**ESD items Questionnaire**

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| General Information | | Date (DD/MM/YYYY): |  |
| Company name: |  | Contact Name: |  |
| Address: |  | Position: |  |
| Country: |  | Phone: |  |

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| Project Information | | | |
| Vessel Name: |  | Vessel DWT |  |
| IMO Number |  | Vessel Flag |  |
| Vessel Type |  | Sailing Area |  |
| Class Society: |  | | |

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| Required Drawing List – Hull fin & Rudder Bulb | |
| 1. GA(General Arrangement) | ☐ Yes ☐ No if yes, please send. |
| 2. Lines & Off-set (incl CAD File)  -3D Drawing File (igs, stp)  -2D Drawing File (dxf) | ☐ Yes ☐ No if yes, please send. |
| 3. Aft-end Construction Drawing or  Stern Construction Drawing | ☐ Yes ☐ No if yes, please send. |
| 4. Engine Room D/BTM Construction DWG | ☐ Yes ☐ No if yes, please send. |
| 5. Aft Hold D/BTM Construction DWG  Rudder, Rudder Stock & Rudder Carrier | ☐ Yes ☐ No if yes, please send. |
| 6. Rudder, Rudder Stock & Rudder Carrier | ☐ Yes ☐ No if yes, please send. |
| 7 Shafting Arrangement & Shafting Plan  -incl. propeller cap | ☐ Yes ☐ No if yes, please send. |
| 8. Propeller Drawing  -diameter, section, camber, skew, rake, pitch  - incl. propeller hub | ☐ Yes ☐ No if yes, please send. |

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| Required Drawing List – Propeller Boss cap | |
| 1. GA(General Arrangement) | ☐ Yes ☐ No if yes, please send. |
| 2. Shafting Arrangement & Shafting Plan  -incl. propeller cap | ☐ Yes ☐ No if yes, please send. |
| 3. Propeller Drawing  - diameter, section, camber, skew, rake, pitch  - incl. propeller hub | ☐ Yes ☐ No if yes, please send. |
| 4. Rudder Construction Drawing | ☐ Yes ☐ No if yes, please send. |

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| Additional Data:(Customize) | |
| 1.Reasons for installing ESD ITEM on target vessel.  Ex) Fuel savings, improved fuel efficiency, etc. |  |
| 2. Among the ESD items, which detailed technology do you want to apply?  Ex) Hull Fin, R/Bulb, Propeller Cap or PBCF, Others |  |
| 3. Is there a target efficiency aimed at through ESD items?  Ex) 3%, 5%, 8% or more |  |
| 4. What scope do you wish to receive through Techcross Engineering?  Ex) Detail fabrication dwg, Sea trial report, Performance report,  CII grade evidence report |  |
| 5. What is the repair shipyard and planning schedule for ESD installation? |  |
| 6. Is it possible to share the biggest problems that arise with the target vessel?  Ex) Excessive hull vibration, structural continuity, ship built long time ago, etc. |  |

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| Remark (Please write what you would like to request technically or in configuring the ESD system) |
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텍스트, 스크린샷, 인간의 얼굴이(가) 표시된 사진

자동 생성된 설명

텍스트, 스크린샷, 디자인이(가) 표시된 사진

자동 생성된 설명

텍스트, 스크린샷이(가) 표시된 사진

자동 생성된 설명