

FIELD ASSISTANT SYLLABUS

PORT DEPARTMENT (HYDROGRAPHIC SURVEY BRANCH)(CATEGORY NO.464/2009)

1.BASIC SURVEY:Definition of survey,principle of survey,different types of survey,object of survey,scale of survey

2.COMPASS/CHAIN/PLANE TABLE SURVEY:Different types of chains,Ranging,chain surveying,reconnaissance,compass surveying,different types of compass,bearing,reduced bearing,whole circle bearing,fore and back bearing,plane table surveying,methods of plane tabling

3.THEODOLITE SURVEYING:Parts of a Theodolite,leveling of Theodolite,measurement of angles,open and closed traverse.

4.LEVELLING:Different types of levelling instruments,bench mark,back sight,fore sight and intermediate sight,leveling staff,adjustments of level,contouring

5.TIDE:Formation of tide,tidal forces,kinds of tides,tide pole,tide measurement,tidal graph

6.HYDROGRAPHIC SURVEY:Definition of Hydrographic Survey,duties of Hydrographic Surveyor,sounding,datum,datum transfer,Instruments used for Hydrographic Survey,horizontal and vertical controls,use of sextant in Hydrographic Survey,Methods of locating soundings,plotting of soundings,coast lining

7.COMPUTATION OF VOLUME:

Dredging,quantity of dredged material or quantity to be dredged,formula for volume calculation

8.DRAFTSMANSHIP:Plotting of sounding,preparation of rough and fair charts,style of lettering in charts,inking of soundings

9.GEODESY:Figure of earth,Latitude,longitude,spheroid,nautical mile,projections,grid

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10.MODERN SURVEY INSTRUMENTS:Total station,GPS,DGPS,use of GPS and DGPS in Hydrographic Surveying.

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