**Lot 2 – User Trials Plan**

**Background**

1. The project will undergo assessment trials in in October 2017. The project will replace the skin of the craft only, propulsion of the new capability will be provided by in-service Out Board Motors (OBM).
2. RM Poole Cap Cell will coordinate the necessary trials and feedback findings to CSS-Boats.

**Trial method**

1. The trial will be conducted over three phases:
2. **Phase one**. 11ATT will conduct baseline performance trials.
3. **Phase two.**  The User trial will be conducted by SQEP ranks from MMS, ATW and MAB2 will be tasked with providing trialling troops for the period of one week.
4. **Phase three**. Fleet Diving Unit one will assess the trials craft in relation to D99 serials.
5. The trial will be held at 11ATT (Instow), RM Poole and Horsea Lake in accordance with the outline Main Event List (MEL) below during the periods 09-13 Oct, 16-20 Oct and 23-25 Oct respectively.
6. The trial programme is written to objectively work through Standard Operating Procedures to ensure that the future equipment will be capable of meeting user requirements to ensure that requirements from the Statement of Technical Requirements (SoTR) are trialled and validated against the equipment provided for trial and the Tenderer’s stated performance specifications.
7. Prospective tenderer support is not required to support the trials other than a short handover on delivery of the trials craft and availability on-call should any maintenance be required during the course of the trials.

**Trial report**

1. Upon completion of the trial a full report will be compiled by Cap Cell in a format agreed by CSS-Boats with which a single craft of each size variant can be down selected in accordance with the evaluation criteria.
2. The trial report will provide feedback for each area of evaluation, which will be used to inform the SoTR scoring; these include:
3. Static assessment.
4. Unladen long transit (twin and single engine configuration).
5. Fully laden long transit (twin and single engine configuration).
6. Surf.
7. Maintenance.

**Conclusion**

1. The output trials report will be used to inform the mark given in the paper assessment of the trials craft against the respective requirements.

**Trial Main Events List**

| **Ser**  (a) | **Date**  (b) | **Event**  (c) | **Location**  (d) | **Responsible**  (e) | **Remarks**  (f) | **Trial Craft to Comply with SoTR Reference** |
| --- | --- | --- | --- | --- | --- | --- |
|  | Mon 16 Oct | Handover of equipment | RM Poole - Hard | Cap AWE | * Contractors arrive at designated time – 45 mins each to present and hand over their craft. |  |
|  |  | Static hangar assessment | RM Poole - Hard | Cap AWE | * Full assessment of craft to include:   **Size** – LOA, Beam, packed size.  **Payload** – Space for 4-6 tps, securing points on deck (spare OBM).  **Portability** – Ergonomics of lifting points, weight (in line with SOTR rqts), interoperability assessment.  **User/craft ergonomics** – Berthing lines, payload securing points.  **Signature** – Colour.  **Propulsion factors** – FFB, OBM lanyard securing points, OBM mounting plate.  **Construction** – Inflation/de-inflation (1 bottle, 2 mins min), bottle stowage.  **Ancils** – Paddles, paddle stowage, spares packs, nav light interoperability. | 1.2, 1.3, 1.15  4.9  1.9, 1.23, 3.1  5.2  1.10, 1.17, 1.21, 3.3, 3.4  2.3, 2.4  1.12, 1.20, 3.1.1 |
|  |  | Capsize drills | RM Poole – Hard – Coral | Cap AWE | * Safety, re-boarding points, line placement. | 1.7 |
|  | Tue 17 Oct | Unladen long transit – twin 30hp OBM | Poole harbour,  Poole Bay | Cap AWE | * To include: Stability, ergonomics, WBV factors, equipment stowage, towing, sea keeping ability and performance. | 1.16, 1.23, 1.25, 4.11, 7.1 |
|  |  | Unladen long transit – single 50hp OBM | Poole harbour,  Poole Bay | Cap AWE | * To include: Stability, ergonomics, WBV factors, equipment stowage, towing, sea keeping ability and performance. | 1.16, 1.23, 1.25, 4.11, 7.1 |
|  | Wed 18 Oct | Fully laden long transit – single 50hp OBM | Poole Harbour, Poole Bay | Cap AWE | * To include: Stability, ergonomics, WBV factors, equipment stowage, towing, sea keeping ability and performance. * Route will include shallow water, beachings and rocky landings. | 1.16, 1.23, 1.25, 4.11, 7.1  1.14 |
|  |  | Fully laden long transit – twin 30hp OBM | Poole Harbour, Poole Bay | Cap AWE | * To include: Stability, ergonomics, WBV factors, equipment stowage, towing, sea keeping ability and performance. * Route will include shallow water, beachings and rocky landings. | 1.16, 1.23, 1.25, 4.11, 7.1  1.14 |
|  |  | Load transport for move to Saunton Sands | RM Poole - Hard | Cap AWE | * 4 tonner for moving all boat stores. | 4.6 |
|  | Thu 19 Oct | Operation in Surf | Saunton Sands | Cap AWE | * Assess performance in surf conditions, manoeuvrability in broken/disturbed white water. | 1.16 |
|  | Fri | Maintenance | RM Poole – Hard | LAD/Cap AWE | * Full assessment of any damage or wear and tear accrued during trial plus:   **Puncture Management** – Boat is to be supplied with temporary repair solutions to punctures.  **Self draining deck** – Effectiveness of drain socks.  **Chamber configuration** – Include effectiveness/operation of intercommunicating valves.  **Judgement of ease for 1st, 2nd and 3rd maintenance (Low Level & High Level)** – Military judgment to be applied by SQEP. | 3.1.4, 3.1.5  1.11  2.1, 2.2  6.1, 6.2, 6.3, 9.1, 9.2 |
|  |  | Feedback capture and scoring | Hard – ATW Conf room | Cap AWE | * A brief discussion will take place in order for all ranks to be aware of any findings prior to scoring. * Only ranks who were involved in the trial will score the trials craft. |  |

**Trial plan – UW phase – Main Events List**

| **Ser**  (a) | **DTG**  (b) | **Event**  (c) | **Location**  (d) | **Responsible**  (e) | **Remarks**  (f) |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 23 Oct 17  To  26 Oct 17 | DE&S & Cap Rep personnel arrive. | Fleet Diving Sqn  Horsea Island | FDU1 C\*\* Buffer | * Confirm site access. | NA |
|  |  | Introductions, Trial brief/discussion. | FDU1 C\*\* Mess | OiC & PO(D) | * OiC and C\*\* NCOs to be present. * Refreshments to be made available. | NA |
|  |  | Introduction to 3 x Trial MIBs (A,B,C).  Dive site preparations. | FDU1 load bay  FDU1 Jetty | DE&S/OEM,  C\*\* Buffer | * MIB familiarisation, inflation/deflation, Valise, Securing points (Deployment/Equipment stowage). | 1.5, 1.9, 2.4, 2.5 |
|  |  | Lunch. | TBC | All | * Bank Holiday lunch considerations. |  |
|  |  | Dive brief. | FDU1 Mess | Dive Sup | * All involved to attend. |  |
|  |  | Dive 1, MIB A. | Horsea lake C\*\* training platform | Dive Sup | * Buoyancy check, surface/subsurface. * Gull wing stowage & Casing deck movement. * Full subsurface-surface deployment & recovery. | 1.24  1.5  2.4 |
|  |  | Post dive, site/equipment de-service. | FDU1 | C\*\* Buffer | * Dive sets to be prepared for following day’s diving serials. |  |
|  |  | Post dive debrief, MIB A evaluation. | FDU1 C\*\* Mess | Dive Sup, DE&S/Cap Rep | * Discussion on MIB A performance. |  |
|  |  | DE&S & Cap Rep personnel arrive. | Fleet Diving Sqn  Horsea Island | FDU1 C\*\* Buffer |  |  |
|  | 1300-1700 | Post dive/trial debriefs. | FDU1 C\*\* Mess | Dive Sup, DE&S/Cap Rep |  |  |

| **Event** | **Task (Trialling against)** | **Evidence of Performance Against Requirement Allocated** |
| --- | --- | --- |
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|  |
| Draw equipment – evaluate in packed form | Usability |  |
| Robustness |  |
| Colour |  |
| Assembly and disassembly. (Sterile hanger conditions then simulated *operational.)* | Ergonomics/Simplicity |  |
| Time |  |
| Bag stowage. (Break down craft and ancillary equipment and stow in issued bergans for portage.) | Ergonomics |  |
| Size |  |
| Weight |  |
| Capsize drills | Safety |  |
| Equipment security |  |
| Bailing method |  |
| Load with in-service operational equipment | Load craft with full operational profile equipment and evaluate for form, fit and function. |  |
| Payload, Speed Propulsion and Ergonomics | Delivery with payloads  Extraction with payloads  Space for 4-6 tps, securing points on deck.  Ergonomics of lifting points, weight, interoperability assessment.  User/craft ergonomics – Berthing lines, payload securing points.  Signature – Colour.  Propulsion factors – FFB, OBM lanyard securing points, OBM mounting plate |  |
| User/craft ergonomics – Berthing lines, payload securing points.  Signature – Colour.  Propulsion factors – FFB, OBM lanyard securing points, OBM mounting plate |  |
| Craft handling (light condition) - stability, steering/agility, speed, comfort. |  |
| Towing | Stability |  |
| Attachment/detachment |  |
| Attachment point locations |  |
| Craft ergonomics - deck equipment stowage, rudder operation, seating, comfort. |  |
| Rough sea handling - Surf | Craft’s handling when in light and loaded condition with consideration to stability, speed, steering/agility and comfort. |  |
| Maintenance appraisal | Craft will be inspected at the end of the trial to ascertain any potential weak areas of construction or excessive wear. Military judgement will be used to ascertain ease of repair in the field and in second line conditions. Material failures throughout the trial will be captured here if not already done so. |  |

**Evaluation Table - Trials**

|  |  |
| --- | --- |
| **Evaluation** | **Evidence** |
| High Confidence | The task significantly exceeds the requirement |
| Good Confidence | The task marginally exceeds the requirement |
| Satisfactory | The task meets the requirement |
| Minor Concerns – Low Confidence | The task marginally falls-short of the requirement |
| Major Concerns | The task significantly falls short of the requirement |