Input paper: [[1]](#footnote-1) ENG4-28

Input paper for the following Committee(s): check as appropriate Purpose of paper:

**□** ARM **X** ENG **□** PAP **□** Input

**□** ENAV **□** VTS **X** Information

Agenda item [[2]](#footnote-2) 10

Technical Domain / Task Number 2 TD#2

Author(s) / Submitter(s) Dr. Ju-Seop Han / Korea Association of Aids to Navigation

Sea Test of Plastic Buoys (Polyethylene, Polyurea foam, Steel)

In order to analyze the advantages and dis advantages of the buoy type and derive improvement, Ministry of Oceans and Fisheries (PYEONGTAEK Regional Office of Oceans and Fisheries) and KAAN have been jointly test.

- Test location : Pyeongtaek-Dangjin Port(Nearby Bangdo) in Korea

- Test period : Feb. 2016. ~ Feb. 2018

- Test Samples: 5(Polyethylene 3, Polyureafoam 1, Steel 1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Body** | **diameter(㎜)** | **height(㎜)** | **draft(㎜)** | **weight(kg)** | **color** | **install date** | **quantity** |
| PE(JET-7000) | 2,600 | 8,789 | 2,996 | 2,085 | R | ‘16.2.19 | 2 |
| PE(PB-26) | 2,600 | 10,513 | 4,469 | 3,539 | R | ‘16.2.19 | 1 |
| Poly Urea Foam | 2,800 | 6,900 | 4,600 | 4,923 | WB | ‘16.3.18 | 1 |
| Steel(LL-26(M)) | 2,600 | 9,400 | 4,100 | 5,982 | R | ‘16.2.19 | 1 |



1. Photograph of Sea Test (installed buoys)

We will submit data of analysis for the variation of characteristics (body color changes, state structures, crack state, pitch etc.) in the field at next meeting (ENG-5).

1. Input document number, to be assigned by the Committee Secretary [↑](#footnote-ref-1)
2. Leave open if uncertain [↑](#footnote-ref-2)