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Technical Chapters - Mediterranean Sea Vessels

1. Background

1. The Nature and Parks Authority intends to purchase a Supervision and Enforcement boat that will operate within the territorial waters, the adjacent waters (26 nautical miles) and the exclusive economic zone (EEZ) of the State of Israel in the Mediterranean Sea, to a range of about 60 nautical miles from the shoreline.

2. Technical Specification for Mediterranean Vessel

2. The Nature and Parks Authority's Maritime Unit wishes to receive proposals for a vessel that meets the Administration of Shipping and Ports' standardization for national / international sailing, for a stay of up to 12 hours at sea of four team members and about four additional persons (eight passengers in total).
3. The vessel will have a sailing range of about 200 nautical miles and a sailing capability at a tangential speed of 15-17 knots for 12 hours and a maximal speed of at least 35 knots.
4. The vessel will have three operating areas:
    a. Bow - marine works surface (fastening, towing and anchoring)
    b. Closed bridge - vessel control station (driving, engine control, radar and navigation, communication, observation). The closed bridge will include four seating places for the team members. The closed bridge will be air-conditioned and will enable a wide field of vision and convenient vantage point for the team members.
    c. Stern - work surface for maritime works (towing).
5. The maritime works surface at the bow or stern areas will be at least about five sq.m. in size (mobilization points for diving, pulling out of fishing nets, towing points and pole, storage containers for seamanship equipment as required by the Administration of Shipping and Ports).
6. Seating places for the four additional passengers will be available either at the bow or the stern. The seating position will include chairs or folding or fixed bench and suitable holding points in case of fast sailing.
7. The vessel's ignition system will include at least a pair of external engines. The fuel system will have the ability to separate and divert the fuel from one engine to the other.
8. The vessel's structure will enable sailing near the shore and near navigation obstacles while providing good maneuvering and control options.
9. The vessel's structure will enable access to various vessels and therefore will have a semi-rigid side, or other solution.
10. The vessel will be packed with all safety equipment required pursuant to the Administration of Shipping and Ports' instructions, for national / international sailing.

3. Technical Requirements Table For Mediterranean Vessel

11. General / operational requirements

#	Definition
1	The vessel's structure will enable safe, stable and convenient sailing for the operators over long periods of time and in difficult sea conditions. Manufacturer's details / official recommendations should be included.
2	Maximal speed - at least 35 knots at full load including cargo up to a wave height of 50 cm.
3	Ability to carry a load of 800 kg beyond the full loading point (fuel, safety and operational equipment and maximal number of people).
4	Ability to carry up to about eight people, including four team members in the closed bridge and four passengers at the bow / stern area on folding / fixed seats.
5	Unlimited sailing capability to sea 5, survivability and safe sailing up to sea 7 (See addendum 2).
6	Flat workstation at the bow / stern area, at least five sq/m in size, with anchoring points every one meter without protruding from the deck.
7	The vessel's draft will not exceed one meter.
8	The vessel's maneuvering and performance will enable operations near navigation obstacles. The vessel will have high maneuvering capabilities.

12. Body of the vessel

#	Definition
9	The vessel will have towing and drawing capabilities suited to the size of the proposed vessel and a speed of 12 knots. A towing and drawing system is required.
10	The vessel's design and structure will provide maximal safety for the team. The vessel will meet the instructions of the Ministry of Transport under the 'small vessels' category. (See addendum G2).
11	The entire walking surface on the closed bridge and the external decks will be coated with an anti-slip material that is easy to clean, as per an acceptable EU standard.
12	Water tanks will contain at least 200 liters as required by the Administration of Shipping and Ports (see addendum E2). The deck will have an extractable water tap for exterior shower (and optional sink). The water will be used for drinking and washing the windows.
13	Below the waterline, the body of the vessel will be painted with an anti-fowling paint as per an acceptable EU standard.
14	The vessel's stability will be according to the marine engineering standards. The stability envelope will contain all of the vessel's loading states.

#	Definition
15	The vessel's compartments will be accessible for inspection and operation or equipment / various complexes.
16	The length of the vessel will be 10.5-12.5 meters.
17	The vessel will have a strong maritime structure. All structural materials will be suited to the environmental conditions including sea water and salty environment.
18	A constructive protection arch will be installed around the external engines (frame / railing).
19	The vessel's deck will be above the waterline and will include drainage of sea water in case the deck becomes wet.
20	A convenient and safe walk around will be enabled on both sides of the closed bridge from the bow to the stern and vice versa.

13. Ignition system and fuel

#	Definition
21	The vessel's ignition system will be comprised of at least two external engines. The proposal should include a further identical engine and a further stern-drive engine as spare parts.
22	The ignition system will be required to work under maximal weather conditions of: Air temperature up to 50 degrees, moisture up to 100%, and sea water temperature up to 32 degrees.
23	The ignition system will be made by a known manufacturer and offer service and support in Israel. The system will include all components, from the propeller to the helm, including the hydraulic / electrical hydraulic steering system, the hydraulic / electric hydraulic engine couplers, throttles and digital display clocks.

14. The vessel's systems

#	Definition
24	The seats of the passengers will be folded / fixed. Railings and holding points will be convenient, accessible and sufficient for the four passengers.
25	Each vessel will contain all safety equipment required as per the Administration of Shipping and Ports' regulations for national / international / voyage (addendum E2). See list of required equipment as per the Administration of Shipping and Ports' standard for national / international / voyage.
26	In addition to the requirements of the Administration of Shipping and Ports' "Safety Equipment Standard for a Ship Embarking on an International / National Voyage" the control panel will include a maritime communication device, PA System, spotlight control, depth meter, 12 watt electrical sockets, GPS and AIS. All the above shall conform to acceptable EU standards.

#	Definition
27	The equipment that is exposed to maritime environmental conditions will be suited to a UV radiation level. The vessel and its systems will be suited for working within weather limitations (heat of up to 50 degrees, up to 100% humidity).
28	Work / flood lights will be installed on decks.
29	Maritime equipment will be available on the vessel, including four fastening ropes and six fenders.
30	The contents of the spare parts and designated work tools required for handling the vessel and provided under this proposal should be detailed.

15. Bridge and controls

#	Definition
31	The bridge's systems will be managed by an electronic navigation system (command and control) having direct interfaces to the GPS, navigation radar and optronic-thermal scanning and photography system (see addendum to technical requirements). The Navigation system will be based on a maritime map, and will enable presentation and follow-up of aims, analysis of transportation data, marking of navigation obstacles and real-time warning capabilities (navigation, depths, collision, etc.). The navigation radar will enable detection and follow-up of at least 50 maritime goals. An optronic-thermal system will enable automatic detection, scanning and photography over wide areas, classification and follow-up while specifying an aim for the radar or the command and control system. The system will integrate with the other systems on the bridge, such as: Spotlight depth gauge, PA System, drone, etc.
32	The vessel's control panel will include the relevant clocks and controls for the ignition and fuel system, electrical system and bilge.
33	The bilge system is controlled from the closed bridge. The system will include warnings and a pump operation option.
34	Doors and windows, with at least one door between the closed bridge and the direction of the stern. The bridge will be installed with sliding windows, including windshield wipers and a spraying system for the front windows. Shading should be provided for the windows.
35	The vessel's mast will enable the location of observation means, spotlight, PA System and radar.
36	The four seats for staff members on the closed bridge will be damped and rotatable.
37	The closed bridge will be air-conditioned to suit the temperature expected in summer in the eastern Mediterranean. (50 degrees outside, 20 degrees inside)
38	The closed bridge will control the warnings of all systems on the vessel.

#	Definition
39	The closed bridge will include sufficient storage places to store personal equipment for eight people, as well as communication and electronic equipment (in addition to the requirements of the Administration of Shipping and Ports in addendum E2) and a V12 refrigerator with at least 30 liters volume, and locked weapons mounting suitable for about four long weapons.

16. Warranty and guarantee

#	Definition
40	The bidder will provide a warranty for the vessel and all its complexes for at least one year following handover of the vessel to the client.
41	The proposal will include arrival / transport to the marina in Herzliya, a suitable launching cradle for hoisting / docking, costs and all other required and additional expenses until handover of the vessel to the client, including registration and licensing at the Ministry of Transportation (seaworthiness) and payment of all relevant tolls and taxes.
42	The bidder will ensure that all suppliers of the equipment installed on the vessel offer service in Israel through a physical representation located in Israel.

17. Training, operation and maintenance leaflets and drawings

#	Definition
43	Preliminary training should be provided, as well as system drawings, organization, body of the vessel, systems' drawings, certificates, operation and maintenance books / folders for the vessel's systems.

Technical Chapters - Sea of Galilee (Lake Kinneret) Vessel

1. Background

1. The Nature and Parks Authority intends to purchase a Supervision and Enforcement boat that will operate at Lake Kinneret.

2. Technical Specification for Lake Kinneret Vessel

2. The Nature and Parks Authority's marine unit wishes to receive proposals for a vessel that meets the Administration of Shipping and Ports' standardization for coastal sailing up to four miles which would enable a stay of up to 12 hours at Lake Kinneret for two team members and about four additional persons (six passengers in total). The vessel will have a sailing range of about 40 nautical miles and a sailing capability at a tangential speed of 15-17 knots for 12 hours and a maximal speed of at least 30 knots.
3. The vessel model should enable excellent maneuvering in shallow sailing areas, with many navigation obstacles such as thicket, trees, rocks, fences, and more.
4. The vessel will have three operating areas:
    a. Bow - marine works surface (fastening, towing and anchoring)
    b. Covered operating station - vessel control station (driving, engine control, radar and navigation, communication, observation). The operating station will enable convenient driving and observation positions on damped seats for the team members. The operating station will enable a wide field of vision and convenient observation point for the team members
    c. Stern - marine works surface (towing)
5. The marine works surface at the bow or stern areas will be at least about three sq.m. in size (mobilization points, pulling out of fishing nets, towing points and pole, storage containers for seamanship equipment as required by the Administration of Shipping and Ports).
6. In addition, the vessel will include seating positions for the four additional passengers at the area of the bow or the stern. The seating position will include chairs / folding or fixed bench and with suitable holding points for fast sailing.
7. The vessel's ignition system will include at least a pair of external engines. The fuel system will include detachable fuel tanks up to 25 kg.
8. The vessel's structure will enable access to various vessels. The vessel will have a rigid side so that a suitable solution should be provided for access / attaching to another vessel.
9. The vessel will be packed with all safety equipment required pursuant to the Administration of Shipping and Ports' instructions, for coastal sailing up to four miles.

3. Technical Requirements Table For Lake Kinneret Vessel

10. General / operational requirements

#	Definition
1	The structure of the vessel will enable safe, stable and convenient sailing for the operators and accessibility to shore in order to lower passengers or bring them on board.
2	Maximal speed - 30 knots at full load including cargo up to a wave height of 30 cm.
3	Ability to carry a load of 200 kg beyond the full loading point (fuel, safety and operational equipment and maximal number of people).
4	Ability to carry up to about six people, including two team members in the closed bridge and four passengers at the bow / stern area on folding / fixed seats.
5	Unlimited sailing capability to sea 3, survivability and safe sailing up to sea 4 (See addendum 1).
6	Flat workstation at the bow / stern area, at least three sq.m. in size, with anchoring points every one meter without protruding from the deck.
7	The vessel's draft will not exceed 50 cm.
8	The vessel's maneuvering and performance will enable operations near navigation obstacles. The vessel will have high maneuvering capabilities.

11. Body of the vessel

#	Definition
9	The vessel will have towing and drawing capabilities suited to the size of the proposed vessel and a speed of ten knots. A towing and drawing system is required.
10	The vessel's design and structure will provide maximal safety for the team. The vessel will meet the instructions of the Ministry of Transport under the 'small vessels' category.
11	All walking surfaces will be made of an anti-slip material that is easy to clean.
12	The body of the vessel will be rigid and smooth, with no protruding objects except for engines.
13	Below the waterline, the body of the vessel will be painted with an anti-fowling paint.
14	The vessel's stability will conform to the maritime engineering standards. The stability envelope will contain all of the vessel's loading states.
15	The vessel's compartments will be accessible for inspection and operation or equipment / various complexes.
16	The length of the vessel will be 6.5-7 meters.
17	The vessel will have a strong maritime structure. All structure materials will be suited to environmental conditions.
18	A constructive protection arch will be installed around the external engine (frame / railing).

#	Definition
19	The vessel's deck will be above the waterline and will include drainage of water in case the deck becomes wet.
20	A convenient and safe walk around will be enabled on both sides of the operating station from the bow to the stern and vice versa.

12. Ignition system and fuel

#	Definition
21	The vessel’s ignition system will be comprised of at least two external engines.
22	The ignition system will be required to work under hot weather conditions (air temperature up to 50 degrees, moisture of up to 100%, and water temperature up to 32 degrees).
23	The ignition system will be made by a known manufacturer offering service and support in Israel. The system will include all components, from the propeller to the helm, including the hydraulic / electrical hydraulic steering system, the hydraulic / electric hydraulic engine couplers, throttles and digital display clocks.

13. The vessel’s systems

#	Definition
24	The seats of the passengers will be folded / fixed. Railings and holding points will be convenient, accessible and sufficient for the four passengers.
25	The vessel will contain lockable storage compartments for all safety equipment required as per the Administration of Shipping and Ports’ regulations for coastal sailing “Safety Equipment Standard for a Private and Commercial Ship for Coastal Sailing (Four Miles)” See required list of equipment as per the Administration of Shipping and Ports’ standard (addendum E2).
26	In addition to the requirements of the Administration of Shipping and Ports’ "Safety Equipment Standard for a Private and Commercial Ship for Coastal Sailing (Four Miles)" the control panel will include a maritime communication device, PA System, spotlight control, depth meter (installed at the stern), 12 watt electrical sockets and GPS. All the above conform to acceptable EU standards.
27	The equipment that is exposed to maritime environmental conditions will be suited to a UV radiation level. The vessel and its systems will be suited for working within weather limitations (heat of up to 50 degrees, up to 100% humidity).
28	Work / flood lights will be installed on decks.
29	Maritime equipment will be available on the vessel, including four fastening ropes and four fenders.
30	Spare parts and designated work tools required for handling the vessel will be provided in this proposal.

14. Operating station and controls

#	Definition
31	The operating station's systems will be managed by an electronic navigation system (command and control) having direct interfaces to the GPS, navigation radar and optronic scanning and photography system. The Navigation system will be based on a maritime map, and will enable presentation and follow-up of aims, analysis of transportation data, marking of navigation obstacles and real-time warning capabilities (navigation, depths, collision, etc.). The navigation radar will enable detection and follow-up of a large number of maritime goals (at least 50). An optronic system will enable automatic detection, scanning and photography over wide areas, classification and follow-up while specifying an aim for the radar or the command and control system. The system will integrate with the other systems such as: Spotlight depth gauge, PA System, etc.
32	The vessel's control panel will include the relevant clocks and controls for the ignition and fuel system, electrical system and bilge.
33	The bilge system will be controlled from the operating station. The system will include warnings and the option for pump operation.
34	The operating station will include six V12 sockets for charging equipment such as communication devices, phones and flashlights.
35	The vessel's mast will enable the location of observation means, spotlight, PA System and radar.
36	The seats for staff members at the operating station will be damped and rotatable.
37	Control over the warnings of all systems on the vessel will be achieved from the operating station.
38	The operation station will include storage areas enabling locking of personal equipment of the two team members, as well as communication and electronic equipment (in addition to the requirements of the Administration of Shipping and Ports in addendum E2) and a V12 refrigerator with a volume of at least 25 liters.
39	The covered operating station will be shaded.

15. Warranty and guarantee

#	Definition
40	The bidder will provide a warranty for the vessel and all its complexes for at least one year following handover of the vessel to the client.
41	The proposal will include arrival / transport to a point at Lake Kinneret, to be selected at a later stage, standard towing including licensing, costs and all other required and additional expenses until handover of the vessel to the client, including registration and licensing at the Ministry of Transportation (seaworthiness) and payment of applicable tolls and taxes.
42	The bidder will ensure that all suppliers of equipment installed on the vessel offer service in Israel.

16. Training, operation and maintenance leaflets and drawings

#	Definition
43	Initial training should be provided, as well as system drawings, organization, body of the marine vessel, system schemes, certifications, and operation and maintenance books / folders for the vessel's systems.

1. Standards

#	Standard	Link
a.	The Code of Practice for Open Rescue Boats of Less than 15 Meters in Length Rev. 05/2013.	Link
b.	Guidelines for Lifeboats and Rescue Boats, Germanischer Lloyd Aktiengesellschaft Rev 11/2008.	Link
c.	MCA, MGM 280, Small Vessels in Commercial Use for Sport or Pleasure, Workboats and Pilot Boats – Alternative Construction Standards 10/2004.	Link
d.	(SOLAS) Safety of Life at Sea	Link
e.	Administration of Shipping and Ports - Sailing Safety Regulations Safety Equipment Standard for Small Vessels. 07/2008	Link See continued appendix below
f.	Administration of Shipping and Ports - Registration Procedure for Vessel's Sailing Under the Israeli Flag, 09/2017	Link
g.	Administration of Shipping and Ports - Procedure for Granting Engineering Approval for Construction and Purchase of Vessels, 04/2019	Link
h.	The International Association of Classification Societies	Link

Pages 4-8 in the Safety Equipment Standard for a Ship Embarking on an International / National Voyage:

State of Israel
State of Israel
Ministry of Transport
Administration of Shipping and Ports
Small Vessels and Skippers Licensing Unit

Safety Equipment for a Ship / Vessel Embarking on an International / National Voyage

* This category also includes vessels using a foreign flag that are granted a sailing permit.

1. Personal rigid or inflatable **life belts** model 1, as per the number of licensed persons on board (as per the IMO standard or Israeli Standard 1905) that includes a blinker or stick light for each belt.

   The life belts will be marked with the vessel's registration number.

2. **Two Life buoys per ship** - the life buoys will be marked with the vessel's registration number, and may be of the ring or horseshoe model or another alternative device that conforms to the standard.

   Buoys will be connected to a self-lighting light and a 20 meters long rope for each buoy.

3. **Life raft** - The raft will meet the IMO requirements and have certificates attesting to this, as well as to the validity of the inspection. In case of use of a raft intended for areas that are close to shore, it is recommended that the ship be equipped with equipment in a sealed container, ready to be lowered in case of the need to abandon ship.

   The container will include:

   a. 10 liters of water
   b. The ship's pyrotechnical equipment
   c. First aid kit
   d. Signaling mirror
   e. Repair tools for the raft

   Note: The life raft will have an inspection certificate confirming its type and validity.
   In vessels that are not for private use, the life raft will be connected to a hydrostatic release facility.

4. **Fixation harnesses**, connectors and security cords for each harness, will be available at a quantity of half of the permitted number of licensed persons on board.

5. Pyrotechnical equipment that meets the standards (according to the definitions):

   a. Two orange smoke buoys (no flare)

b. Four red parachute fire-works (no gun)

c. Six red hand flares

6. **Drinking water** (recommendation is at least 200 liters per ship).
7. Main anchor - as per the tables (Addendum C)
8. 70 meters chain or rope (according to the tables, stipulated upon the length of the ship).
9. **Secondary anchor** (according to the tables)
10. **Emergency steering wheel** handle or steering oar
11. **First aid kit** number 3. (Addendum E3)
12. **Daily markings kits** (anchoring, with no control, on a sandbank, sails with an engine and is limited in his ability to maneuver) may be separate but requires a fast connection
13. **Navigation lights** as required at a ship, and in addition: anchoring light, sailing with engine, with no control
14. **Kit of flag codes**: Q,O,N,C,B,A
15. **Driving compass** - at least 6" and including lighting
16. **Hand compass** to measure bearings
17. **Flag of the State of Israel**
18. **Fire extinguishers** according to the table (Addendum D)
19. **Extinguishing blanket** - if there is a stove-top cooker on board
20. **Pumps** (for catamaran as detailed for each body)
    a. Manual bilge pump
    b. Fixed electric pump with at least two operational states, manual or off.
    c. Electrical or mechanical pump at the stern area.
21. Audio or audio-visual **bilge warning**, operated by a buoy.

    The buoy will be located in each compartment separately, at the lowest point.
22. **Two buckets** for water extraction.
23. **GPS** + set of reserve batteries for mobile device.
24. **DSC** within the marine VHF at 25W-11W outputs.
25. Alternative **antenna** + cable (if the main antenna is installed at the top of the mast)
26. An **emergency position-indicating radio beacon** (EPIRB) in private vessels while sailing outside the territorial waters; (installation as of July 1, 2011).
27. 7 X 50 marine **binoculars**.
28. Electric, air or horn type **foghorn**.
29. **Ladder** for climbing into the ship from the water.
30. **Signaling mirror**

31. **Voyage log**
32. **Reverberation depth gauge**
33. **Boat hook**
34. **Handheld flashlight** + additional set of backup batteries
35. **Radar echo return**

* **In a ship that is also intended for transport of passengers** it should be ascertained that the ship conforms to further requirements as required in the **Products and Services Supervision Order**.

State of Israel

State of Israel

Ministry of Transport
Administration of Shipping and Ports
Small Vessels and Skippers Licensing Unit

Safety Equipment Standard for a Private and Commercial Ship / Vessel for Coastal Sailing (Four Miles from Shore)

1. Personal rigid or inflatable **life belts** model 1, as per the number of licensed persons on board (As per the IMO standard or Israeli Standard 1905) that includes a blinker or stick light for each belt. The life belts will be marked with the vessel's registration number.
2. **Two life buoys per ship** - the life buoys will be marked with the vessel's registration number, and may be of the ring or horseshoe model or another alternative facility that conforms to the standard.

   Buoys will be connected to a self-lighting light and a 20 meters long rope for each buoy.
3. **In commercial vessels**, a rigid or inflatable life raft conforming to the IMO standard as per the number of passengers and the crew, having a valid inspection certificate (IN SHORE), including hydrostatic release device.
4. Three fixation harnesses, connectors and security cords.
5. Pyrotechnical equipment including:
   a. Two orange smoke buoys (no flare)
   b. Four red parachute fire-works (no gun)
   c. Six red hand flares

   In a ship for private use, only half the quantity.
6. **Drinking water** - one liter per person in a private ship, three liters per person in a commercial ship.
7. **Main anchor** weight - as per the tables.
8. **Rope or chain** for anchoring - at least 70 meters long, as per anchoring table.
9. **Windlass** - in case the weight of the anchor is over 15 kg.
10. **Secondary anchor** as per tables for any vessel over seven meters long.
11. Emergency **steering wheel** handle or steering oar
12. **First aid kit** - for ship for private use - model 2.

For ship for commercial use - model 3.

13. **Daily markings kits** - three black balls and a black cone
14. **Navigation lights** as per the applicable standard.
15. Basic code **flags kit** (Q,N,O,C,B,A)
16. Marine driving **compass** - 6" diameter, including lighting.
17. **Hand compass** to measure bearings
18. **Flag of the State of Israel**
19. Fire **extinguishers** as per tables (not halon)
20. Automatic **fire extinguishing system** in machines room (not halon)
21. Remote **oil closing system** in **commercial marine vessels**
22. **Bilge pumps**:
    a. Manual including the possibility to transfer the suction to all compartments
    b. Electrical - as per the number of compartments with sealed partitions
23. Audio or audio-visual **bilge warning**, operated by a buoy, for each compartment with a sealed partition. The buoy will be located at the lowest point in the compartment.
24. **Two buckets** for water extraction.
25. **GPS** - including backup batteries kit for manual device
26. 7X50 marine **binoculars**
27. Electric, manual or air pressure **foghorn**
28. **Ladder** for climbing into the ship from the water
29. **Signaling mirror**
30. **Fire extinguishing blanket** for ships in which a stove-top cooker is installed
31. **Voyage log**
32. **Reverberation depth gauge**
33. **Mobile sealed handheld flashlight** + backup batteries kit.
34. **Radar echo return** for non-metallic ships
35. **Boat hook**
36. **A marine vessel that transports passengers in return for payment will also be equipped with (from the Products and Services Supervision Order - and regulation 6a):**
    a. Toilet facilities and basins for washing hands
    b. Drinking facilities

c. Suitable signage

d. Protection from rain and sun

e. Addition of 10% life belts for children, suited for children

f. Evacuation openings and ladders at sufficient locations and quantities as needed

g. Safe and comfortable seats for all passengers

h. Ventilation system for closed compartments, to be used by passengers

i. Fencing around surfaces in which passengers are located and at a height of at least 110 cm

37. **In a ship for training purposes, the following will also be installed:**

a. NAVTEX

b. Communication device within the VHF range including 70 DSC

c. Ventilator over map table