**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 DWGRudder, 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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