





CLARIFICATION 2

م وعرو من شوش 2

سرسره بر No:	TES/2021/G-01	3-R01
Project:	Catamaran T	and Supply of Solar Powered-Battery Operated GRP Made type Passenger Ferry including Support for Operation, and Training - Retender
هٔ مِرْد Issued Date	21st December 2021	
<u>َ جُوْرُدُ</u> مُرَوَرُ No. of Pages: -04	Boq: -00	ترور الله الله الله الله الله الله الله الل

Please include this clarification when submitting the bid

Please find attached, answers to the queries received.



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Name: Fathimath Rishfa Ahmed

Signature:

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#	Document Name	Document Reference	Query	Response
1			Vessel capacity is 75 pax. Can you	Seating arrangement will be provided for minimum
			please find me a requirement for the	75 passengers and 3 crew members. The
			accommodation capacity?	dimensions, quality and leg room of the seating
			A. Spacing between seat rows (back-to-	arrangement will ensure a comfortable ride to the
			back)	passengers. The seating will be of cushion type
			B. Width of seats	equipped with life jacket holders. Size of the Ferry:
			C. Number of passengers per m2	20m (L) x 7 m (W)
2			The vessel will be registered with	The vessel will be registered with statutory
			statutory authority. What rules are	authorities. The vessel will meet the requirements of
			applied?	the statutory authorities' rules and amendments
			Croatian Register of Shipping is	thereon and should be built under the leading
			member of IACS.	International Association of Classification Societies
2			Wid COSINI C	(IACS) class (IRS/DNV/ABS/LR/NK/BV)
3			With requirement of 25 kWp for solar	Size of the Ferry: 20m (L) x 7 m (W)
			power, where 200kWp/m2 is considered	
			as high-efficiency panel, we would need	
			rooftop of 125 m2?	
			A. 15x8,3=125m2	
			B. 17x7,3=125m2	
			If this could be corrected to the	
			requirement of 9 kWp, is ideal. What's the correct size of the catamaran to	
4			install solar panels? please clarify? "Battery enclosure must be made of	It will be a box made of stainless steel with ingress
4			stainless steel with ingress protection	
			IP56 or above, with a forced ventilation	protection IP56 or above, equipped with a forced ventilation system
			system. Battery ventilation should be	ventilation system
			designed for an ambient temperature of	
			35oC in shaded conditions. Forced	
			ventilation of the battery box must be	
			independent of the forced ventilation of	
PM/	Or .		the battery room and be isolated from	
ALSTR.	W FINANCE		each other."	
12/	[m]		cucii otilci.	

		I don't understand if this is completely	
		sealed stainless steel box, or is just open	
		stainless-steel box? please clarify?	
5		Fast charging will kill LiFePO4	Marine grade Lithium–iron phosphate batteries with
		batteries. For that purpose, we would	type approval from any of the following
		need NMC batteries.	classification societies IRS/DNV
		Then again, it is mentioned that	GL/ABS/LR/NK/BV will be provided as the energy
		batteries will be charged with 1C (one-	storage medium. Batteries will be certified in
		hour recharging time). please clarify?	accordance to IEC standard 62133-2: 2017 and or
			UL1642. Batteries must have warranty for a "cycle
			life" of minimum 6000 cycles at 80% depth of
			discharge at 1C/1C at 25oC. Actual charging of
			batteries will be as per the solar power plant
			charging current and/ or 20kW, 380-400V fast
			charger.
6		What's is the Subdivision?	The subdivision will comply with statutory/class
		A. Aft peak,	requirements and will be designed to meet the
		B. Engine room,	satisfaction of the registering authority. All
		C. Battery compartment,	subdivision bulkheads will be water tight and
		D. Additional compartment 1	stiffened vertically with spacing conforming to
		E. Fore peak	classification society rules. All opening in
		I don't think we need aft peak	decks/bulkheads shall have rounded corners
		compartment. This is not long vessel,	complying with classification society requirements.
		and anyhow compartments are defined	Continuity of structural members shall be
		by the Classification Rules?	maintained.
7		The wheel house will be provided with	Engine room will house the electric motors
		the following furniture and equipment?	
		Why and engine room is required for	
		sully solar powered catamaran?	
		A. Helmsman's revolving chair - 1 no.	
		B. Cupboard - 1 no.	
		C. Steering wheel & accessories - 1 set	
		D. Remote control for propulsion	
		motors	
		E. Maneuvering Desk with navigational	
		console - 1 no.	
	STRY OF FINA		
//	* 166	F. Engine Room	
AMMA !	(((((((((((((((((((G. Electric horn – 1 no.	
	To Ja	H. Switches and console for	

		Navigational Lights, search light - 1 set I. Echo Sounder – 1 no. J. GPS – 1 no. K. Console and instrumentation for Solar Charge Controller. This Engine Room is probably some mistake.	
8		The tests shall be carried out after completion of the hull and before painting" Please clarify? "Paint performance, including but not limited to anti-fouling performance, shall be fully warranted by the bidder." I don't think this is necessary since we have gelcoat and not painting. please clarify?	In case of coating please read "before coating"
9		Cathodic Protection should be on metal parts but not on the hull since the hull is made of GRP. please clarify?	Only metal parts to be protected
10		It seems this specification is based for specific Solar catamaran in the market. Could you please give us general requirements, instead of specific target solar catamaran?	This is a general specification. Specified for specific requirement. For more details, please see Section 6: Schedule of Supply. 3. Technical Specification.
11		Please send a English translation of the guideline and certification and ship building code of Maldives? Does it meet EUROPEAN STANDARD?	English Translation is not available.
12		We request you to extend the tender submission date by 4 weeks to ensure enough time for preparing the tender documents as per your requirement and to make our best competitive offer.	Note that extension cannot be provided.