



**SEA GALLERIES
MERSEYSIDE MARITIME MUSEUM**

**GALLERY FIT-OUT
SCHEDULE OF WORKS**

Item Ref	Description	Rate	£
1.	<p>SCHEDULE OF WORKS</p> <p>This specification must be read in conjunction with the appendix documentation included with the tender package</p>		
2.	<p>PROGRAMME</p> <p>The programme for these works is broken down as follows:</p> <ul style="list-style-type: none"> • Eight weeks programme re. production drawings and off-site build (23 September to 22 November) • Ten weeks programme re. onsite build (25 November to 18 February 2020, taking out two-week shutdown over Christmas between 23 December to 3 January 2020) • Total number of weeks for all programme of works is 18-week. <p>Works include:</p> <p>Production drawings for all aspects of the build design, production/installation of new exhibition wall structures, removal and replacement of low-level plinth front cladding in second gallery, decoration works to existing and new wall structures. Installation of LED light channel within new wall structures, the installation and integration of 16 no. existing Armour System cases into the new exhibition wall structures, new interiors and upgrade of light fittings and system within 2no. existing display cases, production/manufacture and installation of 8no. new vitrines, and 2no. new acrylic hood plinths, the production/manufacture and installation of 2no open display plinth structures, creative development/production and installation of 7no. new tactile interactives for the gallery, production/installation of props and set dressing elements for the gallery display, first and second fix of all power and data requirements for the gallery, installation of new light fittings onto exhibition existing gallery lighting track and replacement light fittings to 2no.existing cases.</p> <p>Prior to onsite works, Fit-Out contractor to provide client team with production drawings for the works. Production drawings to be reviewed/approved and signed off by client team before off-site build commences. Client team would also expect to do site visit to review progress of off-site build production.</p> <p>Works on site, to commence no later than Monday 25 November, all site works to be completed by Friday 7 February 2020, all snag works to be completed w/c 10 February. The formal site handover back to the client team to be Tuesday 18 February, no later. Prior to handover, client will require the Fit-Out contractor to carry out full site clean.</p> <p>Following the site handover on Tuesday 18 February, the object installation for the gallery will commence w/c 24 February for a period of three weeks. During the object installation phase, NML will require the Fit-Out contractor to return to site on set/agreed days/dates to do final install of glass to vitrine cases and barrier system for two of the open display plinths, once objects have been installed. Gallery will open to the public on 27 March 2020.</p>		

3.	<p>NML DIRECT APPOINTED CONTRACTORS</p> <p>A series of NML direct appointed contractors for different elements of the fit-out works will need to be programmed and coordinated into the main fit-out works programme. The Fit-Out contractor as the Principal contractor/main contractor the works will be responsible for the coordination and site management of the below named contractors:</p> <ul style="list-style-type: none"> • Graphics contractor – (Appointment tbc) Installation of all graphic wallpaper, panel, labels, inforail, case back boards, tactile interactive graphics boards, wayfinding for new gallery area. • AV Hardware contractor– (Appointment tbc) Installation of all AV Hardware equipment, screens, speakers, projectors, media player, amps. Onsite works will also include site setup of all mapped projections (D2, D5, and D8) • Security Contractor (Unique Integrated Services, UIS) – 1st and 2nd fix of the new gallery CCTV system to be installed. These works will need to be coordinated and interfaced with the build of the all new wall structures as per plan Proposed UIS Security Camera Location Plan (Appendix K). Works also include the installation of the display case/vitrine contact alarm sensors. 		
4.	<p>GENERALLY</p> <p>As requirement of CDM Regulations 2015, the Fit-Out contractor will be the main contractor and the Principal contractor for all works and will be responsible for all site management during the 10-week onsite programme of works. This includes the coordination and site management of all NML direct appointed contractors on site.</p> <p>Principal contractor role to include CDM of the site. Construction Phased Health & Safety plan to be compiled and provide to NML Estates Management Department two weeks prior in advance of works starting on site.</p> <p>It is the responsibility of the contractor to visit site and do a walk round of the site with Jenny Green (Senior Project Coordinator or Viv See – Exhibition Designer) to discuss the full remit of the works, discuss the programme of works, key milestones within the programme, and discuss all matters relating site logistics.</p> <p>Contractors to ensure they have included for all works necessary to complete the works whether or not specifically referred to in the below Schedule of Works.</p> <p>The contractor to include in submission rates for all tools and equipment required for proper execution and completion of the works [Including Steps, access scaffold and MEWP].</p> <p>The contractor to carry out full site survey to check all measurements on site in line with NML exhibition drawings, prior to supplying client with gallery production drawings and commencing works on site.</p>		

5.	<p>SITE ESTABLISHMENT/SEGREGATION</p> <p>Site working hours will be Monday to Friday 8.00am – 6.00pm If the Fit-Out contractor (Principal contractor) or any other contractor under the responsibility of the Principle contractor wishes to operate outside of these hours, then prior approval must be given by NML Estates Department, at least 48 hours noticed to be provided.</p> <p>Access to the site will be via side of the Maritime Museum by the Good Lift entrance. Contractors should access the building and report/sign in at the museum control room. Contractor will be required to obtain a contractor pass from MMM Controlroom and will be required to wear this ID pass at all time.</p> <p>The venues opening hours to the public are 10.00am to 17.00pm, seven days a week. All contractors must avoid or minimise activities with high level of noise or vibration during the above operating hours.</p> <p>The site currently has a hoarding in place; this covers 80% of the two galleries. This has remained in situ since the completion of the Enabling works. The current hoarding in the areas around the main venue staircase will need to be replaced and increased to provide the required adequate protection between site works and visitors. The hoarding by the staircase area will need to be increased in height to prevent visitors accessing site or throwing waste onto site. One option would be to install/fit gallery wall backs in place, to form hoarding wall for space around stairs, and allow for debris netting to be fitted, to cover gaps between tops of wall structure and bulkhead and the areas between the balcony from floor above looking down on section of the gallery. This is to prevent anything being thrown down onto site, while contractors are working The hoarding in place allows for the Fit-Out contractor to deliver 80% of the works, however the hoarding will need to be reconfigured as works progress on site, and site boundary will need to change. Client team wants to provide visitor access to the end gallery (Titanic gallery) for as long as possible. However, to complete all site works, access onto the 2nd floor will cease, and hoarding will be reconfigured around the staircase to maintain access between the venue floors. Please note any reconfiguration or works to the hoarding will need to be done out of hours, after 17:00pm. (Refer to Proposed hoarding positions plan and MMM 2nd Floor Fire Exit Route Pan (Appendix K), highlighting the fire exits for the 2nd floor and what will need to be maintained up to the point in the programme when access to the 2nd floor ceases, and the hoarding is relocated around the main staircase.</p> <p>The route to site will be via the staff entrance, up the staircase to the mezzanine level, across to the other side of the building to staircase 4, up the stairs to 2nd floor, which bring you out into the Titanic gallery. Site entrance is located within the middle gallery, gallery B. Refer to Existing Hoarding and Site Access Dwg NML 101-01 and MMM Internal Site Access Routes Plan (Appendix K). Security of the hoarding is the responsibility of the Fit-Out Contractor (Principal Contractor) and must be managed at all times and have a secure locking system in place, to ensure public do not enter onto the site.</p> <p>As the contractor's route to site will be via an existing public gallery (Titanic Gallery), the Fit-Out contractor (Principal Contractor) will be required to put in place necessary measures/protection when materials/tools are being transported through this area of the 2nd floor. Protection is required to ensure existing cases; corner of displays or gallery floors do not get</p>		
----	--	--	--

	<p>damaged. The Fit-Out contractor (Principal contractor) to discuss and agree the method of protection with client team.</p> <p>Contractor to allow for self contained container within the site compound area, which will be positioned on the graving docks on the Museum of Liverpool site. Within the building contractors will be able to use the staff toilet facilities located on the mezzanine level. Access to toilets will be via staircase 4, to the mezzanine level.</p> <p>The contractor is responsible for the management of the designated site compound re. contractor parking/welfare container. Contractor parking is very limited and is not located on site at Maritime Museum. Site parking is located at the Museum of Liverpool (MoL) venue, on the graving docks. Parking of approx. 8 spaces has been allocated/provided for contractors. There is public parking in and around the Liverpool waterfront. The Fit-Out contractor (Principal contractor) will be responsible for allocation of contractor parking within the compound. NML client team and MoL Operational team will require details such as company/name/vehicle information of contractors parking within the site compound. NML will not be able to provide additional parking outside the designated compound.</p> <p>Delivery of all materials and tools to site will need to be delivered, off-loaded and relocated to site between the hours of 8am – 10am. Once materials/tools have been delivered and offloaded, contractors' vehicles will need to be relocated either to the site compound or to public parking on/around the waterfront. Refer to MMM Site Location Plan & Compound dwg NML 100-01 (Appendix K).</p> <p>Materials to be relocated or removed from the site and disposed of in the skip provided at the side of museum, between the hours of 8:00-10:00am or 17:00-18:00pm when the venue is closed to the public.</p> <p>The Fit-Out contractor (Principal contractor) will be responsible for providing skips on site; contractor to advise NML Estates department when skip is required on site, skip location refer to MMM Site Location Plan & Compound dwg NML 100-01 (Appendix K). Delivery of skip to be coordinated with MMM Visitor Services team, to ensure access is provided. The Maritime Museum building is located on Albert Dock in a public area; all skips will need to have secured lockable lids, to prevent public from accessing skips.</p> <p>The Fit-Out contractor (Principal contractor) to ensure access/egress to the site via the back of the museum, good lifts/loading bay to the 2nd floor exhibition area must always be kept clear from debris and is not used for storage of materials or equipment. There will be a designated route onto site, which should always be followed, unless otherwise agreed with Visitor Services Managers or Estate Management team.</p> <p>The Fit-Out contractor (Principal Contractor) to provide suitable dust protection measures to prevent migration of dust from site to adjacent public areas. Allow for sealing around any openings, doors into service voids or high-level openings, and any other areas likely to be affected by works.</p> <p>The Fit-Out contractor (Principal Contractor) to allow for daily clean of all work areas to prevent build-up of dust, debris etc and to prevent migration of dust to other areas of the building, this includes the goods lift.</p> <p>The Fit-Out contractor (Principal Contractor) to provide floor protection within site area, to protect the new carpet, which was fitted under the</p>		
--	--	--	--

	<p>project Enabling works phase. Floor protection to must provide suitable protection to mitigate/prevent damage to existing flooring. The Fit-Out contractor (Principal contractor) to consider weight, load, point load of trolleys containing material/equipment when selecting suitable floor projection, to ensure no damaged to existing flooring with the gallery and within Titanic gallery. If existing gallery floors become damaged, the Fit-Out contractor will be responsible for the making good/repair/replacement of carpet tiles.</p> <p>The Fit-Out contractor (Principal Contractor) will be responsible for the removal and disposal of all floor protection at the end of the contract.</p> <p>The Fit-Out contractor (Principal Contractor) to coordinate daily with MMM Visitor Services Managers for the gallery smoke head system on site to be isolated between the hours of 8.00am – 18:00pm and turned back on of an evening. Contractor to provide roaming patrol of the site and air horn during the day as per site hours stated above.</p>		
6.	<p>GALLERY FIT-OUT WORKS</p> <p>Gallery layout provided, please ref to drawing no. Sea Galleries, General Arrangement Plan NML 01.</p> <p>Areas the Fit-Out contractor (Principal Contractor) will be responsible for will be gallery areas A and B as shown on General Arrangement Plan NML 01 Plan. Gallery A is 376sqm and gallery B is 260sqm. Majority of the new exhibition wall structure within both gallery spaces will be 2.9metres high, and a proportion of the walls structure will be sloped and angled. The Fit-Out contractor will be required to visit site to carry out site survey and confirm site measurements. The wall structures have been designed to be angled and sloped in areas to maximise wall space for the gallery content and interpretation.</p> <p>The Fit-Out contractor to allow for all exposed edges on all wall/plinth structures to be rounded off, removing all sharp edges and corners.</p> <p>All new wall frame structures/cladding, materials used will be required to have a (FD60) 1-hour fire rating.</p> <p>All new exhibition wall structures will need to accommodate the gallery graphics. The graphic approach for the gallery includes a mixture of wall vinyl images directly applied to exhibition wall structures, graphic panels, exterior/interior case labels and case background graphics. The graphic package to be delivered by a Graphics contractor, this appointed to be made direct by NML. The installation of the gallery graphics will need to be coordinated and interfaced in line with the main Fit-Out programme. The Fit-Out contractor (Principal contractor) is responsible for the coordinate/interface of the graphic installation with the main gallery build.</p> <p>The Maritime Museum venue is a Grade 1 listed building and was originally a Liverpool dock warehouse. The NML client team is due to submit Listed Building Consent application to Liverpool City Council (LCC) Planning department w/c 29 July 2019 for the build within Gallery A. The Listed Building Consent application process is expected to take 8 weeks, decision on application will be due mid-end September. Gallery B already contains a clad wall structure, which the new exhibition wall structures can be built off. NML Estates department have already been in contact with LCC Planning department to make them aware of the application. In correspondence with LCC Planning Department it has been advised the</p>		

	<p>new frame wall structure within gallery A (which the new exhibition walls will be built off), the fixing detail needs to be via the existing wall mortar line, not through the existing brickwork, and potentially look to fix to the floor, and in some areas where we have free standing wall units include for sand bags/weight plates to secure and weigh structures down to the fall. The wall structures and plinth structure need to be secured, to mitigate any potential of push or pull effect.</p> <p>Drawings provided with this package of works, includes details of works provided by other NML direct appointed contractors, which will be under the management/supervision of the Fit-Out contractor (Principal contractor).</p>		
7.	<p>Area 1 - Introduction:</p> <p>NML 02 / Wall: Fit-Out contractor to produce/manufacture and install 1no. free standing structure, built around existing pillar within the gallery. Wall structure to be sloped and angled. Within the wall structure 1no. Armour Systems showcase (case no. 10031) to be fitted/built and installed. Wall structure to include for a built-in metal powder coated kick board and allow for LED light strip on one wall face. The Fit-Out contractor will need to consider access to the LED light equipment and controls for future maintenance. Wall colour for the wall structure to be white (NNL to confirm colour on appointment). Wall finish, contractor to suggest a high quality, durable, robust wall finish that can be easily cleaned. All exposed corners /edges to be rounded off, no sharp corner to be present, and wall to have a seamless finish, with no visible joint lines.</p> <p><i>Refer to drawing and visual (Appendix K):</i> NML 02/Wall - Dwg NML Introduction - Visuals Existing Armour Systems Case As-Built Dwgs</p> <p>NML 03 / Wall: Fit-Out contractor to produce/manufacture and install 1no. free standing structure, around existing pillar within the gallery, Wall structure to be sloped and angled, refer to NML Introduction 02/Wall visual. Custom built vitrine, refer to the Vitrine specification document (Appendix L) to be fitted and built into the wall structure. Wall structure to include for a built-in metal powder coated kick board and allow for LED light strip on one wall face. The Fit-Out contractor will need to consider access to the LED light equipment and controls for future maintenance. On one side of the wall, will include Tactile interactive T1, refer to Tactile brief and Concept design visual (Appendix M). Wall colour for the wall structure to be white (NNL to confirm colour on appointment). Wall finish, contractor to suggest a high quality, durable, robust wall finish that can be easily cleaned. All exposed corners /edges to be rounded off, no sharp corner to be present, and wall to have a seamless finish, with no visible joint lines.</p> <p><i>Refer to drawing and visual (Appendix K):</i> NML 03/Wall - Dwg NML Introduction - Visuals</p>		

	<p>NML 04 / Wall: Fit-Out contractor to produce/manufacture and install 1no. fixed curved wall structure, with return partition at back to the existing gallery wall. Any fixings to existing wall structures to be through mortar joints. Partition wall to include for 1no. access door, so access can be provided behind the structure. Wall structure designed to represent ship decking/planks, in a non-literal style. The front face of curved wall to allow for recessed section in middle of structure. Recess to allow for installation of either 1no. curved screen or mapped projection. The size of the recess to be detailed/agreed in coordination with AV hardware company, once appointed and equipment has been specified. Wall colour for the wall structure to be white (NNL to confirm colour on appointment). Wall finish, contractor to suggest a high quality, durable, robust wall finish that can be easily cleaned. All exposed corners /edges to be rounded off, no sharp corner to be present, and wall to have a seamless finish, with no visible joint lines.</p> <p><i>Refer to drawing and visual (Appendix K):</i> NML 04/Wall - Dwg NML Introduction - Visuals</p> <p>NML 05 / Plinth: Fit-Out contractor to produce/manufacture and install 1no. free standing circular open display plinth built around existing pillar with removable barrier system. Barrier to be powder coated metal structure with a dark wood handrail. Barrier to represent cruise ship/liner railing as shown on drawing NML 05/Plinth. The design and system for removing plinth barrier to be agreed with Client team prior to manufacture. Client team will require Fit-Out contractor to demonstrate on site the fitting and removal of the barrier prior to gallery handover. The open display plinth is to display 3no. ship figureheads. Plinth structure to be reinforced, suitable for the 3no. large open display objects. Plinth base to accommodate fixing methods and details for securing objects to the plinth. Potential weight of objects being displayed on the plinth is approx. 200kg. Plinth structure to include built-in metal powder coated kick board Plinth finish, contractor to suggest a high quality, durable, robust finish that can be easily cleaned.</p> <p><i>Refer to drawing and visual (Appendix K):</i> NML 05/Plinth - Dwg NML Introduction – Visuals</p>		
	<p>Area 2: Work</p> <p>Fit-Out contractor to design/manufacture and install a timber frame wall structure. The timber frame structure to be secured and fixed through to existing wall mortar joints, floor and in some areas the wall structures may need to be weighed down using sandbags or plate weights. The main exhibition walls to be fitted and clad to timber frame structure. Within the gallery a portion of the walls will be sloped and angled, please refer to visuals. Some wall structure within this area will need to be built around to accommodate the existing pillars within the gallery. Timber frame structure and wall cladding to be (FD60) 1-hour fire rated. All wall structures and plinths in this section of the gallery to include built-in metal powder coated kick board. All wall structures to include LED light strip, where indicated on gallery drawings. Contractor to consider access for maintenance of lighting equipment/controls within the wall structure.</p>		£

	<p>Wall colour for the gallery will be either white or blue (Client team to confirm on appointment). Wall finish, contractor to suggest a high quality, durable, robust finish that can be easily cleaned and all exposed corner edges to be round off. All walls to have a seamless finish, with no visible joint lines.</p> <p>This section of the gallery, will also include for the following items:</p> <ul style="list-style-type: none"> • Production/Installation of 1no. freestanding wall structure • Installation of 6no. Armour System showcases, to be built/fitted into the main wall structures (case no. 10032, 10033, 10034, 10035, 10043, 10044, these are currently stored on site, refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K). • Production/manufacture and installation of 4no new custom-made vitrines which will be built into the main gallery plinths or wall structures (vitrine no. V102, V103, V104, V105), refer to Sea Galleries Case & Vitrine Schedule and Vitrine Specification document (Appendix L). • Design/development/production and installation of 3no tactile interactives, no. ref T2, T3, and T4, Refer to Tactile Brief and Concept design visual (Appendix M). • 1no. angled low-level plinth built into exhibition wall structure with removal barrier system. Barrier to be powder coated metal structure with a dark wood handrail. Barrier to represent cruise ship/liner railing and top of plinth to include clad effect to represent a ships deck, clad will also run up section of the wall behind plinth. Please refer to reference images on drawing NML /07. Section of wall behind plinth to be load bearing to take a weight of 100kg. The design and system for removing plinth barrier to be agreed with Client team prior to manufacture. Client team will require Fit-Out contractor to demonstrate on site the fitting and removal of the barrier prior to gallery handover. • Two crate structures, these structures will provide a contrast in colour and texture, compared to the smooth, bright, clean gallery walls. One crate structure will be a tall stacked structure system, which will house two vitrines (no. V104 and V05, refer to Vitrine spec doc), and a 32" monitor (monitor spec to be determined once AV Hardware contractor is appointed). One side of this tall crate structure will be used to map project onto, this side of the structure will need to have a smooth surface finish. When structure is built the AV Hardware contractor will need to come to site to install AV hardware equipment and carry out the programme mapping of the imagery/footage onto the face of the crate structure. Second crate structure is a smaller structure and will house 1no. Armour Systems desktop case, case no. 10043 – refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K) and the tactile interactive T2, refer to Tactile brief and Concept design visual (Appendix M). <p><i>Refer to drawings and visuals (Appendix K):</i></p> <p>NML 06/Elevation - Dwg NML 07/Plinth - Dwg NML 08/Table - Dwg NML 09/Elevation - Dwg NML 10/Elevation - Dwg NML 11/Plinth - Dwg NML 12/Table - Dwg NML 13/Elevation - Dwg NML 14/Table - Dwg NML 19/Plinth – Dwg NML Works - Visuals Existing Armour Systems Case As-Built Dwgs</p>		
--	--	--	--

	<p>Area 3: Campaigning & Environment</p> <p>Fit-Out contractor to design/manufacture and install a timber frame wall structure. The timber frame structure to be secured and fixed through to existing wall mortar joints, floor and in some areas the wall structures may need to be weighed down using sandbags or plate weights. The main exhibition walls to be fitted and clad to timber frame structure. Within the gallery a portion of the walls will be sloped and angled, please refer to visuals. Timber frame structure and wall cladding to be (FD60) 1-hour fire rated. All wall structures and plinths in this section of the gallery to include built-in metal powder coated kick board. All wall structures to include LED light strip, where indicated on gallery drawings. Contractor to consider access for maintenance of lighting equipment/controls within the wall structure.</p> <p>Wall colour for the gallery will be either white or blue (Client team to confirm on appointment). Wall finish, contractor to suggest a high quality, durable, robust finish that can be easily cleaned and all exposed corner edges to be round off. All walls to have a seamless finish, with no visible joint lines.</p> <p>This section of the gallery, will also include for the following items:</p> <ul style="list-style-type: none"> • Installation of 3no. Armour System showcases to be built and fitted within the wall structure (case no. 10055, 10041 and 10036 these are currently stored on site, refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K). • Production/manufacture 1no custom-made vitrine to be built separately and then fitted within wall structure (vitrine no. V106), refer to Sea Galleries Case & Vitrine Schedule and Vitrine Specification document (Appendix L). • Production/manufacture and installation of 2no plinths with acrylic hoods • Production/manufacture and installation of 1no low plinth, to be fitted to wall structure • Wall structure to receive 1no 32inch monitor mounted on to the wall structure (monitor to be purchase and installed by AV Hardware contractor). • Production/manufacture and build of one room structure, which is to be built under the existing gallery staircase. This room will be a semi enclosed space and will require walls to be sound proofed and be (FD60) 1-hour fire rated. Enclosure to include for 1no additional emergency light fitting, which will need to be, programmed into buildings E-Light system. Stair profiles above the structure will need to be infilled and blocked to ensure no debris can fall onto the structure top/ceiling. The purpose of the room is to house an immersive audio-visual display, which will be made up of a series of screens (screens to be purchased and installed by AV Hardware contractor). The area at the rear of the structure will be a space where the AV equipment is housed. Lockable access hatch to be included at the rear of the structure, to provide access to equipment for future maintenance. • New barrier to be designed, manufactured and installed to match existing staircase handrail. Handrail to be located at bottom of the staircase leading down from 3rd floor to 2nd floor. This is to stop visitors accessing the back of the enclosure and side of the staircase. Barrier needs to be hinged or removable to allow access to maintenance cupboard under staircase as per NML - 22. Barrier and handrail to match existing staircase include for powder coated handrail and matching grille. Refer to drawing General Arrangement NML-01 (Appendix K) for the location of barrier. 		£
--	---	--	---

	<p><i>Refer to drawings and visuals (Appendix K):</i></p> <p>NML 15/Elevation - Dwg NML 16/Plinth - Dwg NML 17/Plinth - Dwg NML 18/Plinth - Dwg NML 20/Wall - Dwg NML 21/Vitrine - Dwg NML 22/Room - Dwg NML 23/Wall - Dwg NML 24/Plinth – Dwg NML Campaigning & Environment – Visuals Existing Armour Systems Case As-Built Dwgs</p>		
	<p>Area 4: Life on Board</p> <p>Fit-Out contractor to design/manufacture and install a timber frame wall structure. The timber frame structure to be secured and fixed through to existing wall mortar joints, floor and in some areas the wall structures may need to be weighed down using sandbags or plate weights. The main exhibition walls to be fitted and clad to timber frame structure. Within the gallery a portion of the walls will be sloped and angled, please refer to visuals. Part of the walls to be clad in a rustic timber effect, please refer to visuals. Timber frame structure and wall cladding to be 1-hour fire rated. All wall structures and plinths in this section of the gallery to include built-in metal powder coated kick board. All wall structures to include LED light strip, where indicated on gallery drawings. Contractor to consider access for maintenance of lighting equipment/controls within the wall structure.</p> <p>Wall colour for the gallery will be either white or blue (Client team to confirm on appointment). Wall finish, contractor to suggest a high quality, durable, robust finish that can be easily cleaned and all exposed corner edges to be round off. All walls to have a seamless finish, with no visible joint lines.</p> <p>This section of the gallery, will also include for the following items:</p> <ul style="list-style-type: none"> • Installation of 2no. Armour System showcases to be built and fitted within the wall structure (case no. 10045 and 10042) refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K). • Production/manufacture and installation of 1no. custom-made vitrines built into wall structure, (vitrine no. V107) refer to Sea Galleries Case & Vitrine Schedule and Vitrine Specification document (Appendix L). • Design/development/production and installation of 2no tactile interactives T5 T6, refer to Tactile brief and Concept design visual (Appendix M). • Production/manufacture and installation of a custom-built shelving unit to house books, DVD's, 1no. coiled rope, rolled up canvas hammock and folded blankets, please refer to visuals. Above contents of shelf to be sourced/produced by Fit-Out contractor and installed within shelf unit. These are accessible tactile items, the Fit-Out contractor to consider security and durability of items. Part of the shelving unit will require glazed fronts, refer to dwg NML 29 (Appendix K). Objects within glazed shelves to be supplied and installed by NML team. • As visitor walk through this section of the gallery, we want to include 4no. suspended hammock above head height. Hammocks to be sourced/produced by Fit-Out contractor and installed securely. The fixing detail to be agreed with client team. Please refer to visuals. • Wall structures (which are either side of the suspended hammocks), to allow for low and high level speakers. Location and positioning of speakers to be agreed with AV Hardware contractor and client team. 		£

	<p>Speakers will need to be concealed in the wall structure, so they are not evidently visible to visitors (purchase of speaker by AV Hardware contractor).</p> <ul style="list-style-type: none"> • Wall structure to include for 3no. portholes, cut away from cladding. 3no. metal rings to frame the holes, (please refer to visual and NML 25). The holes will either house screens behind or be projected onto, the method of will be determined by Digital content contractor. On this wall there will be an additional porthole cut away where a 32" open frame monitor will be housed; a discreet access panel will be required. Monitor spec to be provided once AV Hardware contractor is appointed. Production/manufacture and installation of standalone wall structure. Wall structure to house 24" touchscreen monitor, screen to be provided and installed by AV Hardware contractor, refer to dwg NML 31/Wall (Appendix K) • Include for removal of 1no. set of double old doors, and door frame within corridor where existing public toilets are located just off gallery. Wall void to be infilled, and whole wall to be re- plastered, made good and decorated. Door/doorframe size 2.4m (H) x 1.8m (W). • <p><i>Refer to drawings and visuals (Appendix K)</i></p> <p>NML 25/Elevation - Dwg NML 26/Elevation - Dwg NML 27/Plinth - Dwg NML 28/Plinth - Dwg NML 29/Shelves - Dwg NML 30/Wall - Dwg NML 31/Wall – Dwg NML Life on Board – Visuals Existing Armour Systems Case As-Built Dwgs</p>		
	<p>Area 5: Liners & Leisure</p> <p>Fit-Out contractor to design/manufacture and install the new exhibition walls structure onto the existing clad wall structure. Within the gallery a portion of the walls will be sloped and angled, please refer to visuals. New clad wall structure to be 1-hour fire rated. All wall structures and plinths in this section of the gallery to include built-in metal powder coated kick board. All wall structures to include LED light strip, where indicated on gallery drawings. Contractor to consider access for maintenance of lighting equipment/controls within the wall structure.</p> <p>Wall colour for the gallery will be either white or blue (Client team to confirm on appointment). Wall finish, contractor to suggest a high quality, durable, robust finish that can be easily cleaned and all exposed corner edges to be round off. All walls to have a seamless finish, with no visible joint lines.</p> <p>This section of the gallery, will also include the following items:</p> <ul style="list-style-type: none"> • Installation of 4no. Armour System showcases to be built and fitted within the wall structures (case no. 10038, 10037, 10046 and 10056) refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K). • Production/manufacture and installation of 1no. custom-made vitrines built into wall structure (vitrine no. V108) refer to Sea Galleries Case & Vitrine Schedule and Vitrine Specification document (Appendix L). • Design/development/production and installation of 1no tactile interactives T7 refer to Tactile brief and Concept design visual 		£

	<p>(Appendix M).</p> <ul style="list-style-type: none"> Two luggage structures, these structures will provide a contrast in colour and texture, compared to the smooth, bright, clean gallery walls. One luggage structure will be a tall stacked structure system, which will be used to map project onto, this side of the structure will need to have a smooth surface finish. When structure is built the AV Hardware contractor will need to come to site to install AV hardware equipment and carry out the programme mapping of the imagery/footage onto the face of the luggage structure. Second luggage structure is another tall stacked structure and will house 2no. Armour Systems desktop cases (case no. 10046 and 10056) refer to 'Existing Armour Systems Display Case As-built Drawings (Appendix K). This structure also includes mocked up suitcases and hat boxes, this structure can be fixed back to the existing stud wall in gallery B. Within elevation NML-32 (Appendix K) we will be mounting x 6no. glass panel objects from the Mauritania ship. These panels will be mounted within a glazed window system to be designed and built by the main fit out contractor, refer to drawing NML-35 (Appendix K) Each window will contain dimmable LED lighting on each side so we can backlight each glass panel object. Contractor to consider access for maintenance of lighting equipment/controls within the wall structure. The glass panels are heavy and delicate and will be installed by NML team. The section of the wall behind the panels will have a wood veneer finish to give the impression of a luxury liner, refer to Liners and Leisure visuals. In this section there is also two large existing showcases in situ, please reference NML-01 (Appendix K) for position and footprint, case names Gertude & Children. Both cases require upgrade of the light system and fittings; please refer to point 11 below for lighting specification details. In front of the Gertrude case is a tall and slim unit to house a 19" screen, this will need brackets so we can secure it to the existing gallery pillar and fixed or weighted to the floor. On the two sides of the Gertrude case we need the existing stud walls to be extended as shown on NML-01 (Appendix K), these walls will be built around the existing gallery pillars and will match the existing stud wall profile. Removal of all existing low-level skirting's fronts and replaced with new skirting fronts. Existing wall areas by entrance and exit to Titanic gallery to be decorated (colours to be confirmed by client team on appointment) Bulkhead cladding on exit from Titanic gallery to be removed to expose existing brickwork detail Existing access hatches to be made good and repaired. New hatch cover fronts to be produced and fitted <p><i>Refer to drawings and visuals (Appendix K):</i></p> <p>NML 32/Elevation - Dwg NML 33/Wall - Dwg NML 34/Vitrine - Dwg NML 35/Wall detail - Dwg NML 36/Wall - Dwg NML 37/AV Unit - Dwg NML Liners & Leisure – Visuals Existing Armour Systems Case As-Built Dwgs</p>		
--	---	--	--

8.	<p>Case Interior – Case staging and Dress panels</p> <p>Within the gallery there are 16no. cases/vitrines that will require new dress panels and case staging. These will range in shape and size depending on the interior size of the case or vitrine. All dress panels and case staging to be made from 19mm forex apart from case no 10037, where the material for this case interior will be confirmed upon appointment. Some dress panels may require spray finish to be applied; colour to be confirmed on appointment. Please refer to Sea Galleries Case & Vitrine Schedule and Vitrine Specification document (Appendix L).</p> <p>Detail of dress panels and case staging to be confirmed on appointment, provisional sum has been allocated within the tender for this element of work. On appointment Client team will provide confirmed details of dress panel and case staging requirements. The appointed Fit-Out contractor will be asked to cost for works as per requirements. This element of work will go through a Change Control process, provisional sum will be omitted at start of contract and revised cost will be submitted.</p>		£
9.	<p>Tactile Interactives</p> <p>The gallery will include 7no. new tactile interactives around the two galleries. The tactile interactives will vary in size and scale, some will be mechanical, and others will have electronic elements. Concept ideas of the 7no. tactile interactives have been put together by the client team, refer to Tactile brief and Concept design visual (Appendix M).</p> <p>These are only concept ideas, and client team is looking to the Fit-out contractor to develop these concept ideas and provide the client team with detailed designs for approval. All interactives are based on a family audience; they need to be accessible to all visitors. Majority of our visitors to this venue are adults/tourists, however we want to include for families. Therefore, we don't want the interactives to be childlike, we want them to compliment the look and feel of the gallery and be accessible for all ages and ability.</p> <p>All tactile interactives need to be high quality, robust, durable, easily cleanable and safe for all visitor use. We get a lot of visitors to the museum, and the tactile interactives need to be able withstand high level of usage, therefore we would like low maintenance solutions. The Fit-Out contractor will be responsible for the final design development / production / manufacture and installation of all interactives on gallery. As part of this tender and based on the concept ideas we would like each tactile interactive itemised in cost.</p> <p>The location of each tactile interactive is detailed on NML-01 (Appendix K) and also included within the drawings for each section.</p>		
10.	<p>Electrical Works</p> <p>As part of the previous phase of works, the Enabling works, the following infrastructure was installed, tested and commissioned:</p> <ul style="list-style-type: none"> • Installation/commission of new Euro track, 3 circuit track, in black (Refer to Enabling works Electrical Services Track Lighting and Middle Gallery Lighting Plan – Appendix K) • Installation/commission of new iLight control system • Installation of dual compartment cable and data containment, this was 		

	<p>installed around the gallery A perimeter walls of the gallery at high level, gallery B doesn't include for new dual compartment cable and data containment.</p> <ul style="list-style-type: none"> • Installation of new Distribution Boards to provide additional power capacity in readiness for the fit-out works • Installation of 3no. WIFI points <p>Fit-Out contractor will be responsible for the installation for all power/data requirements and the lighting installation for the Sea Galleries Fit-Out works, summary of works as listed below:</p> <ul style="list-style-type: none"> • Electrical room situated in gallery B contains new Distribution Boards for the gallery. Power to all areas of the galleries (gallery A & B) to be provided, route to provide power to gallery A from gallery B via floor cable containment. (Refer to KGA Electrical Spec and Combined Electrical Drawings, Appendix K) • All power to run high level via existing dual compartment cable containment and be fed down via new light weight containment which will run behind new wall structures and be secured and fitted to the wall frame structures. • Power requirements for both gallery spaces are indicated in KGA Combined Electrical drawings (Appendix K). • All cable to be black conduit fire rated cable. • The 2nd fix power positions to be confirmed with client team and marked up on site. • Within the Intro area, power will need to come from DB's boards in Gallery B into gallery A and power to be provided to freestanding structure positioned in the centre of the room. • Gallery B, new dual compartment cable containment to be mounted on wall at high level either side of the electrical cupboard, this is to provide power route to displays on wall either side of the gallery. Dual compartment cable containment to be free issued to Fit-Out contractor. • Gallery B on existing clad wall system (one side of the gallery), light weight containment required to be fixed, to provide power requirement for displays. • Gallery B, wall on other side which contains existing case (children's case), power to come via new mounted dual compartment cable containment and run behind existing wall structure to provide power to the existing case and power to new desktop cases housed in stacked suitcase structure. • All cables to be concealed behind walls, no cable to be visible. <p>Refer to appendix N for full Electrical Specification and Electrical Summary of Tender and Appendix K for Combined Electrical Drawings package, this will includes power and data requirements for the following items: display cases, vitrines, digital AV Hardware items, LED strips, tactile interactives, security CCTV.</p> <p>Cables (Cat 5) for new CCTV system to be coordinated and interfaced with wall structures install. Fit-Out contractor to allow for Security Contractor to carry out first fix data cables installation prior to stud wall/cladding install. Second fix/ CCTV camera install to be coordinated with Security Contractor and Client Team once final stud wall/cladding is in place.</p>		
--	--	--	--

11.	<p>Lighting</p> <p>As part of the previous phase of works for the project, the Enabling works, the following infrastructure was installed:</p> <ul style="list-style-type: none"> • Installation/commission of new Euro track in black (3 circuit track) • Installation/commission of new iLight control system <p>Both galleries A & B contain the new 3-circuit euro track and both galleries have had several illuma fittings (ref T340838-BL/GDL/830) installed to provide general spot lighting. The existing general lighting installed has been programmed onto circuit 1, leaving circuits 2 and 3 available for the Exhibition light fittings.</p> <p>The Fit-Out contractor is required to purchase and install/fit 65no. illuma fittings ref T3510VB-BL/SDG/930 for gallery A and 35no illuma fittings ref T3510VB-BL/GLD/930for gallery B. Total number of fittings to be purchase and fitted is no.100. Provisional sum as been included within this contract for all light fittings requirements. Costs to be confirmed once Fit-out contractor is appointed and quantity of fittings have been confirmed.</p> <p>The general lighting in both areas has been set to 50 lux, the fittings specified for the exhibition lighting have integral dimmers. Client team want the flexibility of dimmable fittings, so light levels around the gallery can be set as per the requirements of the gallery displays. Fit-Out contractor to purchase, fit/install all new fittings onto the existing euro track onto circuits 2 &3 and programme fittings onto ilight control system. Client team to confirm location of fittings to the Fit-Out contractor prior to fittings being installed.</p> <p>Within gallery B, there are 2no. existing gallery display cases, one is the large case which is positioned in the centre of the gallery (known as Gertrude case) and other is a smaller case located in the corner of the gallery (known as Children case). Both cases contain old halogen lighting fittings/system which is not fit for purpose in the new display. Fit-Out contractor to upgrade case lightings to a LED dimmable spec. The light fittings within both cases are accessible from the case light attic. Proposal to change light fittings to illuma, framelight LED Lamp fittings ref DFL11060-WH/DL/930. Provisional sum as been included within this contract for all light fittings requirements. Costs to be confirmed once Fit-out contractor is appointed and quantity of fittings have been confirmed.</p> <p>Refer to appendix N for full Electrical Specification and Electrical Summary of Tender and Appendix K for Combined Electrical Drawings package.</p>		
12.	<p>DECORATION WORKS</p> <p>Once all exhibition wall and plinth structures are in place, joints to be taped, filled and made good prior to decoration works being carried out. Any instances where a new wall structure meets an Armour showcase will need to be finished with a bead detail, so there are no visible gaps, method to be approved with client. Walls are required to look seamless and smooth throughout the two galleries areas.</p> <p>All new structures built around existing gallery pillars will require a collar detail to finish the edge where the structure and the pillar meet, method to be agreed with client.</p> <p>All walls/plinths/structures in Gallery A and B to be painted. All walls/plinths/structures to include undercoat and 2no topcoats of paint;</p>		£

	<p>colour to be agreed with contractor in advance of works starting on site.</p> <p>Works to include for the making good and decoration of all existing pillars within gallery B, (no 3 of pillars), colour black to match existing.</p> <p>Make good and decorate all existing walls and pillars in gallery B, colour to be confirmed on appointment. Refer to drawing NML - 01 for locations of existing walls (Appendix K).</p>		
13.	<p>PROVISIONAL SUM</p> <p>Allow for the Provisional sum of £20,000 (Twenty Thousand Pounds) for illuma light fittings, as per quotation ref Q016550-4, dated 31 July 2019. (Qty 100 T3510VB-BL/SDG/930 Probeam 1000ml 3000k CR190 LED spotlight Self Dimming 3 circuit fittings and Qty 26 DFL11060-WH/DL/930 Framelight LED Lamp fittings)</p> <p>Allow for the Provisional Sum of £7,000 (Seven Thousand Pounds Only) for all additional Electrical works as detailed under Electrical Services Summary of Tender, item B.</p> <p>Allow for the Provisional Sum of £5,000 (Five Thousand Pounds Only) for undertaking necessary Fire stopping works to various areas. Exact extent of works required to be reviewed on site with NML Estates Team.</p> <p>Allow for the Provisional Sum of £10,000.00 (Ten Thousand Pounds Only) for production/installation of new interior case plinths, backboards as per display specification requirements. Please refer to Sea Galleries Case & Vitrine Schedule, Vitrine Specification and NML Display Case Performance document (Appendix L).</p> <p>Allow a Contingency Sum of £28,000.00 (Twenty Eight Thousand Pounds) for any unforeseen works that may found to be required once works are underway. This sum will be expended or deducted at the discretion of the Client</p>		<p>£20,000</p> <p>£7,000</p> <p>£5,000</p> <p>£10,000</p> <p>£28,000</p>
14.	TOTAL		£

TENDER SUMMARY SHEET

1	Preliminaries	£
2	Area 1 (Introduction)	£
3	Area 2 (Work)	£
4	Area 3 (Environment & Campaigning)	£
5	Area 4 (Life on Board)	£
6	Area 5 (Liner & Leisure)	£
7.	Tactile Interactives T1 T2 T3 T4 T5 T6 T7	 £ £ £ £ £ £ £
8.	Vitrine V101 – 108	£
9.	Acrylic Hoods A101 – A102	£
10.	Electrical works	£
11.	Lighting	£
12.	Decoration works	£
13.	Provisional Sum Works	
	Case Interiors	£10,000
	Fire Stopping	£5,000
	Electrical Services re. Item B	£7,000
	Light Fittings (illuminate, as per quotation ref)	£20,000
14.	Contingency	£28,000
15.	TOTAL	£

THIS FORM MUST BE COMPLETED AND RETURNED TOGETHER WITH THE TENDER