PROCUREMENT OF TWO (2) UNITS OF APPROX. 94-METER MULTI-ROLE RESPONSE VESSEL (APPROX. 94M MRRV) BID CLARIFICATIONS AND AMENDMENTS Bid Bulletin No. 1

A. AMENDMENTS/INCLUSIONS

No	ltem	Page	Request for Considerations	Amendments
1.	Instruction to Bidders ITB 24.1 and 27.1	1-11 1-12	Can the Bid Submission Date be extended by two weeks' time?	Deadline of Bid Submission is re-scheduled on <u>27 August</u> <u>2019 at 10:00 A.M.</u> as amended. The Technical Bid Opening shall take place on the same date at 10:30 A.M. as amended.
2.	Technical Specifications, Part G (General Part) 101. General Descriptions and Arrangement	G-2	JICA recommends deleting Philippine Navy because 94-m vessels under MSCIP II is intended carry out mandate of Philippine Coast Guard and not of military agencies.	Deleted the word "Philippine Navy"
3.	Contract Conditions PC 10.6	3-11	Additional provisions are acceptable however contractor's obligation to cover "assistance and a maintenance services" shall be deleted because only those defects arising from the design, engineering, materials and workmanship is covered by contractor's obligation during Defect Liability Period. DOTr is recommended to delete "assistance and a maintenance service"	Deleted the word "assistance and maintenance services to the Employer".
4.	PC 25.2.1	3-17	GC 25.2.1 states that	GC 25.2.1 reinstated
			"Guarantee Test and repeats thereof shall be	

			conducted by the Contractor during the Commissioning of the Facilities or the relevant part thereof to ascertain whether the Facilities or the relevant part can attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees. The Employer shall provide the Contractor with such information as the Contractor may reasonably require in relation to the conduct and results of the Guarantee Test and any repeats thereof."	
5.	PC 39.4	3-31	DOTr is recommended to delete item no. 4 as it is deemed to be one-sided. Any modifications, addition, changes or substitution shall be affected in the cost accordingly.	Deleted "Item No. 4 of PC 39.4"
6.	PC 45.1	3-34	Per DB Guidelines, it should be 28 days after contract effectivity. In case, DOTr intends to establish the DB after the prescribed period, Ad Hoc DB would be more appropriate.	DB shall be an Ad-Hoc Dispute Board to be constituted when dispute arises.
7.	Contract Agreement Appendix 2	3-44	 b.) Builder's Risk Insurance Covering physical loss or damage to the Facilities at the Shipyard, up to the delivery of the vessel at the Site of the Employer. JICA recommend that the phrase in red font shall be 	Deleted "up to the delivery of the vessel at the site of the Employer".

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	deleted since Insurance during delivery is covered by	
	Cargo Insurance.	

B. CLARIFICATIONS

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
1 1	Section TechnicalSpecifications 101 General Descriptionsand Arrangement	G-1	The vessel shall be a sea-going vessel that must be capable of operating efficiently in open waters and should be primarily designed to operate in Philippine sea areas in accordance with World Meteorological Organization (WMO) Global Wave Statistics. Although the vessel will not normally engage on international voyage, it may, when contingencies require, should be able to operate in sea areas other than the Philippine sea areas. Hull form shall be designed for a minimum frictional resistance and low angle of water entrance at the	Wecannotguaranteetheseitems.Weunderstandthisdescriptionisguaranteeditem.	The description is provided as a design guidance. The vessel shall be classified as non-international, however, it may, when contingencies require, operate in waters other than the Philippine sea

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			bow and shall allow full ocean-going capability in rough sea and good behavior in open-ocean. The hull of the vessel must be capable to operate at adverse rough sea condition characterize by 4-meters or higher wave height and the vessel should be able to survive at least Sea State 6 or Beaufort Scale 6 or higher. The motion attitude and behavior of the hull must allow safe aviation operations.		
2	Section TechnicalSpecifications 101 General Descriptionsand Arrangement	G-2 G-3 G-4	I. Search and Rescue II. MARITIME SECURITY AND LAW ENFORCEMENT III. ENVIRONMENTAL PROTECTION IV. DISASTER RESPONSE / HUMANITARIAN ASSISTANCE	We cannot guarantee the items in this "TASK, CAPABILITIES and PERFORMANCE" table. We understand this table is not guaranteed item and reference purpose only.	Task, Capabilities and Performance Table isprovided as reference or guidance in designing and equipping the vessel. Design of the vessel must correspond to the stated task, capabilities and performance of the vessel.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Please delete this description.	
3	Section TechnicalSpecifications 109. Sea Trials 2. Official Sea Trial	G-14	21) Helicopter Launching and Recovery Tests	We cannot provide helicopter (EC145 or equivalent) and helicopter crew and helicopter operation crew by ourselves. We propose the Launching and Recovery test will be carried out at Manila.	Tests of Helicopter will be conducted by PCG in Manila during Final Acceptance Test (FAT). PCG shall provide the helicopter, crew, pilot, mechanic and aviation fuel. However, helicopter/aviation facilities
4	Section TechnicalSpecifications 202. Hull Fittings. 1. Anchoring and Mooring	H-8	4) Towing winch, towing bollard and towing rope Towing capacity design should be able to allow the vessel to provide towing assistance to vessel in distress at high sea (sea state 4) at least equivalent size of 94- meter vessel and higher, with sufficient bollard pull capacity.	We will provide towing winch and related equipment for the vessel to operate in distress at high sea, but we cannot guarantee the towing capacity and bollard pull capacity in such a distress sea condition for any size of vessel.	Bollard Pull Test shall be carried out to demonstrate the capacity is satisfied as per the requirement in the technical specifications before delivery of the vessel at shipyard. Manual related to towing equipment and accessories must be provided. As far as possible, shipbuilder shall

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Please delete this description.	Kunigami-class vessel in designing the towing winch, towing bollard, towing rope and towing capacity. Actual towing demonstration for the two (2) 94-meter MRRV's will be carried out in the Philippines during the Final Acceptance Tests of the 2 nd 94-meter MRRV using the other 94-meter MRRV with the assistance of by —PCG and JCG or Towing Operator assistance. The PCG shall be responsible for coordinating with the JCG, if in case JCG's assistance would be required. Expenses for the actual towing demonstration including for the towing operator assistance (if required) will be assumed by the shipbuilder.
5	Section TechnicalSpecifications 202. Hull Fittings.	H-8	4) Towing winch, towing bollard and towing rope	We are shipbuilder, unfortunately we	Same as above.
	1. Anchoring and Mooring		Contractor/Shipbuilder	have no experience	

No.	ltem	Page	Technical Specification	Bidder's Queries	Answer
			shall provide valid documentation showing the bollard pull capacity of the vessel. Trainings and Manuals for towing operation shall be provided.	for towing operation. We can provide a bollard pull capacity calculation only. We consider Trainings and Manuals for towing operation should be requested to Japan Coast Guard or the other towing ship services. Please delete this description.	also be submitted to be reviewed and checked by the Consultant. Consultant and Employer's representatives shall attend the Bollard Pull Tests.
6	Section TechnicalSpecifications 202. Hull Fittings. 14. Rescue Boat and Davit	H-16	Two (2) units of high speed rescue boats with two (2) units of crane type davits with damping control or telescopic overhead type davit (as appropriate) for each boat shall be provided at the port and starboard side for the storage, launching, hoisting and recovery of rescue boats.	We understand the technical specification precede against General Arrangement that attached with bid document, However there are no space in general	about 8m length with two (2) cranes for the rescue boats is a mission essential requirement. Shipbuilder must design a vessel that can accommodate this requirement. General Arrangement provided in the bidding docs is for reference only and is intended to be

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Item Section TechnicalSpecifications 202. Hull Fittings. 15. Water Gun and ExternalFire Fighting Equipment	Page H-17	Technical Specification	Bidder's Queriesand two (2) unit of crane davit in parallel.We propose to change Two (2) units of 8m rescue boats and two (2) unites of crane davit to One (1) unit of approx. 7.3m rescue boat and One (1) unit of crane davit.We do not recommend to mount the additional one (1) water gun. We propose one (1) 	with their own general arrangement drawings accommodating the required technical specifications. Less than 7-meter rescue boat will be considered non- compliant. One (1) Water Gun with minimum stream range of 90m shall be installed on the fore part of F'cl deck. Two (2) Fire Fighting Monitor with minimum stream range of 70m (for water) shall be provided on the compass deck(port and starboard). As a minimum, one (1)

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				remote monitor on compass deck. Remote monitor can be operated as water gun. 2. We have no space and cannot arrange the additional water Gun on F'cl deck. 3. If necessary simultaneously operation of water gun, pump capacity will be more bigger one.	or starboard) shall be able to be simultaneously operated with their full capacity. Shipbuilder shall provide an
8	Section TechnicalSpecifications 202. Hull Fittings. 16. Helicopter Hangar,Control Room, Helideck andHelicopterLaunchingFacilities	H-18	Operation manuals on ship-helicopter interface including safe helicopter operations at a given sea states shall be provided.	We are shipbuilder, unfortunately we have no experience for helicopter operation. We cannot provide the designated safe helicopter operation at given sea state.	Operation Manuals on Ship- helicopter interface including safe helicopter operations. However, shipbuilder shall adopt ship-helicopter
9	Section TechnicalSpecifications	H-35	Officer Mess room	We consider that	General Arrangement

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	204. Accommodation 4)Furnishing Schedule-2a		Dining Chair x 17 Sofa x 2 Refrigerator(about 400L) x1 Ice maker x1	the required items mentioned on the left side cannot be physically furnished on the officer's mess room. Please change Dining Chair number 17 to 15 and delete the left mentioned items.	serves as a guide or reference only. The bidder shall review the general arrangement and may propose alternatives in order to accommodate the required technical
10	Section TechnicalSpecifications 204. Accommodation 4) Furnishing Schedule-2a	H-35	Crew Mess room Dining Chair x 50 Bench type Sofa x 1	We consider that the required items mentioned on the left side cannot be physically furnished on the crew's mess room. Please change Dining Chair number 50 to 42 and delete the sofa.	Same as above.
11	Section TechnicalSpecifications 204. Accommodation 5) Furnishing Schedule 2b(Medical Room)	H-36		There is just one (1) bed is furnished at medical room on General arrangement. There are not enough	Same as above.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				space to meet your request physically. Please change the specification same as General Arrangement.	
12	Section TechnicalSpecifications 204. Accommodation	H-40	5. Detention Room6. Sport Room (Gym)7. Diving Gear Room8.Marine EnvironmentalProtection Room (MEPRoom)	There are not enough space adjacent the survivor room to meet your request physically. Please delete the left mentioned descriptions.	room but an adequate space adjacent to the survivor room where gym
13	Section TechnicalSpecifications 302. Main Engine 5. Reduction Gear	M-11	Rotating direction of Starboard : Clockwise propeller when going Port : Anticlockwise	We propose and proceed our proven	the vessel can be guaranteed, rotating direction shall be decided by the bidder. The bidder shall also take into consideration that the operating area of the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				will not be changed from the Employer's Requirement, arrangement of the engine room will not be available.	
14	Section Bid Data Sheet ITB 7.1	1-8	In the fifth line of the paragraph, to read as: "The Employer will respond in writing to any request for clarification no later than 14 days prior to the deadline for submission of Bids, provided that such request is received 35 days before the deadline for submission of Bids".	extend period for submission of request for clarification. 35 days before bidding means less than 1 month from	Deadline for Submission of Request for Clarification from Bidders is extended until 25 July 2019.

nswer
he "Protocol of
Acceptance of
at Site" is the
ssued by the
hipbuilder to the
vithin three (3)
satisfactory final
tests in Manila
the Employer's
and signature
e shall have the
ransferring the
rol and risk of
o the Employer.
"Operational Certificate" shall
by the Project

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			accompanying the Protocol of Delivery and Acceptance of the Vessel at Site from the contractor/shipbuilder (except for the Protocol of Personnel Training), the Project Manager in consultation with the Employer and Employer's Consultant shall issue the Operational Acceptance Certificate of the Vessel to the Contractor within three (3) working days after receipt of such documents.	Therefore, we would like to ask you to read "Operational Acceptance Certificate" as	Manager, when upon the Consultant's recommendation, the requirements under the contract agreement including the technical specifications and approved drawings as well as the required "Training at Site" have been satisfactorily achieved or provided by the contractor/ shipbuilder. The Operational Acceptance Certificate shall be issued within three days upon consultant's recommendation to the Project Manager and it shall not be unduly withheld except in cases where in the Project Manager's best judgment, the contractor/ shipbuilder has pending compliance required under the contract which would affect the issuance of the aforementioned certificate. The Operational Acceptance

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
					Certificate issued by the Project Manager is a required document, among others, for the 4 th Installment Payment under the Payment Schedules.
16	Section ParticularConditions PC25.2.4	3-22	5. Effect of Acceptance The Project Manager's issuance of Operational Acceptance Certificate of the vessel to the Contractor as above provided, shall be final and binding so far as conformity of the vessel to the Technical Specifications and Approved Drawings is concerned and shall be deemed as the acceptance of the vessel by the Employer and shall not preclude the Employer from refusing formal delivery of the Vessel at the Site, if the Contractor complies with	Acceptance Certificate is to certify conformity of the vessel to the Technical Specifications and Approved Drawings and also to certify the completion of delivery and acceptance of the vessel. On the other hand, it is described in this clause that the Project Manager's issuance of	Same as above.

No.	Item	Page	Technic	cal Sp	ecificati	on	Bidder's Queries	Answer
			all the	con	ditions	for	Acceptance	
			delivery	ass	herein	set	Certificate of the	
			forth				vessel shall not	
							preclude the	
							Employer from	
							refusing formal	
							delivery of the	
							Vessel at the Site.	
							The delivery and	
							acceptance of the	
							vessel will be	
							completed at the	
							time of issuance of	
							Operational	
							Acceptance	
							Certificate.	
							Therefore we	
							understand that the	
							sentence of "the	
							Project Manager's	
							issuance of	
							Operational	
							Acceptance	
							Certificate of the	
							vessel shall not	
							preclude the	
							Employer from	

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				refusing formal delivery of the Vessel at the Site" will not be applicable since the Vessel has formally been delivered to the Employer.	
17	Section TechnicalSpecifications 16. Helicopter Hangar,Control Room, Helideck andHelicopterLaunchingFacilities	H-19	2) Helicopter control room, landing aids and commanding lights Helicopter control room or aviation room shall be arranged, if possible, at center line aft overlooking the helicopter landing deck.	Helicopter control room or aviation room will be required in the specification, however two (2) Rescue boat also	far as the required function for the helicopter control, communication, and monitoring can be assured, taking into consideration of the rescue boat and boat davit arrangement, etc., subject to finalization and

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Since the CCTV	
				camera with special	
				controller for	
				Helicopter will be	
				fitted aft of	
				Helicopter Hanger,	
				we think its no	
				problem for	
				Helicopter	
				operation.	
				Because of if the	
				rescue boat will be	
				furnished the above	
				the helicopter	
				hanger deck, the	
				room and related	
				antenna will	
				obstacle the smooth	
				boat and crane	
				operation.	

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
18	General	G-1	Although the vessel will	It is stated that the	Please refer to Item No. 1.
	Arrangement		not normally engage on	vessels will go to the	
			international voyage, it	sea area other than	
			may, when	the Philippine sea	

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
19	General Arrangement	G-1	Technical Specification contingencies require, should be able to operate in sea areas other than the Philippine sea areas.	area after the service is started, but please tell us if there is a Sea	General Arrangement attached to the bid document is for reference. The bidder may propose possible plan for the middle stage, and flats around the helicopter for maintenanceas long as bidder can assure the vessel's performance and stability, subject to finalization and Employer's approval during the detailed design stage.
				goes hollow. Is that door for vertical ladder?)	
20	General Arrangement(Esc ape root)	G-1		In the current arrangement, for the escape route from the	0

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				section on the stern side under F'CL DECK, it is necessary to go through the inside of the engine room or heli hangar up to the bow side section of FCGL DECK, which will be assumed as the convening place for escape from vessel in emergency case, so please let us confirm whether there is a problem with the	performance and safety of crew and vessel, subject to finalization and approval during
21	General Arrangement	G-1		escape route or not. When comparing the specification and the general! arrangement, there is no description in the general arrangement such as a Gym described in the specification. In addition, it is stated that 24 foldable chairs are to be arranged in	Please refer to Item No. 9

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Prayer Room in	
				specification, but it	
				seems impossible to	
				arrange in the space	
				described in the	
				general arrangement.	
				It is difficult to arrange	
				all the rooms and the	
				equipment described	
				in the specifications,	
				so the specifications	
				and general	
				arrangement	
				submitted at the time	
				of bidding will be	
				modified by the	
				shipyard. For details,	
				please make	
00	0	0.1		adjustments later on.	Main anning charded has able to mark the
22	General	G-1		It seems that the	Main engine should be able to meet the
	Descriptions and			specifications of the	required performance and must have a
	Arrangement			vessel's main engine	minimum of 24,000 hours mean time
				and machineries in	between overhaul (MTBO). The Employer
				engine room are	shall select and approve the brand and type
				different from our JCG	of main engine proposed by the bidder
				1000 gross—tonnage	during contract negotiation, upon results of
				type vessels. We	3 3 3
	l			recommend a	The bidder must at least propose two (2)

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				specification based on JFE's main engine adopted by our 1000 gross—-tonnage type vessel, but the specification submitted at the time of bidding is based on the tender spec because it is possible for us to cope with either. For details, please make adjustments later on.	design comparable with the latest JCG
23	Principal Dimensions	G-5		Please let us know if there are limits (upper limit values) on main dimensions like as the ship length, breadth, draft, total gross tonnage.	achieved. However, as to length over-all, we
24	4. Speed, Power and Endurance	G-6	Endurance based on above-mentioned tank capacity		calculating endurance, along with main

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Or should we also consider generator consumption? Let us	endurance. Specific calculation standard shall be that of the standard used in the latest JCG Kunigami-class vessel built by
25	 7. Landing On-off Helicopters 1) AIRBUS EC145 T2 2) SIKORSKY 5- 76C 3) AGUSTAWESTL AND. AW139 4) BELL 412EP 	G-8		helicopter,	hence outside of shipyard purchasing. Actual helicopter launching and recovery testing will be done in Manila using available PCG helicopter during Final Acceptance Test. However, helicopter facilities/ equipment and machineries including communications and aviation equipment will be tested in the shipyard.
26	103 Classification, Rules and Regulations	G-9	c) Some consideration regulated by Japanese Maritime Rules for this kind of the ship shall be applied, if necessary.	classified by Class- NK, but is it okay for	constructed under the ClassNK rules. Special approval about the specifications by the Japanese Government (JG) to JCG

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				to JCG vessels also could be applied to the plan vessels?	
27	108 Model tank test	G-13	The Contractor/Shipbuilder shall *** in the Philippine Sea Areas of Responsibility.	The specification document states that the Resistance Test	required conditions shall be submitted as the approval drawing to the Employer and Consultant, and shall be agreed between the Parties prior to the Tank Testing.Shipbuilder/ contractor may adopt specific procedures and tests used in the latest Kunigami-class vessel tank testing subject to discussion between the Parties during the detailed design stage and approval of the Employer. However, as a minimum requirement during tank testing, shipbuilder/ contractor shall simulate
28	2. Official Sea Trial	G-14	(21) Helicopter Launching and Recovery Tests;	It is difficult to confirm the departure and arrival of the helicopter on the vessels in the sea trial or security test in Japan according to	Please refer to Item No. 25.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				the specification.	
				Usually, the JOG	
				patrol vessels will be	
				confirmed by the	
				shipowner after	
				delivery from	
				shipbuilder. We	
				Understand the	
				confirmation should	
				be conducted by the	
				shipowner.	
				We would like to know	
				how to proceed	
				following terms in the	
				planned vessel.	
				(1) Preparation of	
				helicopter	
				(2) Arrangement of	
				the pilot (3) Notification to	
				(3) Notification to relevant ministries	
				and agencies	
				(4) Other Needs	
				investigation of	
				procedures.	
29	110. Vibration	G-16	Necessary sound		New IMO Noise Code (MSC 91/22/Add.1
	and Noise		insulation and isolation		· ·
	2. Noise		shall be provided so as		,

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No.	Item	Page	Technical Specification	Bidder's Queries	Answer
NO.	Item	Page	Technical Specification to keep noise level within the values at normal sea going condition (running at service speed) in accordance with IMO A468 (XII), Code on Noise Level on Board Ships	IMO code. On the other hand, the 1000 gross ton type of JCG has no application of the noise code, and is designed and built according to the internal regulations of the JCG. Please let us confirm the applicable rules for the noise of the planned ship. - Is the new IMO Noise code (MSC 91/22/Add.1 Annex 1) issued in 2014 unnecessary for the planned vessels? - Is the old code necessary to apply? (The content is different from the	of insulations.
20	111 Tring	0.10	The weeks about the second	new code)	
30	111. Trim and Stability	G-16	The vessel shall have sufficient and will float at		As far as possible, design shall be made so the vessel will float at even keel at all
			even keel under all		loading condition and should avoid undue
			reasonable loading	tank at the stern side,	trim. If even keel could not be

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No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			condition	it seems to be difficult to keep the even keel (even trim) draft in case of full load condition. Please let us confirm that all reasonable loading conditions described in the left specifically mean design load and half load. Also please let us know if there are restrictions on the trim and heel angle in case of full load.	maintainedthelimit should be ofless than 2- degreetrim by stern, subject to Employer's approval during the detailed design stage. Trim and heel angle used as a proven design of the latest JCG Kunigami-class vessel may be adopted subject to review of the Consultant and approval of the Employer during the detailed design stage.
31	1.Training at Shipyard	G-22	Helicopter operations demonstration shall be provided		Shipyard Training does not include helicopter operations.
32	2. Personnel (Crew) Training	G-22		About the technical guidance to the crew	Training program shall be submitted to the Employer/Consultant for approval during the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	in Employer's Site 3. Maintenan ce Training			in the Philippines, are there any regulations or special requirement for the staff provided by the shipyard? We understand the shipowner will be responsible for maneuvering of the vessels in the local area.	must be well experienced in their field, and must be able to deliver the training in English language.Risk and control of the vessel including maneuvering belongs to the shipbuilder/contractor until the Project Manager's Final Acceptance of the Vessel
33	4. Onboard technical familiarization during delivery voyage	G-23		for personnel provided by the shipyard?	crew as the main crew during voyage. Number of shipyard crew shall be in

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
24		0.00		aware that all 27 PCG members trained at the shipyard will be on board during repatriation?	waters from Japan to Philippines as much as possible.
34	1. Ship's Manual	G-26	The Deck manual deals with ***Helicopter Operations***	We believe that the operation manual of the helicopter should be conducted by the helicopter purchase maker.	Helicopter manual is provided by PCG/ helicopter manufacturer.
35	Rudders	H-3	Stabilization Equipment, controlled at the bridge, to reduce the rolling motion of the ship shall be provided.	equipped with a fin	
36	2. Steering Gear	H-10	The electric motor shall be started and stopped in the wheel house, steering gear room and engine room.	We think that only the	The electric motor shall be started and stopped in the wheel house and steering gear room.
37	6. Hydraulic	H-11	For right windlass,	We think that the	Yes. One set for the Port and One set for

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Pump Unit		21 MPa x 90 liters/min x 2 sets Electric motor, 37 kW x 1, AC 440 V For left windlass, 21 MPa x 90 liters/min x 2 sets Electric motor, 37 kW x 1, AC 440 V	capacity should be one set for the port side windlass and one set for the starboard	the Starboard.
38	6. Hydraulic Pump Unit	H-11	For aviation fuel oil transfer equipment 21 MPa x 80 liters/min x 1 set Electric motor, 30 kW x 1, AC 440 V	transfer devices will not be used simultaneously with	Independent hydraulic pump unit for aviation fuel oil transfer is required.
39	12. Life Saving Appliances	H-15	Life jacket 71 Rigid or inflatable type Cover-all		lifejackets.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			Safety/Protective Uniform 71 International Orange color with reflectorized PCG Logo in front and reflectorized "coast guard" characters at the back	life jackets are necessary.	"Search and Rescue Equipment- Lifejacket for adults- 50" shall be provided.
40	12. Life Saving Appliances	H-15	Immersion suits 6 SOLAS 2010; JCG/USCG-type approved	When we look at the rules of the JG category four(4) vessel, we think that the immersion suits needs a capacity of 67 people.	Immersion Suit- 24 units (in line with passenger capacity of rescue boat)
41	14. Rescue Boat and Davit	H-16	Two (2) units of high speed rescue boats with two (2) units of crane type davits with damping control or telescopic overhead type davit (as appropriate) for each boat shall be provided at the port and starboard side for the storage, launching,	On the reference general arrangement, there seems to be one high-speed rescue boat and one davit. We think that it is difficult to arrange two high— speed rescue boat and davit but please let us know if there is a plan	Please refer to Item 6.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			hoisting and recovery of rescue boats.	the vessels.	
42	15. Water Gun and External Fire Fighting Equipment	H-17	Two (2) units of water gun monitor for fire suppression shall be provided as follows.	According to the specification, two water guns will be equipped on the vessels, but on the reference general arrangement there is only one for F'CL DECK. In case of JCG 1000 gross tonnage patrol vessel, one (1) set is provided.	Please refer to Item No. 7.
43	2) External Fire Fighting Equipment	H-17	b) Foam liquid tank Capacity of foam tank: abt. 5,400 liters		The expected place of the foam tank will be in the fore store on the F'cl deck (Fr. 30) near the FF monitor. General Arrangement provided in the bidding docs is for reference only and is intended to be used as a guide by the shipbuilder in coming-up with their own general arrangement drawings accommodating the required technical specifications.
44	16. Helicopter Hanger,	H-18 H-19		H-18, H-19 in specification, some	Helicopter Hangar, Control Room, Helideck Fittings, Lights and Helicopter Launching

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
No.	Item Control Room, Helideck and Helicopter Launching Facilities 3) Helideck fittings	Page H-20	Technical Specification	facilities about helicopter operation for achieving the purpose are abstractly stated as following. Ex.) To ensure the possibility of day and night helicopter operations, the vessel should be equipped with a helideck platform, hangar, landing aids and associated equipment. In H-20 page 3) Helideck fittings, there is no specific description of what kind of equipment we shall provide.	and Recovery Facilities were mainly adopted from the 83.6 Meter Offshore Patrol Vessel from France. We will provide the shipbuilder with access to the OPV, including its general arrangement, hangar design and accessories (landings aids/ lights/ fittings, etc.) during the detailed design stage. The bidder is allowed to propose an alternative provided it is equivalent or
				Although there is a sentence "the following fittings and equipment shall be provided as a	

minimum', only 5 items are listed and there is no description for shutters etc. where proper nouns appear on H18, p.19." We would like to know the detail specification		Answer	Bidder's Queries	Technical Specification	Page	Item	No.
4516.Helicopter Hanger, Control Room, Helideck and Helicopter Launching FacilitiesH-18Crash landing locker with complete tools and equipment required in case of emergency or crash landing of helicopter due to accident onboard shall be provided."Crash landing seems to be fuselage landing in emergency case, but please tell us what "kind of crash landing locker" is. Complete tools and equipment have special equipment 	ard equipment e Rescue Axe 1), Bolt Cutters rab Hook (1), x spare blades l), ladder (two length 5 mm harness (1), os) (1), Set of arness Knife & Mineral Fibre fire resistant	This item refers to Helicopter Crash Locker Package with standard eq	minimum', only 5 items are listed and there is no description for shutters etc. where proper nouns appear on H18, p.19." We would like to know the detail specification about the helideck fittings. "Crash landing seems to be fuselage landing in emergency case, but please tell us what "kind of crash landing locker" is. Complete tools and equipment have special equipment and please tell us the detailed specification of them when the shipyard should	Crash landing locker with complete tools and equipment required in case of emergency or crash landing of helicopter due to accident onboard shall		16. Helicopter Hanger, Control Room, Helideck and Helicopter Launching	

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
					during detailed design stage.
					Please see attached sample picture of Helicopter Crash Locker.
46	16. Helicopter Hanger, Control Room, Helideck and Helicopter Launching Facilities	H-18	Contractor/Shipbuilder should provide details on how the helicopter will be move and traversed from hangar to flight deck (vice-versa) safely at all stages of ship motion (in accordance with Ship Motion Index).	shipyard's standard design with respect to helicopter transportation between helideck and	Yes.
47	16. Helicopter Hanger, Control Room, Helideck and Helicopter Launching Facilities	H-18		There is no maintenance crane for helicopter on deck. Please add specification if rescue boat davit is used for helicopter maintenance as well.	Rescue boat davit can be used not only for boat but general use, including maintenance for helicopter if possible.
48	16. Helicopter Hanger, Control Room, Helideck and Helicopter	H-18	1) Helicopter Hanger	There is no ceiling crane for helicopter maintenance in hanger. If you need it, please add the	helicopter maintenance if it could be accommodated in their design, subject to approval of the Employer during the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Launching Facilities			specification for it.	
49	16. Helicopter Hanger, Control Room, Helideck and Helicopter Launching Facilities	H-18	1) Helicopter Hanger Fixed helicopter hanger shall be provided. Helicopter hanger shall be designed as to safely store and lash the one EC145 Eurocopter through manual operations, with applicable safety regulations.	EC145 - Principal particulars (size, weight) - Is the blade foldable? (if not, it is	Blade of EC145 is foldable. DIMENSIONS Length 13.64 m Height 3.95 m Main rotor diameter 11.0 m MAIN CHARACTERISTICS MTOW (within the AGW flight envelope up to 3.800 kg) 3,700 kg Useful load 1,781 kg Sling capacity 1,600 kg Please refer to the attached EC 145 Specifications.
50	16. Helicopter Hanger, Control Room, Helideck and Helicopter Launching Facilities	H-18	1) Helicopter Hanger Slipping preventing net, rubber mat	With regard to the Slipping Preventing Net, we understand the "Net" is mention as nonslip paint for helicopter landing deck. Is it correct? If not, please let us know the detail. Also, please let us know the purpose of rubber matt in hanger.	Yes, it refers to nonslip paint for helicopter landing deck and hangar which the shipbuilder/ contractor shall provide. This is in addition to helideck guardrails with nets. Rubber Matt shall be used to soak up drips, spills, splatters, and clean-up oil based spills.
51	16. Helicopter Hanger, Control Room,	H-19	2) Helicopter Control Room, Landing Aids and Commanding Lights	Please let us know	Please refer to Item No. 44.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Helideck and Helicopter Launching Facilities		Deck edge lights, Reference lights, Heading and obstruction lights, Flight deck status lights (stop/go lights), Homing beacon light, Stabilized horizon bar, Glide Slope indicator	and commanding Deck edge lights, Reference lights, Heading and obstruction lights,	
52	4) ROV	H-23	Control System Controller: Joystick Controller at the bridge or as appropriate	Please accept to adopt a portable	Accepted. But it must also provide live video output at wheelhouse and briefing room in addition to other requirements stated in technical specifications.
53	5) Search and Rescue Equipment, etc.	H-23	Line throwing apparatus	With respect to line throwing apparatus, we understand it as line throwing apparatus for "LIFE - SAVING"	Yes. However, in addition, shipbuilder/ contractor shall provide two (2) units for each vessel pneumatic line thrower/ gun for deployment of lines during port berthing operations.
54	1. Painting	H-28	Outside of shell plating and rudder; Below full load waterline EP x 2 SP x 2	load waterline" to be	Lifetime of below full load waterline painting shall be minimum of three (3) years or as proven used in the latest Kunigami-class vessel built by the shipbuilder, whichever is

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
					higher.
55	1. Painting	H-29	Inside of hull: Living spaces, where not lined EP x 1 AR x 2 Living spaces, where lined EP x 1 Engine room, side and deckhead EP x 1 AR x 2 Engine room, bottom EP x 1 Other machinery spaces, side & deck head EP x 1 AR x 2 Other machinery spaces, deck EP x 1 AR x 2 Stores, side & deck head EP x 1 AR x 2 Stores, side & deck head EP x 1 AR x 2 Stores, deck EP x 1 AR x 2 Battery room EP x 2 AR x 2 Inside of rudder EP x 1	walls and ceilings which are not covered by lining or fire insulation, we would like to adopt aqueous coating material as prime/finish coating for environmentally responsible, not EP+AR. Also, where mentioned AR as finish coat, please accept oily coating material instead of AR	Bidder is allowed to propose his alternative provided it is equivalent or superior and of proven design mainly adopted from the latest JCG-Kunigami class vessel, subject to Employer's approval during the detailed design stage.
56	1. Painting	H-29	Inside of tanks, Fuel oil tanks EP x 2	There is some possibility of peeling of paint which is soaked in oil so that we would like to paint	inside the FO tank.Nonetheless, Bidder is

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
57	2. Cathodic	H-30	Impressed current	upper wall and ceiling area which are not soaked in oil. In the Japan Coast	design mainly adopted from the latest JCG- Kunigami class vessel, subject to Employer's approval during the detailed design stage. The bidder can propose alternative provided
	Protection		cathodic protection (ICCP) shall be provided and suitable number of bolted type aluminum anodes shall be fitted to suitable position such as sea chest, bow thruster tunnel, etc.	Guard patrol vessels, the ship's corrosion protection is performed with an aluminum anode. Please replace the installation of	

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
58	2. Piping Material	H-42	Sea water/sewage pipe: Stainless Steel Bilge pipe: Stainless steel Foam fire extinguish pipe: Stainless steel	consumables after services and the handling in case of trouble. It is mentioned that piping material should be used stainless steel for "sea	We prefer SUS316 since the lining may be damage by heat during repair work. Nonetheless, the bidder is allowed to propose alternative provided it is equivalent or superior and of proven design mainly adopted from the JCG Kunigami class vessel, with due consideration to the marine environmental condition in the Philippines,
59	Marine growth preventor Ultrasonic type	M-7		Please let us know what is "Ultrasonic type" and its specification	The bidder is requested to propose alternative provided it is equivalent or superior and of proven design mainly adopted from the JCG Kunigami class vessel, with due consideration to the marine environmental condition in the Philippines, subject to Employer's approval during

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
					detailed design stage.
60	Heat exchangers	M-8		It is not mentioned "heat source. We would like to adopt electrical heat not steam. Is it OK?	Electrical heat will be adopted as heat source.
61	The speed and power of the vessel shall have a general overall load factor of not greater than 50%	M-10		Please let us know how to calculate "general overall load factor"	In the selection of the main engine, the bidder shall consider the mean time between overhaul (MTBO) of at least 24,000 hours with the average load factor of 50% of MCO in accordance with the calculation of the engine manufacturer/ maker. We advise bidder to coordinate or checked with the engine manufacturer/ maker.
62	7. Stern Tube	M-17		Please let us know the reason why stern tube should be filled with lubricating oil. (in a view of our experience, water lubricating is enough)	Lubricating oil is our proposal however, the bidder is allowed to propose alternative provided it is equivalent or superior and of proven design mainly adopted from the JCG Kunigami class vessel, with due consideration to the marine environmental condition in the Philippines, subject to Employer's approval during detailed design stage.
63	Fuel Oil Service Tank Fuel Oil Settling Tank	M-8 M-27		There is no Fuel oil service tank and Fuel oil settling tank on GA although they are	FO service tank in the double bottom is acceptable. The bidder is allowed to propose alternative

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				mentioned in machinery part. It is very difficult to allocate fuel oil service tank which is needed abt. 27m ² if it complies Japan Government rule. Please let us know your basic concept for Fuel oil service tank.	proven design adopted from the JCG Kunigami class vessel, subject to Employer's approval during detailed design stage.
64	3. Power Supply Equipment for Aviation	E-6	One (1) Power supply equipment for starting helicopter engine shall be provided as follow. Input A.C., 440 V 60Hz 3¢ Output D.C. 24 V. 800A	output D.C. is not 24V but 28V. Please let us	Battery installed on EC145 is 24V DC, however, please provide the battery as per the specification of the EC145.
65	Charging & Discharging Board For Helicopter Storage Battery	H-18 E-6		Is "Charging & Discharging Board for Helicopter Storage Battery" used for only EC145 Eurocopter?	Yes.
66	4. Television Receiver and DVD Player	E-9	Four (4) sets of 55-inch color television receivers, DVD players, media players, etc. shall be installed in the	meaning? Please clarity it. With respect to video system, is it	Services Digital Broadcast – Terrestrial.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			officer's mess room, crew's mess room, survivor' s room, and rest space in accordance with the furnishing schedule.	type?	for TV. NTSC Standard is now being phased-out in Japan and Philippines. Shipbuilder shall check compatibility during contract implementation.
67	Electric Lighting 1. General	E-10	For lights including projectors at f'cle deck aft (from Fr. 125 to aft end) shall be of anti- explosive type if they are within 3.0m above maximum draft.	equipment should be anti-explosive type?	Anti-explosive lighting apparatus is only required for that equipment installed winch deck in after part, under 3 meters height from the water line for the occasion of oil contingency operation. Nonetheless, bidder can propose alternative provided it is equivalent or superior and a proven design adopted from the JCG Kunigami class vessel, subject to Employer's approval during detailed design stage.
68	Electric Lighting 1. General	E-10	Control system for lightings shall be provided at the bridge	Is this sentence meaning that control system which can turn on/off all light in ship should be applied at the bridge? With respect to Japan Coast Guard Specification, only exposed lights (including search lights) could be	adopted from the JCG Kunigami class vessel, subject to Employer's approval

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				control at the bridge.	
69	10. Searchlight and Projector	E-11	One (1) 4 kW searchlight of xenon type mounted on stabilizer with remote control at radar mast One (1) 2 kW searchlight of xenon type on bridge deck aft	Is 2 kW searchlight "hand operation" type? It is mentioned 4 kW type is with remote control	One (1) 2kW searchlight of manually controlled xenon type shall be rearranged on higher deck.If the one (1) 2kW searchlight can be made remotely controlled at the bridge by the bidder without extra cost, we accept. The bidder can propose alternative provided it is equivalent or superior and a proven design adopted from the JCG Kunigami class vessel, subject to Employer's approval during detailed design stage.
70	17. Obstruction Lights for Aerial19. Lighting and Gas Detector for Aviation	E-13		With respect to lights mentioned in 17 & 19, is it acceptable for using same lights which applied with Patrol ship with Helicopter of Japan Coast Guard?	Yes, bidder is allowed to propose alternative, if it is of proven use or improved
71	2. Automatic Exchange Telephone System	E-14	One (1) set of automatic exchange telephone system operated on A.C., 240V and D.C., 24V shall be installed for intercommunication among the following	A.C. is not 240V but	AC shall be of 220V.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			spaces		
72	4. Sound Power Telephone System	E-16	Accommodation Spaces: One each	Please let us know the specification of telephone system used in accommodation spaces. (now, only mentioned "one each')	accommodation rooms, survivor room, mess rooms, medical room, diving gear room (drip proof), and galley. Non- waterproof, wall mounting type, calling bell
73	AR Manual push button	E-18		Although it is described as "AR Manual push button" in the item of the engine room, AR" is guessed that a number will be inserted by mistake, so please teach the number.	finalized as per the requirement of
74	13. Day and Night Vision Camera	E-20		It is mentioned that "Capable of Radar and ARPA integration" as its characteristics. Please let us know its function clearly.	Radar and ARPA integration only when associated with other equipment, such as Bridge Management System, if applicable.Employer desire to utilize a day and night vision camera that is equivalent or superior with the day and night vision camera installed in the PCG's 83.6 meter offshore patrol vessel.
75	20. Lightning	E-20	One (1) set of lightning	Please let us know	Up to the Bidder as long as the equipment

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Protection System		protection system shall be installed in the vessel to help protect the vessel from the hazards of lightning strike.	manufacturer of this	is of proven use or currently used in Kunigami-class vessel. If none, the bidder may recommend.
76	Explosion proof specification for electric devices in helicopter hanger			With respect to "Explosion proof specification for electrical devices in helicopter hanger, is it acceptable for applying same rules in case of building patrol vessel with helicopter for Japan Coast Guard?	· · ·
77	501. Facility Management System	S-1	PC based facility management system (FMS) shall be provided for each vessel for planned maintenance system, inventory management and vessel performance data reporting, etc. It shall have an open- architecture,	maintenance manuals and inventory should be prepared as data? With regard to equipment, is it enough to install "instruction manuals and inventory lists of	There is a total of four (4) PC-based FMS System (1 for each vessel, 1 at CG-10 and 1 at CGSSF). PC at CG-10 and CGSSF must have the maintenance manuals and inventory for both vessels, while PC installed at vessel must have its own corresponding manuals and inventory. -The main requirement is for a PC-based FMS that will be used for: 1) planned maintenance system, 2) inventory

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
					 management (spare parts management), 3) vessel performance data reporting, and 4) Others, that may be incorporated by the shipyard for optimum usage of PC based FMS. -Finished plans or as-built plans, instruction manuals should be installed in the PC. -Inventory (list, name/type, numbers, maker, expiry, etc.) of all items or equipment in the vessel must be provided in the PC.
78	Section Technical Specifica tions 101 General Descriptions and Arrangement	G-2	As to vessel design, in order to minimize technical risks and level of uncertainty, the Employer may consider to accept an <u>existingJapan Coast</u> <u>Guard (JCG) similar-</u> <u>type/classproven</u> and widely-used vessel design, subject to such modifications with respect to the Employer's technical and performance	We recognize that this vessel will be designed based on classification society rule. Please note we are not in a position to disclose the JCG rules.	Noted.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			requirements that should be met or applied by the Contractor/Shipbuilder as required in this technical specifications.		
79	Section Technical Specificat ions 4. Speed, Power and Endurance	G-5	Maximum speed onlightloadofthedeadweightat100%MCO withnosea margin	We understand "light load of the deadweight" means just "light ship" that designated in 102.6 Loading Condition.	Correction under the technical specifications: "light ship", shall be changed to "light load".
80	Section Technical Specificat ions 4. Speed, Power and Endurance	G-5	Cruising speed on <u>full</u> load of the <u>deadweight</u> at 30% MCO with no sea margin	We understand "full load of the deadweight" means just "full load" that designated in 102.6 Loading Condition.	Yes.
81	Section Technical	G-7	(4 <u>) Light ship</u>	We understand "light ship" means "light load".	Please refer to Item No. 79.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Specificat ions				
	6. Loading Condition				
	Section		Water in ART : <u>100%</u>	We understand ART	Yes.
82	Technical Specificat ions	G-8		is filled up "Operation load". "Operation load" is determined after	
	6. Loading Condition			design of ART.	
	Section		3) "(4) <u>Light ship</u>	We understand "(4)	Please refer to Item No. 79.
83	Technical Specificat ions	G-8	condition"isthedefinitionbytheEmployeronlyforreference.	Light ship condition" is "light load condition" and sea trial condition that	
	6. Loading Condition			designated in 109. Sea Trials.	
84	Section Technical	G-8	As a minimum, design load of helideck platform and hangar should be able to accommodate the <u>maximum-take-off</u>	Please clarify maximum-take-off weight with a margin for heavy landing conditions/ factor of designated	The heaviest helicopter contemplated to be accommodated in the helideck is the AW 139 with a Gross Weight of 7,000 KGS. It is required that the helideck should be designed to accommodate safe landing and take-off of the listed helicopter models (EC 145, S-76C, AW 139 and Bell 412EP) with

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Specification s 7. Landing On-off Helicop ters		weight of the heavier helicopter listed below with a margin for heavy landing conditions/ factor of safety: 1) AIRBUS EC145T2 2) SIKORSKYS-76C 3) AGUSTAWESTLAND .AW139 4) BELL 412EP	Helicopter. We understand the helicopters (except EC145) cannot accommodate the hangar in the point of view for floor area. There is a conflict with the description of	 allowance for heavy landing conditions or factor of safety. For calculation of allowance for heavy landing conditions or factor of safety, the shipbuilder should refer to the standard used in JCG vessels as they have designed or delivered. For hangar, only EC145 T2 is required to be accommodated. For reference, please see attached helicopter model comparisons and EC 145
85	Section Technical Specificatio ns 107. Inspection and Tests	G- 12	1. Inspection Schedules 1) Kick-Off Meeting and Tank Testing at shipbuilder's country <u>(once for both</u> <u>vessels)</u>	H-18 16.1). We understand as following; "once for both vessels" mean "only one time for this project".	Dimensions and Specifications. As far as possible, kick-off meeting and tank testing should be made only one time for this project (within 5 working days in Japan). However, if the contractor/ shipbuilder would require more than once, then it is acceptable.
86	Section Technical	G- 12	7) The date required by PCG During such <u>critical</u> <u>works inspection</u> , contractor/shipbuilder shall provide office	We understand the critical works inspection is not including in "7) The date required by PCG".	Yes, not included in "the date required by PCG". Sample of critical works are: Installation of major vessel machineries, fitting and welding of major sections of the vessel to form one major part, fitting and welding of steel hull to aluminum superstructure, and

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Specificati ons 107. Inspection and Tests		space and accommodation at/near the Shipyard (with internet and office accessories), meals, insurance and transportation within Japan, to the designated Employer's representatives, while Employer/end-user shall provide for the roundtrip airfare and daily allowances.	Please let us know the sample of the critical work	such other critical works as may be agreed between the parties. Critical works period shall be presented by the shipbuilder/ contractor during the detailed design stage.
87	Section Technical Specificat ions 108. Model Tank Test	G- 13	The Contractor/Shipbuilder shall consider scenario simulating Philippine sea conditions at varying wave amplitudes and frequencies (<u>seastates</u> , local salinity, displacement, sea temperature) to determine the vessel's	Sea state cannot be simulated with tank test. Please delete this "sea state" description.	Please refer to Item No. 10.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			real-life seagoing behavior, during the aforementioned tests.		
88	Section Technical Specificat ions 108. Model Tank Test	G- 13	Model Tank Testing shall be carried out in the presence of the Employer's representatives (DOTr and PCG), <u>classification</u> <u>society</u> and consultant.	Model Tank Testing is not inspection item by classification society. So no certificate will be issued from Class. Please delete this "classification society " description.	We delete "classification society".
89	Section Technical Specificat ions 109. Sea Trials	G- 13	2. Official Sea Trial For progressive speed trial, the trial shall be carried out under the <u>light load of</u> <u>100%deadweight</u> to confirm the guarantee speed.	We understand "light load of the 100% deadweight" means just "light ship" that designated in 102.6 Loading Condition.	Please refer to Item No. 79. Guarantee Speed shall be performed on light load condition.
90	Section Technical Specificat ions		19) External and Internal Communication Tests	HF Communication System with Encryption confirmation etc.	External and Internal Communication Equipment shall be tested in Japan, however, HF Communication System with Encryption confirmation tests will be carried out in the Philippines.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	109. Sea Trials 2. Official Sea Trial	G- 14		With regard to above item, we propose it is necessary to make confirmation in Philippine in a same manner as MSCIP Phase I. For your reference, please note that it is not able to make confirmation of this equipment in Japan due to restriction by	
91	Section General 110.Vibration and Noise 1.Vibration	G- 16	Measurement of vibration shall be carried out on wheel house, accommodation, <u>engine room</u> and local element to confirm that undue vibrations do not occur.	the laws. According to ISO6954-2000, three different classification areas are presented: Classification A; passenger cabin Classification B; crew accommodation areas Classification C; working area	"Engine Room" is changed to "Engine Control Room". However, design, arrangements and installation must take into consideration the avoidance of excessive vibration beyond the acceptable normal limits in accordance with applicable class or JCG or Japan Government rules if there is any.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				Engine room is not applied for above three classification. We propose to change engine room into engine control room.	
92	Section Technical Specificat ions 110. Vibration and Noise	G- 16	2. Noise Necessary sound insulation and isolation shall be provided to keep noise level within the values at normal sea going condition(runningat service speed) in accordance with IMO A468 (XII), Code on Noise Level on BoardShips.	We understand the "normal sea going condition (running at service speed)" means Continuous service output(CSO).	Service Speed shall be approx. 18 Knots.
			Contractor/Shipbuilder shall provide damage control plan to include how damage control	We understand Contractor/Shipbuilde r shall provide "Damage control	Yes. However, bidder can adopt the damage control plan of the latest Kunigami class vessel provided it is equivalent or superior and appropriate to the vessel,

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
93	Section Technical Specificatio ns 111. Trim and Stability	G- 17	and de-flooding will be conducted effectively and its methodology during the detailed design stage. Equipment, tools, etc. for damage control shall be provided.	plan" which is satisfied with only classification rule.	subject to the approval of the Employer during detailed design.
94	Section General 112. Plans and Drawings 1. Plans and Drawings for Approval	G- 18	3D CG image for G/A, typical officer's cabins and wheelhouse shall be provided for the discussion with the Employer with the respective approval documents/drawings.	Please clarify how many officer's cabin we will make 3D CG. And We understand the Helicopter 3D CG is not included.	VIP cabin, CO Cabin, 2 Officer Cabin (1 male, 1 Female). However, the bidder is strongly encouraged to provide 3D CG image of other sections of the vessel in accordance with its capacity, in order to facilitate detailed design and drawings approval. Helicopter 3D CG not included.
95	Section Technical Specificat ions 112. Plans and Drawings	G- 18	2. Final Drawings and Instruction Manuals , in hard copy as well as in electronic copy in <u>CD-ROM and</u> <u>USB device</u> .	Please clarify how many CD- ROM and USB device do you require.	Minimum of 5 each for each vessel.
	Section		Training lessons shall	Please let us know	During Training at Site (Manila). But if original equipment manufacturer can

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
96	Technical Specification s 119. Training and Familiarization for each Vessel	G- 20	be made in English. Contractor/Shipbuilder shall provide localcounterpart <u>Trainor's'.</u>	where we provide The local counterpart Trainor. We understand we will provide the trainor only in Employer's site training stage.	provide Filipino counterpart in Japan, we will accept.
97	Section Technical Specificati ons 119. Training and Familiarization for each Vessel	G- 21	1. Training at shipyard If possible, helicopter operations demonstration shall be provided.	We cannot provide helicopter operations demonstration.	Please refer to Item No. 3.
98	Section Technical Specification s	G- 21	1. Training at shipyard Six (6) persons from MRG Four (4) persons from CGWCEISS	Please let us know what kind of training MRG and CGWICEIS personnel attend. Can we think of the	Training of MRG and CGWCEISS shall be mainly focused on corresponding mission and functions of MRG and CGWCEISS. Training should be aimed at acquiring practical knowledge and skills to undertake operations, repair and maintenance of the corresponding equipment and machinery,

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	119. Training and Familiarization for each Vessel			same training as Ship's Crew?	based on the function and mission of the said units. MRG for Maintenance and Repair Group (onshore), CGWCEISS- for radio-communications, electronics and information systems. Bidder shall propose its Training Program subject to discussion between the parties and approval by the Employer during contract negotiation and/or detailed design stage.
99	Section Technical Specifications 119. Training and Familiarization for each Vessel	G- 23	5. Training Courses i. All aspect of ship's handling ormaneuvering ii. Onboard handling training such as RHIB, Windlass and mooring winch, Bow-thruster, Steering gear, External fire fighting, Air- conditioning, Main engine, Generator, Pumps, Fresh water generator, Communication and navigation equipment	We understand left mentioned training will be attended by all crew designated in 119.1	Training at Site will be attended by the entire crew. They will be grouped or divided into deck, engine, communications, bridge/ navigation, as appropriate, to attend to a specific training based on their onboard competence or assignment. Training Program including number of crew for each specific training, as proposed by the bidder, will be finalized between the parties and approved by the Employer during contract negotiation and/or during detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
100	Section Technical Specificatio ns 119. Training and Familiarization for each Vessel	G- 23	5. Training Courses iii. Special Training focusing on periodical inspection, maintenance, troubleshooting (tools/hand and software), etc., on Main engine, Main generator, controllable pitch propeller (CPP), Communication and Navigation equipment, Air operation equipment, Decompression Chamber, ROV, BMS and Facility Management System at Contractor/Shipbuilder 's site, respective manufacturer's shop and the Employer's Site, as applicable.	Please clarify how many crew will attend left mentioned each special training.	Bidder shall propose minimum number in his Training Program, with due consideration on the manning requirements of the vessel, specific crew functions or onboard assignment, and standard number of personnel required to man a specific equipment or operations based on applicable JCG standard or as required in the Kunigami class vessel, subject to discussion between the parties and Employer approval during contract negotiation and/ or detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			In addition, extensive training for overhauling of Main Engine and CPP shall be conducted		
101	Section Technical Specificatio ns 119. Training and Familiarization for each Vessel	G- 23	5. Training Courses iv. ECDIS (Electric Chart Display and Information System) in conformity with IMO model course	Please clarify how many crew will attend left mentioned each special training.	Please refer to Item No. 100.
102	Section Technical Specificatio ns 119. Training and Familiarization for each Vessel	G- 23	5. Training Courses v. Bridge Resource Management (BRM) and Computerized Maintenance System.	Please clarify how many crew will attend left mentioned each special training.	Please refer to Item No. 100.
103	Section General 121.	G- 26	1. Ship'sManual 2. Maintenance Manual	We would like to	Yes, we confirm. In addition, manual provided by the selected

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Documentation			confirm the "ship manual" means not the manufacturer's manual, but the general instruction manual specific of this vessel about Deck part and Engineering part.	equipment manufacturer/ supplier shall also be furnished to the end-user by the shipbuilder/ contractor once available or until vessel delivery at shipyard.
104	Section Hull Part 19. Armament Foundation	H-6	Type of <u>future</u> <u>armaments</u> and <u>systems</u> shall be discussed during the design stage. Such installation may be subject to Japan governmentapproval.	The prospective armament is not clarify, so it cannot be decided reinforcement area. Please let us know reinforcement area and strength roughly. We understand future armaments related equipment and design will be change order item.	Future armaments, related equipment and design will not be a change order items. Thus, Bidder shall adopt in his design and general arrangement the latest JCG Kunigami class vessel design with respect to the type of future armaments and systems and the corresponding reinforcement area and strength. Bidder shall take into consideration in the design the future requirement for space and power for future armaments and systems, on a fitted for but not with (FFBNW) concept. Final details to be discussed and agreed between the parties during the detailed design stage.
	Section Hull Part	H- 30	1.Painting	We propose the paint of fresh	We shall adopt the proven or improved design or specifications from the JCG latest

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
105	203.Painting and Cathodic Protection		Fresh water tanks: MEPx2	water tank is solvent free type epoxy x one (1) coat.	Kunigami class vessel provided by the shipbuilder.
106	Section Hull Part 203.Painting and Cathodic Protection	H- 30	2.Cathodic Protection <u>The life time of</u> <u>ICCP</u> and anodes shall be two(2) years or more.	We understand the life time of ICCP does not exist. Please delete the description.	Please refer to Item No. 57.
107	Section Hull Part 203.Painting and Cathodic Protection	H- 30	3.Electrolytic and Galvanic Corrosion Protection In addition to ICCP, appropriate <u>equipment</u> <u>forElectrolytic and</u> <u>Galvanic Corrosion</u> must be installed.	Please clarify "equipment for Electrolytic and Galvanic Corrosion".	Please refer to Item No. 57.
108	Section Technical Specificat ions 202. Hull Fittings.	H- 14	5 kg powder type for accommodation and wheel house and briefing room <u>x 15</u>	5 kg powder type fire extinguisher number is so small. We understand necessity number will be decided according to Class Rule.	Number, type and arrangement to be decided in accordance with the class or applicable JCG rules.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	13. Internal Fire Fighting System				
109	Section Technical Specificat ions 13. Internal Fire Fighting System	H- 16	Fireman's outfit 10 sets	The class requirement of the fireman's outfit are two (2) sets. The box of fireman's outfit is 850mm x 450mm x 500mm. We have no space to outfit this boxes to the vessel. Please decrease the number to ten(10) to two (2) of this item for fitting.	10 sets fireman's outfit is mission essential equipment for safety of crew and damage control considering the size of vessel and increasing trends of marine accidents in the Philippines involving ship-related fire. General Arrangement serves as a guide or reference only. The bidder shall review the general arrangement and may propose alternatives to accommodate the required technical specifications.
110	Section Technical Specificat ions 202. Hull Fittings. 14. Rescue Boat and Davit	H- 16	Each Rescue Boat is equipped with :One pilot console and pilot seat; <u>hard</u> <u>points</u> and mount at fore and aft part.	Please tell us the specific reaction force that acts on the hard point.	To be discussed during detailed design stage, but shipbuilder/ contractor should prepare the fore and aft hard points and mount at the rescue boat.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
111	16. Helicopter Hangar, Control Room, Helideck and Helicopter Launching Facilities	H- 18	To ensure the possibility of day and night helicopter operations, the vessel should be equipped with a helideck platform, hangar, landing aids and associated equipment. Vessel and helicopter launching and recovery facilities shall be designed and supplied to allow for helicopter operations up to sea state 4 (WMOsea states) in Philippine sea areas.	We consider that it is difficult to operate under sea state 4. Because, there isn't arresting system. So, the helicopter has to free landing. It is impossible moving the helicopter without towing winch. Please delete this description.	Ship-helicopter interface or operations based on the design of the latest JCG vessel with hangar delivered by the shipbuilder is acceptable. Bidder is required to provide his standard design and equipment for the helicopter to be moved and traversed from hangar to flight deck (vice-versa) safely, similar or equivalent with the JCG standard for vessels with hangar and helideck.
112	Section Technical Specificat ions 202. Hull Fittings. 16. Helicopter	H- 18	The helideck platform, associated equipment and landing aids may be designed <u>usingJapanese Coast</u> <u>Guard norms and</u> <u>standards</u> similar or equivalent to the standards used for the	Although we refer to Japanese Coast Guard norms and standards similar or equivalent to the standards used for the PCG's offshore patrol vessel, We recognize that this	Please refer to Item No. 44.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Hangar, Control Room, Helideck and Helicopter Launching Facilities		PCG's offshore patrol vessel.	vessel will be designed based on classification society rule. Please let us provide PCG's helicopter operation standard.	
113	Section Technical Specificat ions 202. Hull Fittings. 16. Helicopter	H- 18	1) Helicopter Hanger	Thereisnodescriptionabout"foldingKit"thatusedforfoldingHelicopter blade.Please confirm abovekitisnecessaryornot.	To be supplied by the helicopter manufacturer.
	Hangar, Control Room, Helideck and Helicopter Launching Facilities				
	Section		4) Refueling equipment for	We understand that the specification of	far as possible refueling equipment that is of
	Technical Specificat		helicopter Aviation	this pump is as reference. We	proven use or adopted from JCG vessels with hangar and helideck, subject to

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
114	ions 202. Hull Fittings. 16. Helicopter Hangar, Control Room, Helideck and Helicopter Launching Facilities	H- 20	fueltransferpu mp	understand we will decide said specification after detailed design and propose by approval drawing.	Employer's approval during the detailed design stage.
115	Section Technical Specificat ions 202. Hull Fittings. 16. Helicopter Hangar, Control Room, Helideck and Helicopter Launching	H- 21	5) Fire-fighting appliances	We consider its necessary to fit following equipment for hanger according to Class Rule. - Foam monitors x2sets - Hose reel for portable foam nozzle x 2sets - Foam sprinkler x10sets And We also consider its necessary for additional special	Necessary. However, shipbuilder should adopt as far as possible equipment and design that is proven or adopted from JCG vessels with hangar and helideck, subject to Employer's approval during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Facilities			pump for fire-fighting monitor, because lot of seawater will be necessary for this monitor. Please confirm the said equipment is necessary.	
116	Section Technical Specificat ions 202. Hull Fittings. 17. Equipment for Surveillance, Search and Rescue, etc.	H- 22	2) Self breathing diving equipment	The following items are not described in this specification. - Diving computer - Hooded Vest Please confirm the said equipment is necessary or not.	Diving Computer and Hooded Vest (5 sets each) shall be additional supply by the contractor/ shipbuilder. Specifications shall be the type supplied by the shipbuilder for latest JCG Kunigami class vessels or equivalent.
	Section Technical		3) Diving platform	We understand it should be fitted the temporary or fixed	Bidder shall propose similar diving platform as the JCG Kunigami class vessel or the 44-meter PCG MRRV, subject to finalization
117	Specificat	H-		vertical ladder for	and Employer's approval during the detailed

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	ions 202. Hull Fittings. 17. Equipment for Surveillance, Search and Rescue, etc.	23		Diving platform.	design stage.
118	Section Technical Specificat ions 17. Equipment for Surveillance, Search and Rescue, etc.	H- 23	4) ROV It shall be designed to <u>withstand</u> <u>strongcurrents</u> and <u>rough sea.</u>	Please clarify specific condition about left mentioned description.	Bidder shall propose based on proven design or improvement from the latest JCG Kunigami class vessel or its equivalent, subject to Employer's approval during the detailed design stage.
119	Section Technical Specificat ions 17. Equipment for Surveillance,	H- 23	ROV Main Cable	There is no mention of ROV cable reels. Please let us know how to recovery the cable. Is it possible to recover by human power?	ROV Cable Reels for deployment and recovery shall be provided by the shipbuilder/ contractor. Shipbuilder/ contractor to propose based on proven design or improvement from the latest JCG Kunigami class vessel or its equivalent, subject to Employer's approval during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Search and Rescue, etc.				
120	Section Technical Specificat ions 17. Equipment for Surveillance, Search and Rescue, etc.	H- 23	4) ROV	Please clarify specific storage of the ROV and related equipment (Power unit and cable etc.)	Shipbuilder/ contractor to propose based on their proven design or improvement from the latest JCG Kunigami class vessel or its equivalent, subject to Employer's approval during the detailed design stage. Issued GA is for reference or design guidance only.
121	204. Accommodation 3. Furnishing Schedule: 1) Furnishing Schedule-1a	H- 33	Water fountain for potable water from the vessel's freshwater generating system shall be provided where appropriate (bridge/ wheelhouse, dining areas, galley, survivor room, medical room, MEP room, etc.).	Water purified by fresh water generator is not suitable for beverages and cooking. If the water will be drunk, it is common to equip a mineral injection device to sterilize and adjust minerals. The purified water is not delicious and. It is not completely	To clarify, it is required that Water fountains with sterilizer in identified areas in the vessel shall be provided by the shipbuilder/ contractor. One filter w/sterilizer will be fitted in FWT. 1M3 FW tank for drink will be filled from FWG (reverse osmosis membrane type capable of generating minimum of 15 tons/ day). Bidder may propose additional design and equipment necessary to sterilize and purify the potable or drinking water, subject to Employer's approval during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				disinfectable, so we do not recommend from point of view for health.	
122	Section Technical Specifications 204. Accommodation 6) Furnishing Schedule-3a		Wheel House	There are no description about Lavatory at wheelhouse.On the other hand Lavatory is located aft left part of wheelhouse on General arrangement. Please clarify which	Bidder shall propose a design with lavatory at wheelhouse or a design adopted from the latest JCG Kunigami class vessel, subject to finalization and approval of the Employer during the detailed design stage.
123	Section Technical Specifications 204. Accommodation 10.Briefing Room	H-41		is correct. There are no description about Briefing Room on General arrangement.We understand Briefing room is located aft left part space of wheelhouse.	General Arrangement provided in the bidding docs is for reference only and is intended to be used as a guide by the shipbuilder in coming-up with their own general arrangement drawings accommodating the required technical specifications.
			Fresh water	Please let us	Estimates vary, but each person uses about

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
124	Section Technical Specificat ions 205. Deck Piping, Etc. 3. Fresh Water Service Piping	H- 43	generatorx1 Reverse osmosis membrane type Can generate a minimum of 15 tons/day and <u>must be</u> <u>capable of supplying</u> <u>the crew (threetimes</u> <u>the daily normal</u> <u>requirement) with</u> <u>enough allocation for</u> <u>bathing,</u> <u>drinking,washing</u> <u>clothes, lavatories etc.</u>	provide how many capacities the one crew consume water averagely. We cannot judge the Fresh water generator capacity 15 tons/day meet your requirement or not.	80-100 gallons (302 to378 liters) of water per day. Bidder shall propose a design to accommodate said capacity as far as possible, subject to Employer's approval during the detailed design stage.
125	Section Technical Specificat ions 301. General Description & Particulars	M-2	 3) Main and auxiliary diesel engines >Max. exhaust gas pressure after the main engine turbo charger shall be less than 3 kPa. 	Max. gas pressure after the main engine turbo charger are depend on engine manufacturer. We would like to propose you change said value to "more than 3kPa".	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
	Section		Mainair compressor 2 sets	We understand that the specification of	The bidder may propose an alternative design or system which is equivalent or

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
126	Technical Specificat ions 301. General Description & Particulars 4. Particulars of Machinery in Engine Room	M-4	Double-stage, air cooled, driven by electric motor through belts abt. <u>80m3/h (piston</u> <u>displacement) x 2.5</u> <u>MPa</u> EI. Motor <u>30 kW</u>	main air compressor is as reference. We understand we will decide said specification after detail design and propose by approval drawing.	superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
127	Section Technical Specificat ions 301. General Description & Particulars 4. Particulars of Machinery in Engine Room	M-4	Capacity : <u>400cc/st</u> <u>X</u> <u>2.5MPa</u> Driving: <u>Manual</u> <u>operatio</u> <u>n</u>	We understand that the specification of emergency air compressor is as reference. We understand we will decide said specification after detail design and propose by approval drawing.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
	Section Technical Specificat		Low-temp. reserve cooling fresh water pump 2 sets	We understand that the specification of this pump is as reference. We	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
128	ions 301. General Description & Particulars 4. Particulars of Machinery in Engine Room	M-5	Electric motor driven, horizontal, centrifugal <u>625 m3 /h × 0.25 MPa</u> <u>El. motor 65 kW</u>	understand we will decide said specification after detail design and propose by approval drawing.	proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
129	Section Technical Specificat ions 301. General Description & Particulars 4. Particulars of Machinery in Engine Room	M-5	Main cooling sea water pump 2 sets Electric motor driven, horizontal, centrifugal <u>650 m3 /h × 0.2 MPa</u> <u>El. motor 55 kW</u>	We understand that the specification of this pump is as reference. We understand we will decide said specification after detail design and propose by approval drawing.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
	Section Technical Specificat		Waste oiltransferpum p 1 s	We understand that the specification of this pump is as reference. We	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
130	ions 301. General Description & Particulars 4. Particulars of Machinery in Engine Room	M-6		understand we will decide said specification after detail design and propose by approval drawing.	proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
131	Section Technical Specificat ions 301. General Description & Particulars	M-6	Stern tube lubricatingoilpum p	The Employer's requirement for stern tube cooling system is lubrication oil system. However, the engine room is so narrow and there is no enough space to install stern tube lubricating oil pump. Please approve to adapt sea water lubricating type for propeller shafts and stern tubes in addition the stern	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				tube lubricating oil	
			-	system.	
132	Section Technical Specificat ions 301. General Description & Particulars	M-6	Bilge Transfer Pump Electric motor driven, horizontal, piston <u>2 m3/h × 0.25</u> <u>MPa</u> <u>El. motor 1.5 kW</u>	We understand that the specification of this pump is as reference. We understand we will decide said specification after detail design and propose by approval drawing.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
133	Section Technical Specificat ions 301. General Description & Particulars	M-6	CPP lubricatingoilpump	These pumps particulars aredepending oncop manufacturer. We understand we propose you said particular on manufacturer recommendation after detail design.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
			Clean bilge transfer pump for CPP room 1 set	Since there is only a few sea water leakages from	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
134	Section Technical Specificat ions 301. General Description & Particulars	M-7	Electric motor driven, horizontal, centrifugal 0.5 m3/h × 0.25 MPa El. motor 0.75 kW	mechanical seal ring on the shafts, we would like to propose to remove clean bilge system with pump. The leakage of sea water from seal ring will be transferred by bilge transfer pump for engine room. Therefore, this pump will be not necessary.	taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
135	Section Technical Specificat	M-7	Fueloilpurifier 2 sets Type and capacity shall be decided by the Builder considering his detail design result.	We would like to propose to apply fuel oil filter system instead of fuel oil purifier due to the reasons below. 1 The engine room is so narrow and there is no enough space to install fuel	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage. GA is for reference only.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
No.	Item ions 301. General Description & Particulars	Page	Technical Specification	Bidder's Queries oil purifier. 2 Fuel oil purifier is mainly used for oil- water separation. We think marine diesel-light oil is clean enough compare to heavyoil. Therefore, it is not necessary to install fuel oil purifier for	Answer
				 a We propose fuel oil filter system with auto back washtype. 	
136	Section Technical Specificat ions	M-7	Lubricatingoilpurifier 1 set Type and capacity shall be decided by the Builder considering his detail design result.		The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	301. General Description &Particulars			is so narrow and there is no enough space to install lubricating oilpurifier. 2. CJC filter system has for good maintainability.	GA is for reference only.
137	Section Technical Specificat ions 301. General Description & Particulars	M-7	Ventilating supply fan for engine room 4 sets Electric motor driven, axialflow <u>900/450</u> <u>m3/min×400/100</u> <u>Pa, ReversibleEI.</u> <u>motor 15/3kW</u>	We understand that the specification of fan is as reference. We understand we will decide said specification after detail design and propose by approval drawing.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
138	Section Technical Specificat ions	M-8	Heat exchangers	We understand that the number and specification of heat exchanger is as reference. We understand we will	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	301. General			decide said	shipbuilder, subject to approval by the
	Description &			specification after	Employer during the detailed design stage.
	Particulars			detail design and	
				propose by approval	
				drawing.	
139	Section Technical Specificat ions 303. Shafting & Propeller 7. Stern Tube	M- 17	The space between the shaft and the stern tube shall be filled with lubricating oil supplied from the stern tube lubricating oil transfer pump.	Same question as Line 71	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
140	Section Technical Specificat ions 303. Shafting & Propeller	M- 16		There is no description about shaft grounding device. Is there really no request to equip to vessel?	Shipbuilder/ contractor to propose shaft grounding device similar or proven use in the latest JCG Kunigami class vessel, subject to Employer's approval during detailed design stage.
	Section Technical Specificat	M1		We would like to propose the following pump for attachment and	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
141	ions 304. Electric Generator Sets 2. Prime Movers of Main Diesel Generators Sets	9 M2 0		accessories. The reason is same as Line 84 cooling sea water pump 1	proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
142	Section Technical Specificat ions 305. Compressed Air System 2.Main and Emergency Air Compressors	M2 1	Piston displacement: about <u>80</u> m3/h F.A. Delivery pressure: <u>2.5-</u> <u>3.0</u> MPa Driving motor: <u>30</u> kW	Same question as Line 66	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
143	Section Technical Specificat ions	M2	Capacity : <u>400cc/st</u> <u>X</u> <u>2.5MPa</u> Driving:	Same question as Line 67	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	305. Compressed Air System 2.Main and Emergency Air Compressors	2	<u>Manual</u> <u>operatio</u> <u>n</u>		Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
144	Section Technical Specificat ions 306. Cooling Water System 4. Fresh WaterCooling System for Generator Engines	M- 24	High temperature cooling system shall be of system as cooling air cooler and jacket inside by fresh water circulated by cooling fresh water pump of generator engine. Temperature for high temperature for high temperature cooling system shall be controlled by fresh water through temperature regulating valve of generator engine supplied by low temperature fresh watercooling system.	 Please confirm we will apply sea water cooling system for generator instead of High and low temperature cooling system due to the reasons below. 1 The engine room is so narrow and there is no enough space to install said system. 2 The system is provendesign. 	HTCFW for M/E Jacket, and LTCFW for Gen Engine and Auxiliaries shall be investigated during detailed design stage as primary request prior finalizing. Nonetheless, the bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
			6.Purifying System	We would like to	The bidder may propose an alternative

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
145	Section Technical Specificat ions 307. Lubricating Oil System 6.Purifying System	M- 26		propose to apply fuel oil filter system instead of fuel oil purifier due to the reasons below. Same Question as Line 136	design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
146	Section Technical Specificat ions 308. Fuel oil System 4.Purifyin g System 7. Fuel Oil Purifier	M- 27 M- 28	4. Purifying System 7. Fuel Oil Purifier	We would like to propose to apply fuel oil filter system instead of fuel oil purifier due to the reasons below. Same Question as Line 135	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
	Section		The sea chests shall be installed in the bottom of the engine room, and <u>high sea chest</u> shall be provided	High sea chest is required in this paragraph, however, we would like to propose to delete	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Technical		additionally for the	description of high	shipbuilder, subject to approval by the
147	Specificat	M- 31	operation in shallow	sea chest.	Employer during the detailed design stage.
	ions 306. Cooling		water.	The draft of this MRRVs will not be	
	Water System			drastically changed	
	5. Sea Chests			in any condition. In	
				addition, the high	
				sea chest may be	
				clogged by surface	
				plastic garbage.	
				They are the reasons	
				why we recommend	
				not to install high sea	
				chest.	
			<u>One (1) outer funnel</u>	Please clarify One (1) out funnel	Two funnels.
	Section		shall be fitted on center	is miss description.	Nonetheless, The bidder may propose an alternative design or system which is
148	Technical Specificat	M-	line of the hull as	Two (2) out funnel	equivalent or superior to the technical
	ions	32	shown on the General Arrangement, subject	is correct.	specifications taking into consideration
			to detailed design		whether it is of proven use or improved
	312.		finalization by the		version of the latest Kunigami-class vessel
	Miscellaneous		builder.		delivered by the shipbuilder, subject to
	2. Funnel				approval by the Employer during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
149	Section Technical Specificat ions 312. Miscellaneous 11. Fire Extinguishing Appliances & Emergency Devices	M- 34	"Emergency stop buttons for the fuel oil service pump, fuel oil transfer pump, LO transfer pump, LO stand-by pump for CPP, <u>sludge pump</u> , and the ventilating fans shall be so arranged as to be operated from outside of the engineroom."	We understand sludge pump is not necessary to be installed.	If the design provides that there is no direct discharge to the shore, emergency stop switch button for sludge pump is not necessary, subject to Employer's approval during the detailed design stage, with due consideration whether the same is of proven use or equivalent or improvement of the latest JCG Kunigami class vessel.
150	Section Technical Specificat ions 313. Tools & Outfits 2. Outfits	M- 36	Chain block each 2 <u>1 ton</u> ar	There is a conflict in description of chain block capacity. "4. Lifting Gear & Engine Room Hatch (M-33)" : ~ with a chain block of 0.9 ton capacity, ~ Please clarify correct capacity (0.9ton or 1	To be 1.0 Ton, but dependent on the load of main engine manual requirement and safety considerations. The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
				ton).	
151	Section Technical Specificat ions 313. Tools & Outfits	M- 36		There is no description about Bangkok Strainer. We would like to confirm said item is necessary or not. If necessary, please clarify how many number of Bangkok Strainer.	Necessary. Good for 3 years operation for both vessels or in accordance with the Planned Maintenance System.
152	Section Technical Specificat ions 401. General 1. General Description	E-1	Appropriate provision for <u>darken ship</u> during patrol in critical areas shall be provided.	Please advise meaning of "darken ship"	Darken ship- condition where all the ship's external lights are extinguished, and all inside lights are prevented from being seen from outside. Shipbuilder to adopt JCG standard for darken ship.
153	Section Technical Specificat ions	E-3	Where cables pass through watertight decks or bulkheads, <u>watertight cable</u> <u>glands</u> shall be fitted.	There are various type of cable glanding method and it will be decided based on the location of cable	Yes, depending on the type of penetration. As much as possible, shipbuilder/ contractor should adopt proven design of JCG Kunigami vessels.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	402. Cables & Cable Installation 2. Electric Cable Installati on			glanding. Therefore, we also would like to adopt cable coaming covered with putty according to location.	
154	Section Technical Specificat ions 402. Cables & Cable Installation 2. Electric Cable Installati on	E-3	Cables led in cargo spaces or other spaces, where danger of mechanical damage is expected, shall be adequately protected by sheet steel plating or by steel conduit pipes.	We understand that only the cables in cargo spaces are required to be protected by sheet steel plating or by steel conduit pipes.	Should include <u>other spaces</u> where danger of mechanical damage is expected, in accordance with the rules and JCG latest Kunigami class vessel standard.
	Section Technical		The emergency generator shall be of the following particulars and <u>its capacity shall</u>	We would like to confirm the emergency generator will be used as a	Bidder is requested to propose alternative that is of proven design, equivalent or superior, or mainly adopted from the latest JCG Kunigami-class vessel or in

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
155	Specificat ions 403.Electric Power Source 2. Emergency Generator	E-4	besufficient for supplying necessary power whenthe Vessel lie at anchor:	harbor generator or not. The designated specification does not meet the rule requirement. The capacity of the generator needs to be increased.	accordance with the rules requirement, subject to Employer's approval during the detailed design stage.
156	Section Technical Specificat ions 403.Electric Power Source 3. Shore Connection Box	E-4	Connectors between each cable shall be provided for 1 <u>50m(100+50)</u> and200m(100+50+50) length.	y ,	150 Meters cable shall be seamless/ continuous. While specs of 200 Meters cable (100m+50m+50m) shall remain.
	Section Technical		(1) General use battery Voltage and Capacity approx. <u>D.C., 24V</u> <u>x200AH</u>	We understand the capacity of batteries as reference. We understand we will	Yes, the capacity of the batteries shall be finalized after detailed design as per the rules requirement. The bidder may propose an alternative design or system which is

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
157	Specificat ions 403.Electric Power Source 6. Storage Batteries	E-5	(2) Emergency generator starting battery Voltage and Capacity approx. D.C., <u>12V or 24V x</u> <u>80AH</u>	decide said capacity based on selected equipment in machinery part and Classification Rule at detail design phase.	equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
158	Section Technical Specificat ions 404. Switchboards & Distribution Boards 2. Charging & Discharging Board for	E-6	 (1) For General Use Storage Battery shall be installed in wheelhouse. (2) For Helicopter and Rescue Boat Storage Battery The particulars shall be finalized as per the requirement of each equipment. 		The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage. Please check also the specification of EC 145.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
No.	404. Switchboards &Distribution Boards 2. Charging & Discharging Board	E-6	A charging and discharging board for general service storage battery of dead-front independent type shall be installed in wheel house.	emergency generator room. (2) Please provide us the battery type, capacity and maintenance procedure of helicopter(EC145). We believe, It is better to put the emergency switchboard and the charging board on the same board. And the board should be installed in	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
160	404. Switchboards & Distribution	E-7	Emergency stop switch (Engine part , accommodation part and deck part each	emergency generator room. Please let us know What does the emergency stop of the deck part stop?	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest
	Boards		one)		Kunigami-class vessel delivered by the

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	5. Wheelhouse Concentrated Board				shipbuilder, subject to approval by the Employer during the detailed design stage.
161	Section Technical Specificat ions 405. Power Motors	E-7	1.Motors Electric motors shall be provided with the electric space heater where installed on weather deck or wet spaces.	Because manufacturers do not have space heater for their standard small capacity fan. If the specification will applied for small fan, the fan's cost will increase. We propose not to apply the electric space heater for the small capacity fan.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
162	Section Technical Specifications 407. Electric Lighting 10. Searchlight	E-11	One(1) 4 kW searchlight of xenon type mounted on stabilizer with remote control at radar mast.	Please confirm the stabilizer means two (2) axis stabilizer as same as MSCIP Phase I.	Yes, confirmed.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	and Projector		•		
163	Section Technical Specificat ions 407. Electric Lighting 10. Searchlight and Projector	E- 11	One(1) 2 kW searchlight of xenon type on bridge deck aft. Two(2) 1,000 W Sodium Halogen projectors on funnel aft.	Please let us know the purpose of the searchlight and projector. If you intend to use them for helicopter operation, we propose their location to be changed to top of helicopter control room or neighborhood.	The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
164	Section Technical Specificat ions 407. Electric Lighting 10. Searchlig ht and Projector	E-11	Two(2) 1,000 W Sodium Halogen projectors on funnel aft.	Please clarify Sodium or Halogen.	It will be high pressure sodium halogen light, or similar/ equivalent with the latest JCG Kunigami class vessel, is allowed.
			2 - Masthead light of single type	1. The single type	Noted.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
165	Section Technical Specificat ions 407. Electric Lighting 14. Navigation Lights and Indicator Panel	E- 12	1 - Port side light with red lens, of single type 1 - Starboard side light with green lens, of single type 1 - Stern light of single type 2 - Anchor light of singlety pe	lights do not meet the classification rule, so some navigation lights type shall be changed to the doubletype. 2. Please let us know the type of the light which you intend to use (the bulb type or LED type). For your reference, please note that LED type is much expensive than bulb type.	Bidder is requested to propose the design and specifications of the latest JCG Kunigami class vessel, on the type of light, subject to Employer's approval during the detailed design stage. Nonetheless, we inform bidder that LED is preferable.
166	Section Technical Specificat	E-	Each light shall be of fixed type and fed from the A.C., / D.C., 24V power source and controlled by a navigation light	We understand this vessel has emergency generator and the light power supply should be fed via	Noted and as per class requirement, the lights power need to be supplied in case of emergency. Nonetheless, the bidder may propose an alternative design or system which is

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	ions 407. Electric Lighting 14. Navigation Lights and Indicator Panel	12	indicator installed in the wheelhouse.	emergency generator. We propose the above description to be changed to "Each light shall be of fixed type and fed from the A.C. power source and controlled by"	equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
167	Section Technical Specificat ions 407. Electric Lighting 19. Lighting and Gas Detector for Aviation	E- 13	Aviation lights shall consist of deck edge lights, deck surface flood lights, landing line- up lights and forward structure flood light.	Please inform us of your requirement or sample of the aviation light arrangement. If you don't have such requirement or sample, we would like to arrange and propose our idea of the aviation light arrangement.	We will provide the shipbuilder with access to the OPV, including its general arrangement, hangar design and accessories (landings aids/ lights/ fittings, etc.) during the detailed design stage. Nonetheless, the bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel or other JCG patrol vessel with helicopter hangar delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
				We understand the	Yes. The bidder may propose an alternative

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
168	Section Technical Specificat ions 408. Internal Communication Systems 7. General Emergency Alarm System	E- 17		quantity of alarm will be changed depend on the type of alarm in detail design progress.	design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami-class vessel delivered by the shipbuilder, subject to approval by the Employer during the detailed design stage.
169	Section Technical Specificat ions 408. Internal Communication Systems 11. Engine Alarm and Monitoring System	E- 18		We understand monitoring system should indicate the information from the equipment related to CPP (Controllable Pitch Propeller) system and each tank level indicator, etc. However, there is no such requirement in thisparagraph.Please clarify said item should be indicated or not.	Yes, at least same as the latest JCG Kunigami class vessel, provided for indication and monitoring.
	Section		One (1) set of monitor camera system with	Please clarify the specific recording	Recording time: at least 7 days Pixels: 4K UHD IP Camera for Outdoor (7

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
170	Technical Specificat ions	E-19	recording functionshall be installed as follows.	time and pixels.	Units); 2K SHD (1440p) IP Camera for Indoor (8 Units). Day and night capable (colored night vision), IR night vision range minimum of 30 meters, IP66 water rating. Weatherproof (- 40 deg. to 50 deg.)
171	Section Technical Specificat ions 408. Internal Communication Systems 13. Day and Night Vision Camera	E- 20	The system shall include high resolution CCD camera and/or thermal imager mounted on a two axis stabilizer, a LCD monitor, a <u>recordingsystem</u> etc.	Please clarify the specific recording time and pixels.	The Employer desire that the Day and Night Vision Camera to be used in the vessel is equivalent or superior to the day and night vision camera installed in the PCG's 83.6 meters offshore patrol vessel. Specific recording time and pixels is already included in the product specifications available at PMO or online.
172	Section Technical Specificat ions 408. Internal Communication	E- 22		We think it is better to install the "The Ship Information Display System" same as MSCIP Phase I, however there are no description about	Function is necessary. The bidder may propose an alternative design or system which is equivalent or superior to the technical specifications taking into consideration whether it is of proven use or improved version of the latest Kunigami- class vessel delivered by the shipbuilder, subject to approval by the Employer.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Systems 14. Personal Computer (P.C) Local Area Network System (LAN)			such items. Please clarify the said function is necessary or not.	
173	Section Technical Specifications 409. Electric Navigation Aids 11. Motor Siren and Air Horn	E- 23	Each one (1) set of air horn and <u>motor</u> <u>siren</u> shall be installed on the radar mast, suited for the purpose of the vessel.	We understand that according to the classification rule, piston horn shall be used instead of motor siren and air horn since this vessel are over 75m in length. Please confirm the said understanding is correct or not.	The bidder shall adopt proven design or use of the latest Kunigami-class vessel delivered by the shipbuilder, with respect to air horn and motor siren.
174	Section Technical Specificat ions	E- 23	ECDIS electronic charts, with initial software subscription for one year upon acceptance in Japan and <u>one set of paper</u> charts for theRepublic	required ENC area and paper charts for Republic of the	One (1) set per vessel. ENC area and paper charts should include sea areas encompassing the whole Philippine maritime jurisdiction and its adjacent sea areas including South China Sea/ West Philippine Sea, Philippine Sea including Benham Rise, Taiwan Strait, Malaysia-

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	409. Electric Navigation Aids 12. Electronic Chart Display and Information System (ECDIS) and Dead Reckoning Tracer		of the Philippines watersshall be provided by the Builder.		Philippines-Indonesia boundary areas in the South, and Japan-Taiwan-Philippines shipbuilder identified transit areas for the vessel's delivery voyage, subject to finalization and Employer's approval during the detailed design stage.
175	Section Technical Specificat ions 409. Electric Navigation Aids 14. Voyage Data Recorder (VDR)	E- 24	All the necessary signals by rule requirement shall be linked.	The Classification rule does not specify the necessary signals. We would like to link same signal as MSCIP Phasel.	Should be in accordance with the network capabilities of the equipment, rule requirement and applicable latest JCG Kunigami class vessel standard, subject to Employer's approval during the detailed design stage.
	Section Technical Specificat		The control SW has to support the evaluation of the estimated location of signal emitters/targets and its	We understand that "running-fix method" means application software of Rode & Schwarz.	Technical Specifications shall be observed. Nonetheless, bidder may propose an equivalent or superior design, subject to approval of the Employer during detailed design stage. Bidder is advised to

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
176	ions 409. Electric Navigation Aids 15. Radio Direction Finder	E- 24	display on the map by using the <u>"running-fix</u> <u>method"</u> . This method should allow an estimation of a target emitter location using a single Direction Finding unit.	However, the said software is only for land base usage. Can we use same software as MSCIP Phase I triangulation system?	coordinate first with his proposed equipment manufacturer.
177	Section Technical Specificat ions 409. Electric Navigation Aids 17. Propeller Shaft Revolution Indicator (port and starboard)	E- 25		Since Controllable Pitch Propeller System is installed in this vessel, Wepropose to install propeller pitch angle indicator and main engine revolution indicator instead of propeller shaft revolution indicator.	Noted. Subject to shipbuilder/ contractor presentation and Employer approval during the detailed design stage.
	Section Technical Specificat			We would like to confirm about specification of the Facility Management	The shipbuilder/ contractor should observe specifications listed in the technical specifications for Facility Management System and not solely consider whether it is the same as MSCIP Phase 1 project. Bidder

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
178	ions 500 Facility Management System 501 Facility Management System	S-1		System. We understand that the same software as MSICP I project is required.	may also propose alternative that is similar/ equivalent FMS as that of the latest JCG Kunigami class vessel subject to Employer approval during the detailed design stage.
179	Section Technical Specificat ions 500 Facility Management System 502 Spare	S-1	Such Recommended Spare Parts shall be good for use for three (3) years operation of the two (2) 94-meter vessels in accordance with the planned maintenance system integrated with the Facility Management System (FMS) of the vessels.	Please clarify the annual planned running hours for Bidder's estimation especially for Main engines and Generators. Regarding to Main Engine operation hour. We understand Maximum 4000/Hr by one engine that described page M-10.	For Main engine 3,000Hr/year For Gen Engine 4,000hr/year With plus or minus 10% allowance.
	Section Technical		While Recommended (additional) Spare Parts shall refer to spare parts besides	Please let us know the required spare parts will be included overhaul spare parts	Mainly for consumable spare parts and the parts required for 3 year's operation in accordance with the planned maintenance system to maintain the operational

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
180	Specificat ions 500 Facility Management System 502 Spare	S-1	the Mandatory Spare Parts, that are supplied taking into consideration the planning,environmenta I, personnel competencies,mainten ance and operational requirements ofthe end-user.	that over crew maintenance level or not.	readiness of the vessels, subject to discussion and Employer's approval during contract negotiation and/or detailed design stage.
181	Section Technical Specificat ions 500 Facility Management System 502 Spare	S-2	Employer shall inform the contractor/shipbuilder of the finaldestinationof the spare parts prior its shipment and prepare accordingly the location for itsacceptance.	Please clarify the final destination of the spare parts warehouse.	Final destination of spare parts shall be in PCG designated warehouse within Metro Manila, Cavite, or Bulacan area. Final confirmed site from the locations listed above, shall be provided 4 months prior expected delivery.
182	Section Invitation for Bid	1-2	A complete set of the Bidding Documents may be purchased by interested Bidders on the submission of a	We would like to request you to provide Bidding Documents in Word and/or Excel format.	Bidder may convert the provided PDF file into a word file. BAC provided bidding documents during the purchase of bid docs, however, shall remain as the official file.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			written application to		
			the address above, and		
			upon payment of a		
			non- refundable fee of		
			75,000 Philippine Peso		
			in a form of cash. The		
			Bidding Documents		
			must be purchased		
			during office hours		
			(8:00 A.M to 5:00 P.M)		
			on or before the		
			deadline of the		
			submission of bids.		
			The Bid Security shall	We understand that	Bidder shall observe the listed provisions in
			be a demand	bid security issued	terms of requirements for bid security. Since
			guarantee in any of the	by any Japanese	the project is Japan ODA funded, bid
			following forms at the	bank is acceptable	security must be in accordance with JICA
			Bidder's option:	for you.	ODA Procurement Guidelines. Similar bid
					securing documents observed in MSCIP Phase 1 may also be applied.
			(a) an unconditional	In addition, we	Thase Thay also be applied.
			guarantee issued	understand that for	If the unconditional guarantee is issued by
	Section		by a bank or	issuance of bid	an insurance company or a bonding
183	Instructions		financial institution	security, Japanese	company located outside the Employer's
	to Bidder		(such as an	insurance company	Country, the issuer shall have a
	21.2		insurance, bonding	or bonding or surety	correspondent financial institution located in
	_		or suretycompany);	company are	the Employer's Country to make it

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
INO.	Item	Page	 Iechnical Specification (b) an irrevocable letter ofcredit; (c) a cashier's or certified check;or (d) another security specified in theBDS from a reputable source from an eligible source country. If the unconditional guarantee is issued by an insurance company or a bonding company located outside the Employer's Country, the issuer shall have a correspondent financial institution located in the Employer's Country to make itenforceable. 	required to have business with any bank which have a liaison office or branch inPhilippines. Please clarify.	enforceable.
			The Bidder shall submit with its Technical Bid	We cannot guarantee the equipment that	Although we recognize that the bidder cannot guarantee the availability of a certain

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
184	Section Bid Data Sheet ITB 11.2 (I)	1-8	the following additional documents: Certification from the manufacturer/supplier guaranteeing that equipment/machineries listed in the Appendix 4, to be installed in the vessel, will be <u>available</u> in the market for at <u>least ten(10) years</u> upon expiration of defect liability period.	installed in vessel available in the market for at least ten (10) years. Please delete this description.	equipment in the market for at least ten years upon expiration of DLP, the bidder must, as far as possible, in the selection of equipment maker/ manufacturer take into account that such equipment is of proven use and may be continued to be produce for the market for the next ten years per manufacturer's or maker's standard or presentation to the bidder, and should not be nearing obsolescence.
185	Section Bid Data Sheet ITB 17.2	1-9	In case a bidder is a joint venture, at least one of them shall have a branch/satellite or liaison office in the Philippines that will represent the joint venture with the Employer in contract/project implementation. The Bidder shall identify the	We understand that this part will not applied to in case of single entity bidder. Please clarify.	Provision is clear that it is applicable "in case a bidder is a joint venture" only. However, Employer reserves the option to further discuss and clarify requirements for shipbuilder/ contractor's representation in the Philippines for purposes of contract implementation, during contract negotiation.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
			branch/satellite or liaison office in the Technical Proposal with a "Declaration of a branch/satellite office or a liaison office in Philippines" which is to be signed by the Bidder and the authorized person of the aforementioned branch or liaisonoffice.		
186	Section Bidding Forms Equipment	1-47		Please clarify what the "key facilities" are. In addition, kindly let us know what "power rating" and "current commitments" are.	Key facilities at least but not to cover Dock, slipway, wharf, cranes, capacity to produce steel plate ton/day. Power rating described by the equipment supplier/ maker in the given model. Current commitments or employment of the particular equipment.
	SectionBiddin g Forms Current Contract		Bidders and each member of a JV should provide information on their current commitments on all	Bidders have a lot of contracts and the value of work for some contracts are not allowed to be	The bidder may present the total contract price as per the quarterly base.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
187	Commitments	1- 61	Contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for Contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued, in accordance with Section III, Evaluation and Qualification Criteria, Sub- Factor 2.3.3 (Without Prequalification).	disclosed by the non-disclosure contract condition. For such contracts, can Bidders avoid to	
188	Section Biddi ng Forms Specific	1- 64	Fill out one (1) form per Contract, in accordance with Section III, Evaluation and Qualification Criteria (Without Prequalification), Sub- Factor 2.4.2(a).	(Employers) including Japan Coast Guard does not release some information such as	In that case please describe "no disclosed contract", however, the contract shall be understandable to the Employer, at least.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Design and Build Experience			information as "**** non-disclosed data ****" in the form.	
189	Section Particular Condition s PC1.1	3-7	"Operational Acceptance" means that the Vessel encompassed and wholly covered by this contract has been accepted by the Employer at the Site of Employer after satisfactory Final Acceptance Tests; in other words, final acceptance of the vessel in Manila. Operational Acceptance shall be conditioned upon satisfactory Final AcceptanceTests.	We understand that "Operational Acceptance" is able to be read as "Delivery at Site" which please confirm.	Please refer to Item No. 15.
190	Section Particular	3-	PC45.1 The DB Shall be appointed within three (3) months after the	change this	DB shall be an Ad Hoc Dispute Board to be constituted when dispute arises.

No.	Item	Page	Technical Specification	Bidder's Queries	Answer
	Condition	34	Effective Date.		
	S		The DB shall be a DB	"The DB shall be	
	PC45.1		of three members.	appointed by the date	
				mutually agreed by	
				the Parties"	
191				After the bidder	Yes, bidder may submit further queries/
				received the	questions until 25 July 2019. There will be
				clarification to the	no 2 nd Pre-bid Meeting but the bidder can
				questions, can bidder	provide questions or clarifications until 25
				again request further	July 2019.
				clarification? And are	
				there 2 nd pre-bid	
				meeting, if	
				necessary?	
192				If all the costs	Bid will proceed in accordance with
				proposed by bidders	Guidelines for Procurement under
				exceed the budget,	Japanese ODA Loans, April 2012, subject
				how the bid will	to JICA concurrence.
				proceed?	

PROCUREMENT OF TWO (2) UNITS OF APPROX. 94-METER MULTI-ROLE RESPONSE VESSEL (APPROX. 94M MRRV) BID CLARIFICATIONS AND AMENDMENTS Bid Bulletin No. 1

LIST OF HELICOPTER

ADD-(4)

		Bölkow	BELL HELICOPTER	AIRBUS	SIKORSKY	AGUST W.	BELL HELICOPTER
		BO105	Bell 429	EC145C	S-76C	AW139	Bell 412EP
Length, over all	m	11.86	12.70	13.00	16.00	16.66	17.10
Fuselage length	m	8.81	11.73	10.20	13.21	13.53	13.13
Height	m	3.00	4.04	3.96	4.42	4.98	4.00
Rotor diameter	m	9.84	10.97	11.00	13.41	13.80	14.00
Empty weight	kg	1,276	1,925	1,792	3,177	3,622	3,080
Max. takeoff weight	kg	2,500	3,175	3,585	5,306	6,400	5,390
Crew	p	2	1	2	2	2	2
Passenger	q	4	6	8	12	15	13
Maximum speed	kts	131	155	145	155	167	140
Cruising speed	kts	110	150	133	155	165	122
Range	nm	310	390	370	411	573	529

PROCUREMENT OF TWO (2) UNITS OF APPROX. 94-METER MULTI-ROLE RESPONSE VESSEL (APPROX. 94M MRRV) BID CLARIFICATIONS AND AMENDMENTS Bid Bulletin No. 1

HELICOPTER CRASH LOCKER



Annex "A"

PROCUREMENT OF TWO (2) UNITS OF APPROX. 94-METER MULTI-ROLE RESPONSE VESSEL (APPROX. 94M MRRV) BID CLARIFICATIONS AND AMENDMENTS Bid Bulletin No. 1

EC 145 DIMENSIONS



PROCUREMENT OF TWO (2) UNITS OF APPROX. 94-METER MULTI-ROLE RESPONSE VESSEL (APPROX. 94M MRRV) BID CLARIFICATIONS AND AMENDMENTS Bid Bulletin No. 1

EC 145 TECHNICAL DATA

DIMENSIONS

Dimension		
Length	13.64 m	44.76 ft
Height	3.95 m	12.95 lb
Main rotor diameter	11.0 m	36.09 ft
MAIN CHARACTERISTICS		
MTOW (within the AGW flight envelope up to 3,800 kg)	3,700 kg	8,157.1 lb
Useful load	1,781 kg	3,926.4 lb
Sling capacity	1,600 kg	3,527.4 lb
Capacity 1 or 2 pilots + up	to 10 passenge	rs
PERFORMANCE		
Maximum speed (Vne)	265 km/h	143.1 kts
Max range with std fuel tank	651 km	351.5 NM
Max endurance with std fuel tank	3h 36	3 mn
Hover ceiling OGE (ISA+20)	2,332 m	7,650 ft
ENGINE		
Model 2 x SAF	RAN ARRIEL 28	_
Takeoff Power	667 kW	893.8 shp
One engine inoperative (OEI 30s)	800 kW	1,072 shp

AIRBUS

Airbus Helicopters Aéroport International Marseille-Provence, Marignane - France.

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