



80 2103 ECB-SEA_ALSUB BRASIL

**(PETROBRAS – CONSÓRCIO ECB-
SEA_ALSUB)**

**DESCOMISSIONAMENTO DAS
LINHAS FLEXÍVEIS DAS
ÁREAS DOS “ALMOXARIFADOS
SUBMARINOS” DA BACIA
DE CAMPOS**

**BACIA DE CAMPOS-CABIUNAS -
MACAE'-RJ (BRAZIL)**

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CAMPOS-CABIUNAS -MACAE'-RJ (BRAZIL)**

1 General project Overview and Reference

Removal, processing and disposal of Flexible Lines located in Corvina, Pargo A&B and Garoupinha areas, in an environmentally appropriate manner by hiring a specialized Company to provide services of the EPRD type (Engineering, preparation, removal and disposal of submarine waste).

Relevant Quantities: Collection of Flexible Pipes/lines

Diameter up to 4" - 263,944.71 m

Diameter from 4" to 6" - 210,758.24 m

Diameter from 8" to 10" - 81,700.57 m

Diameter from 11" to 14" - 15,176, 77 m –

Umbilical collection: 322,059.86 m

Client: PETROBRAS

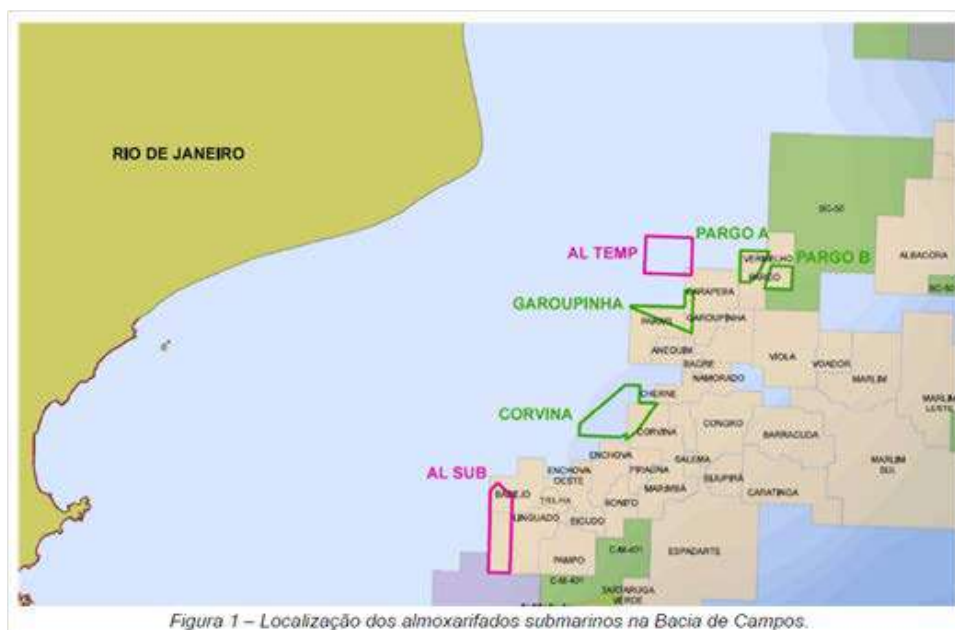


Figura 1 – Localização dos almoxarifados submarinos na Bacia de Campos.

Figure 1: Location Map

2 Scope of work

The Management of the ECB-SEA_ALSUB Consorcio (of which SEA is part) visited Biopetro, a Company that deals with the disposal of hoses that are recovered from on board in the ASub Decommissioning project.

SEA at the B-Port base of the ASub project at the Port of Açú is implementing the recovery, treatment and disposal operations of scheduled lines.

- from the CORVINA area
- from the GAROUPINHA area
- from PARGO A/B area

ALMOXARIFADO SUBMARINO	TIPOLOGIA DE ESTRUTURAS ARMAZENADAS	ÁREA (KM ²)*	DISTÂNCIA PARA A COSTA (KM)*
Corvina	Linhas Flexíveis	134	65
Pargo A e B	Linhas Flexíveis	69	65
Garoupinha	Linhas Flexíveis	55	50

Table 1: Flexible lines Areas

ALMOXARIFADO SUBMARINO	QUANTIDADE DE TRAMOS	COMPRIMENTO ESTIMADO (m)	PESO ESTIMADO (t)
Corvina	483	376.014,92	18.428,27
Pargo A e B	76	93.913,54	5.930,24
Garoupinha	558	513.873,87	31.298,36
TOTAL	1117	983.820,33	55.656,87

Table 2: Flexible lines quantities

The Company CONSÓRCIO ECB-SEA_ALSUB contracted SEA BRASIL Serviços SUBMARINOS (SEA Brasil) for the support vessel supply for survey services, vessel equipped with underwater pipeline unearthing equipment, which will be used for the collection, processing and final disposal of flexible



lines and anchoring systems in the "Submarine Warehouses" areas of the Campos Basin, in the State of Rio de Janeiro (RJ) / Brazil.

The Company CONSÓRCIO ECB-SEA_ALSUB requested SEA Brasil for the provision of the following items:

- MV DP2 "ISKATEL-2" VESSEL
- DEVICE TO UNEARTH AND RECOVER FLEXIBLE PIPES/LINES

PROJECT STILL IN PROGRESS !!

3 Photos at worksite



Reel Drive System (RDS) at B-Port base in Açu Port



Cables/pipes/hoses pieces recovered



Storage of Cable/pipes/hoses pieces recovered.



Cleaning station



Treatment Effluent Station