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Aquatic Diving & Marine Services Company

Ref No: ADMSC/MPT-31/10-15/62

Date: 15/10/2015

To,
The Deputy Conservator
Marine department
Mormugao Port Trust
Headland, Sada, Goa.

FX. TOWER
OPP. M.P.T. INSTITUTE
SWATANTRA PATH,
VASCO-DA-GAMA,
GOA - 403 802.

Dear Sir,

SUB :- UNDERWATER INSPECTION OF SUNKEN VESSELS WRECKAGES AT INNER ANCHORAGE, MORMUGAO HARBOUR GOA.

As per instruction of your goodself we had carried out underwater inspection of wreckage of sunken vessel Mariner IV and 03 deep sea fishing boats inside harbor at inner anchorage Mormugao Harbour Goa from 07th Oct. , 08th Oct. and 09th Oct. 2015. The detailed report is as follows :

Location	Near GSL, Inner Anchorage , Mormugao Harbour , Goa.
Latitude / Longitude	15° 24'.90 N / 73° 24'.17 E
Water Depth	06.80 mtrs on 07-10-2015 at 1100 hrs.
Wreck vertical height	06.00 mtrs. maximum
Total area of wrecks	100mtrs X 75 mtrs approximately.
Sea bed condition	Mainly sandy area with small rocks , silt deposit noticed from 5cm. to 15 cm in some places .

Observation :

Divers inspected the wreckages area and noticed that there are 04 nos. of vessel and sunken all together .The plates wreck are scattered and resting on each other . The wrecks are seems to be approx. 20 years old in the vicinity.

- 1) The first vessel identified as deep sea fishing boat MS built size of the vessel was length 18 mtrs approx. , breadth 10 mtrs. approx. and vertical height of the boat was from 4.5 mtrs to 06 mtrs. The vessel was resting on sandy seabed with silt deposit approx. 5 cm to 15 cm in some places. The boat plates were in irregular shape, bad condition and totally thinned down in some places due to oxidization / rust. It is also noticed that the plates are also removed by underwater cutting and blasting in many places and the plates are scattered around. The Aft portion of the boat seems to be shattered and propellers were missing . Some loose plates/ angels were fallen in the aft area. Old ropes and fishing nets were also noticed on the sea bed area . Marine growth are noticed all around the fishing boat.
- 2) The second vessel identified as deep sea fishing boat MS built size of the vessel was approx. 12 mtrs in length , breadth 07 mtrs. approx. and vertical height of the boat was from 4.8 mtrs to 5.5 mtrs. The vessel was resting on sandy seabed with silt deposit approx. 5 cm to 10 cm in some places. The boat plates were in irregular shape, bad condition and totally thinned down in some

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places due to oxidization / rust. It is also noticed that the plates are also removed by underwater cutting and blasting in many places and the plates are scattered . Many plates of the aft area were missing specially the propeller area .Loose plates/ angels were fallen around the boat area . Old ropes and fishing nets were also noticed on the vessel and sea bed area . Marine growth are noticed all around the fishing boat .

- 3) The third vessel identified as cargo vessel MS built size of the vessel was found approx. 32 mtrs in length , breadth 10 mtrs. approx. and vertical height of the boat was from 4.8 mtrs to 6.0 mtrs. The vessel was resting on sandy seabed with silt deposit approx. 5 cm to 10 cm in some places. The boat plates were in irregular shape, bad condition and thinned down in some places due to oxidization / rust . It is also noticed that the plates are also removed by underwater cutting and blasting in many places and the plates are scattered all around . Bollards were also noticed on the running deck area and FWD winch gears were also noticed. Many plates of the running deck , side shell along with propeller were missing . Loose plates/ angels and I beams etc. were fallen and scattered around the vessel . Marine growth are noticed all around the vessel .
- 4) The fourth vessel seem to be MS built and capsized , divers noticed a MS derrick pipe 21 mtrs in length and 1 mtrs in dia with d shackles welded on it . The pipe was resting 2mtrs above the sea bed on the capsized fishing boat wreck . A ship side of a fishing boat wreck was visible below the pipe. Many loose plates and angels of irregular shapes were visible around the wreck area and partially buried in the sea bed upto 10 cm . Marine growth are noticed all around the wreck area .

Suggestion : The wreckages of the sunken vessel can be removed only by underwater cutting and floating crane barge to lift it .

A rough sketch of wrecks has also been attached for your reference.

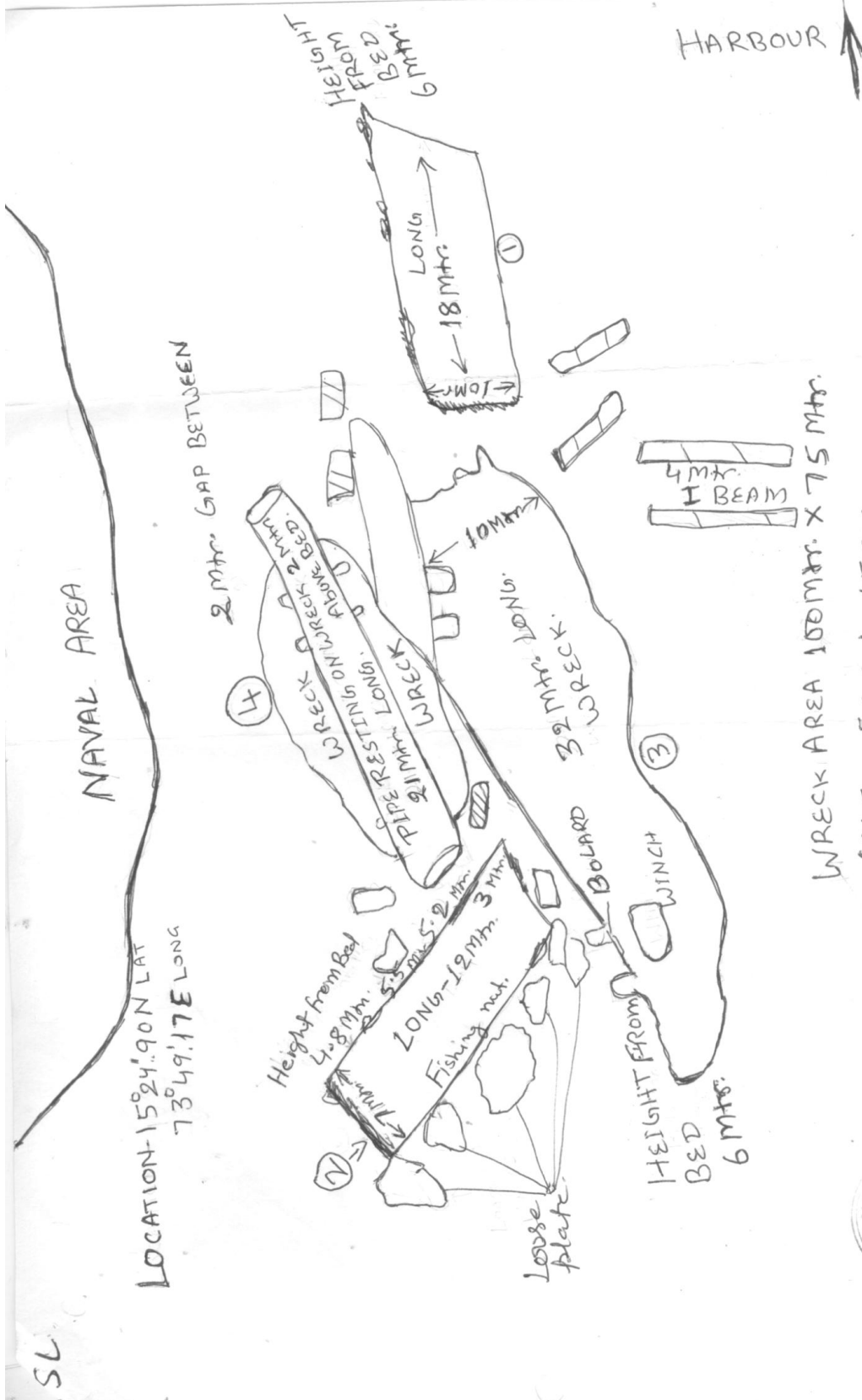
Thanking you and assuring our best services at all times.

Yours faithfully,
For Aquatic Diving & Marine Services Co.

(A. K. RAI)



Enclosed : Sketch of wreck



LOCATION-15°24'.90" N LAT
73°49'.17" E LONG

WRECK AREA 100 Mtr. X 75 Mtr.
SILT - 5 CM TO 15 CM.
HEIGHT FROM SEA BED 6 Mtr.
WATER LEVEL ON 7 OCT. 2015
6.8 Mtr.
AT - 11:00 AM.



SL