



भारत सरकार

GOVERNMENT OF INDIA

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MINISTRY OF SHIPPING

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~~Training Circular No.22 of 2004~~

Sub: Ship in campus in lieu of afloat training in training institute

One of the important segments for training of seafarer in general and engineering training in particular during pre-sea training phase is detailed exposure to ships working. This afloat training (on board ships training) is training in real environment which is being done on a sea going vessel in operation. However, with improvement in technology and reduced manning on ships today, the chances of ship board training are getting lesser and lesser and as such, it is necessary to find alternate and effective way of giving afloat training. The Directorate has been considering this matter for quite some time and has come out with solution in a concept called 'ship in campus'.

'Ship in campus' has been mentioned in B.6.2.4 in Training Circular No. 1 of 2004. This is an alternate to "on board ship training" for marine machinery maintenance and repair and shall have "Simulated structured ship" in the campus itself with an operational engine along with other engine room installation replicating an engine room of a modern sea going cargo vessel.

Since the concept is new, it is of utmost importance that the training institute who wants to have 'ship in campus' should draw specifications for

ship including equipments and materials, prepare layouts, drawing machinery and equipments and structure the same according to suitable standard designs.

The Directorate has been in dialogue with Department of Ocean Engineering and Naval Architecture, Indian Institute of Technology (IIT), Kharagpur. They are willing to assist any training institute to design, advise specifications and supervise installation of such 'ship in campus' at marine engineering training institutions.

IIT, Kharagpur is a premier institute doing pioneer and innovative work in the field of marine engineering and naval architecture. Therefore, the Directorate has approved IIT, Kharagpur to provide services to training institutes for planning and execution of 'ship in campus'. The exact scope and charges will have to be finalized by training institutes with IIT, Kharagpur and Directorate will have no role in it. Similarly, any ~~dispute in this regard will also have to be settled between the concerned parties.~~

All training institutes are advised to consider having 'ship in campus' as alternate to on board training / workshop training. Preference for new proposals for 1 year GME / 2 years DME / 4 years Marine Engineering courses will be given to institute who agree to have 'ship in campus' and signs MoU with IIT, Kharagpur. Alternatively they will have to give concrete proof for suitable tie up with ship repair workshop for practical training on marine machinery and equipment.

In case of 'ship in campus', after signing MoU with IIT, Kharagpur, training institutes shall have 24 months to structure such 'ship in campus' and in the meantime, approval for such courses will be considered favorably by the Directorate. It is also clarified that after satisfactory installation and completion of 'ship in campus' and due certification of IIT, Kharagpur, no further approval will be required for afloat training from the Directorate separately.

Marine Engineers Trainees of Institutes who have adopted the "Ship-in-campus" programme in addition to "The Mandatory Engine Room Simulator" training already prescribed (and can be done by trainees in any approved Maritime Training Institute for "Engine Stimulator Training") would be given a period of relief from qualifying 'Sea Service', required

## ANNEX-A

The Ship-in-Campus essentially consists of a two-phase development to be completed within a period of 24 months, so that the 2nd and 3rd year students can be imparted proper training on machinery control and equipment. The equipment for Phase - I and Phase- II are as given below:-

### Phase - I:

#### Equipment for Ship-in-Campus Laboratory

Main Engine > 1500kW rated power – 2 stroke slow speed or  
or more 4 stroke medium speed with gear box

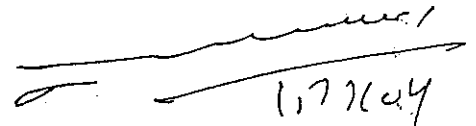
#### Engine mounted Accessories:

Bed Plate and Main bearing	1 set
Turbo charger	1 sets
Scavenge Air System for Turbocharger	1 set
Scavenge Air Cooler	1 set
Electric Turning Gear	1 set
Eng. Mounted fuel pumps with high pressure pipes	1 set
Cylinder lubricator	1 set
Governor	1 no.
Auxiliary Blowers	2 no.
Engine Control Stand and Control Console	1 set
Shafting and Propeller:	
Intermediate Shaft	1 no.
Propeller Shaft	1 no.
Stern Tube on the simulated aft peak bulkhead	1 no.
Propeller	not reqd.
Thrust Block	1 no.
Shaft Bearings	as reqd.
Composite Boiler / Auxiliary Boiler	1 no.
Auxiliary AC power gen. sets and diesel Engines with their auxiliaries	2 sets
Main Air Compressor	1 set
Emergency Air Compressor	1 set
Main Air Receiver	1 set
Control Air Receiver	1 set
Emergency Air Receiver	1 set
LO Pumps for ME (screw type)	1 set
LO Purifier	1 set
LO Cooler	1 set
LO Heater	1 set
HFO Transfer Pump	1 set
HFO Booster Pump	1 set
FO Purifier	1 set
FO Heater	1 set
FO Heater for Purifier	1 set

for appearing in the Class IV MEO Part 'B' examination upto a period of maximum of 30 days.

The list of general equipments which shall be needed in 'ship in campus' is attached as Annex. A.

This issues with the approval of Director General of Shipping and ex.officio Additional Secretary to the Govt. of India.



(Naresh Salecha)

Sr.Dy.Director General of Shipping

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Encl. As above.

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To

1. All Training Institutes
2. All Academic Councils
3. NA
4. CS
5. Guard File
6. Computer Cell
7. PS to DG for DG's kind information