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**APPLICATION FOR A LEASE/LICENCE/CONSENT UNDER THE FORESHORE ACT  
1933 (AS AMENDED)**

- Applications for Offshore renewable energy (ORE) projects should use an ORE specific form.
- Please complete the form electronically. Type details in the boxes provided, space will expand as you type.
- The enclosures checklist should also be completed
- Tá an leagan Gaeilge den fhoirm seo ar fáil ar iarratas.

**IT IS IMPORTANT TO NOTE THAT A CHANGE IN APPLICANT NAME WILL  
REQUIRE A NEW APPLICATION.**

**Applicant Address/Contact Details:**

**Full Name of Applicant (not Agent):** Paul Collins

**Company/Organisation:** DesignPro Ltd

**Address:** Rathkeale Industrial Estate, Rathkeale, Co. Limerick, V94 E5C0

**Eircode:** V94 E5C0

**Phone No:** (069) 63842

**E-mail address:** [pcollins@designpro.ie](mailto:pcollins@designpro.ie)

**Agent (if any) Address/Contact Details:**

**Person/Agent acting on behalf of the Applicant:**

**Company:**

**Address:**

**Eircode:**

**Phone No:**

**E-mail address:**

**Applicant's Legal Advisor:**

**Name:** Michael Lane

**Address:** Bridge St, Abbeyfeale West, Abbeyfeale, Co. Limerick

**Eircode:** V94 NHX7

**Phone No:** 068 32757

**E-mail address:**

**Part 1: Proposal Details (Attach additional documents as required)**

**1.1****Description of proposed works/activity.**

G-Kinetic ([www.G-Kinetic.com](http://www.G-Kinetic.com)) was founded in 2014 by Vincent McCormack and is based in Newcastle West, County Limerick. GKinetic Ltd. is an Irish developer of a submerged tidal energy device composed of twin, vertical-axis turbines mounted either side of a teardrop shaped bluff body that will be moored to the seabed. The full scale device is intended to be of the order of 500kW and the system could potentially address a number of weaknesses traditionally associated with vertical-axis turbines.

The concept has undergone staged development, in-time with industry best practice. Previous testing has been undertaken at NUI Galway, the IFREMER flow tank facility in France, Limerick Docks and numerical modelling for design optimisation. Funding has previously been secured through the EU FP7 MaRINET programme which included scientific evaluation and is an additional sign of technical quality. GKinetic has been working with DesignPro Ltd since 2014 on the manufacture of the turbine and control system; DesignPro have recently secured €2m funding through the competitive H2020 SME instrument and are using the GKinetic IP to develop and qualify market ready DPR (DesignPro Renewables) turbine systems.

This Phase 2 funding will be used to commercialise their small scale river devices using GKinetic's technology. DesignPro are therefore looking to deploy a 60kW device in the water for 12 months starting from September 2018. This device will be removed from the water September 2019. The device would be similar to a mooring, would have 4 small anchors and does not require a connection to the foreshore. The unique concept is made up of two vertical axis turbines placed on either side of a buoyant deployment vessel, the "bluff body". The shape of the vessel accelerates the flow of water into the turbines. The combination of this accelerated flow and the "blade Pitch Control System" allows for significant energy to be generated in low flows. The device is designed in such a way so as to exploit flow acceleration, it naturally diverts objects away from the device there by removing the collision risk with marine mammals or fish, it is easy to deploy and recover using floating deployment system and can self start and generate power IN flows as low as 0.5m/s.

The proposed 12 months of testing in this project is further to a series of tow testing of an 8 kW machine that was carried out in Limerick Docks in late-2015/early-2016 and in August through October 2017. Prior to deployment in Clare a 25 kW machine will be deployed at the SEENEOH test site in Bordeaux France. The testing in France will provide further information on Environmental Impacts and will establish protocol for deployment systems and monitoring.

The Shannon Estuary and in particular the Islands at the mouth of the River Fergus Estuary provide the best possible opportunity for testing this device from DesignPro's perspective. The Islands at the mouth of the River Fergus Estuary have several advantages as a demonstration site for tidal energy devices. In particular, they provide sheltered stretches of water with relatively high flow speeds. There is a substantial public pier at Cahircon (3 km) that will allow a shore side office/monitoring station as well as storage of equipment. Foynes harbour (7 km), a tier one port, has a multicat vessel and substantial crange facilities which are also quite close and this can be used for the launching of turbines.

**1.2****Describe the nature and scale of any structure to be erected on the foreshore. Is the structure proposed to be temporary or permanent?**

The device is a floating tidal turbine of approximate dimensions 11.5m x 10m x 6 m high (4m submerged and 2m high above the surface) with a dry weight of approx. 20T. When installed it will have a draught of approx. 4m. The device is moored at the surface with the rotor and bluff body section facing into the current and the deployment platform will be free to rotate in the reversing tide direction. The bluff body diverts flow into the rotors and thereby increases the inflow current speed to the rotors. The blades, which are self-aligning to the flow, rotate a central drive shaft which is connected to the AC generators contained within the housings. The electricity produced within the generators is conditioned using the onboard switch gear, and this power is dissipated using an on-board load bank.

The installation will be temporary in its nature and will likely be removed and reinstalled several times over the operational phase of the project, (particularly during times of poor weather). The device can be installed or removed quickly on a single tidal cycle and can be done with minimum to no impact on harbour operations, or other vessels operating in the area.

The position of the device will be marked on an as built drawing and submitted to the relevant authority and the harbour master within 24 hours of installation to confirm position is in accordance with the permit. It is expected the device will remain in place for 12 months. The technology developer's operations team will require frequent access to the device in order to inspect and maintain the on-board systems, along with providing training for same to clients. Access will be undertaken using a small crew transfer vessel.

During the operation of the device, the unit will be tested in order to validate the power production performance, and ability to withstand the marine environment. In parallel some environmental monitoring will be undertaken which will include information relating to Static Acoustic Monitoring for Marine Mammals on behalf of local environmental research groups. These tests will confirm the device is not having any negative impact on the surrounding environment or ecosystem.

Upon completion of the operational phase of the project, the device will be removed from the site using the routine method. It will then be removed from the water at Foynes into the owner's possession for future use. The anchors and associated equipment will then be retrieved from the seabed, and the site returned to as found condition. The as built drawing will be updated and submitted to Clare County Council to confirm the site has been cleared and no hazards to other users of the environment remain.

<p><b>1.3</b></p>	<p><b>Indicative timing of the works/activity: (i) Start date (ii) Duration (iii) Any other information relevant to timing.</b></p> <p>(i) The proposed start date for the device testing is September 2018.</p> <p>(ii) The 60kW device will be deployed in the Shannon Estuary in September 2018; it will undergo a series of tests over the course of 12 months. At one point during the testing the device will have to run for 90 days uninterrupted, this is to ensure that the next Technology Readiness Level (TRL 8) is reached. Once testing has concluded in June 2019, the device and all infrastructure associated with it will be completely removed from the water.</p> <p>The decision on where to test the 60kW device needs to be made by end of May 2018 for DesignPro to meet Horizon 2020 deadlines.</p> <p>If DesignPro are unsuccessful in securing a Foreshore Licence for testing of their tidal energy device in the Shannon Estuary then testing will be moved to another test site at the Canadian Hydrokinetic Turbine Testing Centre (CHTTC).</p>																		
<p><b>1.4</b></p>	<p><b>Primary usage for proposed development (please tick)</b></p> <table border="1"> <tr> <td><b>Use</b></td> <td></td> </tr> <tr> <td><b>Industrial</b></td> <td></td> </tr> <tr> <td><b>Commercial</b></td> <td></td> </tr> <tr> <td><b>Within Fishery Harbour Centre</b></td> <td></td> </tr> <tr> <td><b>Sea Fisheries</b></td> <td></td> </tr> <tr> <td><b>Local Authority</b></td> <td></td> </tr> <tr> <td><b>Community/Co Op scheme</b></td> <td></td> </tr> <tr> <td><b>Other(specify)</b></td> <td>√</td> </tr> <tr> <td colspan="2">Demonstration project only</td> </tr> </table>	<b>Use</b>		<b>Industrial</b>		<b>Commercial</b>		<b>Within Fishery Harbour Centre</b>		<b>Sea Fisheries</b>		<b>Local Authority</b>		<b>Community/Co Op scheme</b>		<b>Other(specify)</b>	√	Demonstration project only	
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<p><b>1.5</b></p>	<p><b>Do the proposed works provide for public use, commercial use, restricted use or strictly private use? Provide Details</b></p> <p>The proposed deployment is strictly for private use in order to test the suitability of the device for commercial use.</p>																		
<p><b>1.6</b></p>	<p><b>Might the proposed works restrict public use/enjoyment of the foreshore? Provide details.</b></p> <p>An area within a 75-meter radius would be the zone in which the machine would be deployed. This allows a 50-meter passage for small craft to pass. Sailing and fishing craft can also use alternative passages to navigate between the islands. The device itself has an underwater swept area of 33.5m<sup>2</sup> and the total area of the turbines is 10.60m<sup>2</sup></p>																		

1.7	<p><b>Has the applicant held or does the applicant hold any previous Foreshore Licences, Leases or applications over the area sought or over any other area including pending applications? (Give details including Department's file reference number(s)).</b></p> <p>No</p>
1.8	<p><b>Status of planning permission application:</b> Not required, exempted development.</p> <p><b>Consent Authority:</b> Clare County Council  <b>Reference Number:</b> R.18-5 – See attached letter from Clare County Council and associated Section 5 Declaration (Attachment 1.8)</p> <p><b>(Please provide copies of consents granted)</b></p>
1.9	<p><b>Are any other consents required for this proposal? Please detail.</b> No</p> <p><b>Consent type</b>  <b>Consent Authority:</b>  <b>Reference Number:</b>  <b>Status of application:</b></p> <p><b>(Please provide copies of consents granted)</b></p>
1.10	<p><b>Employment Implications (if any)</b>  Specialist marine subcontractors will be employed for the installation and removal of the device and its infrastructure. There will also be two full time staff employed in onshore monitoring for the duration of the testing.</p>
1.11	<p><b>Capital cost of proposed works (€ - Euro)</b>  €220,000</p>
1.12	<p><b>Do the proposed works involve the drawdown of European Union or State funding?</b>  <b>If "Yes" give details, including any time restrictions, etc. applying</b></p> <p><b>2017</b>  <u>Horizon 2020 SME Instrument Phase 2 Fund: €1,934,656</u> - The purpose of this funding is to support DesignPro in the development and commercialisation of a range of innovative, hydrokinetic turbines that will offer a reliable solution for generating zero-carbon energy from rivers, estuaries and canals. The time restrictions on this whole project are July 2017- September 2019.</p>

**Part 2: Proposed Site. (Attach additional documents as required)**

2.1	<b>County:</b> Clare
2.2	<p><b>Location name and nearest townland name:</b></p> <p>The site is located between Inishtubbrid and Canon Island on the Fergus Estuary. The nearest townland to the west is Lackannashinnagh which is in the Electoral Division of Kiladysert, in County Clare.</p>
2.3	<p><b>Geographic co-ordinates of the area under application in degrees minutes and seconds WGS84 for offshore developments and where the area can also be identified on the Ordnance Survey map and /or is connected to the seashore/mainland , specify Ordnance Survey map no and Irish National Grid co-ordinates</b></p> <p><b>Geographic Co-ordinates in degrees minutes and seconds</b></p> <p>A. 52 40 14.589343 -9 3 34.133187  B. 52 40 9.654895 -9 3 22.187664  C. 52 39 58.364826 -9 3 47.953175  D. 52 39 55.371888 -9 3 33.840822</p> <p><b>Irish National Grid co-ordinates</b></p> <p>A. 128377 158211  B. 128599 158055  C. 128110 157713  D. 128374 157616</p> <p><b>Ordnance Survey Map No</b>  4674  4675</p>
2.4	<p><b>Please indicate the size of the Foreshore area (Ha<sup>2</sup>) or (M2) or (KM2)</b></p> <p>11.47ha</p>
2.5	<p><b>If offshore please indicate distance from shore (Km):</b> N/A</p>
2.6	<p><b>Is any of the foreshore in the proposed site in private ownership? If yes please provide documentary evidence of same (e.g. folio)</b></p> <p>No – Land Registry accessed on 12/03/18</p>
2.7	<p><b>Any other site details considered relevant:</b></p>

**Part 3. Maps and Drawings, Please refer to Guidance on map and drawing requirements.**

3.1	<p><b>Site location map attached? Please include reference no(s).</b></p> <p>Attachment 3.1 Site Location Map</p>
3.2	<p><b>Foreshore Lease/Licence map attached? Please include reference no(s).</b></p> <p>Attachment 3.2 Foreshore Licence Map</p>
3.3	<p><b>Drawings of structures to be used and or layout (if required) attached? Please detail and include reference no(s).</b></p> <p>Attachment 3.3 (a) and 3.3 (b)</p>
3.4	<p><b>Admiralty Chart attached?</b></p> <p>Attachment 3.4 Admiralty Chart</p>
3.5	<p><b>Other maps/drawings attached ?– please detail and include reference numbers</b></p> <p>Attachment 3.5 Preliminary Installation Manual</p>

**Part 4: Pre- application consultations**



4.1

**Describe briefly any consultations undertaken with the following bodies:**

- **National Parks & Wildlife Service (NPWS) of the Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs**
- **National Monuments Service (NMS) of the Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs**
- **Inland Fisheries Ireland**
- **Sea Fisheries Protection Authority**
- **Marine Institute**
- **Marine Survey Office**

**Please also provide copies of correspondence. (Please see Attachments 4.1)**

**Inland Fisheries Ireland**

A pre application consultation meeting was held in December 2017 and March 2018 with Michael Fitzsimons, Senior Fisheries Environment Officer with Inland Fisheries Ireland (Shannon IRBD). Mr Fitzsimons was supportive of the application and could not foresee any negative impacts associated with the testing of this particular device by DesignPro in the Fergus Estuary at this location given the specific and unique design of the device which naturally diverts objects away from it.

**Shannon Dolphin and Wildlife Foundation/Irish Whale and Dolphin Group**

Following pre-application consultations with the SDWF/IWDG they have indicated that there is no evidence that this site is used by bottlenose dolphins. They have indicated that they would have no concerns associated with the temporary locating of the device at the chosen site west of Canon Island. They also highlight that due to the specific design there does not appear to be a risk of collision or entanglement in mooring lines. Recommendations were suggested in relation to static acoustic monitoring of the site, pre, during and post deployment which will be implemented should the application for a foreshore licence be successful.

**National Parks and Wildlife Service**

Following an initial scoping request to the Developments Applications Unit (DAU) of the National Parks and Wildlife Service a consultation response was received from the DAU. This related primarily to the locating of the device within the Strategic Integrated Framework Plan (SIFP) for the Shannon Estuary, which has been given effect by Clare County Council as part of Clare County Development Plan. The response highlighted that the location did not appear to be within an 'area of opportunity' site for tidal energy within the SIFP and advised the requirement for confirmation with the Council whether the proposal is in accordance with the SIFP and, accordingly, with the County Development Plan.

It also highlighted the specified plan-level mitigation for tidal energy developments in the Shannon Estuary, and within the European sites. The response welcomed further consultation with NPWS following completion of the above in relation to specific aspects of assessments that may be required. A consultation response was issued to the DAU in response to their submission which is noted in included in the attachments.

A further consultation meeting was held with Dr David Lyons (Marine Ecologist, NPWS) on the 20/03/2018. Dr Lyons raised queries in relation to the spacing between the blades of the rotor on the turbines and also the noise generated by the device. He also raised concerns in relation to Otter and their use of the site and their possible interactions with the device. He also raised concerns in relation to the Bottlenose Dolphin and the lack of empirical data on their usage of the site.

The project team referred to a letter received from Dr Simon Berrow of the IWDG/SDWF indicating no collision risk and no evidence of frequent use of the Fergus Estuary by dolphins. They also indicated that SAM would be carried out before, during and after deployment of the device to log dolphin occurrence and explore potential effect of any device.

A discussion was undertaken in relation to the potential approach within the screening for appropriate assessment which is currently being undertaken by Aquafact on behalf of DesignPro to accompany the Foreshore Licence Application. Dr Lyons outlined that the assessment should look at the conservation objectives and how they may be impacted by the deployment of the tidal test device.

Further points were raised in relation to the issue of fish species.

Dr Lyons indicated he had no concerns about the impact on benthic communities from the temporary placement of moorings on the seabed.

4.2

**Describe briefly any consultations undertaken with other relevant authorities (e.g. Local Authority, Port/Harbour authority etc) or State Agencies.**

***Shannon Foynes Port Company***

As per the attached letter of support, SFPC has conducted a navigation assessment of the proposed tidal energy demonstration site and has determined that the proposed site will not interfere with commercial traffic. There is sufficient separation distance between the site and the main shipping channel. The commercial shipping channel is also well buoyed in that area, and therefore this separation will be safely achieved. As outlined in their letter SFPC is supportive of the initiative by DesignPro and GKinetic to undertake the testing of their tidal energy device at this location and will provide appropriate advice and assistance as required, including developing any protocols to ensure that the impact on commercial and other traffic is minimised and that potential risks are identified and suitable mitigation measures agreed.

**Clare County Council**

A presentation was made to the Strategic Policy Committee for Economic Development in Clare County Council which includes both Elected Members and Sectoral Representatives. Strong support was given from this committee for such a local initiative on the northern shore of the Shannon Estuary where very little development or testing such as this has ever taken place in particular surrounding the small islands which could see a benefit to the local communities here in terms of job creation. In addition, Clare County Council Chief Executive has also provided a letter of support outlining the key policy support arising from both the Clare County Development Plan and the Strategic Integrated Framework Plan for the Shannon Estuary. See Attachment 4.1 (a).

**Commissioner of Irish Lights**

The Commissioner of Irish Lights were consulted on two separate occasions for comment on the proposed deployment however no response has been received to date. Following further consultation with SFPC it was agreed that strict adherence to the navigation rules, requirements and instructions set out by the local navigation authority, the Shannon Foynes Port Company, would be satisfactory for all parties.

4.3	<p><b>Describe any consultations undertaken to date with other foreshore users.</b></p>
4.4	<p><b>Describe any likely interactions with activities of the public or other foreshore users during the construction and operational phases of the works/activities (e.g. fishing, aquaculture, sailing, and surfing swimming, walking). Describe any measures proposed to minimise inconvenience to other users.</b></p> <p>A community consultation evening was held in Kildysart with a large number of the local community in attendance. The evening provided an opportunity for locals to voice their thoughts on the proposed development. Strong support was given by the community for the project as it is seen as a highly beneficial venture for the area in terms of sustainable development of the local economy and job creation. Local foreshore user groups including Kildysart Quay Boat Owners Group and Kildysart Currachs have provided letters of support for the proposed development (see Attachment 4.4).</p>
4.5	<p><b>Have adjacent land owners, whose properties may be affected by these works been consulted? Please provide details/permissions as appropriate.</b></p> <p>As the device will be launched from Foynes Port and deployment from the water there are no other landowners whose properties may be affected by these works.</p>

**Part 5: Environmental Considerations**  
**(your consultations with National Parks and Wildlife Service and National Monuments Service may inform your answers. Attach additional reports as required and mark under the R column)**

[www.epa.ie/downloads/advice/ea/guidelines/](http://www.epa.ie/downloads/advice/ea/guidelines/)

[www.environ.ie/en/DevelopmentHousing/PlanningDevelopment/EnvironmentalAssessment/](http://www.environ.ie/en/DevelopmentHousing/PlanningDevelopment/EnvironmentalAssessment/)

<http://www.npws.ie/protectedsites/appropriateassessment/>

<http://webgis.npws.ie/npwsviewer/>

	<b>Environmental legislative requirements</b>	<b>Yes</b>	<b>No</b>	<b>R</b>
<b>5.1</b>	<b>Is an Environmental Impact Statement required for this proposal?</b>		√	<b>EIA Screening Report See Attachment 5.1</b>
<b>5.2</b>	<b>Is a Natura Impact Statement required for this proposal?</b>	√		<b>Yes See Attachment 5.2</b>
<b>5.3</b>	<b>Is the area within or adjacent to a NHA, pNHA, SAC, SPA, or National Park? Specify site names and code(s).</b>  Lower River Shannon SAC (Site Code 002165) River Shannon and Fergus Estuary SPA (Site Code 004077)	√		
<b>5.4</b>	<b>Describe any other projects or plans for the area, anticipated or developed, that in combination with this proposal, may have a significant effect on a Natura 2000 site: Please list with planning reference numbers (where available).</b>  There are no other projects or plans within the zone of influence of the proposed deployment location which could potentially lead to cumulative impacts.		√	

	<b>Environmental Considerations</b>	<b>Yes</b>	<b>No</b>	<b>R</b>
<b>5.5</b>	<b>Will the proposal have any potential environmental impacts? If yes, please describe</b>		√	

5.6	<p><b>Are you proposing any measures to mitigate the potential environmental impacts? If yes, please describe</b></p> <p>A number of mitigation/best practise measures are recommended to ensure minimal impact from the test site.</p> <ul style="list-style-type: none"> <li>• Static Acoustic Monitoring (SAM) before, during and after the deployment of the device to assess the sites use by dolphins and to ensure there is no displacement. The CPOD can be deployed from the mooring system that will be in place. This is in the knowledge that based on the unique design of the device, the location outside of identified critical areas that there will be no impact on marine mammals. However, the collation of such baseline information for this location associated with a tidal energy device provides an opportunity within the Shannon Estuary to acquire critical environmental data in a low impact scenario which is not normally possible. The CPOD was deployed on the 5<sup>th</sup> of April to commence pre deployment monitoring and will continue until such time as a decision is reached on the foreshore application.</li> <li>• If bow thrusters are required on installation vessels, they should be covered to prevent collision with marine mammals.</li> <li>• Plan operations efficiently to minimise the number of trips that the service vessel must make.</li> <li>• Use low toxicity and biodegradable materials</li> <li>• Design infrastructure for minimum maintenance</li> <li>• Design devices to minimise risk of leakage of pollutants</li> <li>• Implementation of Shipboard Oil Pollution Emergency Plan (SOPEP)</li> </ul>	√		
5.7	<p><b>Are there public health/safety implications arising from the proposed works? (e.g. effluent disposal, removal of derelict or dangerous structures etc.) If yes, please describe</b></p>		√	
5.8	<p><b>Will the works involve the storage and/or disposal of waste? If "Yes" please give details of the type of waste and the proposed method of storage and/or disposal (including location)</b></p>		√	
5.9	<p><b>Any other Environmental Considerations? If yes, please specify.</b></p>		√	

		Yes	No	R
	<b>Built Heritage Considerations</b>			
<b>5.10</b>	<p><b>Does the area contain an archaeological site or feature? If yes, please specify.</b></p> <p>The Archaeological Diving Company Ltd. (ADCO) was appointed on behalf of the Strategic Integrated Framework Plan for the Shannon Estuary, to undertake a cultural heritage assessment of the Shannon Estuary study area based on a desktop study. ADCO reviewed existing information and compiled a sequence of GIS-based data sets that absorb other information. The primary source for use is the Sites and Monuments Record (SMR) maintained by the Department of Arts, Heritage and the Gaeltacht (DAHG). Other sources examined include The Historic Shipwreck Inventory, the published record of The Discovery Programme's intertidal archaeological survey on the upper estuary area, and the unpublished The Fergus Estuary study by Aidan O'Sullivan. In addition, ADCO has carried out new desk-based research by extracting all foreshore features recorded on the Ordnance Survey First Edition six-inch series of maps around the estuary.</p> <p>The foreshore includes many features that are not traditionally recorded as archaeological monuments. In current practice, such features are considered to be archaeologically significant. Those that are recorded in the mid-1800s are now considered to fall under archaeological protection.</p> <p>As can be seen in Attachment 5.10 there are no archaeological or cultural heritage features located within close proximity to the proposed location of the tidal test device west of Canon Island. In addition, given the nature of the device which will not sit on the seabed there is no potential for disturbance of any unrecorded feature. An archaeological watching brief will be employed where relevant during the deployment phase.</p>		√	<b>See Attachment 5.10</b>
<b>5.11</b>	<b>Does the area contain or adjoin a listed archaeological site or monument? If yes, please specify.</b>		√	
<b>5.12</b>	<b>Will the proposal have any potential impacts on the archaeological integrity of the site? If yes please describe</b>		√	
<b>5.13</b>	<b>Are you proposing any measures to mitigate potential archaeological impacts? If yes, please describe?</b>		√	

**Part 6: Navigational Safety Considerations. (Your consultations with relevant stakeholders may inform your answers. Attach additional documents as required and mark under the R column)**

	<b>Navigational Safety Considerations.</b>	<b>Yes</b>	<b>No</b>	<b>R</b>
<b>6.1</b>	<b>Are there public navigational safety implications arising from the proposed works?</b>		√	<b>See SFPC Letter in Attachment 4.1</b>
<b>6.2</b>	<b>What marine activity is there in the area?</b>			<b>SFPC Letter in Attachment 4.1</b>
<b>6.3</b>	<b>How will the marine activity be affected by the proposed works?</b>			<b>SFPC Letter in Attachment 4.1</b>
<b>6.4</b>	<b>What mitigating measures will be put in place?</b>			<b>SFPC Letter in Attachment 4.1</b>
<b>6.5</b>	<b>How will the proposed works affect Marine Navigation in the future?</b>		√	

**Part 7: Fishing/Aquaculture considerations (your consultations with IFI, SFPA, DAFM may inform your answers. Attach additional documents as required and mark under the R column)**

	<b>Fishing/Aquaculture considerations</b>	<b>Yes</b>	<b>No</b>	<b>R</b>
<b>7.1</b>	<p><b>Is the proposal located in proximity to any of the following:</b></p> <ul style="list-style-type: none"> <li>• <b>aquaculture operation</b></li> <li>• <b>designated Shellfish Growing Waters</b></li> <li>• <b>fish spawning ground</b></li> <li>• <b>other sensitive fisheries location</b></li> </ul> <p><b>Please Illustrate on appropriate chart including distance in Km.</b></p> <p>As per attachment 7.1 the nearest aquaculture licenced site is 5km away on the southern shores of the Shannon Estuary just east of Aughinish. This site is licenced for the production of mussels.</p>		√	√ <b>See Attachment 7.1</b>
<b>7.2</b>	<p><b>Are there other potential impacts of the proposal on fishing/aquaculture in the area? If yes, please describe.</b></p> <p>There are no other sensitive locations within the vicinity of the proposed tidal test device. All designated shellfish growing areas are located at the mouth of the estuary primarily. There are no known fish spawning grounds in the vicinity which has been confirmed following consultation with IFI.</p>		√	
<b>7.3</b>	<p><b>Are there any measures proposed to mitigate potential impacts on fisheries or aquaculture? If yes, please describe.</b></p>		√	



**Part 8 – Additional information**

<b>8.1</b>	<b>Please detail any additional relevant information.</b>
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**Declaration and Consent:**

**The details provided here are correct to the best of my knowledge.**

**I understand that no works will be commenced, by me or my agents on the proposed site, without the prior written consent of the Minister.**

**I give consent to the Minister and his servants to copy this application and to make it available for inspection and copying by the public. This consent relates to this application, to any further information, or submission provided by me or on my behalf and to the publication of the licence document.**

**Signature of Applicant (or his or her Agent):**

Paul Collins

**Name of above Signatory (block letters):**

PAUL COLLINS

**Position Held:**

MANAGING DIRECTOR

**Date:** 06-04-2018

**Return completed applications to:**

Marine Planning and Foreshore Section  
Department of Housing, Planning and Local Government  
Newtown Road  
Wexford  
Y35 AP90

Enquiries to: [Foreshore@housing.gov.ie](mailto:Foreshore@housing.gov.ie) (Other contact details to be included in Guidance materials)

Email a copy of application documents: [Foreshore@housing.gov.ie](mailto:Foreshore@housing.gov.ie)

## Enclosures Checklist

**One hard copy of every document is required unless otherwise stated. Electronic versions of documentation must also be provided in searchable PDF format (no single file to be greater than 30mb) so that the Department can make them available on its website.**

<b>Item No.</b>	<b>Description</b>	<b>No. of copies Required</b>	
<b>1</b>	<b>Application Form.</b> With original signature	4	4
<b>2</b>	<b>Mapping (see guidelines document)</b> (i) Site Location map (ii) Foreshore Lease/licence map	4 4	4 4
<b>3</b>	<b>British Admiralty Chart</b> (largest available scale)	1	1
<b>4</b>	<b>Drawings</b> of the structures to be used and/or layout	4	4
<b>5</b>	<b>Pre-application correspondence with stakeholders.</b>	1	1
<b>6</b>	<b>Other statutory permissions:</b> (i) Planning permission (ii) Effluent Discharge Licence (iii) Other consent (Please specify)	1 1 1	NA
<b>7</b>	<b>Company documentation (1):</b> Certified copy of the Company's Memorandum and Articles of Association	1	1
<b>8</b>	<b>Company documentation (2)</b> Certificate of Incorporation of a Limited Liability, or Company/Rule Book/Constitution for a Club or Co-Operative Society as appropriate	1	1
<b>9</b>	<b>Environmental Impact Statement (EIS).</b> (i) Hard copy (ii) CDs	5 25	NA
<b>10</b>	<b>Natura Impact Statement (NIS)</b> (i) Hard copy (ii) CDs	5 4	5 4
<b>11</b>	<b>Property-related owner permissions/wayleaves</b> (i) Folio – (or other evidence of private ownership) (ii) Wayleave/consent from other property owners (iii) Other (Please specify)	2 1 1	NA
<b>12</b>	<b>Other – Please specify</b>	1	NA