

COSTS FOR FIELD INSPECTIONS AND WORK SUPERVISION IN THE HYDROGRAPHIC AND OCEANOGRAPHIC SERVICE OF THE NAVY 2021

A.- INFORMATION

- 1.- According to what it is established in the Supreme Decree No. 192, dated 16 of April of 1969 and amended by Supreme Decree No. 784, dated August 14 of 1985, which approves the Organic Regulation of the Hydrographic and Oceanographic Service of the Navy, in its point 4.-9), SHOA will have the responsibility "to control, to check and to approve all hydrographic survey and maritime cartography work, fluvial or lacustrine, that for purposes of port works, maritime concessions or other aims are conducted for special circumstances, prior authorization from the Hydrographic and Oceanographic Service, by governmental, semigovernmental, autonomous, municipal or private entities. The Hydrographic and Oceanographic Service will be able to appoint a supervisor in order for him to inspect the faithful performance of the procedures, instructions and basic precision requirements established by such agencies, having the entities or private people conducting the work, to assume all the expenses arising from sending this supervisor".
- 2.- Therefore firms or private people conducting the works that require inspection will be responsible for all the expenses of sending staff from SHOA. Within these expenses are included, by way of example and not intending to be categorical on the list:
 - a.- Relocation or fares to attend the area to be inspected.
 - b.- Accommodation and food expenses for each staff member.
 - c.- Daily cost of one or more staff conducting the inspection.
- 3.- Furthermore, work supervision at SHOA will also represent a cost for the firm conducting the work, according to what is to be supervised.
- 4.- In addition, according to what it is established in the Organic Regulation of the Hydrographic and Oceanographic Service of the Navy, in its point 44, the incomes SHOA receives "will include, among others, the result of works or studies conducted by the Hydrographic and Oceanographic Service of the Navy at the request of governmental, semigovernmental, autonomous, municipal entities or private people, as well as by the sale of nautical charts and other publications".
- 5.- By virtue of the foregoing, firms or private people who require data and hydrographic and oceanographic information gathered at this Service should pay for the cost SHOA assigns to its products and services.

B.- GENERAL CONSIDERATIONS

- 1.- About field Inspections:
 - a.- The unit of measurement to determine the cost of each inspection will be MD (man-day), taking into account the daily remuneration SHOA assigns to each employee, which amounts to 1,50 UF + IVA.
 - b.- It will always be charged full day, regardless of whether the inspection is made at a fraction of the day, rounding up to the nearest whole number.
 - c.- The period it takes to go from SHOA to the area to be inspected and vice versa, will be included in the time of the inspection.
 - d.- The trip to the area of inspection will be by airplane from the Coquimbo Region to the North and from the Biobío Region to the South, both regions inclusive.
 - e.- At the time of delivery of the research background for its supervision, the payment receipt of the inspection carried out during the field work must be presented as a prior requirement for the reception of the technical report in SHOA's offices.

2.- Price Table Revisions:

		WORK	PRICE
Supervision of Bathymetries with hydrographic value	Tides Stage		4,0 UF.
	Geodesic Stage		3,0 UF.
	Bathymetry Stage		0,50 UF the sounded ha.
Supervision of Verification Bathymetry	Tides Stage		4,0 UF.
	Geodesic Stage		3,0 UF.
	Bathymetry Stage		N° ha x (0,50 UF x N° lines/21)
Supervision of Beach Lines	Geodesy Stage		The costs for the first Km of surveyed coastal line, is 1,5 UF. For each additional Km, the cost is 0,75 UF.
	Aerophotogrametry Stage		0,03 UF for ha.
Supervision of Coastline Map	Geodesic Stage		((0,75 UF x quantity of maps) + 1,5 UF)
	Digital Files Stage		((1,5 UF x quantity of maps) + 1,5 UF)
	Cartographical Stage		((3,0 UF x quantity of maps) + 1,5 UF)
	Aerophotogrametry Stage		((3,0 UF x quantity of maps) + 1,5 UF)
	Oceanography Stage		4,0 UF.
Supervision of Oceanographic	Tides		4,0 UF for each of the installed instruments.
	Sediments		4,0 UF for each of the methodologies applied during the survey (conventional or alternative, the application of the latter must be previously approved by SHOA).
	Winds		4,0 UF for each of the installed weather station.
	Waves	Local waves	2.00 UF for each of the installed instruments and each of the seasonal measurements (winter and summer) that must be conducted.
		Wave climate	4,0 UF.
	Currents		4.00 UF for each of the installed instruments and each of the seasonal measurements (winter and summer) that must be conducted, so much for conventional or alternative methodologies (the latter must be previously approved by SHOA).
NOTE:			
- All values given are net and for purposes of collection values must be added the I.V.A.			
- All review instances have a fixed cost of 1.0 UF, which must be added to the values indicated according to the type of work performed.			

C.- INSPECTION AND SUPERVISION OF BATHYMETRY WITH HYDROGRAPHIC VALUE OR OF VERIFICATION

1.- Inspection:

- a.- It will be carried out by at least two professionals, one from the hydrography area and the other from the oceanography area.
- b.- When using echo sounding, by rule it will last one work day, plus the time it takes for inspectors to move from one place to another. In case echo sounder is NOT used, all other alternative methodology, such as: bathymetry with extended bar system, should be consulted at SHOA, with the purpose of analyzing case by case the situations, for these alternative sounding methods the inspection will last the time it requires the full work.
- c.- An additional extension to the scheduled days will be authorized only when the weather conditions prevent the inspection from being carried out, which will not exceed more than one business day. The failure of equipment and problems of procedures and operation, will not be grounds for extension. If it is not yet possible to carry out the inspection, they will return to SHOA and in coordination with the firm conducting the work, it will be fixed a new inspection date.
- d.- This new inspection will be considered, for payment purposes, as a second inspection.

2.- Supervision:

It will include Oceanography, Geodesy and Bathymetry stages.

D.- INSPECTION AND SUPERVISION OF BEACH LINES

1.- Inspection:

- a.- "IN SITU" modality will be carried out by a professional, prior coordination with the Maritime Authority, the firm conducting the work and this Service.
- b.- The inspection after the date determined by the firm conducting the work will require two professionals.
- c.- By rule the "IN SITU" inspection will last one day of work, duration in posterior modality will be estimated case by case, influencing elements such as line length and topographic features of the land. In both cases you must add the time it takes for the inspector to move from one place to another.
- d.- An additional extension to the scheduled days will be authorized only when the weather conditions prevent the inspection from being carried out, which will not exceed more than one business day. The failure of equipment and problems of procedures and operation, will not be grounds for extension. If it is not yet possible to carry out the inspection, they will return to SHOA and in coordination with the firm conducting the work, it will be fixed a new inspection date.
- e.- This new inspection will be considered, for payment purposes, as a second inspection.

2.- Supervision:

It will include Geodesy stage and when aerial photographs are used, Aerophotogrammetry.

E.- INSPECTION AND SUPERVISION OF COASTLINE MAP

1.- Inspection:

- a.- It will be carried out by at least two professionals.
- b.- It will be divided in two stages. The first one will have as purpose to inspect the instruments and methodologies applied to geodetic measurements. In the second stage, subsequent to the delivery of the work to be supervised for this Service, inspectors will contrast the planes with the reality of the land.
- c.- By rule the first stage will last $\frac{1}{4}$ of a day for each plane to be surveyed and the second stage $\frac{1}{2}$ day for each one of them, plus the time it takes for the inspector to move from one place to another.
- d.- An additional extension to the scheduled days will be authorized only when the weather conditions prevent the inspection from being carried out, which will not exceed more than one business day. The failure of equipment and problems of procedures and operation, will not be grounds for extension. If it is not yet possible to carry out the inspection, they will return to SHOA and in coordination with the firm conducting the work, it will be fixed a new inspection date.
- e.- This new inspection will be considered, for payment purposes, as a second inspection.

2.- Supervision:

It will include Geodesy and Aerophotogrammetry Stages. The Oceanographic stage will be included when the coastline planes have tidal observations within the objectives of the study.

F.- INSPECTION AND SUPERVISION OF OCEANOGRAPHIC WORKS

1.- Inspection:

- a.- It will be carried out by a professional of the oceanographic area.
- b.- In special circumstances, conditioned by the spatial coverage of the works or the type of instruments used, a second inspector will be appointed, which will be informed to the firm at the proper time.
- c.- By rule it will last one day of work, plus the time it takes to move him or the inspectors from one place to another.
- d.- An additional extension to the scheduled days will be authorized only when the weather conditions prevent the inspection from being carried out, which will not exceed more than one business day. The failure of equipment and problems of procedures and operation, will not be grounds for extension. If it is not yet possible to carry out the inspection, they will return to SHOA and in coordination with the firm conducting the work, it will be fixed a new inspection date.
- e.- This new inspection will be considered for payment purposes, as a second inspection.

2.- Supervision:

It will be conformed, normally, by the Tide, Currents (Summer and Winter Seasons), Sediments, Wind and Waves (Local waves, Summer and Winter Seasons and Wave Climate). For the Tide, Currents, Wind and Waves stages, each recording instrument, measurement season and/or methodology application, must be considered individually for payment purposes. The incorporation of other stages will depend of the proposed objectives in the oceanographic survey.

G.- SALE OF BATHYMETRIC INFORMATION

The bathymetric information for sale corresponds to the one available at the moment of request. This has been obtained by SHOA in hydrographical surveys.