineer or as an Engine Driver ofä vessel för a period of not less than three years and holding an experientc certificate- fro}n the concerned -department, a Certificate Of service as Master/Sérang/Engineer or as EngincÄ*ivcr, as the case may be; without an examination. (2) An application for issuc of tke certificate is to be made in Form No. 29. (3) The candidates shall be medically fit and under 65 years of age. (4) A certificate of service.so granted shall' have the same effect as of competency granted ündtf these Rules. A certificate of Service so issued shall be issued in Form No. 30. 46.' Grant of certificate, of •eonøpeténcy without 'In' accordance with the provisions of Section 28 of the Act, thg competent authority may issue ocrtificate of competen•cy •as Master/Serang/Engineer/Engine Driver .under the Act to any person without examination whether that pcrson possesses:— (a) Masters Certificate issued under thg Merchant Shipping Act, 1958. (b) Engineers or Engine Driver's certifieate granted undpr the Merchant Shipping Act, 11958. (2) An application for issue of the certificatc is to • be made in Form No. 31. (3) .1hc candidates shall be medically' fit and under 65 years of age. (4) 'A Certificatc of competency so issued shall be Ein Form. No. 32 and the oertificate. granted under sub-section (l) shall have the same effect as a certificaté of cbmpetency granted under thesc Rules after examination

47. Power of the-.competent aul/yority to suspend or cancel certificates in certain Any certificate granted •under t.h&se Rules, may be suspend&d or cancelled 'by the competent authority; (a) •if the wreck or abandohmcnt of, or loss or damage to, any vessel or loss of life has been caused by thc wrongful act or default of the holder of certificate,- br if the hpldcr of such certificate is incompetent or has becn •guilty of. any gross act of drunkenness, tyranny or •other misconduct; or (b) if the 'holder of such certificate is proved to have been 'convicted of any non-bailable offence; or (c) if in the case of person holding a certificatc of competency or serviec, such person is, or has become, in the opinion of the prescribed authority, unfit to act as master, scrang, engine driver or as a•lascar as the case may be. 17 (2) The competent a'uthority may at any (ime revoke an order of suspension or cancellation made-under . sub-section (l), or gran•t a new certificate without an examination to any person whose certificate was so cancelled. 48.. Obligation to deliver susiende.d or cancelled certificate.—Evcry ccrtifiqate of survey which has expired or which has bepn suspended or cancelled and every certificate of competency •or service which 'has been suspended zor cancelled under the Fule shall be delivered up by the owner, Master, Ser.ang, Engine-driver or. a Lascar, as the casc may be, to thc cömpctcnt adthörity or to hy offiéer empowcred by him in this behalf

49. Tinae and place of Examination.—Examination for Master's, Serang's, Engineer's, Enginc• Drivcr's ind Lascar's certificates of competency shall ordinarily, provided there is any candidate for examination, be 'hcld once •in •six months at Alappuzha. Kollam; Kochi, Kozhikode, and Kannur. 1 he date and place of examination ghå]l be duly notified to the candidates applying for thc examination and Shal] bc •published in thc Government Gazettc by the competent officer to Whom, application shall be made

50. Fee for examination.—Thc fée for éxdmination of a Master's, Serang's, Engineer's, Engine Driver's or Lascar's certificates shall 'bc as in Schedule—III and shall be paid by the candidate .in advance while submitting his applicatibn for examination together with tcstimonials as to the qualifications as required in the foregoing rules

51. Repayment of examihation feé.—lf the' candidate's service is insufficicnt or "if his tcstimonials do not in other respects fulfill the requirements of the rules, no part of the fee shall be returned but if he should within ,two. years of his. first •application comply with the requirements of the rules, he shall be examined without payment of an •additional fee

52. Period of Validity of The validity of the competency certificate issued for thc first timc to the candidates who pass the Mister's, Serang's, Engineer's, Engine Drivers or Lapar's examination shall be for a period of five years from thc dafe of issue of such certificates after which it shall be revalidated by •the competent dfTrcer. Such renewal will be effected only on production of MedieafFitness Certificate in Form No

33. Certificate of service shall be issued for a period of five years.(2) Master's, Engineers, Engine Driver's, Serang's avd Lnscar's Certificatqs competency and certificate of service shall be renewed for fivc years at a time on expiry of the period of their Validity. (3) Aiplications for renewal shåll be made to thc c6mpctcnt officer, with thc original certificate and chalan receipt for the remittance of the fee prescribed in-Schedule Ill to the rulcs at Icast fifteen days before the expiry of •the period of validity of the certificatc: (4) Any cærtificate not so renewed shall be invalid. A lapsed certificate may be renewed only on payment of the enhanced fee' specified in Schedule Ill to-the rules and on production of satiéfåctory evidcnce that the holdeF of the certificate was on sufficient cause preyented from applying for the renewal in priper time. (5) No certificate produced for renewäl aft?r a period of three yehrs from the date of expiry of its validity shall, however be renewed. An application for renewal received åftef this time limit shall, unle•ss there pe anything repugnant to the rules in force be treated as an applicatipn for a new certificate •and the candidate shall be asked to undergo all the forinalities required fora tha grant of a new competency certificate

53. Temporary Certificate.—lf the original of aecertificate be lost or spoilcd a copy lhereof shall be issued by the compctcnt officer on receipt of an application, with thc fee fixed .in Schedule I, and one copy of the äpplicarit?s photo. If therc is any delay in issuing thc copy of thc certificate, thc compctent officers shall issue a .!emporary certificate valid for onc monih only to enablc the applicant to continuc in cmployment during thc period between the loss of certificate and the isye of the copy of the ccrtificate: 54. Duties of the Competent Authority.—lt shall be the duties of the competent authority— (l) to approve and promulgate the syliabus and cputse duration for all categories of Inland Water Transpon crew. (2) to arrange for organizcd onboard and campus training for the Inland Water Transport crew and to approve . appropriate institutions for conducting such training as pcr Govcmmcnt.notified guidelines. • (3) io select and nominate qualified professionals for conduct of examinations for various examination centers in the State. (4) to issue certificate of competency,' certificate of service and licences as per thé provisions of thc Act. (5) to arrange for traffic control, search and rescue and pollution coritrol. 3311763/201 OIDTP. 18, 55. Qualification & Duties of the Chief Examiner Inland Water 'The Chief Examiner shalt have minimum. a basic degree in Marine Erigineering or Ministry of Transport first class certificate of Director General of Shipping with fifteen years of experience either in sea going regular vessels or certificate of competency with Mastet sea going with• fiftecn years of experience. (2) It shåll be the duties of the Chief Examiner. (i) (iii) (iv) (v) (vi) to prepare thc syllabus for examination for all categories of Inland Water Transpon crew for approval by the competent officer;' tp- notify the places and date of examination and proper conduct of examination; to process applicatidn for issue of certificates and . issue ef ccrtificate with the approval of thc competent officer; to issue Duplicate certificate and copy of the certificates as provided in the' Act; to maintain thc books and records as required by the Act: to assess and notify thc addi!ional requirement of crew for safcty of passengers and cargo

CHAPTER IV LIGHTS, SOUND SIGNALS AND PREVENTION OF COLLISION PART I SIEERmG AND SAILING 56. Every vessel shall maiitain a proper look-out by sight and hearing to make a full appraisal of the situation and of the risk of collision. (2) Every vessel shall make use of searchlights to locate luminous marks used for channel marking. 57.. Safe' Speed.—(l) Every vessel shall at all times

pröcecd at a safe speed so that she can take ppper and effective action to avoid collision and grounding, and be stopped within a •distance appropriatc to thc prevailing circumstances and conditions. (2) In determining a safc speed as provided in sub-éection 6 (l) the following factors shall be taken into account namely:—• (a) the statc- of visibility; thc traffic density including concentrations of fishing vessel or other vessels; (b) the maneuverability of the vessel with special refcrcnce to stopping distance and turning ability in the •prevailing conditions; th'e state of the river, wihd, current and the proximity of navigational hazards; (d) state and availability of shore navigational aids and channel.. marking by day and night; speed restrictions imposed by thc waterway authority; the draught Of the vessel in relation •to available depth of water; and the presence.of b?ckground light such as from the •shore lights or from the back scatter other own (h) lights during night

58. Risk of collision.—(l) Evcry vessel shall usc all available means appropriate to the prevailing circumstance and conditions to determine if risk of collision cxists and •there is åny doubt' about such risk it shall be deemed to exist. (2) In détermining the existence of Fisk of collision the folloWing facgors shall be taken into accouht; (a) Such risk shall be deemed tQ exist if a compass bearing. of an approaching. vessel does not appreciably change .and apparent distance from own vessel decreases; (b) Such risk may exist even when an appreciable beaHng change is evident, particularly when approaching a very large vessel, or •a -tow or when approaching a vessel at close range; and (c) For vessel not fitted with a compass. if the relative position remains unchangcd. 19 59. Action to avoid collision.—(l) Any action taken to avoid collision shall, if the circumscances of the' case -a it, be positive, madc in Mnple Emc and with due regard to thc observance of good seamarFhip. (2) Any alteration of course or speed to avoid collision shall, if the circumstances of the case admit be large e ugh to be readily apparent to another •vessel. A succession of small alterations of course and/or •speed shall be a ided. (3) Action taken to. avoid collision with another .vesSel shall be such as to result in passing .at a safe distance the effectiveness of the action shall be untill the othér vessel is finally passed and clear:. (4) If necessary, to avoid collision or- allow more time to assess the situation, 4 vessel shall slacken her speed ordake the way dff by stopping or reversing hcr rneans of propulsion. .60. _Vessels •p•roceeding •through Narrbw A vessel proceeding along the courée of •a narrow chännel shail• keep as near to the outer limit of the channel which lies on hcr starboard side as is- safe and practicable. A $essel of ICSs than 10 .meters in lcngtff or a sai!ing vessel shall not impede the •passage of a vessel which can safely naigatc only within thé marked channel. (2) A vess•el engaged in fishing shall not impede the passage Of any other vessel in'the, navigable (3) A vessel shall not cross a navigable channel if such crossing impcde9 the passage of vessel prpceeding Üpåream or downstreåm along the navigable cfiannel. (4) In a narrow channel when over taking can take place only if the vessel to be overtaken has to takc action to'#ermit safe passing, the vessel intending to overtakc shall indicate her intention by sounding the appropriate signals provided in clauses and sub-rule 2 .of 85(a) and (b). The vessel to be overtaken shall if in.conscnt, sound appropriate •si åls•provided •in clause (c) of sub-rule (?) of n.Tlc 85 and •take action to permit sacc passing. If in doubt she may sotfid' the signal prescribed in sub-rule (3) of rule 85. This provision is not in derogation of the provisions in rule 64. . (5) A vessel nearing. a bend or an .area of a narrow' channel wherc other vessels may be obscured by an intarvening obstruction shall navigate with particular alertness and caution and shall sound the appropriate signal . pr ribe4 in sub-rule (4) of rule 85. (6) Every •vesSel .shall, if the circumstanccs of the case admit, avoid anchoring in a narrow. channel

61. Single lane traffic—When .singlc lane traffic is in force, vessels shall join the lane only when the traffic sigåal permits to do so. While in the lane, ihé vessels shall pk)ceed with maximum permissible speed and clear the chaQnel as quickly as possible. Vessels shall not stop or anchor in a traffic lane and shall exercise caution while joining' or Eaving the éingle lane to avoid pollision with waiting vessels at anchor

PART 11 CONDUCT ÖF VESSELS IN SIGHT OF ONE ANOTHER 62. Sailing vessels.—When two sailing vessels are in sight of one another or approaching one another so as to inv •Ive risk of collision,.one of them shall keep out of the way of the other as follows:—- (l) in a non tidal River when one vessel is procceding upstream and thc other yessel proceeding downstream -5 the Wessel proceeding upstreåm shall keep out of.thc way of thc other. (2) when both Gre proceeding; upstream or downstream and in a tidal lagoon the vessel Which is to windward .shal keep out of the why of the .vessél which i' to leeward. (3) a vessel which is running frec shall keep out of the way of a vesscl which is closc-hauled and . (4) a vessel

which is close-hauled on the port tack •shali keep out of the way of a vessel which is close-hauled on c starboard tack. (5) For the purposes of this 'rul.e, ".'upstreamh means thc direction against current downstream mpans thc . diration with tKc current and "Wind ward" side. means the •side opposite to that of which the main sail or the largest .for *and aft sail is Carried. 20 63. Overtaking.—(l) Notwithstanding anything contained in these rules a vessel overtaking another vessel shall keep out of the way of Lhe vessel' being overtaken. (2) .A yessel shall be deemed to be.overtaking when coming up with another vessel from a dirs:ction more than 22.5 degrees abaft her beam. In such a position with reference to the vessel she is overtaking, that at night she would be able to see only the stern light/!owing light of that vessel but neither of her sidelights and (3) Any subsequent -alteration OT bearing two vessels. shall qot make thc overtaking vessel a crossing vessel within thc meaning of these rules or relieve her thc duty of keeping clear of the overtaken vessel until she is finally passed-and cleared

64. Head-on ,situa1ion.—When two mcchanicallY propelled vessels are meeting on reciprocal or nearly reciprocal courses so as to involve risk of? collision each shall alter her course to starboard so that cach shall pass on the pon side Of the 6ther

65. Crossing situation.—Whcn two mechanically propelled vessels åre crossing to involve risk of collision, the ' vessel which has the other on her pwn starboard side shall "keep out of the way and Shan, if the circumstances of the case admit avoid croSsing ahead of the other vessel

66. Action by give-way vessel—Evcty vegsel which is directed by these rules to keep out of the way of another vessel shall, so far as possible takc carly andr substantial action to keep way clear

67. Action •by (a) where by any of these rules one of two vessels is to keep out of the way, the other shall keep •her course and spepd.(b) the latter: vessel may however take action to avoid collision by her maneuver alone, as soon as it becomes apparent to her that the vessel required to kecp out of the way is not taking appropriate action as required by these rules. (2) When from any •cause, the vessel required' to keep her course and spced finds hers?lf so close that collision cannot be avoided by the action of the givetway vessel alone, she shall take such action as will best aid to avoid collision. (3) - a vessel which takes action in a 'crossing situatiqn in accordancc .with sub-rule (b) of this rule to avoid collision with another vessel, shall, if the circumstances of the case édmit, •not alter course to port for a vessel on her Own por! side and (4) the proviSion in thc abpve subLrule does not relieve the give-way vessel of her obligation to keep out of the way

68. Respoisibilities of (between) vessels.—Except where rules 62 and 65 otherlvisZ require: (i) a mechanically propelled vessel underway shall keep out of the way (a) (b) (c) (d) (e) a vessel not under command; a vessel rcsFicted in her ability to mancuvcr; a vessel engaged in fishing; a sailing vessel, vessel under oafs or country boat; and a vessel proceeding downstream by a vessel proceeding upstream, permit. if the prevailing circumstances A sailing vessel under way shall kécp out of the way of; (a) a vessel enÖt under command; (b) a vessel restricted in her ability to maneÜvcr; and (c). a vessel engaged 'in fishing. (iii) A vessel engäged in•.fishing when underway shall, so far as possible, keep out of thc way of; (a) a vessel not under and (b) a vessel restricted in her ability to' maneuver. 21 PART Ill CONDUCT OF VESSELS IN RESTRICTED 69. •Vesse.ls not in sight of one vessels not in sight of one another when navigating in or near an area of restricted visibiliti shall comply the following: (i) (ii) (iii) (iv) they .shall makc appropriate sound signals in accordance with Rules and exhibit tights while navigating in restricted visibility; they shall proceed •at a safc speedr adapted.to the prevailing circumstances and conditions Q.f rcstricted visibility. A .meghanically propelled, vessel shall have her engines ready for immediate maneuver: they shall have due regard to the prevailing circumstances and conditions of restricted visibility; except where it has been determined that risk of Collision does not exist, every vessel which hears apparently forward of her beam the fog signal at anothcr vessel or which cannot avoid a close:quarters situation with another vessel forward of her beam, Shahl reduce her speed, she shall, if necessary take all her-way off and in any event navigable with extreme• caution until danger of collision is over. i 70. Lights & Shapes.-e-(l•) Provisions in this Rule shall be complied with in alfweathers. ' (2) I hc provisions in thesc rules regarding-lights shall be complied with from sunset to sunrise, and during such times no. other lights shall be exhibited, cxcept such lights as cannot be mist%kei for the lights specified in these rules, do not impair their' visibility .or distinctive character, or interfere with the keeping of a proper.look-out. (3) The lights prescribed by- these rules shall, if carried, also be exhibited from sunrise to

sunset in restricted visibility and may be exhibited in all other circumstances when it is deemed necessary. (4) The rules concerning shapes shall. be complied with by day. (5) The lights and' shapes unless otherwise specified in these rules shall comply with the positioning and tcchnical details as per the'provisions of Annex-I to Intcrnational Regulatibns for prevention of collision at sea (1972)

71. Different, Lights to be used in vessels—The different kinds of lights that shall be used in a vessel are specified below: (i) "masthead white light placed over the fore and aft centerline of the vessel showing-an unbroken light over an arc of the horizon of 22$ degrees and so fixed as to show the light from right ahead to 22.5 degrees abaft the beam on either side of the vessel. This light shall be placed as far as practicable at height ?bove the bull of not .1ess than 3 meters for vessels of 20 meters or more in length and 2 meters for Vessels of less than 20 meters in length. "sidelights"—a green light on the starboard' side and a red light on •the port side each shöwing an unbroken light over an arc of thc horizon of 112.5 dcgrecs gnd so fixed as to show the light from right ahead to 22 degrecs abaft thc beam bn fts respective side. In a vessel of less .than 20 meters in length the sidelights may be combined in one lantern carried the 'fore and aft centerline of the vessel. Side lights shall be placed not less than 1 meter .below thé mast head light. (iii) "stem light"—a white light placed as nearly as practicable at the stem showing an unbroken light over an arc of the horizon of 135 degree arid so- fixed as to show thc light 67.5 degrees from light aft on each side of the vessel. (iv) "towing light"—an yellow light having thc same characters as • "Stem light" mentioned in sub-sectiön (3) of this rule. "all-roumd light"—a light showing an unbroken light over an arc of the horizon of 360 degrees. (v) (vi) "flashing light flashing at' regulår 72. Visibility of Lights.—The lights required to be provided in a vessel, by these rules shall be visible at the tollowinu minimum' ranges: (l) -A vessel of 20 meters or more in length, mast head light—3 miles, Side lights—O miles, Stern light—2 miles, Towing 'light—2 miles, all-round light-—l mile. (2) A vessel' less than 20 meters in length, a mast heau light—2 miles side light—I mile. Stern light—I' mile, towing light—I mile, 'white, red, green or yellow all-round light—I mile. 33/1763/201 OIDTP. 22 (l) A vcsscl und?r-way shall exhibit the following, namely 73. Lights to be exhibited by. a vessel under-way,— (a) a mast hcad light forward; (b) side lights: (c) a stern light. (2). A vessel of less than IO meters in length shall exhibit an all-round white light in-lieu of the kights prescribed in syb tule (l) and shall if pragucable also exhibit sidé lights or a combined iantcm

74. Lights to be exhibüed by towing and hushing A vessel when towing or pushing shall exhibit the folloWing, namely (a) .two mast hea< lights fbi-ward in a vertical line when the Iepgth of the tow exoeeds 200 meters threc süch light shall be in a éertical line.. These lights Will be ipllieu of thc lights prescribed in sub nale (l) of rüle 74. "I he ligHt_s shall be Placed' not less than I meter apart and the light placed at a . height not less than_two meters above the hull; (b) side lights; (c) a stern light: (d) a towing light in a vertical line apove the stem light. (2) When a pushing vessel,and a vessel being pushed ahead are connected in •a composite unit, they shall be regarded as a mechanically Bropelled vessel and •exhibit the liÉhts provided •rule 74. (3) , A vessel or object bein-e towed shall exhibit: (a) side hghts; (b) ae stem fight; Provided that any number-of vessels being toyed or pushcd in a group shall be trgated as one vessel. (4) A vessel being pushed ahead, not being pan of a composite uriit, shall exhibit at the forward chd, side lights. (5) A vessel béing towed-aside shall exhibit a stcm light.at the forward end side lights. (6) Where, from any sufficient cause,- it is impracticable for vessel or object being towed to exhibit the lights prescribed in this rule, all possible measures •shall be • taken to light thc vessel or the object towed at least td indicate the presence of unlighted vessel or object

75. Lights to bé exhibited by sailing vessel and vessels under- A' sailing vessel shall exhibit • side lights .and a stem light: Provided that in a sailing vessel of less than 20 meters in length, the lights specified in sub rule (l) may be combined in one lantern carried at or near the top of the mast where it tan be seen. (2) A sailing vessel underway may in addition to the lights specified in sub rule (I), exhibit at or near the top of the mast where they can best be seen, two all-round lights in a vertical line, the upper being red and lower green. (3) A sailing vessel of less than 10 meters in leggth and a vessel under oars may exhibit lights svecified in this culc, but if does nöt cxhibit, such vesscl shall have an electric- torch or lighied lantem showing yhite light which shall be cxhibited in sufficicnt •time to prevent collision

76. Lights to be ahibiied by 'fishing A vessel engaged in fishing shall exhibit: (a) two all-round lights in a Vertical line thc upper being red and the lower white and during day a shape congistlng of twp cones with their apexes together in a vertical linc or a basket; (b) side lights, qnd a stem light when

making way through the water in addition to the lights •prescribed in (a).(2) A vessel of less than 10m. in length, a ygssel under. oars may exhibit lantern and shall have an electric torch which shall be exhibited in sufficient time to prevent collision. 23 77.- LiÅhts to be exhibited by vessels under command or .restricled 'in their ability 10 maneuvera ssél not under command shall exhibit: (a), two all-round red lights in a' vertical. line •where they -cén best be secn by night: . (b) tivo balls or similar shapes in a vertical line .by day; (2) Note• (c) and a stem light in addition' to light} specified in clause abovc•- when making way through the water; A vessel restricted in her ability to maneuver' ?hal.l •exhibit: (a) three all-round lights iti a vertical •line, the highest and löwest of these shali be red and middle liÉht shåll •be white; (b) three shapes in a vertical line; .the highest and lowest shapqs shall bc balls and the middle one, a diamond; (c) mast head •lights: side lights and stern •light in addition •to the lights specified in (a) when making way through the water. in . • .—Whcn at anchor, addition to 'the and shapcs• specified • in (a) and (b) above, lights And' shapes cified in rule 80 •for. anchored. vessels •shall also be e*hibited

78. Lights to be exhibited by vessels engaged in yessel qngaged•ifi dredgin8 in addition 'tp the hté in subtrule (2) of 'Rule? 7.shall exhibit two alk-roufd red• liihts •or, two balls in a vertical line to indicate-the side • which obstruction exists. '79. Lights to be exhibited by 2ilpt vessels.—A vessel engaged on pilotage duty .shall exhibit: (l). at o? near .ihe head t',,vo• all-round •.lights in Vertical •line, the upper One White and the lower one red. (2) in addition to the lights sppcified iti sub rule (l) •side lighb-a•nd •stem ligh& whcp under way

80. Lights to be exhibited by'ånchoréd vessels and vessels aÉroupd.L (l) A vessel at an'pnchor shall' (a) ili the fore part an all-round-' white light dr one .ball -by day, (b) at qr near the stern and av a lower level then -the light in (a), an. all-round white light: Providcd- that vessel of less than 20m. in length may exhibit one all-roulfd white light where it can best be seen (2) A vessel aground shall cxhibit in addåion. to the lights prescribed in süb-rules(l) •where they an be (a) •two all-round red lights ih a Vertical line, (b) three balls in a' vertical line by day. (3) A vessel less than. 10m.. in length agd•a vessel under oars may exhibit lantern and shall have an clecy-ic h which Shall be exhibited in sufficient time to prevent colhsiön

81. Lights to be exhibited by hydroföil$ and mechanized count.ry crafts..&Where it is imprac•ticable for a -hanized country •craft or a hydrofoil to exhibit lights ahd shqpes OT the characteristics •or in positionsL as specified , e Ruleé, she shall exhibit dights and shapes as closely •similar in•charaeteristics and position as is ioæsible

82. Sound Signåls.—The sound signal appliance. unless Otherwise specified in the rules. shall. comply with tfie ical requirements as per the irovisions.of Annex•ure-ln• of the- Intemational Regulations for Prevention of Collisicm 1972.• 83, Equipment for •ound signals.—A vessel- Of 20 liieters or more in ,lcngth' shill b? provided with a • whistle. and 1.1 and a vessel of 100 meters or more in' length, in addition, shall. be provided wiih• gong. 24 84. ManeÜvering and warning signals.—The. maneuvering and waming signals shall be as follows: (l) Single vasel : when vessels are in-sight of one another a mechanically propelled vessel underway, "'hen maneuvering as authorized or required by these rules: shall indicate,,her intentions by the following signals on her whistle (2) (3) (a) One shore blast of about I second duration to indicate . "l am altering my course to siarboard". (b) Two short blasts to indicate, "l am altering my course to port". (C) Thtée short blasts to indicate "l am•operating stern propulsion" Overtaking vessels . (a) Two prolonged biasts (blast of aboug 4 to 6 seconds duration eåch) followed by one short blast to indicale "I intend to over take you on your starboard side". (b) Two prolonged blasts followed by two short blasts to indicate "1 intend to over take you•on your port (c) A vessel being overtaken shall indicate hér tonsent by the following signals on her whistle in the order; one prolonged, one short, one prolqngcd,i onc short blast.: and if in doubt, she may sound sighals prescribed in sub-rule (3). When in doubt : When vessels in sight of one anothcr •are approaching each other and from any cause either. vessel fails to undcrstand the intentions or' actions •of •the other or 'is in doubt whether sufficient action .is being taken by the other to avoid collision, the vessel in doubt shall immediately indicate such doubt by giving at least 5 short and rapid blasts on the whistle, the signal may be supplemented by a light signål of at 'lcåst 5 short and ralfid flashes. (4) At-bends : A vcsscl nearing bend or a-n area-of a channel where othcr vessels may be obscured, shall sound one prolonged blast, such signal shall be answcrcd with a prolonged blast by any approaching vessel. 85.. Sound signals in or near an area of restricted visibility, where by day or night, signals specified in these rules,' shall be used as follows: (1) A mechanicalLy propelled Vessel making

way through the water shall sound' at intervals of not more than 2 minutes one prolonged blast. (2) A wmechanically propelled vessel underway but •stbppcd and making no Way through the water shall sound at intervals of not morc than 2 minutes two prolonged blasts in succession•With an interval of about 2 seconds between them. (3) A vessel not undcr command, a vessel restricted in her ability to mancuvcr, a vessel constrained by her draught; vessel engaged in towing, fishing or pushing anpther vessel, shall at intervals of. not more than 2 minutes three . blasts with an interval of two seconds betivcen them. (4) A vessel ai anchor shall at intprvals of not morc than onc minutc ring thé bell rapidly for about 5 seconds. A vésscl anchor -may in addition sound three blasts in succession namely orie short, onc prolopged and one short blist to give warning on hef position, and possibility of collision to any approaching vessel. A vessel aground shall give three separate and distinct strokes on the bell immediately before and after the rapid ringing of the bell. (5) A vessef Of less than 10 meters in length shall not •be obliged to give the above mentioned signåls but shall make some other cffcctivc sound signal åt intervalS of notrmore than 2 minutes

86. Distress signals.—When.a vessel is in distress and requires assistancc•from other vessels or from shore, the following signals shall be used or displayed by her, cithcÖ together or separately. (1) (2) (3) (4) (5) A .cOntinuous sounding of any sound signal apparatus. A flag or a light waved in a circle to draw attentiön. Flares on the deck. -"May day" transmitted by radio International code of signal N.C.• hoisted on the vessel. .5 25 87. Exemptions.—Any_ vessel or class of vessels may be exempted from compliance of the following provisions for a periåd .up to one year from the date of commencement of these rules, providcd that such vessel or class of vessels complies with the requirement of the Travancore Public Canals and Public Ferries Act, 1096, The Cochin Public Canals and Backwaters Navigation AQ of 1052 and the keel of which is at the stage of Construction before the •coming into force of these ruleS. (l) The inåtallation of lights with colour specifications and intensity as prescribcd in rule 70 (5). (2) Repositioning of masthead lights Sidc lights on vessels resulting from prescriptions of rule 71. The installation of lights with ranges prescribed in rule 92

88. Application' of the provisions of Pori rules and National ivaterway regula1ions.—Notwithstanding anything mentiöned above, the provisions of the Port Rules and Prevention of Collision Regulations, 2002 for National Waterways shall apply mutatis mutandis, to the mechanically propcllcd vessels while making voyages within the port limits and National Waterways

CHAPTER V SAFETY MEASURES ON WATERWAYS 89. Marking of Navigable Channel..—Channel marks like coconut piles, bamboo marks or buoys are provided to mark the safe limks of the channel. Details of channel marking are given in Annexure I. Marks painted with luminous paint or lights shall be provided for navigation at night. (l) All, vessels shall; (a) : navigate within the channel limits as•yar as possible; (b) avoid close passing or causing any damage to the channel marks; (c) avoid fouling or. mooring to the channel marl.. (2) No fishing stakes, fishing. nets, . Or obstructions of any kind are permitted in the channel. (3) Small• vessels and fishing boats with nets shall give a wide berth to vessels

90. Trafic Signals and •Signs* l) Traffic Signals or Signs shall bc crec!ed on the banks of thc river or on any fixtures on the river io ensure safety on the navigable channel.The sign boards shall bc painted wiih bright luminous paint. SpcCimens of which are shown in Annexure-ll. All vessels shall kecp a look out for such marks and to take timely action as required by the seamanship practices to ensure safety. (2) Navigation marks shall poi be tampered or damaggd or used Tor mooring of vessels. (3) Any person i'hö has committed a breach of the provision. contained in thc sub-rule (2) of rule 90, shall be punishable with imprisonment for a term whiéh, may extend to six •months, or with fine which may ektend to •five hundred rupees, or with both

91. Storm Warning Signal.—Storm warning signals as shown in Annexure Ili shall be exhibited fråm the •ports

92. Carriage of Dangerous Goods.—-No dangeröus goods shall be carried onboard or transported in the waterway without the specific approval and safety clearance from the competent offcer. Provisions of the Merchant Shipping (Carriage of Dangerous Goods) Rules, 1978 with respect to transportation of dangerous cargo shall mutatis mutandis apply tp carriage of dangerous goods under these rules

93. Prevention of Explosions "or fire.—No explosives shall be brought onboard, stored or carried in a vessel without the prior approval and safety clearances from. the cdmpetent authority and cléardnces from the Controller of Explosives as required under the provisions of the Explosive Act, 1884

94. Prevention änd •containment o) pollution of harbors, ports and "'aterway by oil/chemical/hazardous cargo etc.—fte provisions of the Merchant Shipping Act, 1958; and the rules issued there under shall be the guiding criteria for inland vessels and shall be applicable to all vessels under these rules. 33/1763/201 26 95. Passage throygh Bridges.—When a vessel passés under a bridge, ihe height of the mast or the height of the collapsed-mast and thåt Of the wheelhouse or super structure should be• léss than that between watcrway level and the height of the road biidge. Speed of such vessel shall be reguläted with reference tö.prevailing weather conditions ard the currents likely to be. experienped

96. Passage through locks.H1) • While navigating through -the locks and lock basin: the master shall camply 'With. åqy orders •given to him by the lock master to ensure safety and'orderly movement of ship and. quick passage through the lock. (2) . The order pf priority for passage through thc lock shali bc as Sonows: (a) Vessels of the Government, vessels beloriging to the military, frohce and the Inland Witerways Authority of India; (b) Passenger craft; (c) Fishing boats; (d). Cargo vessels. (3f Vessels shall be warped or poled into or out of locks and shall not use their propellers or paddle wheels until clear of the lock. (4) Vessels used or intended för p•assengers and cargo shall Ply only on such portions of thc backwaters or canal system as may be specified in t,hpir survey cenificate

97. Reduction of speed in certain • Every vessel regulate.their speed to avoid creating excessive wash or suction likely to cnuse damage'to' its stationary or other' moving vessels or structures and bank; (2) In particular the vessel 'shall reduce speed in good time, but withbut loosing the steering way required for .(a) out Sidc port entrances; (b). near vcsseis •madc fast to the bank or to a landing stage Iqading or discharging cargo; (c) near vessels tying at normal stoppiqg places. 98. - Drifting ofa vessel.—DBfting of vessel in the inland waterways, unless authorized by the Competent ()fflcer.. is prohibited

99. Crossing of 'navigäble channer.—While crossing the navigable qhanncl, ferry vessels shall keep at such distance from vessels-or rafts moving along the navigable channel, so that the_ latter shall •not •be obliged to chang# their course or reduce speed: Provided that ferry vessels, undcr special circumstances may be granted priority of passagc across the navigable channel by the Competent Offcer.andösuch vessel shall exhibit a green hll-round high! by night and •a green flag by day. and shall • havc right of way as the circumstances permit

100. Mooring of vessels.—N6 vcssel shall be moored or. anchored within a port except in areas designated for such. purposes by the Competept Offcer

101. Stationary •Vessels.—All stationary vessels, rafts and floating equipmen•t shall be anchored or made •fas: securely enough. to withstand the current in such a way that they -can adjust to the •changes in water level 102. Responsibilüies of Master and Every vessel shall be in charge of a Master whö shall be qualified and possesses a' Certificate to that •effect under the Rule. Thé Master •shall be jointly and severally responsible with the Owner för any or all breaches of these tules. Responsibilities bf thc Master and Owner, shall inter alia include the following: namely: (a) to take all precautions required to keep vigilant and to avoid damage to the vessel, installations in the waterway and avoid causing pbstructions to shipping and navigation; (b) to take all steps gequired by thc situation to avoid imminent' danger; (c) to comply with the rules or regulations applicable to his vessel and his crew and to the vessels jn tou while hiS vessel is engaged in towing of other vessels; (d) the 'Master or _ Owner shall ensure that the vessel has .a yalid certificate of survey applicable for {he voyage pr service in thc zone' of operation; (f) (h) (j) (k) (m) (n) (o). (p) 27 the Master or Owner shåll ensure •that the Vessel has a valid "certificate of Registration and that the certificate of registration granted in. respeqt of any vessel khall be used only for thé lawful navigation of that vessel; thc Master or Owner shall ensure• that the crew are sumcient for the type of vessel and type and area of operation as required by these rules; the Master or Owner-shall ensure that the crew has valid certificate of competency/service; the Master or Owner shall ensure that' dangerous goods or explbsivc materials aré -carried on board only as authorized by Competent Authority and. procedures and safety precautions as per the E*plosiVcs Rules, 1983 • the Master shali maintain Shi.p's Articfe/crew. list, Ships Log and Engine Log; the. Master shaH ensure that af no time the vessel is overloaded or more than the number of pasicngcrs it is certified 'to carry, arc taken onboard; the Owner shall ensure that no

unauthorized alterations are made to the vessel: the Master or Owner shall ensure that thc vessel is ad@uately equipped to fight any fire and to rescue. the pa»cngers and that the crew adequately trained to meet emcrgent situations; the Owner or Master shall ensure that Life saving devices like life buoys, life jackets, life raft e!C. as required as per the Rulcs are provided, in cach vessel" and they are kept in such a position för quick deployment in ease of emergency; the Owner shall ensure insurance of the vessel against third party risks; the Owner/Master shall display the details-showing thc date of manufacture of' the vessel, date of survey, expiry date of survey, passengers, and cargo capacity and such other delails as required by law; to ensure timely and quality maintenance work; to cnsure that at no time the vessel discharges in the waterway except at • the reception facilities of inland ports, raw sewage, oily substances, garbage etc. (2) The Mastcr or the person ih charge of the vessel shall make immediate report to the nearest competent officer or Police on,— (a) (b) (c) (d) (e) (f) (g) (h) (i) any vessel has been wrecked, abandoned or materially damaged; accidents or casualty involving, death, grievous hurt; sighting of any other vessel in distress; outbreak of fire or flooding in his vessel; damage caused to any waterway •installations or permanent structure* any vessel has.caused loss or matcrial damage to any other vessel or observing yncharted obstruction . or naviéational aid , falling over board of any object which may become an obstruction or danger to navigation; spillage of oil into the waterway; piracy or theft onboard. (3) The master shall,— (a) • on sighting a vessel or raft which has suffered an accident-endangering persons or the vessel or threatening to obstruct the channel, give immediate assistance to such vessels without endangering safety Of his own vessel; (b) . in case of any marine casualty, give warning to the approaching vessels to enable them to take necessary action in good time and steer clear of the channel when in danger of sinking or goes out of control. '(4) All the crew employed on board a vessel shall.be under the control and orders' of the •master of such vessel, -Who shall see that. proper discipline and good conduct is maintained by them. The crew shall on no accoun•t interfere with pasScngers or >ehave hdely towards them. 28 (S) When the master of a vessel is temporarily absent during a yoyage, the Serang on board of the vessel shall be held to bC in charge with the powers and responsibilities of thc Master. If such absence ofi the Masfer exceeds a day a duly qualified Master •shaki b.g appointed immediately and the fact communicated forthwith to the competent authority. (6) Master or. persons in charge of a vessel shall give the cpmpctent officer or any person authofizéd by him all necessary facilities for verifying.Oompliancc witli these régülations. (7) The master of a påssenger or tourist vessel shall ensure that the passengers are informed •of the use ånd. dispositipq of life saving devises onboard

CHAPTER VI LIFE SÄVING APPLIANCES TO BE CARRIED ONBOARD INLAND VESSELS 103. namely: (2} (3) Classification of vessels.—(l) For the purposes of this Ryle inland vessels shall be classified as follows 4 , (?) Class I—Pqssengcr vessels, F.et-ry launches and boats; (b)' Class 11—Cargo vessels and vessels other than those falling under; Class _I, Class Ill and I V; (c) Class IN—Non-propelled vcsscls (Barges); (d) Class TV—Pleasurc.crafts and adventure vessels. Rcquirement for Vessels of Class l: (a) Sufficient number of life rafts or buoyant apparatus to accommodate at least 50% number ore. passengers and crew on board; (b) One lifp jacket each for 50% of thc passengers and crew on board; (c) Lifc jacket for child, for number of persons certified to carry. For the purpose of thiS, rule, Ghild means persåns weighing below 30 kg; (å) _ At least four life buoys for vessels up to 25 mcter length, six life buoys for-ve'sselQ5-45 •meter . length angi •eight life buoß for moré than 45 metre length. At least two of the lifebuoys supplied shalti- be equipped with •self igniting light if the vessel navigates at pight; (c). Every vessel of Clas I, passenger capacity '150 Ina above Shakl have at least one life boat with • minilnum passenger cppacity bf ten persons. The boat shall, bé provided with necessary davif f.ör:? launching. Boats are to be' stowed equally on either si4c of the vessel if more thgn one boat: is;, provided; (f) Life Boal,s plus Life Rafts plus lifejackets together Jo accommodate 100.0/0 of the passengers an&.••• crew onboard; (g) All,boatr crew shall possess sufficient training in rescue work in addition to artificial first aid; (h) All böats shall have headlights or Search lights,. hand torches and emergency IAntCrns; (i) Boats shall be sturdy and maintain rigid standards. The underwater material should bc sound, strcg* and sea worthy: In 'small vesels one pair of oars shall be 'kcpt in readine*s for use in the event? power failure. Requircmcnt for Vessels of Class 11: (a) Every vessel of Class 11 shall bc provided with: (i) minimum one life raft to accommodate .all crew for vessel. over IO m; (ii) onc life jacket for each crew or person on board; (iii) mininium two life buoys for vessel up to 25 meter length and four life bu'oys for vessel• of äbove 25 meter lcngth Df which one shall be equipped with self igniting light if. the Vessel navigaa, at nighL (b) Life rafts

plus life jackets plus life buoys to- accommodate 100 % of the crey. 29 (4) Requirement for Vessels of Class Ill Every manned vessel of Class Ill sha)l be provided wiQ1: (a) minimum two life buoys, qnc of which shall be equipped with a self igniting light navigates af night; (b) onc life jacket each for every cr?V.,• on boård. (5) Rpquircment for, Vessefs• of Class I V: if the vessel (a) Every veéscl of Class IV up to •10 meter in length shall cah•y life jacket for each person. Vessel above IO meter shall carry sufficient life raft or life buoys for all persons on board. För small vessels where büoyant.apparatus could not be accommodated,' 100% buoyancy by .way of life jackets and life buoys shall be 'provided: (b) All vessels of Class IV shall carry at Icas! .two Life Buoys of which one to be of self igniting type if thc vessel navigates at night: For small vessels where buoyant apparatus could not be accommodated, 100% buoyancy by way •of life jackeG and life byoys shall be provided

104. Technical requirenænts-—Every life saving appliances provided as per the provision of these rules shall • meet the requirement of Schedule 4. 105. life saving appliances provided as per the provisions' of these rules shall stowed according to the requirement of Schedule 5, .as far as applicable

106. Display of usagé.—'On every vessel .ofClass l, the list of lifc saving appliances and instruction of their use shall be displayed at conspicuous places. 1-07. Exemption.—Vessels or class of vessels provided that she complies with the requirements of the Travancore Public' Canals and Public Ferries Act of 1096, • the Cochin Public Canals and Backwaters Navigation Act of 1092, the kecl or which'is.laid under construction or constructed •before thc coming. into force of the" rules may be exempted. frpm compliance therewith of the provision for carriage of life•boats until one year after the datc of •commencement of these rules prqvidcd that adequate life raft in lieu are provided on board

CHAPTER VII INLAND VESSELS FIRE-FIGHTING EQUIPMENTS 108. Applicability of this rules..—This rule shall apply to all vessels cxcepg the folloiving: (l) Vessels abovc 500 tons gross or passenger capacity over 100 numbers. These vesSels shall' be required to .cpmply with thc requirements of Merchant Shipping (Fire Alliances) Rules 1969 as ?pplicable to ships on coastal yoyages, (2) Requirements in respect of hovercrafts and small vessels up to IO Ton shall be specially consideréd by the competent officer; 105. Appliances to be carried bf.inland vessels.—All inland vessels shall be provided with thc' following approved type fire applianccs: (l) Minimum one power driven fire. pump with motor in every vcsg:l above 150 tons or 12 m. (2) -Minimum one hand operated fire pymp in every vesyel exceeding 6 mete in length. (3) •Water servicc pipes, Hydrants, fire' hoses:- •In every vessel required to carry a fire Pump, with water rvice ppes, hydrants and fire hoses so arranged that at least one powerful jet of water may be directed to any part f the vessel. Hoses shall not be less than 32 mm in diameter. (4) One Pläin Nozzle for every fire hose carried in accordance with .these Rules. (S) One Spray Nozzle for every fire hose carried in accordance with these Rules. (6) One Pokable Soda-Acid type fire extinguisher in each of thc passenger spaces above the uiper deck and -th at leäst two such extinguishers of the crew spaces and of thc passenger_ spaces below that deck; • Providéd •that vessels less than 15 meters in length' need carry only onc such extinguisher. . 3/1763/2)10/DTP. (7) (8) installation. (9) (10) 30 Minimum- two Portable foam type fire extinguishers in every machinery space. Minimum one Portablc Dry Power type fire extinguisher in every vessel having a large electrical Minimum onc Fire Axe in every yessel exceeding 15 meters in length. Minimum one Firq Bucket for cach number of the cfew with a minimum of two. Fifty percent of those buckets shall be fitted with lanyards. No vessel need carry more than twenty bucketS. (11) Minimum one Sandbox with $C60p in evcry vessel at least ohe in the inachinery and, boiler spaces. Quantity of sand shall not be lcss.than meters. (12) Minimum onc Non Portable Foam type fire ex!inguisher in case of motor vessels exceeding 30 meters length. Capacity of such extinguishers shall not be less than 45 litres. (ft) Smothering Arrangement: All fixed installation •in all vessels having. areas containing fuel oil shall be covered by smothering arrangements

110. Approvdl by' Competent Authority.—lf in any case an Inland Vcsse! is unable to comply fully with the requirements set out as above, and in all Eases of vcsseis excccding '45 m. in length, .or 150 ton gross, the fire Appliariccs to be provided •shall bc referred to the competent officer for approval. I I l. • Responsibility of Master or Owner.—The Master or Owner of all Inland Vessels Shall ensure that the vessel is provided with Appliances and Equipments- for fire fighting and for protection from danger or explosion in accordance with these rules and that the crew of the vessel are well conversant with thc use of the ap>liances. CHAPTER n•4LAIND VESSELS CONSTRUCTION PART I HULL CONSTRUCTION

112. Hull.—(l) The Structural strength of every vesspl to which these rülcs apply shall' bc sufficient for the service for which vessel is ifitended. Scantlings in accordance with Rules of recognized Classification Societies will ordinarily be acccptcd. (2) Vessels intended for the •carriage in bulk of petroleum and petroleum products shall comply with the Indian Petroleum Act, 1934 (Act XXX of .1934) and the Rules made there under. (3) Ordinarily. only decked vessels o! length exceeding 12 meters shall be allowed to ply during the foul season. 113., Watertight Subdivision.—(l) Vessels designed to carry more than 150 passengers shall comply with the watertight diviFion requirements of Part 11 of the - Indian 'Merchant Shipping (Construction and Survey of Passenger Steamers) Rules, 1981 as •they apply to Class VI of said Rules. (2) Vessels over,, 18 meters length shall be adequatcly• subdivided to the satisfaction of the Surveyirg Authority

114. In an vessels (except wooden house boats) greater than IS'meters in length, a collision bulkhead shall be fitted at approximately 0.05 lengths abaft the (foreside of. the designed waterline) forward perpendicular. (2) I-n all (except wooden house boats)- exceeding 15 mcters in length, the machinery sha!l be enclosed between watertight bulkheads extending to the upper deck or gunwale. (3) In Vessel fitted with internal combustion the bulkhcaas separating the machinery space from 'he accommodation spaces shall be made of steel and insulated so as to provide an effective fire division. Prövided that in the case of woodcn vessels below 15 meters length wooden bulkheads, suitably lined may be uséd. (4) Side scuttles fitted below deck. must be of non:opcning typc. 1 15. Hull_side Valves and Fittings (other than 1/70Se on scuppers .and sanitary waterway inlet and overboard dischprge pipes shall bc fitte,d with valves or cocks Secured direct Io shéll plating or water boxes. (2) All valves and cocks-are to be of bronze or other approved material. (3) Gratirigs having adequate net are are to be fitted at all openings for water inlet valveé. (4) Waterway inlet and discharge •valves and cocks are to be fitted 'in easily accessible positions

116. Deck openings, Hatch comings.—All ppenings in deck shall be well designed and capable of being effectively closed water tight. Hatch comings shall be provided with hatch covers of adequate strength and shall be capable of being battened down: 117. Height of Sides and Rails.—ln open vesscls the top of thc gunwale, covering board of wash strakes, or the up»er edge of the ha4f deck at Sidc as the case may be, shall not be less than 75 cms 4bove thc flooring böards in the of vesscls 6 m in length or less, and not less than 90 cms in lhe case of vessels 12 m in lengih or more. From ler&ths between 6 m and 12 m, the' hcight shall be in p?qpdrtion. Decked vessels shåll'be provided with. bulwarks or rail% not less than I m in height.and the rails *hall not be morc than 22.5 cms apart unless Strong netting is provided

118. Water closets.—(l) In addition to and exclusivc of a sufficient nutnber. of closets for saloon passengers . and{crew, inland vessels on voyåges of more than six hours duration shall be provided with latrines for the exclusive use of deck passengers and onc fQr every additional hundred ot part of huhdred such passengers for which the vessel is certtficd. A fair proportion df lairinps be allotted• from the aböve for the solc use .of womeh and shall be so marked obtsudc. In no casc shall there bc a lesser number than two or not morc than six latrines so provided. The latrines shall be of approved dimensions, having adequatc head room and ventilation, and shall provide privacy. (2) On vessels which ply by day on voyage not lasting more than- six hou}s, there shäll be one* latrine for every *20b bassengcf-s with a minimum\of two, and' one of thC9e shall be marked for women. (3) Thc Surveying Authority may exempt wholly or in Bart vessels bclbw 16 m length from -the full or part requirements of above two sub%rules if ihe vessels are employed on voyagc of less thän 2 hours duration

119. In case of passenger vessels when the vcsécl is loaded With weights representing thc full nürnt*r of passengers and crew at 65 kg foi each person, and when all necessary fuel is on board, the clear height of the side'$ove water, at the löwest point, is nqt less than 38 cms for vessels 6 m in length or less, and 76 cms for vessels - 18 mi in length and ovcr.For lerigths 6 m and 18 m the height shall b'c in proportion. •The lcngth shall. be . .measåred from the föward Sidc of the stem to thc after side of the stem post, .and the clear side shall be measured to thg tob of the covering board or to the top of the wash strake, if one is fitted above the covering board, if however a half is fitted,' -the-clear side shall be measured to the top of thc deck at Sidc or to the' top of the gunwale, . •which-ever measurement gives the smaller fregboard. In decked boats ,t'he freeboard shall mcåsured from the top of the deck 4t side. (2) Vessels Bermitted to•ply during foul season shall be required. to havc freeboard 1.5 times as of '(hat .ca1culiVd under sub Fulc (l). 1>0. Floöring.—Floorings shall bc provided throughout the vessel. it shall

be removable to allow for cleaning and invection and shall allow rapid drainage of water to the bilges. Drain plugs in the skin of thc vessel shall not be 121. Position of Helmsman.—Thcre shall be a •provision in all vessels; whfther or not fitted with raised decks or tsimiiar b6structions, for the. helmsman to have a clear view for safe navigation. MACHINERY AND EQUIPMENT 1 22', Boilers and pressure vessqls.—Steam ,boilers and pressure vessels shall comply 44'ith thc requirements laid own in&'.derchant Shipping (Constructiqn and Survey of Cargo Steamers) Rules, 1991 as amendcd from time to time. 12 Internal Combustion Engines.—Thcy shall be of approvcd design and shall be driven by •heavy oil, paraffin imilar fuel aid not by petröl. 12 Propeller Shafts.—They shall be of non-corrosive metål provided that mild steel shafts may be peniitted, fitted '*ith a non,corrosive liner or when used with ån oil-grease lubricatca stem bush in a stem •tube provided wiih j) sealing glands. 32 125. Power.—Powgr of the propelling machinery shall be sufficient to enable the Vessel to operate safely: Provided that vessels permitted to ply during. foul scason• shall be required to have sufficient powcr (o enable such ycssels to attain a.speed of not less than nine knots in fully loaded condition in •calm Weåther. Speed trials wili be conductcd only in 'Fair Season in calm weather.conditions.. IZ6. Maéhinery Inachinery including thc shafting shall be fcnccd,- if there is no separate engine room; whe•re necessary so as to proteci•persons in the vessel from injury

127. Trials.—Test bed trials of machinery shall, be witncsscd by a• surveyor. Runnißg ånd maneuvering trials under service conditions shall also be witricsspd by .a survey before •the declaration is issued. If thc motoF or fuel tanks are situated below 128. Motor •compartment construction. ventilations etc.—(l) deck and oil of a flash point lower .than 60 degree Celsius is used, the PIOtor and fucl bulks must be, enclosed in separate watertight and well ven$lated compartments, in which no stove or other similar heating appqratus is to be placed. Each Oompartmcnt shall be (urnished with at lcäst two cowl•yentilators one ofrwhich is to be Icd well down into the space to preveht accumulätion of.vapor in the lowdr part. Any enclosed space within which.a motor or fuel' tank is placed , must böventilated in. this•manner irrespective of whether heavy'or light oil.is'used ak fuel. (2) In open vessels, the space occupicd by thc motor and fuel tank shÅll, preferably, be at the after. end of the vessel and separated from thc sp•ace allotted for the äccorpmodation of passengers and crew by a substantial bulkhead as high as thc seais and watertight up to at least half its height to prevent thß spread of oil thc passenger or crew space. If it is dcsired tp place the motor amid ships or forward, either arrangement may be allo'Wed provided that a bulkhéad or casing formed in the manner stated, is placed between the motor space and the passenger. of crew space. (3) Motor shall be covered in, arid the compartmcnts or casings containing them shall be constructed. (4) If the Vessci is of yoodt a metal-tråy which can readily be cleaffed and is of suitable depth shall be fitted under the motors; the bilges shall be• protected against .saturation by oil. 129. - Fuel Fuel tanks shall be constructed of suitable •material, and shall be securely fixed in position. They shall be of robust construction with rivctcd, br.azcd or welded joints. NO' part of the fuel tanks or their •fittings shall .depend on soft Sold(R for tightness. (2)' Fuel fanks and their fittinÅs shall be perfectly water •tight and tested by hydraulic pressure to a head of water of at least. 15 feet. If fegd system is employed the particulars of' tanks and fittinÅs shall be submitted to the 'Surveying Authority for prior approval. (3) A. pcoperly secured wire-gaugc diaphragm of tube strainer, which can be esily taken out for cléaning and examination shall. bé fitted to each filling inlet and at each Vapour or oil outlet on thc tanks and the filling pipe or orifice shall haye a suitablc screwed cap. (4) Fuel tanks shall not be fitted in machinery spaces, •but shåll be placed in a separate compartment, or on deck rcmote .frbm engine a modificäti0fi of this requircment will be grantcd only Whcre thc flash point of fuel,exceeds 660 Celsius (This temperaturé limit mäy be reduced to 60 deéree CelsiÜs as per class norms) or in the case of small . open vessels where the machinery is fitted at the after end

130. Fuel Pipe arrangementsAl) The pipes conveying the fuel shall be of seamless matcrial made with easy bends and metal to metal joints.A valVe or cock shall be fitted •at each end of the fuel pipe and no joint shall depend on soft solder for tighmcss. The joints and cöuplings shall be readily accessible. Every fuel tank outlet valve or cock shah . be capable of •being readily closed from a position outside the compartment. containing the tank and the cngine and such valve shall be so positiöned that it is not likely tQ bc out off ih the event of fire in these compartments. (2) On engines using paraffin ås fuel the air inlet pipc to thc c'arburctor shall be fitted with a satire-gauze diaphragm and so arranged as to satisfy tbe surveyor that •there will be no danger of fire or explosion from escaping vapor when thc engine is stopped or from flame shoüld a back-fire qccur

131. Bilge Pumping and Bailing All vessels shall have-an efficient Pumping system having the s.uctions and means for drainqge so arranged that any water within any compartment. of the vessel, or any watertight section of any compartment. can be pumped out. (2) iipes shall not be less than' 32 mm internal diameter. (3) All vcSsels over 18 m length shall have -a ppwer driven bilge bump and one rotary or semirotary hand bilge pump. Power driven pump bc driven by main engine. (4) All vessels below 18 m length shall .havc a rotary or semi-rotary hand bilge pump. .33 •132. Steering GeaF.—(l) Steering gear chain blocks, etc. running through passenger and or crew spaces. shall be covered in or provided With portable guards. properly secured so as not to endanger passenger or crew (2) Where the rudder is-ordinarily operated by power, it shall also be capable of being dpcrated by hand in an emergency. (3) Launches below 15 m length shall' be proyided with a spare tiller. PART PASSENGÉR ACCOMMODATION 133. Passenger Area of each part of ppssenger space and thc length of seats therein shall be measured and the leiser.of the numbers given by area and ky seating,shall be the allowable number during fair' season, provided ,that in open vessels the nUmber.of passengers shall not exceed two pcr 0.3 m of length and in no case to. exceed 100. (2) Total number of pas"ngers permitted eto be carried during thc off season shall not exccqd 'fivo third thc total number allowed for fair season prpvided that 'vessels operating in sheltered waters such as creeks may be permitted to carry same number of passengers throughout the year. (3) - Open Launches: .(a) • The forward extremity of the' space available for thc passenger accolpmodation is to bc determined by . the Surveyor, with due :rQard to thc proper stowage of the anchor and cable to any other necessary eqüipment in the bow of.thc vessel, and the length shall be measured frdm this point to the foreside of the bulkhead separating the reachinery spacc from the passenger. space. (b) If' the machinery is placed amidships, .and additional space is aVailable for passengers between thc after bulkhead of the machinery space and a position near the stem of the vessel, to be dctcrmined by the Surveyor as suitable having due regard to the steering arTangements and fuel,, tank space, such space shall als6 be considered for accommodating passengers. The bieadths are to be measured at suitable intcrvals to the back of the side benches or to the inside of the gunwale or to the inside of the half deck (where fitted) whichever measurement is least. (c) The space abreast of the machi!iery space may be included in thc passenger measurem•ehts if engine ig enclosed by a casiig of longitudinal bulkheads and if the' distance between •the sides of the casing or bulkheads and the back seats is at least 0.9 m. (d) The number of passenger allowable by area shall be found by dividing by 0.36 the area in square meters. of the clear space measured. as above. Allowance shall Ibe made for *the crey .ahd baggage in the area measurements (15%). The number allowable by seating shall be found by dividing the length in meter of each continuous fixed seat by 0.45. (e) Seating •on budyant apparatus shall be computed separately. (4) Decked Launches." (a) The• forward exiremity of the space available for passenger accommodation shall bc determincd• as provided for oppn launches, and the clear area of this space is to be obtained by *deducting all encumbrances such as skylights, companions, machinery casings, navigating spaces, lifeboats gnd ventilator. (b) Thc maximum number of passengers that may be allowed shall• be ascertained by using the divisor 0.56 for thc ärea of the deck in square meter of the saloon or cabin floor below deck. Only one säloon below deck shall be included in the passenger measurements,. except that where• the vessel has an appropriate standard of watertight subdivision; two Saloons may be includéd if they arc of moderate size, In no case more than 250 passengers shall be allowed. (5) In all vessels the seating shall be so, arranged that there shall be no serious : obstacle to prevent a person from passing forvard' and aft quickly in cåsc of emergency. (6) No space within 0.5 m of entrance to any ladder way, wash place •or-lavatory shall be included in the space measured for passengers. (7) Vessels •efigaged ip carrying rargq number of passengers shall have •a strong barrier constructcd• on each deck. 33/17632010/DTé. 34 PART STABILIT 134. An inclining experiment •shall be carried out to deterrnine the elements of stability resulting in a Trim and Stability booklet. Unless particulars .of the position to transverse metacentre at various drafts are available the experiment shall be carried out with thc. vessel loaded with weights to represent. the fully laden condition. (2) Calculation showing the transverse meta centric height and the angle of heel which would occur with total of the passengers concentrated on One side .of the vessel to be undertaken. •In a •multi deck vessel the total passengers concentration should be ori one side of the upper most deck. Each passenger shan be represented by a weight of 65 kgs. (3) In deéked vessels thé passengers shall be taken as congregated at 0.27 sq; meters each on the upperrnost deck or decks to which they have access and the centre of gravity of thc påssenger at I metre abové the deck. (4) In open vesscls the center

of gravity Qf passengers shall be taken at• 0.3 m above thc seat. (5) In no case shall the surveyor certify a vessel' for eny number of passengers unless he is satisfied that the vessel has sufficient stability and freeboard to carry that number safely. 135- 'Stability of Hovercrafts.—Stability of Hovercrafts shall be specially considered. *PART V OTHER ACCESSORIES 136.' Anchors & Cables vessel shall be provided with at least two anqhors and chain cable. and every vessel exceeding 100 tons shall.be provided with anchors and •cables as spécified by the Surveying Authority in each case provisied •that •anchors and cables complying with Classification Society requirements shall ordinarily be accepted. (2) 'Eve?y vessel over 100 ton shall be provided with an echo sounder. In addition every vessel shall be provided with at least one hand lead line•15 fathoms in length with lead of at least 3.2 k.gs. wcight provided that sma'l vessels plying in shallow waters may be providéd with a depth measuring pole or rod suitably marked. (3), Every open vessel shall' be provided with at Icast three oars, three rowlocks and two efficient boat hooky;. (4) Every vessel shall be provided with at least-twö heaving lines. (5) Appropriate communication and •navigation equip-ment like compass, binoculars, wheel indicator, bridge engine control, public address system, mobile phone etc. shall provided •as specified by the surveying authority. 137. ' ExemØtionS.—The competent authority may exempt any vessel or class of vessäs already existiog or the keel of whiqh is laid, under construction or constructed bcfore the coming into force of these *ules, from the compliance of the •proVisions of this chapter for a period of dne year with effect from the date of commencement Df these rules provided that the vessels complies. with the requirements of the Travancore Public Canals and Public Ferries Act, 1096, the Cochin Public Canals and Back Waters Navigation Act, 1092 and the Madrag Canals and Public Ferries Act, 1890. CHAPTER-IX MISCELLANEOUS 138. Advisory Committee.—(l.) The c0mpetent authority shall with the approval of Government, notify the constitution of an advisory committee to advise the ownh, agents; charterers of inland vessels on questions affecting the interests of passengers and shippers of goods. .(2) The advisory committee shall consist of a chairman and members not •exceeding seven représcnting rhe shippers, carriers gnd chambers of commerce and éxperts in thc field of inlqnd .water transport. (3) The tenure of the Committee shall be for a period of three years and shall be extendable to five years. The Committee shall transact its business by following such procedure as may be specified by the competent authority. , 139. Penalties.—rAny person committing a • breach of any of these rulek, other tban for which penalties are provided in the Act, shall be punishable with imprisonment for a term which may extend to six months .or fine which may extend to five hundred rupees Qr both. 3. 6. 8. 9. 35 FORM No. [see Rule] Form for expressing the intention to build a new vessel Name of vessel Owner's name and' addres* ,Lcngth, breadth and depth of vessel Type of vessel Passenger, cargo cum passenger,' Chemical C@rrier, Liquid Carrier, Towing unit Particulars of hull (a) BuildeFs name and address (b) Måterial of the hull (c) Whether with a deck above free board deck (d) Number of Bulk heads, their placement and thickness (e)' Hull plating material and thickness Particulars of propulsion of Engines (a) (b) (D Number of sets with BHP •of each Manufacturpr's name and brand Model Number .. Type of Engine Diameter of' propulsion shaft and. material Type and Number of gears 'Particulars of equipments '(a) Anchor-Port, Starboyd (weight & Material of each) t) Anchor-Spare (weight & material) (c) Chain: size type and length (Port) (d) Chain: size type ånd length (Starboard) e) Ropes-size, material and number of ropes (D Search Lights, number, size and power (g) Life buoys, Buoyant apparatus ' with self, ignited light with buoyant lanyard (h) Navigation Lights giving particulars (i) Sound srgnals: Mechanipai or Electrical Prticulars of fire appliance (8) Number, size and capacity of fire pumps Fire mains, diameter; material and -number of hydrants 36 •IO. 11. • 13. (c) Number bf.hose (d) Nozzles (i), •Jet type (ii) Spray type (iii) Jet/Spray type (e) Any other. equipments. Number of portable fire, extinguisher with pagiculars (a) Soda Acid (b) Foam (c) Dry Powder • (d) Any other types Particulars of communication equipments Particulars of navigatidn équipments Particulars Qf'pollutiqn control devices (a) Sewa#e treament and disposal (b) Solid waste processing and disposal (c) Sound Pollution Control (d) Water .consumption/day (C) Source of water Signature of Owner: • Enclosures— • Plans,. Drawings etc. as per Rule 6 (4) (b), (c) and (d) •of the Rules. •The Surveying At Port.... l/wc.... Authority 37

FORM No. 2 • [see] APPLICATION•FOR SURVEY. OF INLAND YESSEL Date: . being owner/Agent/incase of Minor, Légamatural Guardian (Legal ents•of guardianship attached) of the (nrahd yesv! •duly authorized by the owner (copy of-authorization attached). f Name.... .... y of the said vessel at the port/Place. of.... ...r.... .....Officiål .No. . ...vide chalan No. . .. .dated... I/We ag}ee to pay on demand such.éxtra. fees. may be leviable under the. rules. , WSu The particulars of lhe vesscl are as under': i. of vessel Official No. of the i'essel Port. of-regiStry of vessei .7 Gyoss tonnage of' vessel Place •and date-of last survey' •,Npture of survey (state if survey in dry dock is required) Length, Breadth, Depth Type of main propulsion engines and total I/We have remitted Rs. 24 3. 4. 5. 6. 7. -8. 59. 11

12. Details of other machineries Type of the vessel passenger Cargo/Chemical Carrier, Liquid Carricr etc.• Owner's namc and address agents namg and address with telephone No. hereby apply for the • respect of the Owner/mgster/serang. 'Io-sures:— 1: Documents .hs per rules 6 (3) [(a) tp (f)]

2. Treasury chalan for.the total amoufit paid. 3. • , Last expired certificate of survey

4. Attested copy of certificate of registratiön.5.• In case of agent, authorization from Ithe owners tohmdeHake the suivey Ofthe 6. In case of minor, legal documents in respect -of- guardian. 11763/2010/DTP. vessel. .38

FORM Nov 3 PÄRTlCULAkS •ro BE FURNISHED FOR SURVEY PF NEW VESSEL OR VESSELS WHICH ARE TO BE SURVEYED FOR FIRST TIME 4. 2. 3. 4. 5. 6. 7

8. Name of vessel Owner's name and address • Length, breadth and depth of vésscl Type of Vessel Passenger, cargo cum passenger, . Chemical Carrier, Liquid Carrier, Towing Particulars of hu41 (a) Year built (b) Builders name and address (c) Builders certificate _ (d) Material of the hull unit (e) Number of Bulk.heads: their, placement' and thickness' (f) Hull plating "'material and thickness Particulars of propulsion of Edgines (a) (b) (c) (d) (e) (f) (h) Number of sets fitted Manufacturer's name and Mand Model 'Number Year of built Type of Engine with HP 05 each Diameter of propukion shaft and material Type and Number of gears Test certificate Particulars of equipments (a) Anchor-Ron, Starboard (weight & Material'. of (b) Anchor-Sparc (weight & material of each Equipment) (c) Chain: size type and length and test certificate (Port) (d) type and • length and test pertificäte (Starboard) (e) Ropes- size, material and number of repes

9. IO.11. • 12. 13. 14. 39 (f) Search Lighté, number, size and power (g) Life buoys, Buoyant apparatus with Self Ignited fights, Number with buoyant lanyard (h) Navigation Lights giving particulars and certificate, main mast, auxiliary mast, port, Starboüd, Stem, Anchor not under command . (i) Shapes for anchor not under cpmmand etc. O) Sound sigdals: Mechanical or Electrical Particulars of fire appliance (a) Number, size and capacity of fire pumps (b) Fire mains, diameter, material and number of hydrants (c) Number of hose (d) Nozzles (i) Jet type (ii) Spray type (iii) Jet/Spray type (e) Any other equipments Number of portable fire extinguisher with particulars and name öf manufactures (a) Soda Acid (b) Foam (c) Dry Powdcr (d) Any other types Particulars of communication equipments Particulars of navigation equipments Particulars of pollution control devices (a) (b) (d) Sewage treatment and disposal Solid waste processing and disposal Sound Pollution Control Water ponsumption/day Source of water Plans, Drawings Etc. As per Rule 6 (4) (b), (c) and (d) of the Rules. Signature of Owner. From 40 FORM • No. 4 [See Rule INTDY{ATION OF TIME AND DATE OF SURVEY OF VESSEL Date The Surveyor of Inland Vessel The Owner/Master of the Inland Vessel Vessel..... (Name and Address) Sub•.— To Sir, (l) (2) (3) (4) (5) (6) (8) 4 (9) . (10) (1,1) • Ref.—(l) I have to acknowledge geceipt of your application for survey of 'the vesser narne above under the Inland Vessels Act '19.1 7,(Central Act I of 191 7)• and to state that a Surveyor will proceed on board the vessel at.... .. O' clock of the. .... . Day.... .....20..... (2) 1 enclose a li>t of the requisite preparations f?? the sur:vey, which shall be made befdre the day and 'hour above mentioned. Yours faithfully, Surveyor THE REQUISITE PREPARATIONS FOR THE SURVEY OF AN INLAND VESSEL Last certificate of -urvey, if any: Master's Certificate: Engineer or. Engine Driver's Certificate: 'IhCre öhall be no obstruction for the free moveinent of the Surveyor around arid inside the vessel. 'Ihe vessel shall bc chipped and cleaned internå!ly and extemally. Proper ladders, safe lines etc. shall be rigged and kept ready: . Suitable shock proof lighting arrangements are available. A representative having sufficient authority for carrying out a•nd understanding all Che instruct@ns shall accompany the Surüeyor and remain 'present during the-entire surveying process "He also note down the• defects pointed ouf•by the surveyor. the gauging report of the hull/deck/bulkhead by, authorized agents shall ge made available. The surveyor has an option to check on the results. An anchor and an anchor chain and steering chain* and' rods shall be l?id, down on the floor duly cleaned and kept geady for inspection. Crew cabins, service area and sanitary areas shall also be kept cleaned and ready for inspection. 1. 2. 3. 41 The following guidelines shall be observed for preparing the vessel ready for survey:—, The vessel shall be kept in dry dock or on hard •in a suitable dry place conveniently aiproachablc in such condition that; HULL (a) The keel of the vessel shall be at least 1 m. above the ground; (b) There shall be no obstruction for the free movement of the Surveyor around and inside the vessel: (g) The vessel shall be chipped and cleaned intemally and externally ; (d) Proper ladders, safe lives etc. shall be rigged and kept ready suitable shock proof lighting arrangernents shall also be made available; (e) A representative having sufficient •authority for carrying out and understanding all the instructions shall iccompany the Surveyor and. remain present during thc entire•surveying process; (f) The gauging report of the hull/deck/bulkhead by authorized agents shall be kept ready. Thc Surveyor haö an option to check on the results; (g) An arichor and' apchor chain and steering chain and rods etc. shall be laid down po the floor duly .cleaned and kept ready for inspectiqn; (h) The proieller, propeller shaft, propeller shall be removed and kept ready for inspection; (i) 'Ihe sea suction and discharge valve shall be detached from the hull, open out and cleaned and kept ready for inspection; (j) Crew .Cabins, service area.•and sanitary areas shall also be kept •cleaned

and ready for inspection; (k) Ruddct shall be dismantled and kept ready for inspection. (a) All main propulsio.n units shall be striped open and cleaned, gauged and gauging report shall bc kept ready for inspection. (b) Gear Box shall also be striped open and kept ready for insieciion together with suitable gauging, (c) All auxiliary machinery such as fire and bilge pumps, generator and altemator and any other types of hachinery on board including caistan and-windless to be striped and opened and also gauged {nd kept for inspection. LIFE SAVING APPLIANCEG/FIRE FIGHTING APPLIANCESICOM,MUNICATION AND NAVIGATION EQUIPMENTS, POLLUTION CONTROL DEVICÉS, LIGHT AND SOUND SIGNALS (l) Life Saving Appliances (b) (d) (e) Life Jacket as applicable Buoyant apparatus Life Boat or any other boat together with lowering and hoisting appliances, if any Life Buoys and Budyant Life tines should be cleaned and kept ready for inspcction Inflatable life raft as applicable 33/1763/2010/DTP. • 42, (2) Fire Fightihg Appliances (a) (b) (d) (e) Fires hoscs and ,nozzles Fire lines and fire valve Portable and fixed fire fighting appliances as applicable Quick closing or remote closing valves for fuel oil Fuel tanks etc. shall be evacuated, cleaned and kept ready for' inspection (3) Lights and sound Signals (a) All navigation. lights, whistle together with spares shall be kept ready for inspection (b) Emergency lighting system applicable, shall be kept ready for inspection (4) Communication Equipments All communication equipments such as Very High Frcquency Radio Receivers, Telephones, Public address systems. torches, Aldies lamps etc. shall be kept ready for inspection. (5) Navigational Equipments All relevant Navigational Equipments such as Compasses etc. shall be kept, ready for inspection. (6) Pollution Contro! Devices All relevant pollution control devices shall bc kept ready for inspection. At the conclusion of preliminary survey or part thereof, the Surveyar shall issue a defect- list to the attending representative, You are also requested to pay towards the sun,rey charges fees mentioned in the Schedule-I on ad hoc basis. Before issuance of the certificate of survey, all the charges must be paid. You åre requested to approach this office on completion of above formalities, for mutually convenient date to conduct the survey. Signature of Surveyor. 43 FORü No. 5 [See'Rule 9 DECLARATION OF SURVEY OF INLÅNb VESSELS' 1.. -Name of Inland ARTICULARS OF NE VÉSSEL 2. 3. 4. 5. 7. 13. 14. • 15. 16

17. Tonnage: Gross Registered ....Net Registered *Tonnage . Lehgth .. ..-.....Breadth . .....:Depth.... Place and date of building: Name and address of owner: HULL. Length for identificatipn, (State points pf measurements)' Place and date of the vessel's last examinätion in dry dock . Condidon of the Hull..... „ MACHNERYI Means of propulsion (sinkle or twin screw, side or. stern paddle If screw, date on which propeller sham.was last • Total Horse Power of, Main Engine... .... 10.• Description of engines and date of their .. 11_. Condition of machinery.... . .Boats : No. 1 . No. 2 No. 3 Length Breadth Depth' Life-buoys, number and description of those actually on board at the time of survey . Buoyancy apparatus, numbér and description . ... Weight of each.... .....•.....:..... .. Anchors Number . Navigation lights: Number and . Fire apparatus Extinguishers.... Buckéts.....,..... 44 18. 19. 20. n

22. Electrical Generator how driven and where located... Pollution control devices . Condition of Equipments: Master and deck crew Name of Master.... .... Name .of No.of other deck crews.... .... Engineers and Engirie Room crews... Passenger Capacity. ....'....Class and No. of his license... . Class and No. of his license.... .... If the vessel •is not found fit to carry passengers, or if the owner does not desire passenger certificates, the table below should be crossed twith the word NIL in block capitals. D Nun{ber of Deck passengers on each decke On a between deck, if any On main deck On the upper deck or bridge Total Total of deck, When plying by night (smooth & partially smooth water) When plying by day (smooth & partially snooth water) or in canals by night and day When plying by day on voyages which do not last more than 6 hours (smooth water only) Second cabin passengers Saloon passengers cabin and Saloon Passengers CONDITIONS OF SERVICE 23. The nature and the quantum of cargo the vessel is fit to carry 24. Limits beyond which the Vessel is not fit to ply.... .. (State "Smooth water only" or smooth and Partially smooth water only) 25

26. TOWING should be prohibited may .be permitted Time of service, if less than one year, for which the hull, boilers, engines or any of the equipments will be sufficient. For the period ending on the. ..... day of.. é.47.• hereby declare as follows, viz. , (i) That on the . 45 DECLARATION BY THE SURVEYOR . day of . I, h?ve inspected the machinery of the vessel nam•ed at (l) above, and all the equipments are onboard the same. (ii) That the mächinery of the said vessel is in gecördance with tRe foregoing descriptions, sufficient for the service intended, and is good/approved condition. iii) (v) Vi)D ii) iii) ix) • (x) nat the said machinery willi in my judgment, be•sufficient until the . day of .... That the eqüipments are such and in such condition as required by'the rules•ånd Instructions under the Act I of 191i. That -I.C. Engin&/Bilge/Pumps weré examined by the personally and found in .satisfqctory operating conditions. Ihat the said vessel as regards her machinery is, in my judgment fit to as •an inland vessel. That the hull of the said vessel is sufficient for the service. intended, •and is in good/ap>roved conditions. That-the hull of the said inland vessel and the equipments..yill in my judgmeni, be' sufficient until ihe..... ....day Of.... .... That the said.vessel is, in my judgment, fit to-ply •as an inland vessel with the number of passengers stated in the space marked (22) in this form, when there is no encumbrance of .the space metsure for tlE passengerraccommodation, but is not fit' to ply with a •greater number of passengers. That 1 am satisfied that the fees dup have been. paid into the treagury. • a ted. is... ......,. 763Æ010/DTP. .. ...day of Signatur:e of Surveyor 46

FORM No. 6 [See Rule-9 (l)] DECLARATION BY SI.RVEYOR . Namc and Registration Number of Vessel Name, address and Telephone . No. of Owner• 2. Amount and date of Fee remitted 3. Lengtb 4. Brudth Depth Tonnage (G) Material Used (b) Is the hull in good condition Particulars of stability test., time and 6. duiatiön of trial. rug Clcar Arca 7. Passenger Capacity 8. '9. Is the Passenger capacity painted on boat visible to passcngcrs Arc. protective railings provided 10. wherever necessary 11. Safety Precautions taken . (a) Said Box (b) Fire Extinguishers (c) Lifebuoys (d) Life Jacket (e) Buoyant Apparatus Arrangements for pollution control: 12. (a) Sewage treau:nent and disposal (b) Solid Waste processing and disposal (c) Sound pollution control Details of Crew with name and License No.: 13. Serang Driver Lascar Is the .10g book properly maintained 14. 16. 17. 18. i 19. 20. 47 Engine: , Mafe and No. of Engine (b) Fuel used (c) Are the fuel tank and fuel lines made of good -material and properly leak proof (d) Is the Engine Koom getting overheated Are all necessary Lights provided Internal height-of Cabin Height of free board Is the •boat and area clean and good Any repairs renewals or alteration needed at the time of. inspection Certified that I have inspected the Boat..... ....at..... . e-qertifiC@te. Date: . on . and found in good condition for issuing fitness Signature of Surveyor Name & Designation Office Seal IS READY FÖR DELIVERY. The . The owner / master of the Sir, Sub:— Ref:— 48 FORM No. 7 [See Rule 10] NOTICE TO .OWNER THAT A CERTIFICATE OF SURVEY GRANTED UNDER THE INLAND VESSEL'S acr . ...,has been surveyed .....day of .... .20... I hereby give you notice that the qertificatc of survey of the above inland vessel applied for . ... is ready for delivery, and will be forwarded to you by registered post on payment by you to the local treasury or sub-treasury as the case may be and on production of the treasury chalan of ihe following sum, viz.: Forfeiture under section 8(2) of the Inland Vessels Act, 1917, for delay in excess of fourteen days in sending in the declaration being bat the rate of Rs... .....per day Total.. Yours faithfully, Certifying officer. FORM No. 8 (See Rule 11] APPLICATION FOR CERTIFICATE OF SURVEV From enter the name of owner or Master of the vessel) To [The designation and address of the officer appointed under Section 9(2) of the Act] Sir, Sub:— Application for certificate of Survey. Ref:— Declaration of Survey No.... ....dåted..... My vessel named ....and Declaratiön of Survey as above has been issued on.... ... . . on.... .... that the Certificate of Survey may be issued. ....1 request Yours faithfully, Signature. Name of the Owner 49 F6RM No. .9 12] CIRTIFICATE OF SURVEY To remain pendcd. • Ihe Vessel . force until the . .....dayof. . . ..20.•....ofily; unless previously can•celied cr OWNER, MANAGING OWNER OR PLAöE OF REGISTRY AND OFFICIAL NUMBER... TONNAGE,- Gross Registered Tonnage Nct Registered Name of Master and No. of his •.certificate or Tonnage 1 license Dedlaration.L—This is tp certify that the Årovisions of the- Inland Vessels Act, 1913 (Central Act 'l of 1917) and the Rules made thereunder fegarding•survey apd the transmission of declarations in respect of this vessel have been complied with. Plying is not to ply other than . PassengerS.—Thié vessel, according to the declaration of-the Surveyor is fit to carry passengers in accordance th the following scale:' Number of Deck assengers n dach déck (1) n betweén deck,if any n main deck n .rthe upper deCkJbridge Total Deck Passenger otal of deck, bin and Saloon Passengers When plying by nig/it on. smoozh and partially smooth water (2) When plying by day• on smooth -and partially smooth water or in canals by night •and day When plying by day on voyages which do not Iasi more than six hours on sinooth water only (4) Secand cabin passengers (5) Saloon passengers (6) Two children above 5 years; and under 12 years •of age to be reckoned as one paSsenger Encumbrahce.—lf the space measured' by the surveyor for passenger accommodation is encumbéred by cattle, rgo• or other articles then ONE PASSENGER is to be deduc.teä from the foregoing table for each 65 •dm2 passenger area• encumbered #hen plyihg at A above 50 . at B •above at C above Towing by this vessel while plying with passengers is prohibited/permittéd ps follows (only) 3/1763/2010/DTP. 50 Equipments.—Required by law to be caried and •maintained in proper condition and in the positions approved by the Surveyor on this vessel while this certificate remains in force include the following:— of.....cubic feet Bilge and Hold pumps. Fire Fire Hose.... ..... Fixe Buckets. .... Fire Sand Boxes.... ..... Firé _Boats of aggregate capacity Life buoys and Buoyancy apparatus as below : When plying as at A.... ... at C... ..... Life buoys; and Buoyancy Apparatus.... .... ,. Exhibition of certificate: This certificate (or duplicate signed by the Certifying Offcer) must be exhibited in a legible condition, protected by glass where it may be easily read by all persons on board. Expiry of certificate: The vessel must cease to ply on the date given above for the expiry of this certificate (except in so far as may be necessary for her

to.reach place of survey if she is not at such a place at that date) until she is again syrveyed and granted a fresh certificate. Name of •vessel: While this certificate is in force the vessel's name, as printed or otherwise marked ir pos:tions approved by the Surveyor, is not to be removed or defaced; and if-a change of name is desired, 14- clear days notice is to be given to the Certifying Officer before the change is made. Accidents: After-any accident, howsoever caused, occasi6ning•loss of life or any material damage affecting the safety of the vessel either in her hull, machinery or equipments, the master or serang is to report the particulars at the nearest police station; and as soon as possible the owner or. master is to report thc matter fully in writing signed by him to the surveyor at the neaiest declared place or survey. Signature. 51 FORM No. IO [See Rule12] (ÄTIFICATE OF SURVEY . Name of Vessel Regiétration Number 2 3, Owner's Name and Address 6. 7. 9. 14. 15. 16.' 13. 18. 20. 21. 22 .23. bate: Master'S Serang'$ Address Year. of Built Area of Operaiion Nature pf Operation Extreme inner dimension of the vessel Length • Breadth . Depth Net Registered Tonnage •-.lö. Descriptiop of Engine Engine' Number -and Brake .Horse Power Nature of frel used Details of crew required for the vessel --13. Master' Serang". Driver Lascar Is, thg hull -of the vessel in goo.d condition and fit for service Material used for hull Hasr the •vessél been tested for: stability. and found safe for passenger service Détails-of life saving equipments• Details of fire fighting equipments . 19... Details of pollutäori control devices Are. all the equipment -and facility prescribed •under the rules proVided on board Naturg• of repairs, Jénewals needed at the time of inspection Nürnber of passengers which the Vessel is licenced to carry Lower" Deck Upper Deck For Day Ch\ise Period for which the certificate shall- hold Signature Name and Designation . 52 FORM No. 11 [See Rule 13(2)] APPLICATION FOR CHANGE OF NAME OF THE VESSEL From To The Chief Surveyor of Inland VeSse1s, [Designation and address of the officer appointed under Section 9(2) of the Act] Sir, Sub:—-Change of fame of ihe, vessel, . Ref.— owner/master of Inland Vessel . that the name of the vessel may be changed as . ...of..... ....(name) bearing No. . .. .being the . hereby (here eriter the new name). lhe certificate of survey No... the change of name. above. The Registering Authority, Kerala. Inland Vessel ... dated . . .. in original is enc!osed herewith for making Signature Name of owner/master FORM NO. 12 [Søe Rule 15(1)] APPLICATION FOR REGISTRATION . of . being tbe Ownc*daster of an . hereby request that the said vessel be registered at the I agree to pay such fres as may be leviable under the Rules. Particulars in respect of the said vessel are as under: . Owner's name and address in full 2. Ocgupation Name of Master and his Certificate No

3. Name of Registry.and •No: if previously registered 4 Hence, when and how the vessel was secured 5. Kind of vessel, viz. , motor; name and address of . 6. engine makers "fith horse power, speed and the year offiake Name arid address of builders with place•and 7. year of büild Details of Insurancc Certificate 8. (b) (c) (d) Place: Date: A statement by the ownqr that. the provisions of the Act and these rules have beeh complied with; A duplicate of the certificate' of survey; Chalan receipt evidencing payment of such fees as specified in the schedule for the registration of the vessel; Copy of the 3td party insurance certificate of the vessel duly attested. Signature of the Owner/ Master of the vessel declare .in the year.... Rupees ply in the port of.... .. .. 53 DECLAR4T1bN OF OWNERSHIP 1,.... . ...subject of.... ....the statc of.. . ... .résiding permanently at/having principal place of business at... • I. w...do hereby .....ofthe (fame) was built at... . .....and was purchased by me on.... .... . for ••••••••••••••••••••••••••.,,.....and wish to have registered it in my name at the port of . .....and that I am the sole owner of the same. I ftlrther declare that the vessel is intended to Made and subscribed on thc ßesawe of.... .....,.day of. Signature of the Owner 20 . ...by above named . . in the Signatuu pf Magistrate/Notary Public/ Regis?ering Authority. declaration shall be madc before a registering Authority, a Magistrate or a Notary Public.

FORM No. 13 [See Ruic 16(1)] APPOINIMENT OF DATE AND OF INSPECTION OF NE BILAND VESSEL BY REGISTER-NG AUTHORITY' Plæe.,..... Date.... The Owner/Maste% of the Inland Motor Vessel . .....(Name and Address). • Sir. I have to aclqow]edge receipt of your application for Registration of the vessel named above under the Inland Vessel Act, 1917 and to state that I shall proceed onboard the vessel at . . . .O'clock day of 20...

2. You are requested to afford to the Régistering Authority all reasonable facilities for the of the vessel and all such information rcspecting the vessel and her machinery or any parf thereof and all equipments and articles onboard as' he may require for the purpose of the registration. Yours faithfully, Registering Authority 33/1763/2010[DTP. 54 FORM No.- 14. [See Rule 17] CERTff1CATE OF REGISTRATION . Officral No. .....of . .....,.....:.....subject of the state of.... .....•.....and the sole owner of (kind of vessel).....called (Name of vessel).. said.... ....was built at.....by This is to certify that (regisjering authority).... that (Owner)..... .. ...in the year 20.. The said . No., year and place of Registry. .. ..has declared ....and thnt the .....of dury registered at (place). ....under the Inland Vessels Act, 1917. day of 20... Description bf Éngines Name and address of makers When made No. of sets of Engines No. of shafts Total Brake HorSe Power Estimatéd speed of Inland Vessel Particulars of Vessels of Tonnage Extreme length Length Breadth Depth Gross Registered Tonnage Net Regi$eved Tonnage No. of Decks No. of Bulkheads Build and matérial Stem Certified under my hand this Registering Authority, by Port of . Note:—This Certificaie of Registration shall be produced for inspection on demand by any authority authorized by the State Government. . This certificate shall bc surrendered to the Registering Authority if so required by him. While thc certificate is in force, the vessel's name and registration mark as painted or otherwise marked in 2. position approved by the Govemment of Kerala shall not be removed or defaced. In case of any accident occasioning loss of life, or any material damage affectihg the river worthiness or 3. efficiency of the vessel, cither in the hull or in afiy part of the machinery, a report by letter, signed by the owner or master of the vesel shall be forwarded to tfie Registering Authority, Kerala within 24 hours after the happening of the accident, or as soon thereafter as possible. anhe of the owner .. ame of the Vessel..... égistråtion of the .. Boats.....Ngmber 55

FORM No. 15 [See BOOK, OF REGISTRATION Desériptiön of Inland Vessels 2 4. (a) Gross Rekistered Tonnage.....'..... (b) Net Particulars. of Vessels: (a) • Length ooerall (b) Breadth (c) Depth (d) Make (e) Year of make (f) Hull .is of wood, kteel cté. Engine:. (a) (b) (c) (d) (e) (f) Description -Number of set Made by Year of Make & Engirie No. •Surface, jet pf any other No. of •cylinder per -set RPM BHP Propulsion: Single twin screw, side, quarter of stem paddle, etc. Revolution per minute Propeller geared or direct driven Speed of vessel. '...l.....$ize, Length, Breadth, Depth, CqpaCity in' Cubiq meter (b) (c) Life Buoys, number and description B.uoyancy apparatus number and .descriptibn Ground Tackle Warps etc. Bow anchor number.....,,.....kg Kedge anchor Span-anchor number.... .....Kg Length,' descriptiön and size of each cable Warps and Hawsers number, desqription,-size, length each: 56 Number of lead&.....weights each Number of line.....lcngth each 6. 7. 8. 9. (h) (i) Fire apparatus (i) -pumps and Hose Number.....Typc..... size.....where located..... (ii) Hose (iii) Buckcts Number..... (iv) Chemical extinguishers number..... Chemical extinguishers Type..... — Chemical extinguishers Capacity..... Chemical extinguishers wherq Aocatcd..... Pump.....Bilge Hand Main Engine Indc#endent Engine Electrical number.....Type. of Generator..... Engine room crew.....:..... , Deck Passengers..... .. ... Main deck area for deck (oily) passcngcr Upper deck area for dcck (only) passenger Bridge deck area for deck (only) passenger When plying.by night on smooth and partially smooth water only ILOn a between deck if-any 2—Main deck 3—xUpper deck 4—Bridge dcck When .plying by day on smooth and partially smooth water only c When plying by day on Voyage which do not exceed six hours on smooth water only • IO

11. Two' children above' 5 years and under 12 years •of age will be reckoned .as one passenger. Encumbrance—If space measuied for passenger is encumbered by cattle, cargo or other article. then one passenger is to be deducted from the foregoing table for each. 65 dm2 of passenger area encumber when plying as' A • above 50 dm2 of passcnger. area encumber when plying as B above 40 dm2 of passenger 'area encumber when plying as C above Towing by the vesscl whilc plying with passenger ié prohibited/permitteé as follows only. Plying limits.

57. F0RM.Nö•. 16 (See Rule 21(1)] FORM OF APPEAL'. • BEFORE THE. SECRETARY TO GOVERNMENT, COASTAL SHIPPING AND iNLAND NAVIGATION DEPARTMENT .. .. .20. Namc of the Appellant vwe..... 2. 3. 4. 5. 6. 7. 81 Registering Authority passirig •thc original Order Daie of receipt •of the original Order Nature of the •order _appealcd against (specifr whether thc order is under section 19 19 N or 19 0*0f the Act).with No. and date •of the" Order. Address at which •the appellant undertakes to receive the notices. Address to which the notice may be sent to the respondent. Relief claimed in the appea•l . Grounds of Ap>cal (iil) •etc. cé: te: Appellant/Authorised representative Verification. . ...the Appellant dö hereby declare that what. is stated : a • ve is true to the best of my/our knowledge, infognation and belief. Datai the. ... . 34pDellant. (s) (Sd'.) Authbris.ed representatives if any N.B.—The appeål shall be presented in duplicate should be accompanied by two copies (at least one of which • . ld be •the _qriginal or an attested copy) of the order appealed against. 1763/2010/DTP: -58 FokM No. M [See Rule 21 (3) NOIICE OF APPEAL' Erom The Secretary to Government (Coastal Shipping & Inland Navigation Department) Government of Kerala. (Here enter the name of Registering Authority) Sir, .— Appeal against cancellation of registration •of Inla•nd Vessel. Sub, .—V. Your Order No. . Ref 2. Appeal petition filed... ..... In forwarding herewith a copy .of the, petition filed by.•.. . . I am to request you to . . ..against-youi order No. . furnish your remarks. ort' of' i % yours faithfully The Secretary to Governmerit Encl: as above

FORM 18 Rule .22.(2)] APPLICATION FOR REGISTRATION OF ALTERATIONASSUE ÖF A FRESH. CENTIFICATE OF REGISTRÆION' To The Registering Authority Sir, Sub: Ref.• 1.... being the' owner of Inland Vessel... . .....of,..... : .....(name)• bg•eröna?. ... hereby report}hat the following alterations have been Carried qut• 20.....1, therefore, apply for registering the aiterations/for the issue of a" fresh the vessel on..... certificate. I enclösc herewith a duplicate copy of treasury chalan shoving .the deposit of the necessary f.eea,.k• I also enclose herewith the original certificate of registration.- Encl: as above Signature of the Owner the Veisel. Alteratiöns: 59 FORM No. 19 [See Rule 25 MORTGAGE (TO SECURE PRmCIPAL AND INTEREST) (INDIVIDUAL OR JOINT OWNERS) Official Number Name of thc Vessel NQ. date apd place of Registry Description of the vessel (whether propelled wholly or in part by electricity, steam or other mechanical power) Horse power of Engine Hull (Length for identification.....) Equipments: Length Boats No.} No.2 Gross Registered Tonnage Breadth Number of Tonnage Depth and •as described in more det?il in the certificate of survey and book of registry. .....by (d)..... h' Net Registered Tonnage .....in consideration do hereby for of..... (e)..... that (a) . of..... , of..... .. ..the undersigned (b).....son of .... this day lent to (c)..... ..and (f)..... or (f) . •heirs, executors or adminisü•atQß covenant with thc said . .. heirs, executors, or administrators, will pay to the said.....:..... the said sum together with interest thereon at the rate of . ... per cent, per annum on the (g),:..... next ; and secondly, that if the said principal sum' is not paid on the Said day (a)..... Firstly, day ....or heirs, executors of administrators. will during as the same or any part thereof remain unpaid, pay to the . interest' on the whole or such part thereof as may for the time being remain unpaid, at the rete of .. per ccnt per annum, by equal half-yearly payments on the . . day of . and day of . . in every year; and for better securing to the said the . hereby mortgage to the re-payment in manner aforesaid of the said principal sum and inter.est (a). .... said shares of which (b) the owner in the Inland vessel above panicularly described, and in her boats, and appurtenances;. lastly, (a) for (e) and. (0.... . heirs, executors or admulistrators covenant with the said..... and his assigns that .. have power to mortgage in manner aforesaid the above mentioned shares, and that the same are free from encumbrances (i)..... .... In witness where of (a)..... .... seal this .... have here unto subscribed (f)..... ..... name .:.....,. and affixed day of . . and Executed by the above named..... In the presence of'(j) (2) (a) (b) (c) Here insert full name and address with description of the mortgager or mortgagers. me" or "us" Description of the vessel (whether' propelled . wholly or in part by electricity, steam or other mechanical power) Hull length for identification..... (d) (e) (f) (g) (h) (j) * (Space for Signature and Seal) Mortgage (By Company or Body Corporate) (to secure principal sum and •interest) . together with intcrcst thereon at the ate of ....5....,,..... per cent, per annum on the (d)..... da or (c)..... .. 60 Here insert full name and address of mortgager or mortgagee with their description in the case of individuals, {nd adding "a joint mortgagees" where such is the case. "myself' or "ourselvcs" "my" or "our" Insert the day fixed for payment of principal as above, "I am" or : "we are" If any prior encumbrances add, "save as appears by the book of registration of the said vessel" Namc, address and description of at least two Witnesses. Official Number Name of the vessel Number,date and Place of Registry Horse power of Engines Equipments : Boats No.2 No.3 Length Breadth Number of Tonnage Depth Gross Registered Tonnage . and•as deseribcd in more detail in the certificate of Survey and book of Registry we, ... in consideration of . ourselves, and our successors covenant with the ,said we or our successors, will pay to the . ... •this day lent to us by (b).....do hereby and (c)..... . Or (c)... . ... assigns the said sum Net Registered Tonnage . assigns firstly, that next; .and secondly, that of the principal sum is not paid on the said day, we or our successors will. during such time as the same or any part thereof remains unpaid, pay to the said . assigns interest on the *ole or such pan thereof as. may for the time being unpaid, at the rate of .... per cent. day of..... and dÅy of . .. . in every year; Pér annum, by equal half-yearly payrnents on the..... and for better securing the said..... the repayment in manner aforesaid of the said principal sum and interest WI.' .. share/shares of which we are the Owners in the vessel above particularl;• hereby mortgage to the said . deScribed and in her boats and appurtenances. Lastly, we for ourselves and our successors cova•lant with the said and assigns that we have power to mortgage in manner aforesaid the above mentioned shares and that the same are free from encumbrances. In witness whereof we have hercunto affixed our common seal this common seal of the .. .. was

affixed hereunto in the presence of . . day of . . and the . (description of Witnesses. Directors, (a) (b) (c) (d) (c) Secretary as the case may be) Name in full of Company together with iis principal place of business. • Full name, address and description of mortgagee. If joint mortgagees are concemed they shall be described. if the mortgagee is a Company, the full title and address shall be given. 'his", "their', "its" Inscrtthc day •fixed for payment of principal as above. If aiy prior encumbrances add, "save •as appears by the book Of registration of the said vessel." (a) by written security. 61 FORM No. 20 [See Rule 25 TRANSFER OF MORTGAGE By Individual or Joint Owners .....the within-mentiohed .....in consideration of .. . ,....son of . this day paid to(b) ., hereby transfer to (c) . In • v,'itness whereof (a) . name Day of in the presence of (e). .... the benefit of the within have here-un-to subscribed . and affixed (d) .. Scal this . and Executed by the above- named (By Company or Body Corporate) The In within-mention•ed this day •paid to it by . the benefit of the within-written security. in consideration of... hereby transfer to (c) withcss whereof we have This common seal of the . affixed to un seal our common day of . was affixed in the presence of (Signature and description of at least twö witnesses, Directors, Secretary etc. as, the case may be.) N.B.—In the case of transfer of mortgage it shall be made by endorsement in the above forms. (a) (b) (c) (d) (e) "me or us" "him", ".them" or "it" 'my" or "our" Name, address and signature of at Icast two witness. FORM No.21 [See Rule 25(3)] MEI(ORANDUM OF DISCHARGE OF MORTGAGE In case of Mortgage is paid off, a Memorandum of its Discharge one of the following forms must be used. By 'Individual•or Joint Owners Received the sum of . at.... ,.....day of .....20... • Received the sum of. ....in discharge of this within written, security, dated . .. . witness(*) By Companies or Body Corporate . ... v... ...in discharge of the within-written security. In witness wh&eof we have here-un —to affixed our common seal • this . . Day of.... . 20". .... at... The common seal of the Wof..... . was affixed with presence (Description and Signature of at least two witnesses ie ., Director, Secretary etc.) (*)The name and signature of at least two witnesses. 33/1763/2010/DTP. 62 FORM •No. .22 [See Rule] PROVISIONAL DETENTION ORDER Official' No. . ...of.... Inland . Thé vessel is hcreby provisionally detained under the power vested, Q undersigned at. ....on..... ..... :. ..of Keralä Inland Vessels Rules, 2010 issued under the Inland Vessel Act, 1917.' ihe defects are as • under rule .. annexure issued along with this Order. The Vessel is forbidden to ply in •Inland waters of Kerala till funh& orders. 'The master/owner .have been iSsued copy of this order together with annexure on.... . at.... .... OR in thff. The maste?/owner have rcfused to accept the Order and the Order is•pasted on. the vessel on..& .. Port was inspectéä by .tt& ....whose signature are appended below. presence of . Copy with a request for needful action.jo (1) The Survgyor (2) Thc Rcgistering authority (3) The Port .officer (4) The survey Authority in. Headquarters. FORM No. [See Rule 41 Signature APPLICATION FOR GRANT OF CERTIFICATE OF COMPETENCY AS SERANGCUM-DRIVER m AN MECHANICALLY PROPELLED VESSEL. WITH ENGINE OF LESS THAN 75 BHP l. 2 3. 5. 6 7. 8.. 9. 10. 11. 12

13. Date: . Name Number and -date of existing competency certificatc if any: (Certificate in original to he enclosed) Son/Wife/Daughter of Permanent address (Proof to be enclosed) Temporary address/Official .a4dress Duratior of stay at the present address Date of birth (Proof to be enclosed) Place of Birth Educational Qualification Details of Experience låenlification mark(s). Nationality Blood Group Passport size Photograph Signature or thumb impression of Applicant. ;. Application should •be accompanied with dbcumentS tp prove (2) (4) (5) Date of birth. Educational qualifications. Experience. . State of health in Fom No

33. Address.3 63 FORM No. 24 [See_Ru1e 41 (i)]. CERTFICATE OF COWETENCY AS SERANG.CUM-DRIVER TO MAN •A VESSEL WITH E»INE OF LESS TÅAN 75 h/daughter/wife of rmanen•t Address mporary .Address • te •of Birth - iht rk$ of identification Photo " . Signature or Thumb Impression :ZWhen thumb impressions are. taken they .shoüld bé those of all the five fingers of. left hand. When as it has been reported to me that .you have been found duly qualified to hilfill the duti€é •df a Serang-cum- r on an- Inland mechaniéally propelled Vessél with engine of lass. than 95 BHP. I *do hereby under the provisions or. les issued under Kerala Inland Vessels Rules, 2010 grant yeu the Certificate of as• a Serang-cum-Driver 'inland mechanic?lly propelled vessel with engine ot •less than 75 BHP. •bat - Chief GÖvernment of Kerala. 64 FORM No'. 25 [See Rule APPLICATION FOR GRANT OF CERTIFICATE OF COMPETENCY AS ENGINE DRIVER/LASCAR IN AN INLAND MECHANICALLY FROPELLED VESSEL. Passport size Photograph Name Son/wife/daughter of 2

3. Permanent address (proof to be enclosed) 4. Temporary address/Officiäl address Duration of stay at the present address 5. Date.of bigth (proof to be enclosed) 6

7. Place of Birth 8.- Educational Qualification 9. Details of. Experience IO. Identification mark(s) (l) (2) 12. tqationality •13. Blood Group Signature or thumb impression of Applicant, Date: Application should be accompanied with documents to provc: (l) (2) (3) (4) (5) Date of birth. Educational qualifications. Experience. State of health in Form No. 33 Address. No. Namc 65 FORM No. 26 [See Rule 43 (CERTIFICATE OF COMPETENCY AS ,M'ASTERJ SERANGIÄTGNEERI . ENGINE DRIVERJLASCAR OE Pcnnanent Address Temporary Address Date of Bikh Height Marks of identification (i) (2) Photograph of the certificate 'holder duly :attested by the. competent authority. . Signature QI' Thumb In-pression. éra iSsu led vessel. fop .tati• • atez "33/1 3/2010/DTP. When thumb impressions are taken they should be Chosc 'of all the five.fip•gers .•of left hand. Wfien as. it has been reported to me that _ you have beén found duly 'qualified td fulfill the duties' of a Master/ ngine Driver/Lascar on an Inland mechanically propelléd Vesseh r I 'do hereby under thc provisions of the rules ..urfdér Kerala Inland Vessels Rules, 2010 grant. you the Certificate of. competency as a First. Class]Master/Sec01id aster/Serang/Engineer/First Class Engine Driver/Secohd Class Engine Priver/LaSca! On an inland mechanically Chief Exåmina; IWO Göve*nmént of Kerala. 66 F0RM.N0. 27 [See Rule 44 APPLICATION FOR GRANT OF CERTIFICATE OF COMPEIENCY AS BOAT MAST'ERJBOAT SERANG/BCAT DRIVER/LASCAR-ffrNl AN' INLAND MECHANICALLY PROPELLED VESSEL 2. 3. A. 5. 6. 7. 8. 9. • IO. 11. 12

13. Name Number and date of existing competency.certificate (Certificate in original to be enclosed) Son/wife/daughter of Perrn?hent addass (proof to be enclosed) Temporary address/Official address Duration of stay at thc present address Date of birth (proof to be enclosed) Place of Birth Educational Qualification Details of Experience Identification mark(s) Nationality Blood Group Passport size • Photograph Signature or thumb impression of Applicant. Date: Application should be accompanied with documents to prove: (2) (4) (5) Date of birth. Educ?tional qualifications. Experience. of health in Form No. 33 Address. 67 FORM NO. 28 (See Rule 44 (ATIFICATE OF SERVICE AS BOAT MASTER/BOAT SERANG/BOAT DRIVEkn-ÄSCÅR No: Name Son/wife/daughter of Permanent Address Temporary Address . Date of birth Marks of identification (2) Photo SiUnature or Thumb Impression. —When thum> impressions are taken: they .should be those of all the five fingerSof left hand. When as It has been reported to. me that you-have been found duly qualified to fulfill the duties of a Master/ • IS? ng/Engine Driver/Lascar on an Inland mechaniöally propelled VeSse1, I do htreby under the provisions of the Keräa '*iinIRd Vessels Rules, 2010, grant you tkye Certificate of Servicc as a Mäster/Serang/Engine Driver/Lascar •on ah. inland anically propelled vessel. Chief Examiner, WT Government of Kerala. 68 FORM No. 29 tsee 45 APPLICATION FOR-GÜNT OF CERTIFICATE OF SERVICE FOR EX:ARMY/NAVY/COAST GUARD PERSONNz AS MASTER/SERANG/ENGINE DRIVEWLASCAR IN AN MECHANICALLY PROPELLED VESSEL l. 2. 3. 4. 5. 5. 7. 8. 10. • 11. 12

13. Date: Name No.. and date of. discharge certificate (Certificate in Original to be enclosed) Son/wife/dåughter of Permanent aädéess (proof to be enclosed) Temporary address/Officiål address Duration of stay at the present address Date of birth (proöf to be enclosed) Place of Birth Educational Qualification Details of Experience Identification mark(s) Nationality Blood'. Group i. Passport. sizé Photograph Signature or thumb impression of Applic4 Applicatipn should bc accompanied with documents to prove: (l) (3) (4) Date of birth. Educational qualifications. Experience. Statc of health in Fohn No

33. Address.69 FORM No. 3() [See Rule 45 CERTIFICATE OF SERVICE AS MASTERJSERANG/ENGINE DRIVERJLASCAR FOR EX-ARMY/ No. Name Son/wife/daughter of Permanent Address Tempor?ry Address • Date of Birth Height Marks Of identification NAVY/COASTGUARD PERSONNEL Passport size Photograph (2) Signature or: Thumb Impression. thumb impressions are taken they should be those of all the five fingers of left hand. When as it has been repofted tp, me that you have been found duly qualified-to fulfill the duties of a Master/ Serang/Engine Driver/Lasgar on an Inland mechanically propelled Vessel, I do hereby under the provisions of the mles. issued under Kerala Inland Vessels Rules, 2010 grant you the certificate of competency ak a First class Måster/Second class Master/ Seragg/Engineer/First class Engine Driver/Second class Engine

Driver/Lascar on an inland mechanically propelled vessel. Station: Date: 3311763/2010/DTP. Chief Examine, IWT Government of Kerala. 70 FORM No. 31 Rule 46 APPLICATION FOR GRÄ.NT OF CERflFICATE OF COMPETENCY FOR PERSONNEL HAVING CERTIFICATE ISSUED •MERCHANT ACT, 1.958 AS MASTEWSERANG/ENGNEEPJENGINE DRIVER m AN INLAND MECHANICALLY PROPELLED VESSEL 'Name l. Number and date of existing certificate 2. (Attested copy of Certificate to be enclosed) Son/Wife/Dapghter of 3. Permanent' address Oroof to be enclosed) 4. Temporary address/OTficiar- address 5. Duration of stay at the present dddres$ 6. 7. *Date of birth (Proof to be cnclbsed) Place of Birth 8. Educational Qualification 9. Details of Experience IO. Identificati09 mark(s) 11. Nationality 12. Blo# 'Group 13. Date: Passport size Photögraph Signålure or thumb impression M Applicant • Application ,sh6uld be accompanied with documents to prove the ,following; (1) (3) (4) (5) Date of birth. Educational •qualificatiops. Experience. State of health •in Form No. 33 Address. 71 FORM No. 32 [See Rule 46(4)] CERTIFICATE OF COMPETENCY AS MASTERJSERANG/ ENGINEERJENGINE DRIVER FOR PERSONNEL HAVING CERTIFICATE ISSUED UNDER MERCHANT SHIPPING ACT,. 1958 Number Name Son/wife!daughter of Permanent Address Temporary Address Date of Birth Marks of identification (2) Passport size Photograph Signature or Thumb Impression Note:—When thumb impressions are taken they should be those of all the five fingers of left hand. When as it has bccn reported to -me that you have been found duly qualified to fulfill the duties of a Masted Serang/Engine Driver on an Inland Mechanically propelled Vessel, I do here py under the provisions of the Kerala Inland Ves•sels Rules,' 2010 grant you the Certificate of Service as a First Class Master/Second CHSS Master/SerangÆngineer/ First Class Engine Driver/Second Class Engine Driver on afi inland mechanically propelled vessel. Station: Date . Chief Examine,: WT Government of Kerala.. . 72 FORM N6. 33 MEDICAL CERTIFICATE [See Rui, 34 to 41 52] (To be filled in by a registered medical Éractitioner appointed for the purpose by thc State Government or persdn . .authorized in this behalf by the State Government) 1•. Name of applicant 2 Identification Marks 3 (4) Does the appficant' to the best of your judgment suffer from any defect bf vision? If so, has it been corrected by suitable spectacle? (b) Can the applicant to thc best of your judgment readily distinguish the pigmentary colours, red and green? (c) In your opinion is he able to distinguish with his eye sight at a distance.of 25 mcters in good day light? (di In. your opinion docs the applicant suffer from 4. degree of deaffess which would prevent his hearing, the ordinary sound signals? (e) In the opinion does the applicant suffer from night blindness? Or deformity or .16se of Humber which wobld interfere with the' efficient performance of his duties as a driver? If so, give your reasoné in details: I certify-fiat I have personally examined the YeslN0 Yes/N0 Yesmo Yes/N0 Yes/N0 . • also certify that while -4 examining thc applicant I have directed spccial attention to the distant visiop and hearing ability the condition of•thé arms, •legs, head, hand joints of both extremities of the candidate and to the best of my judgmeni he is medically fit/fiot fit to hold a dri.ving licence The applicant is not' medically •fit to hold a for the following reasons:— Passport sizc Photograph Qate•

2. Signature Name and design-ation•of the Medical Officer/Practitioner (Seal) . Registration Number of Medical Officer Signature or' thumb impression of the Candidate Note:—Thc Mcdical Offwer shall affli -his .signature over the Photograph affixed in such å manner that patt of his signature is ufon the photograph and part on the certificate. 73 ANNEXURE [See 89] MAR-KmG OF THE WATERWAY Buoyage and marking of the waterway (l) Direction of buoyage Thc direction of buoyage shall be defined as follows: • (a) 'Ihe general direction taken by the mariner when approaching harbour, river or estuary or waterway from seaward. (b) In •case of non-tidal rivers the direction against the flow of the river. (c) The direction in which thc kilometer chainage increases in case of estuary. (2) Port hand Marks These marks indicate the left side of the channel. By day: Red Buoys, preferably cylindrical (CAN), or red spars. Red Cylindrical top mark is compulsory on the spars and on the buoys if they arc not cylindrical. By night: Rhythmic red lights of any type (3) Starboard hand Marks. These marks indicate the right side of the channel. 8 nyday: Green buoys; preferably coniéal, or green spars: A green conical top mark point upward is compulsory on the spars and on the buoys if they are not copical. By night : Rhythniic green lights, of any type. R -RED. •(4)..Isolated danger Marks G GREEN An isolated' danger -mark is a mark created on, or moored On, or above an isolated danger which has navigable water, all round it. Descriptioh of an isolated danger mark (a) (b) (c) Top mark: Two black spheres, one abbve the other. Colour:Älack with one or more broad horizontal red bands. Shape: Optional, but not conflicting with *lateral marks; pillar or spar

preferred. By Night: Rhythmic whitc light - group flashing. R=RED B:-.BLACK 33/1763/2010/DTP. 74 ANNEXURE Ii [See Rule 90 SIGNS AND SIGNALS (l) Day and Night marking Lights rhay bc pr6vided at night for lighting of the löwer parts ofa bridge. of the piers ora bridge, ofthcnapproaches tc a lock, ofa section of small canal etc. The lights this rules shall be visible for a distance ofat least 2 k•ns. and shall bc distinct from the surrounding lights. Fixed lights (l) Single red light "No passage" Either to some of thc channels or arrns of thc waterway, or to thc whöle of thc waterway (2) -Red light plaéed one above the other Complete and prolonged stoppage of navigation (blockage of, waterway budges or locks out of service) (3) Two or more red lights set apart (4) Single green light "No passage" the lights) DAY MARK • "GO ahead"" (the•grecn light is always placed at side of the navigable channel). use of this sigr;al shall however, be restricted to cases where a singlc green light is sufficient clearly to indipate the clear passage. In other cases the use of two green hghts set apart and indicating the passage is recommended. (5) TWO green lights set apart (6) Single yellow light, along.or between greeh lights steer "Go ahead between the Lights". "Go ahead, but look out for traffic coming the other way" Vessels may towards the light, which is placed above thc navigable channel. Proceed with caution. 75 "Do not cause wash" (7) A red light above a white light (8) Nbt exceed thc speed 'indicated (in Km /hoGr) W.- White, R -Red,G = Green, Y • (IO) Width of fairway or channel limit .B Black 76 ANNEXURE Ill • [SeeRulc91] STORM WARNING SIGNALS l. WARNING: A storm may affect you shonly Day 2. DANGER: 3. DÄNGER: expected. A storm will soon strike you The port is threatened by a bore- tidc or flash flood sudden rise in water level and strong current w w 4. GREAT DANGER: A violent storm will soon Sü•ike you 77 ANNEXURE IV SPECIFICATiON OF LIFE sAVNG APPLIANéÉS *Boats (a) All boats Shall be well designed and of such shape and• that they have. sufficient stability and freeboard when carrying théir fill]. load of persons and. equipment. With half thé maximum pemissible number of persons standing on one side of the boati their shall have a freeboard of not less than 100 rrnilli' metre. (b) All boåts shall be capable of being lowercd into the water with their full load of persons and equipment. They shell be of such strength that they will not suffer permanent deformation if subjected to an ovcrload of 25 per cent. . Life rafts Every life raft shall be fitted with éecuring beckets. (b) Every life- raft shil be sb constructed as to -compyise units cöntaining a *01ume of air of at least 0.096 m' (or equivalent buoyancy devices in the Casc of rigid life rafts) and have a deck area of tot Icast'C.372 sa.m., for every person it is permitted to carry. life raft shall bé so constructed that if it is .dropped into the W?ter frpm the highest deck neither the life raft nor its equipment will be damaged. (d) Every rigid life. raft shall be constrdcted as to retain its shape .in ail weather conditions, on deck and in the water. Life jackets - A life jackét shall satis9 the folloWing requirements: (a) It shall bc properly designed and made of suitable material: (b) It shall be cipabie of supporting a mass of 7.5 kg. in fresh water for 24 hours. (c). It shall be capable of keeping the head df an exhausted or unconscious person above water. • (d) It •shall be So designed as to eliminate .80 far as possible ail risk of its being put on incorrectly, howevcr,• it shail.be capable of bciog wom inside out. (e) .1t shali be capable of tuming ghe w+rer's •body, on •entering the water to safe floating position slightly inclined backwards from the verticai. (f) It shall Withstand the effects of oil and oil products and öf temperatures up to SOOC. (g) It shall be reflecting •orangc in, colour: (h) It shall be cay and quick to iut on, and shall fasten securely tb the -body. (i) It shall be fitted with a whistle held in a pocket. (j) . It 'hall bear ethe iype, name of manufactürer and the year of manufacturer. Mfe buoys (a) Every life buoy shall: (i) be dapable o! supporting-a mass of .14.5 kg. in fresh* water for 24 hours. (ii) be made of suitable materials And -withstand the effects. pf oil and oil. products and of temperatures cup (iii) be reflecting orange. in colour. (iv) have a mass of not less than 6.5'.kg. (v) have an intemal diameter of 0.45 metre + Or—IO per cent. (vi) be. encircled with kope which can. be grasped. (b) At least one life buoy on each side of the vessel shall be fitted with self-ignitilig light and buoyant life line which is not less than 25 meter long and which is firmly secured •by a hook. . Stowage and handling of-Life Saving Appliances (1) All',buoyant apparatus and life buoys 'hall be so' plaged as to be capable of floating the vessel (2) Süitable arrangements shall be made (or åcccss to the boats and rifts. . (3) Effective means shall be provided for lighting the life saving appliances and their launching devices. (4) The launching devices provided .(or boats• shall bC so 'designed and arranged that the boats can be lowered .reli4bly, quickly and without danger to persons. (5) -The launching devices, daiits,• falls, , blocks' and other gea; shali be of #uch strength that the boats can be safely lowered on either side in unfavorable conditions of list or trim. (6) Life saving appliances shåll be .so stoWed that they are easily.accessible and can be jaunched as quickly as

possi.ble. 33/1763/2010/DTP. 78 SCHEDULE I (See Rule 26) TABLE OF SURVEY FEES For.an Inland mechanically propelled vessel of. wbich the gross registered tonnage Does not exceed IO Tonnes No. (1) 2 3 4 5 6 7 8 9 -10 Exceed Exceed Exéeed Exceed Exceed Exceed Exceed Exceed Excecd IO 30 50 75 100 •1 50 300 600 tonnes but does not exceed 20 •ton-nes but does tonnes but does tonnes but does tonnes but does tonnes but does tonnes but does tonnes .but docs not exceed not exceed' not exceed not exceed not exceed not eicecd not exceed 20 tonnés 30 tonnes 50 tonnes tonnes 100 tonnes 150 tonnes 300 tonnes 600 tonnes tonnes and above Fees Payable by the owner to the Govt. of Kerala (Rule 27) (3) 500 750 1000 1 goo 2000 2500 3000 5000 8000 • 12000 For Special Inspection i.e. first inspection of vessel and inspection coÅducted after expiry of the validity of its! certificate issued for a-vessel, double the rate prescribed above. SCHEDIÆE 11. (See Rule 26) TABLE OF REGISTRATION FEES l. 2. 3. 4. 5. 6

7. On initial registration the scale of fees p;yable will be For registering any vessel which has been registered under the Merchant' Shippipg Act, 1958 as amended by any subsequent enactment Registration of any ålteration t') a Vessel Issue of a duplicate certificåte• Registration as a result of transfer of registry from any other State Registration as a result of' &ansfer of ownership within the same State Appeal against the decision of the Registering authority @ Rs.IO per ton subject toa minimum of RS.' 50 Rs. 5 per ton subject to.a minimum of Ri. •50 @ Rs. 5.per ton subfrct•to a minimuffi of RS. 50 Half the rate indicated in (l) above .Half the rate indicated in above The same rate indicated' in (l) (Not refundable) above. 79 SCHEDULE 111 (See Rule 50) FEE FOR EXAMINATION Engine Driver and Lascar Certificates Rs. 150 Rs. 100 Rs. 100 .4 Rs. 300 Rs. 200 Rs. 200 Rs. 100 Rs. 200 Rs. IOO Rs. 100 Rs. 100 Rs. 50 Rs. 100 Rs. 100 Rs. 100 Rs. SO Rs. Rs. 100 Rs. 100 Rs-. 100 e for examination of a Master, Serang, (l) Master (ISt class/2t'd class) (2) Serang (3) EngineerÆngine Driver (4) Läscat . for certificate of competency (l) Master (1" class/2nd class) (2) Serani (3) EngineerÆngine Driver (4) Lascar (5) Serang-cuméDrivcr Rs. 50 for certificate of•competency without examination (Rulc 47) (i) Master (I't class,'20d class) (2) Serang (3.) EngineerÆn'gine Driver (4) Lascar for -Certificate of service • (l) Master ('I 't class/2"d class) (2) Serang (3) Engineer/Engine Driver (4) Lascar -for renewal of certificates (1) Master (ISt class/2Rd class) '(2) Serang (3) EngineerÆngine Driver (4) Lascar (5) Serang-cum-Driver Pétalty for delay in renewing certificates For delay of. every three months • By order-of the Govemor, . L. RADHAKRISHNAN, Principal Secretmy to Government. 80 Explanatory Note (This does not form part of the notification, but is intended to indicate its general purport.) The Inland Vessels Act, 1917 (Central Act I of 1917), enacted mainly for .the consolidation of the enactments relating ito -Inland Vessels. This-Act seeks tö provide for (a) the survey of inland G)echånically propelled vessels, (b) registration of such vessels, (c) credentials for masters an d enéineers, (d) investigation into casualities,' (e) protectiDn of passengers, (f) insurqnce of inland vessels ctc. Many provisions of the Act gives the State Government a wide range of powers to make rules mainly with respect to survey and Registration, inland vessels crew, irant*0f certificates of competency, fire fighting equipments, life saving appliances, construction of inland vessels and top of it all on safety measures on waterways of inland vessels. The laws in force regulating the mechanically propelled vcssels in the State not adequate to meet the present dåy demands. Further there is specific direction in the common order of the Hon'ble dated 18-1-2010 in wp (C) s No. 6040/07, and 2818/09 urging the state to frame a comprehensive Rules touching 'the stibject of inland vessels within the time limit. Government has therefore, decided to make a comprehensive Rules invoEi.n•g the powers conferred by section 19 (i), 19 R, 29 (l), 30 A, 52 (1), 53 (l), S4 (1), 54 (b) and 67 (1) of the said Act för the proper and effective implementation of the of the Act. The Notification is intended to achieve the above object. PRINTED'AND PUBLISHED BY THE SUPERINTENDENT OF GOVERNMENT PRESSES AT THE GOVERNMENT CENTRAL PRÉSS, THIRUVANANTHAPURAM. 2010.