Tele: 011-21410495 Fax: 011-21410483

E-mail: dna.ihgmod@navy.gov.in

Integrated Headquarters of Ministry of Defence (Navy) Directorate of Naval Architecture Room No. 200, 2nd Floor Naval Headquarter Annex Building Talkatora Stadium, New Delhi 110001

NC/0542

17 Jul 18

To,

M/s

REQUEST FOR INFORMATION (RFI) FOR SUPPLY OF HAZARDOUS DUTY LIFE JACKETS FOR INDIAN NAVY

- 1. The Ministry of Defence, Government of India, intends to procure Hazardous Duty Life Jackets (HDLJs).
- 2. This Request for Information (RFI) consists of two parts as indicated below. Submission of incomplete format will render the Vendor liable for rejection:-
 - (a) Part I. The first part of the RFI incorporates operational characteristics and features that should be met by the Hazardous Duty Life Jackets.
 - (b) Part II. The second part of the RFI states the methodology of seeking response of Vendor.

PART-I

- 3. <u>Operational Requirements</u>. The Operational/ Technical Requirements of the Hazardous Duty Life Jackets (HDLJs) are placed at <u>Appendix 'A'</u> of this document.
- 4. <u>Important Parameters</u>. Detailed specifications will be given in the Request for Proposal (RFP) which will be issued to firms after verifying their credentials and capabilities to manufacture the Hazardous Duty Life Jackets (HDLJs). Firms responding to this RFI should mandatorily submit the following details:-
 - (a) Feasibility to manufacture the HDLJs as per the enclosed specifications (Appendix 'A'). Any modification to the specifications can be suggested by the vendor with suitable justification.

- (b) Budgetary quotes with breakup of cost including all the elements that needs to be structured into the costing of the complete equipment (including that of comprehensive maintenance/ equipment support) which will serve as guidelines to formulate all encompassing SOC.
- (c) Time required for Manufacture.
- (d) Experience in manufacturing/ supplying similar life jackets along with client details.
- (e) MoU with any vendor/agency, if any.
- (f) Whether the vendor would be able to comply with all provisions of DPM-09 or not. If not, Para/Clause of DPM-09 that would not be agreed to, with reasons.
- (g) Vendors may consider RFI as advance information to obtain requisite government clearances.
- (h) The tentative delivery schedule for supply of the HDLJs after conclusion of the contract.
- (j) Acceptability to terms of payment as per DPM-09, available for download at Ministry of Defence Website, https://mod.gov.in/dod. Shall also be provided on request.
- 5. <u>Additional Specifications</u>. The aim of seeking this RFI is also to finalise the specifications for the HDLJs with inputs from vendors. Following information to be provided by the firm:-
 - (a) Modalities of training the personnel for operation and maintenance of HDLJs.
 - (b) Willingness for Option Clause and Repeat Clause, including the duration for which Option Clause and Repeat Clause would be valid.
 - (c) Para wise compliance of <u>Appendix 'A'</u>. If not, which Para / clause that would not be agreed to, with reasons.
 - (d) The tentative delivery schedule for supply of HDLJs after conclusion of contract.
 - (e) Acceptability of Terms of payment.
 - (f) Approximate cost estimation in Indian currency only. (Without taxes, duties, etc)
- 6. The vendor should confirm that the following conditions are acceptable:-
 - (a) The solicitation of offers will be as per 'Single Stage-Two Bid System'. It would imply that a 'Request for Proposal' would be issued soliciting the

technical and commercial offers together, but in two separate sealed envelopes. The validity of commercial offers would be at least 18 months from the date of submission of offers.

- (b) The technical offers would be evaluated by a Technical Evaluation Committee (TEC) to check its compliance with RFP.
- (c) Equipment of all TEC cleared vendors would be put through a Field Evaluation Trial in India. Vendor shall confirm feasibility to offer Field Evaluation Trials and provide sample for the same.
- (d) Various configurations of the product and consequent cost implication to be highlighted.
- (e) Amongst the Vendors cleared by Staff Evaluation, a Commercial Negotiation Committee would decide the lowest cost bidder (L1) and conclude the appropriate Contract.
- (f) Vendor would be bound to provide product support for time period specified in the RFP, which includes spares and maintenance tools/ jigs/ fixtures for field and component level repairs.
- (g) The Vendor would be required to accept the general conditions of Contract given in the Standard Contract Document of DPM-09.
- (h) <u>Performance-cum-Warranty Bond</u>. A Performance-cum-Warranty Bond equal to 5% value of the Contract is required to be submitted after signing of the Contract.

PART-II

7. Procedure for Response.

- (a) Vendors must fill the form of response as given in Appendix 'B' & 'C' (as applicable). Apart from filling details about the company, details about the exact HDLJ product meeting our generic technical specifications should also be carefully filled. Additional literature on the HDLJ and its various components can also be attached with the form.
- (b) The filled form should be dispatched at the under mentioned address: -

The Principal Director Naval Architecture Room No, 200, 2nd Floor Directorate of Naval Architecture Naval Headquarters Annex Building Talkatora Stadium, New Delhi 110001

Tele: 011-21410495 Fax: 011- 21410483

E-Mail: dna.ihqmod@navy.gov.in

- (c) Last date of acceptance of filled forms along with details sought is ____3__Aug 2018. The vendor short listed for issuance of RFP would be intimated.
- 8. The Government of India invites responses to this request only from Original Equipment Manufacturers (OEM)/ Authorised Vendors/ Government Sponsored Export Agencies. Vendor qualification criteria is specified in **Appendix 'D'**. The end user of the HDLJ is the Indian Navy.
- 9. The Government of India invites responses to this request only from manufacturers of life jackets fulfilling following requirements:-
 - (a) Firm should have supplied HDLJs previously to Navy/ Coast Guard or any equivalent marine organization.
 - (b) The HDLJ supplied by the firm should be approved by national authorities like Navy/DOT/MMD/Coast Guard of the country of manufacture or type approved by authorised bodies like Classification Societies conforming to IMO/SOLAS regulation. Proof of the same to be submitted along with the offer.

(Supporting documents to be submitted along with responses)

- 10. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part thereof at any stage. The Government of India also reserves the right to withdraw RFI, should it be so necessary, at any stage.
- 11. The acquisition process would be carried out under the provisions of **DPM-09**.

OPERATIONAL / TECHNICAL SPECIFICATIONS FOR HAZARDOUS DUTY LIFE JACKETS (HDLJs) FOR INDIAN NAVY

1	<u>Utilisation</u> .	Hazardous Duty Life Jacket (HDLJ) is required to be worn by personnel whilst carrying out hazardous duties on weather decks such as Boarding Ops, Seamanship Evolutions, High Speed Boat Operations etc.	
2	<u>Construction</u> .	The HDLJ and its accessories/ attachments should be designed and manufactured to meet SOLAS requirements and following additional requirements:- (a) HDLJ should consist of a single buoyancy chamber only. (b) It should be designed to meet the following requirements:- (i) To enable only one side wearing. (ii) To be worn even by a layman within a period of 1 min without assistance. (iii) Light weight neckline design with adjustable waist belt for a snug fit wearing. (iv) Comfortable to wear and allow wearer to carry out duties mentioned at Para 1 without restricting body movement.	The following technical requirements are to be adhered:- (a) Para 1.2 of IMO/SOLAS LSA Code, MSC resolution 48(66). (b) Para 5 of IMO/SOLAS LSA Code, MSC resolution 207(81). (c) Test Requirements of MSC 81(70), 200(80)- & 226(82). (d) CO ₂ cylinder shall conform to ISO 12402-7: 2007

- (c) Life jacket should allow wearer to jump into water from a height not less than 4.5 m without being dislodged from the wearer, sustaining damage or causing injury to the wearer during jump.
- (d) HDLJ should be made of a material which is rot proof, corrosion resistant and not affected by sea water, oil or fungal attack.
- (e) The quality and workmanship (ie seam stitching, attachment of various accessories, ergonomics of design etc) must be durable enough to remain intact till completion of specified life of the life jacket, unless these are accidental/incidental damage.
- (f) The colour of inflatable stole of the HDLJ should be distinctly visible from sea surface background (ie fluorescent orange/ yellow).
- (g) It should be fitted with an approved whistle, firmly secured by a cord.
- (h) It should be capable of being inflated automatically upon contact with water in less than 5 seconds (without any effort by the wearer) and mechanically by actuating inflation mechanism and also orally.

(i) Inflation Mechanism.

(i) The mechanical and automatic inflation assembly should consist of a disposable carbon dioxide (CO₂) cylinder, inflator device (to pierce

	CO ₂ cylinder) and a water/ sea water sensing cartridge (to actuate inflator device).	
	(ii) A mechanical lever attached with pulling cord should be provided to facilitate wearer to actuate inflator device mechanically (by manual pulling of the cord). Manual pulling of cord in turn should actuate lever to pierce CO ₂ cylinder to inflate the HDLJ.	
	(iii) The automatic inflation mechanism should be provided to actuate inflator device automatically and pierce the CO ₂ cylinder to facilitate inflation of HDLJ. This mechanism would enhance chances of survival of the wearer, even if he is in an unconscious state while falling overboard.	
	(iv) Oral inflation tube should also be provided to inflate HDLJ and to maintain adequate pressure in buoyancy chamber. Inflation tube should be designed to facilitate deflation of HDLJ after completion of use.	
3. <u>Features</u> .	The Hazardous Duty Life Jacket should have the following features:- (a) The buoyancy of Life Jacket should be at least 16 Kg and should not reduce by more than 5% after immersing in fresh water for 24 hours. Life Jackets	Inflation mechanisms, lifting loops, Distress marker light & battery units, buddy lines, spray hoods & other emergency gears of the HDLJs shall conform to requirements of ISO 12402 – 7 & ISO 12402 – 8.
	should be suitable for use by adults. (b) Weight of the complete life jacket should be less than 1.5 kg.	
	Page 7 of 10	

- (c) It should be capable of lifting the face of an exhausted or unconscious person by not less than 120 mm out of the water and holding it above the water with the body inclined backwards at angle of not less than 20 deg from its vertical position.
- (d) On inflation, it should be capable of turning the body of an unconscious person upright, so that the mouth is clear of water, in not more than 5s.
- (e) <u>Emergency Gears</u>. HDLJ should be provided with the following emergency gears, suitably affixed/ attached on HDLJ:-
 - (i) <u>Whistle</u>. An plastic whistle to enable the wearer to attract attention of personnel for help. The whistle should be secured with a cord and housed in a pocket of the HDLJ.
 - (ii) <u>Distress Marker Light And Battery Unit</u>. A distress marker light with a water activated battery for locating the wearer in darkness or fog. There must be a provision to replace the battery and/ or lamp if it has been utilised.
 - (iii) <u>SART (AIS Based)</u>. AIS based Search and Rescue Transponder for locating the wearer electronically from distant location by Ships and Aircrafts for rapid Search and Rescue. The SART should be provided with separate detachable pouch, which could be removed when not required.
 - (iv) Buddy Line. A five foot buddy line

	attached to the HDLJ. The line should have a	
	loop on the end to connect to a rescue boat or to another person.	
	(v) Spray Hood . A spray hood to protect face of the wearer from splashes of water and waves. Spray hood should have arrangement to be attached when required, and a stowing arrangement where it can be stowed, when not required by the user.	
	(vi) <u>Lifting Loop</u> . A loop of adequate strength for recovery of survivor from water. The Lifting Loop should be capable of lifting a weight of not less than 135 Kg with safety margin to cater for wear and tear during the life of the HDLJ.	
4. <u>Miscellaneous</u> <u>Features</u> .	(a) Each life Jacket should be provided with a valise for stowage of buoyancy chamber and other attachments of the buoyancy chamber and to protect them from sea spray and weather.	
	(b) The following should be permanently printed/ marked on each Life jacket:-	
	(i) Approval information including administration which approved it and any operational restrictions.	
	(ii) The model number and the year of manufacture and Buoyancy of the Life Jacket.	
-	(iii) Unique Identification Number for each life jacket.	
	D 0 C10	

	 (iv) Date of expiry. (v) Details of inspecting authority. (c) Six retro reflective tapes should be provided on inflatable chamber of HDLJ as per SOLAS regulations. 	
5. Technical Specification.	 (a) Auto-inflation mechanism and valise/ bladder material should conform to SOLAS specification. (b) Distress Marker Light And Battery Unit. The light should be of white colour and its luminous intensity should not be less than 0.75 Cd, in all directions of the upper hemispheres, for a period not less than 08 hours. The light should be visible over a great segment of the upper hemisphere as is practicable. The following should be provided:- (i) The life jacket light should be provided with a water activated battery having a shelf life of at least five years. The manufacturing date of light should not be more than 03 months old at the time of delivery. (ii) The light/ bulb and battery should be detachable/ replaceable to facilitate replacement. (iii) The life of light unit must be similar to that of the battery (at least five years). (c) SART (AIS Based). Specification of SART should be as follows:- 	
	D 40 040	

	1	
۰	(i) Range - Minimum 15 nm.	
	(ii) Automatic activation when enters in water.	
	(iii) Battery with capacity of at least 24 hrs.	
	(iv) Manual activation should also be provided.	
	(d) HDLJ should conform to the following environmental conditions:-	
	(i) It should not be damaged in stowage throughout the air temperature range of -30° to +65° C.	
	(ii) It should remain functional in the ambient temperature range of -30° to +60° C.	
	(ii) It should operate properly in sea water temperature range from -1° to +35° C.	
	(iii) It should be resistant to deterioration when exposed to sunlight.	
	(iv) It should not burn or melt after being totally enveloped in fire for a period of 2 seconds.	
6. <u>Testing and</u> <u>Certification</u> .	(a) HDLJ should have the approval of national authorities like Navy/ DOT/ MMD/ DGS/ Coast Guard of the country of manufacture or confirm to SOLAS specifications.	
	(b) The life Jackets should be tested for minimum	

	buoyancy of 16 Kg duly endorsed by National Authority in the country of manufacture.	
7. <u>Service Life and</u> <u>Warranty</u>	(a) The fair service life of the HDLJ should be a minimum of 10 years. Product support shall be provided for the same duration.	
	(b) The HDLJ shall be provided with a warranty period of 05 years from the date of supply. The warranty shall cover defects arising from malfunction through design faults, inappropriate material, bad production and non-conformance to specifications.	
8. <u>Prototype</u> <u>Testing</u>	(a) Prototype Testing of the HDLJ should be carried out in accordance with Test Procedures provided in Latest IMO/SOLAS regulations MSC 81(70), 200(80) and MSC 226(82) and its amendments thereafter.	
9. <u>Product</u> <u>Support</u>	(a) Product Support for the HDLJs shall be provided through Annual Maintenance Contract throughout the service life of the HDLJ (10 years from Date of Supply)	
10. Compliance	(a) Para-wise compliance to specifications listed above.(b) In case of non-compliance reasons for the same should also be provided.	

11. The following additional information should also be provided:-

- (a) The details of various models of AIS based Search & Rescue Transponder (SART) which can be fitted with HDLJs shall be provided.
- (b) Method of fitment of the AIS based SART on to the HDLJ and modes of activation.
- (c) International Standards to which AIS based SART conforms to shall be indicated.

- (d) Procedure for identification location of the wearer of the HDLJ, once SART is activated is to be elaborated.
- (e) Measures to avoid accidental activation of SART during rains/inclement weather.
- (f) Detailed specifications of the HDLJ along with operation & maintenance manual.

INFORMATION PROFORMA (INDIAN VENDORS)

1.	Name	e, Address and Unique ID (if a		f the Vendor/ Company/ Firm. le, in brief, to be attached. In the						
addre subse MoD	ess of tequent (N) at	of the firm emerging as L1, Contribe firm, as indicated here). Vendo proposal for change in name of fithe first available opportunity arorking days of approval by relevan	act will rs are irm or nd sup	I be concluded in the name and to submit an undertaking that any address, will be intimated to IHQ porting documents be furnished						
2.	Type (Tick the relevant category).									
Origir	nal Equ	ipment Manufacturer (OEM)	-	Yes/ No						
Autho	rised F	Representatives of foreign Firm	-	Yes/ No (attach details, if yes)						
Other	s (give	specific details)								
3.	Conta	act Details.								
Posta	al Addr	ress:								
City		:	State	:						
Pin C	ode	:	Tele :							
Fax		i	URLA	Web Site:						
Email		*	-							
4.	Local	Branch/ Liaison Office in Delhi	(if any	·).						
	Name	& Address								
	Pin Co	ode: Tele: Fa	x:	Email:						
5.	<u>Finan</u>	Financial Details .								
	(a)	Category of Industry (Large/ Med	ium/ S	mall Scale):						
	(b)	Annual Turnover :		(in INR)						
	(c)	Number of employees in firm :								
	(d)	Details of manufacturing infrastru	cture :							
	(e)	Farlier contracts with Indian Minis	stry of I	Defence/ Government agencies:						

Page 14 of 19

Co	ontract Number	Eq	uipment	Q	uantity	Cost
Cer	tification by Qua	lity A	ssurance	Organ	<u>isation</u> .	
Na	me of Agency	Cer	tification		cable from & Year)	Valid till (Date & Year)
Det	ails of Registratio	n n				
Det	Agency	<u> </u>		tration nber	Validity (Date)	Equipment
DG	SS&D					
DG	GQA/ DGAQA/ DG	NAI				
OF						
	RDO					
	y other Governmer ency	nt		***************************************		
Men	nbership of FICC	/ AS	SOCHAM	CII or	other Indust	rial Associations.
Nan	ne of Organisatio	n:				
Men	nbership Number	:				Total Assessment
Equ	ipment/ Product	Profi	le (to be s	ubmitt	ed for each j	oroduct separately).
(a)	Name of Produc	ct :				
•	ould be given cated e mentioned togeth		vise for e.ç	g. all pro	oducts under	night vision devices
(b)	Description (atta	ach te	echnical lit	erature)	:	
(c)	Whether OEM o	r Inte	egrator :			
d)	Name and addre	ess o	f Foreign o	collabor	ator (if any):	
e)) Industrial License Number:					
(f)	Indigenous com	pone	nt of the p	roduct (in percentage	e):

	(g)	Status (in service/design & development stage):
	(h)	Production capacity per annum:
	(j) quant	Countries/agencies where equipment supplied earlier (give details of tity supplied):
	(k)	Estimated price of the equipment.
10.	Alterr	natives for meeting the objectives of the equipment set forth in the RFI.
11.	Any o	ther relevant information:
12.	<u>Decla</u>	aration.
		It is certified that the above information is true and any changes will be ated within five (05) working days of occurrence.
	the _ Conte	It is certified that design and development is indigenous and belongs to (Vendor) and/ or (its Indian Sub Vendor). The Indigenous ent in the said equipment is % as on date and is likely to be raised to % by (date). The clarification for the same is enclosed.
	availa availa	It is certified that the complete set of design and production drawing are ble and source code for all software applications/ programmes are also ble with the Vendor and that these would be produced rification when required.
	been Gover	It is certified that in the past that (name of firm) has never banned/ debarred for doing business dealings with MoD/ Gol/ any other nament organisation and that there is no inquiry going on by CBI/ ED/ any Government agency against the firm.

Page 16 of 19

(Authorised Signatory)

INFORMATION PROFORMA (FOREIGN VENDORS)

1. <u>I</u>	Name, Address and Unique ID (if a	to be attached. In the eventuality of the						
	erging as L1, Contract will be conclude	d in the name and address of the firm,						
	as indicated here). Vendors are to submit an undertaking that any subsequent							
	nl for change in name of firm or addres t available opportunity and supporting							
	days of approval by relevant competen							
2.	Type (Tick the relevant category).							
Origina	l Equipment Manufacturer (OEM)	Yes/No						
Govern	nment sponsored Export Agency	Yes/No (Details of registration to be provided)						
Authori	sed Vendor of OEM	Yes/No (attach details)						
Others	(give specific details)							
	,							
3.	Contact Details.							
Postal A	Address:							
City:_	Province :							
	y:Pin/ Zip Code							
Tele : _	Fax :							
URL/W	eb Site : Email	:						
4. <u>l</u>	_ocal Branch/Liaison Office/Authoris	ed Representatives, in India (if any).						
Name 8	& Address:							
City:_	Province :							
Pin code :Tel :Fax :								
Email.								
5. <u>F</u>	Financial Details.							
(a) Annual turn over :	USD						
(b) Number of Employees in firm	·						
1	c) Details of manufacturing infrastru	cture available						

(d) Earlier contracts with Indian Ministry of Defence/Government agencie									
Ag	ency		ntract mber	Equipment		Quantity	Cost		

Cei	rtification by	Qu	ality Assu	rance	e Organisatio	n (If Applic	able <u>)</u> .		
Nar	ne of Agency	,	Certificat	tion		cable from Valid till & Year) (date &			
Equ	uipment/ Pro	duc	t Profile (1	to be	submitted for	r each proc	luct separate		
(a)	(a) Name of Product:								
(Sho	(Should be given category wise for e.g. all products under FSS to be mentioned together)								
(b)	(b) Description (attach technical literature):								
(c)	(c) Whether OEM or Integrator:								
(d)	(d) Status (in service /Design development stage):								
(e)	(e) Production capacity per annum:								
(f)	(f) Countries where equipment is in service:								
(g)	(g) Whether export clearance is required from respective Government:								
(h) Indi	(h) Any collaboration/joint venture/co production/ authorised dealer with Indian Industry (give details):								
Nar	ne & Address	s:							
Tel				_Fax	•				
Alter	natives for m	natives for meeting the objectives of the equipment set forth in the RFI.							
Any	other relevant information.								
Decl	Declaration. It is certified that:-								
	(a) It is certified that the above information is true and any changes will be intimated within five (05) working days of occurrence.								
Gove	The	nisa	ition and th	nat the	(name of s dealings wit ere is no inqui t the firm.	firm) has h MoD/ Go ry going on	never been ol/ any other by CBI/ ED/		

(Authorised Signatory)

CRITERIA FOR VENDOR SELECTION/ PRE QUALIFICATION

1.	Tech	Technical Parameters.							
	(a) prod	Number of years of experience in manufacturing/ Supply of same/ similar uct.							
	(b)	Details of manufacturing infrastructure for manufacturing HDLJs.							

- (c) Quality plan maintained by vendor.
- (d) Details of certification by Quality Assurance Agencies.
- (e) Industrial License details at the time of submission of bid.
- (f) Annual production capacity and capability to increase the production capacity to meet the delivery schedule requirements of Services.

2. Financial Parameters.

(a)	<u>Turnover</u> .	Turnover of Rs.	_ Crs in last three years.
(b)	Capital Ass	ets. Capital Assets of	·
(c)	Profit.	Profit/ Loss in last three years	
(d)	Tax Return.	Copy of Income Tax Return filed	during last three years.

3. Additional Parameters.

- (a) Projects/ supply orders successfully executed in last five years.
- (b) Annual reports of last five years.
- (c) Shareholder information.
- (d) Details of Promoters, associated, allied and JV companies.
- (e) Details of vigilance action viz ongoing investigation and suspension/debarment/ blacklisting actions against the company, if any.
- 4. <u>Undertaking</u>. Prospective Vendors must submit an undertaking that information provided by them is correct.