



TENDER TO SUPPLY MARINE VESSEL

PROJECT: RCV36

DESIGN NO: 55919

DATE: 18 February 2019

CLIENT: TOKELAU GOVERNMENT

TOK GOVT BB Bid Pak

1. TENDER DETAILS

REFERENCE: RCV 36 Design no 55919

SUBJECT: Construction and fit out of the RCV 36 Alloy vessel to a fully operational stage ready for sea trail .

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CLOSING DATE: 26 April 2019

SUBMISSION OF TENDER: All tenders are to be addressed to the
Director
Department of Transport & Support Services
Apia, Savalalo

and emailed to the following address:

h.mei@tokelau.org.nz

with subject title **“Tender – Marine Vessel 2019”**

REMARKS: The Tokelau Government does not bind themselves to accept the lowest tender or any tender and reserves the right to negotiate with any tenderer about the terms of the offer.

Tenderers will be advised on or before of the award of the contract.

2. GENERAL DISCRPTION OF VESSEL



This design and specification has been supplied by Robson Design for the Tokelau Government for use in the School Bus service in Tokelau Atoll. It is designed to carry 50 school children aged from 5 -12 years and one crew member with provision to carry an additional 5 adults if required. It is fitted with side doors for side loading and has a drop down aft ladder to allow to board from the water in the event of an emergency. The children will sit on alloy park bench style seats with fold down seating for the additional adults in the aft side coamings. There is access to the anchor through the lower centre front screen with a baggage area located either side for the children to store their bags. The front screens are to be fitted with wipers and there are air vents in the front brow with outlets in the forward side coamings. The driving position is aft on a raised helm console area to allow full a view of the children and has additional seating on the forward face of the console for a supervisor if required .The roof has 6 x ventilation hatches and the side windows are acrylic with sliders for ventilation. The construction of the vessel is marine alloy using router cut sheet and extrusion with frames, folded beams and coamings and cut and extruded stringers. The craft is to be constructed using best New Zealand boatbuilding practice to Maritime New Zealand survey standards for a vessel of this type.

NB: *Drawing and Plans are available from Owner upon request from tenderer.*

3. PRINCIPLE DIMENSIONS

LOA	12.167 metres incl boarding platform and bow sprit
Moulded length	11.758
Beam	3.634 metres
Draft	0.95 metres
Displacement	8700 kg approx

4. CONSTRUCTION DETAIL

No	Item Description	No	Item Description
1	The Alloy construction is to be made using 5083/5052 H321 plate and the extrusion to be 6261 or 6061 T6 /T5.	16	Transom 6 mm pl
2	Bottom 5mm pl	17	Tunnel roof stiffener 4mm
3	Spray chine 6mm pl	18	Keel bar 100 x 10 pl
4	Hull sides 4mm pl	19	Bottom stringers 50 x 6 fb
5	Tunnel Roof 4mm pl	20	Front tunnel roof stiffeners 75x40x5 RHS
6	Tunnel corner chamfer plate 4mm pl	21	Side stringers 50 x 6 fb
7	Deck 4mm pl	22	Gunwale 100x50x4
8	Foredeck 4mm pl	23	Deck stringers 25x25x 5 SHS.
9	Roof panels 4mm pl	24	Coaming stiffeners 50x50x4



10	Roof Pillars 4mm pl	25	Cabin posts 100x50x 4mm RHS
11	Roof beams 4mm pl	26	Roof frames 75x50x 6 T Bar
12	Inner coamings 3mm pl	27	Roof Stiffener 80x8mm
13	Helm console 3mm pl	28	Baggage area railing 32x 3 mm
14	Frames 4mm with 50x6 rider bars	29	Deck and roof railing 32x3 mm
15	Watertight bulkheads 4mm with 50x6 fb	30	Transom ladder. 40x3 mm

5. ALLOY FABRICATION SCOPE OF WORK TO INCLUDE

- 5.1 All aluminium parts to complete this scope of work.
- 5.2 All CNC cutting.
- 5.3 All consumables to the extent of this scope of work.
- 5.4 To fabricate the Hull, Cabin, Decks and Hardtop structure.
- 5.5 To fabricate and install the side doors with steps on the inside space.
- 5.6 To fabricate and install deck hatches and gutters to allow access to bilge areas. These hatches to be water tight screwed down in place.
- 5.7 To fabricate the raised helm console area and the seat base. There is to be lifejacket storage under the forward seat base.
- 5.8 To fabricate the transom wall area with provision for engine battery storage there is to be a plastic hatch fitted on the front face.
- 5.9 To fabricate the KARLY Float storage area on the aft transom wall.
- 5.10 To fabricate the centre platform railings and dropdown ladder.
- 5.11 To fabricate and install the anchor bow sprit roller.
- 5.12 To fabricate the anchor locker and hatch.
- 5.13 To fabricate and install 8 x deck cleats.
- 5.14 To fabricate baggage storage area either side of the forward step to the front screen. The railing height to allow young children to reach their bags.
- 5.15 To fabricate the front centre step to allow access though the lower centre screen to the anchor.
- 5.16 To fabricate the front coaming air vents and water traps with sliding covers over the exits on the front side coamings.
- 5.17 To allow to fit under floor ducting from the helm console to the transom wall are
- 5.18 To allow to fit under floor pipe ducting from the tank area to the transom area.
- 5.19 To fabricate the fold down V.I.P aft side seats. These seats to have clip-on upholstered bottom cushions.
- 5.20 To fabricate the school children seating. This to be a park bench type with a extrusion or finished folded panel on legs. There is to be provision for life jacket storage under these seats.



- 5.21 To fabricate and install 2 x 300 litre alloy fuel tank with all threaded fitting sockets and inspection ports and sender units.
- 5.22 To fabricate and supply the fender system. The fenders be a UHMW fender system or similar.
- 5.23 To fabricate roof railings and cabin hand rails were to suit best practice.
- 5.24 To fabricate mountings for 2x Life Rings.
- 5.25 To fabricate mountings for fire extinguishers

6. FITOUT AND ENGINEERING

- 6.1 The builder to fabricate the required mountings for the following supply items and to include all the required electrical and plumbing connections.
- 6.2 To supply 2 x 90 hp Honda outboards with propellers.
- 6.3 To supply the complete engine control system.
- 6.4 To supply the Ultraflex steering system to suit the 90 hp Honda Outboards.
- 6.5 To supply the deck fillers with 38mm Vetus Marine fuel hose.
- 6.6 To supply Deck breathers with 19 mm Vetus Marine Fuel hose
- 6.7 To supply Sierra fuel filters as per Honda specification.
- 6.8 To supply stainless steel manual shut off valves.
- 6.9 The alloy fuel tanks to be fitted with quality sender units.
- 6.10 To supply and fit plastic helm seat with removable squabs.
- 6.11 To supply and fit the 8mm glass front screens. This to have a opening lower centre panel to allow access to the anchor forward.
- 6.12 To supply and fit sliding acrylic side windows.
- 6.13 To supply and fit 6 x Vetus hatches.

7. ELECTRICAL SYSTEM

- 7.1 The builder to fabricate the required mountings for the following supply items and to include all electrical cabling and connections.
- 7.2 To supply and fit engine Batteries CENTURY 12v to suit Honda outboards. To be installed in vented locker in transom wall.
- 7.3 To supply and fit house battery 100 amp hr to be installed at helm station.
- 7.4 To supply and fit cables marine tinned cable.
- 7.5 To supply and fit main switch panel.
- 7.6 To supply and fit master switches.
- 7.7 To supply and fit Blue Seas Weather Decks switches or similar.
- 7.8 To supply and fit B.E.P Isolation switches.
- 7.9 To supply and fit VHF ICOM or similar.
- 7.10 To fit GPS EPIRB.
- 7.11 To supply and fit LED Navigation Lights.
- 7.12 To supply and fit 3x EXALTO Window wipers on front screens.
- 7.13 To supply and fit a suitable compass.



7.14 To supply and fit LED cabin lights.

8. BILGE PUMPS.

The builder is required to fabricate the required mountings and supply the following items and to include the required connections and piping clamps.

To supply and fit 12 x Johnson L4000 electric bilge pumps with float switches and alarms.

9. PAINTING AND SIGN WRITING

The hull bottom is to be antifouled using Altex AntiFoul for Alloy Boats.

There is to be an allowance for signwriting on the Hull and Cabin sides and a Paint colour or wrap to the cabin sides and roof.

10. OWNER SUPPLIED ITEMS

The owner will supply the safety equipment for the vessel.

11. SURVEY

The vessel is not to be built in Survey but is to be built to Maritime New Zealand survey standards to the plans and specification supplied.

12. CONTRACT

The builder is to supply an example of his standard contract for this type of vessel setting out the payment terms and mile stones.

13. INSURANCE

The vessel is to be insured by the builder during construction and the sea trials.