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REQUEST FOR INFORMATION

FIRE FIGHTING TRAINING FACILITY AT MUMBAI, KARWAR & SRI VIJAYAPURAM

1. The Indian Navy under Ministry of Defence, Government of India, intends to procure Fire Fighting Training Facilities (FFTFs), along with associated equipment, operation, training and maintenance. The simulator will be similar to the existing facilities at Kochi and Visakhapatnam and will be procured under Buy (Indian-IDDMM) from registered Indian Vendors. The Simulator is to be delivered to **Mumbai, Karwar and Sri Vijayapuram**. With an aim to identify probable Indian Vendors who can set-up the facility, the Vendors are requested to forward information as sought in this RFI. The aim of seeking this RFI is also to finalise the specifications for the FFTF with inputs from Indian Vendors.
2. This Request for information (RFI) consist of three parts as indicate below:-
 - (a) **Part I.** The first part of the RFI incorporates operational requirements, characteristics and features that should be met by the facility. A few important technical parameters are also mentioned.
 - (b) **Part II.** The second part of RFI states the methodology of seeking response of vendors. Submission of incomplete response format will render the vendors liable for rejection.
 - (c) **Part III.** Guidelines for framing criteria for Vendor Selection/ Pre-Qualification in Buy (Indian - IDDM) category.

Part-I

3. **Intended Use (Operational Requirement).** The Fire Fighting Training Facility (FFTF) should be designed for training of personnel in fighting ship board fires in a realistic environment. The facility should be in the form of ship modules representing most fire prone compartments of a warship such as galley, machinery compartments, electrical switch boards, converters, machinery control room, living areas and helicopter deck along with mockup of helicopter. The vendor will be responsible for operation, conduct of training and maintenance of the simulator for at least 10 years post-delivery.
4. **Important Technical Parameters.** Detailed specifications will be published in the RFP which will be issued to Vendors after verifying their credentials and capabilities to set-up Fire Fighting Training Facilities (FFTF). A Compliance Questionnaire for ready reference is placed at **Appendix A**. Salient aspects of the envisaged facility are as follows:-



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- (a) The Fire Fighting Training Facility (FFTF) comprising a ship like simulators, classrooms, a demo area and double hose range should have a training capacity of 5000 trainees per year with average class strength of approximately 35 to 40 trainees. All related infrastructure should be accordingly set up to meet this training load. The training unit should be supported on two end bearings housed on portal frames, which should be firmly secured on suitable RCC foundations. It should be mounted on the longitudinal axis with hydraulic actuators for producing a tilt upto 20° either side of the vertical or cause the unit to oscillate periodically at a controlled speed and amplitude of 15° either side of the vertical at a roll period of 20 seconds.
- (b) Fire Fighting Training Facility would comprise of six exercise areas. The five exercise areas are galley, mess deck, machinery control room, battery compartment, engine room and Helo deck with a dummy helo. These areas are to be linked with a network of alleyways, ladders and hatches. The construction of doors, hatches etc to be as per latest Indian Naval guidelines and standards. A minimum of 08 feet distance should be maintained from the flooring for ensuring a ship like feeling and ensure regular maintenance upkeep of the areas.
- (c) The fires should be under the overall control of an integrated computerised system located in the facility's central control room. Provision should exist for each fire to be controlled locally by the instructor/ safety officer conducting the training course. The data logging management system and logistics are to be integrated by suitable software.
- (d) The Fire Fighting Training Facility (FFTF) is to cater for training of 35 to 40 trainees on a daily basis. The FFTF is to comprise a Command and Control room, Helo deck with a dummy helo, MCR, DCHQ, DC post etc. Further, entire FFTF is to be housed in a covered shed of an adequate height and completely covered on all sides.
- (e) The deckhouse is to function as DCHQ and all incident boards are to be as onboard a ship. The command and control of a fire incident is carried out from this location. It should be air-conditioned and insulated against heat and sound. Emergency lighting is to be fitted. The DCHQ will also help to train the personnel on command and control aspects. During a fire fighting exercise, all communication facilities to all the compartments including main broadcast should be located in the DCHQ. All mock facility such as key tanks, crash stop switches in a real time ventilation control panel, Kill cards etc similar to that of a DCHQ designed onboard naval ships should be available.



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(f) **Construction Material.** The material should be such that it is able to withstand environmentally degrading conditioning acting on FFTF including high temperatures and thermal shock (once FF extinguishers/ systems are operated). These must confirm to existing environmental standards. Further, there should not be formation of any harmful by-product (gaseous, solid or liquid) due to the action of heat, direct flame, water, foam, CO₂ etc that is hazardous or toxic.

(g) **Exhaust Cleanup System.** The exhaust clean up system is to be also located in the facility. An atmospheric monitoring system is to be installed on each unit and to continuously monitor the samples of all compartment for abnormal levels of carbon monoxide and other toxic gases.

(h) **Control System.** The centralized control of fire simulators and all other related control is to be provided at the unit control room which is to be located outside the training unit. The complete exercise is set up and controlled from this position and the control is passed over the training unit for the operator/safety instructor to commence to exercise. All controls including fire and flame management control along with ventilation/crash atop function are to be provided at the Unit Control Room. Control of flame/ventilation/crash stop, drainage of the respective exercise areas shall in addition be available within a remote wireless unit to be carried by the instructor conducting the respective exercise. The control system should be capable of carrying out self-diagnostic checks prior starting the system. Further, provision for an Emergency stopping mechanism should be made. Provision of dual alarm system comprising a claxon and pulsating lights be made.

(j) **Sensors.** Heavy duty AFDS sensors for detection of smoke, heat and flame may be installed in all exercise areas to withhold high temperatures. The sensors used in the facility should be able to withstand frequent exposure to high temperatures and should not deform or show signs of deformity or malfunction.

(k) **CCTV/ Camera/IR/TIC Camera.** An integrated (or standalone) camera system for visual monitoring of FF compartment to be monitored by the control station would be consideration for inclusion. This camera would need hardening to withstand the environment of FFTF. Facility for video Recording/Playback to be provided in control room for debrief and for generating reports. All recording and camera systems to be as per latest Indian Naval guidelines and standards.

(l) **Escape Marking.** Escape Marking comprising of self-illuminated or photo luminescence indicators/ stickers are to be provided.

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- (m) Each exercise area is to be fitted with smoke generators. The smoke is to be of adequate opacity to ensure that 100% visibility is restricted to 30 cms in at least one of the compartments. The smoke should not cause any interference to any of the operating components. The smoke should be flame and heat resistant, non-toxic, cause mild irritant and biologically degradable.
- (n) The facility should be provided with Gas and Temperature monitoring system to ensure optimum training temperature and safety of personnel.
- (p) Training fires should be of following types:-

<u>Ser</u>	<u>Location</u>	<u>Type</u>
(i)	Double bunk	Carbonaceous
(ii)	TV Electric	Carbonaceous
(iii)	Crew Locker	Carbonaceous
(iv)	Deep Fat Frier	Oil
(v)	Chimney	Oil
(vi)	Range	Oil
(vii)	Main Engine Sump	Oil
(vii)	Bilge	Oil
(ix)	Fuel Line Burst Fire	Oil
<u>Machinery Control Room</u>		
(x)	Main Switch Board	Electrical
(xi)	Machinery Control Panel	Electrical
<u>Demonstration Area</u>		
(xii)	Galley	Oil
(xiii)	Electronic Cabinet	Electrical
(xiv)	Boundary Cooling	Demo
(xv)	Oil Spill Fire	Fuel Oil
(xvi)	Underneath the Helicopter	Fuel Oil

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(q) **Civil Works.** The civil works involved in the erection of the FFTF would have to be designed keeping the following factors in mind:-

- (i) Load bearing capacity of the soil at the proposed site.
- (ii) Static and dynamic loading of the FFTF.

(r) The following major civil works are envisaged to be involved for the operation of the FFTF as per enclosed plan at Appendix A.

- (i) FFTF Shed.
- (ii) Underground Sump.
- (iii) Pump Room, Change Room and Shower.
- (iv) DGLT Room
- (v) Fuel (Propane) Tank.
- (vi) RCC Foundation for the support of two portal frames.
- (vii) Lateral Roads and Leveling of Ground.
- (viii) Periphery Walls, Fencing and gates.
- (ix) Parking area for two and four wheelers.

(s) **Lateral Roads and Leveling of Grounds.** Lateral roads and leveling of ground after surveying and laying of tar road around unit will be carried out.

(t) **First Aid and Medical Emergency Room.** The FFTF will be provided with integral first aid/ medical emergency room with necessary medical equipment.

(u) **Training Class Room and Training Aids.** The FFTF will have Instructional area with necessary training aids separately earmarked to cater to class strength of 35 to 40 trainees at a time. The class room should be equipped with a projection system so that the exercise in the FFTF can be played back to the trainees for analysis of their actions/errors. The number of Training aids should cater to 45 trainees being simultaneously trained at the facility. All



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computer systems, cameras, recording tools and peripherals to be as per latest Indian Naval policies.

(v) **Toilet /Change Room**. The FFTF will have adequate number of male and female showering and changing facility including toilets along with the adequate number of storage lockers for trainees. Separate washrooms for men and women officers and staff to also be catered.

(w) **Pantry**. The FFTF to have one pantry provisioned with water cooler, RO Plant, Oven, Fridge, Induction Top etc

(x) **Storage Area**. The FFTF will have two separate store rooms of sufficient area to store the protective clothing and equipment etc. Lockers and other stowage arrangements are to be provided in these storage areas.

(y) **Office Space**. Office space for maintenance of crew and instructors will be provided as considered necessary. Adequate numbers computers and printers should be provided in the office space for preparation of required reports and carrying out routine work. All computer systems and peripherals to be as per latest Indian Naval policies and standards. A conference hall for seating of personnel is also required to be encompassed within the office space.

(z) An air-conditioned **instruction cum viewing gallery** is to be provided in one of the fire compartments with a seating capacity of 20 personnel.

(aa) The firm should undertake to support the system for a minimum of **20 years** and stand guarantee for the FFTF (including all fittings, controls and instrumentations) and associated civil works to operate effectively for a minimum period of at least **two years** from the date of commissioning of the facility. If any equipment goes out of production or if spares support stops then suitable upgrades should be incorporated into the facility to keep it operational.

(ab) The Simulator will be operated and maintained by contracted manpower provided by the Vendor. Facility maintenance, post guarantee period, is to be carried out under CMC by the Vendor. The CMC package will support the following maintenance tasks for atleast 08 years post completion of warranty:-

(i) Rectification of defects as soon on reporting of the same.

(ii) Consultancy on technical issues.



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- (iii) Planned preventive maintenance as per recommendation of the OEM.
- (iv) Onsite maintenance support by SELLER's personnel.
- (v) Component and sub assembly level repairs/ replacement (as applicable) of the equipment/ sub equipment would be undertaken by the SELLER at no extra cost.
- (vi) In case of malfunction of any major equipment and sub-equipment of the FFTF, joint analysis would be undertaken by both Navy and the firm to determine whether the malfunction is attributed to operator error or material failure/ equipment breakdown.
- (vii) All major equipment, sub equipment and components (including auxiliary equipment like air conditioners, diesel generators etc) fitted in the FFTF will fall under the purview of the AMC.

(ac) **O&M Training**. The following to be covered:-

- (i) Vendors to indicate acceptance to conduct the training at OEM premises and Vendor premises for the crew and maintainers.
- (ii) The SELLER will provide the Operator and Maintenance training to a team of 10 personnel for a minimum period of 05 days and not exceeding 10 days at all three locations.
- (iii) The proposed syllabus of training for the above course will be forwarded by the SELLER to the BUYER for concurrence within 12 months of signing of Contract and will meet the needs of operation, repair and maintenance of the complete equipment, test set up, assemblies/ sub assemblies, trouble shooting etc.
- (iv) The training for the operators and maintainers will be organized and conducted at all three simulators at least three months prior to installation and commissioning of the FFTFs.
- (v) Vendors would also be required to provide an operational manual with details of precautions in operation and side effects if any.

- (vi) Additional literature/ equipment details may be submitted along with the response to the RFI.



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(ad) **Annual Training.** The SELLER would be required to provide training to naval personnel on contractual basis in coordination with the BUYER and ensure availability of training equipment and trained manpower prior commissioning of the facility.

(ae) **Overall Costing.** The cost of facility would be taken into account for determining the L1 vendor. Vendors are required to provide complete elements of costing. All entities factored in the costing are to be indicated in the break up. Details of export / import duties and Foreign Exchange Component, if any applicable, to be indicated separately. Budgetary quote is to be submitted as per format given below.

<u>Ser</u>	<u>Items</u>	<u>Cost (₹)</u>	<u>Remarks</u>
(i)	Setting-up FFTFs including two years warranty with detailed break-up		
(ii)	Literature and Operator's Manual		
(iii)	Training Aids		
(iv)	Pre-commissioning Training 10 personnel for 10 working days excluding cost of travel/ boarding/ lodging		
(v)	CMC for at least 8 years post warranty with annual break-up		
(vi)	Freight, Transit and Insurance		
(vii)	Special Maintenance Tools, Test Equipment and software		
(viii)	Miscellaneous		
(ix)	Taxes and duties		
(x)	Total [Total of Ser (i) to (ix) above]		
(xi)	Foreign Exchange Component , if any, be indicated.		

(af) **Option Clause.** An Option Clause may be exercised in the procurement case as per Para 93 of Chapter II of DAP 20. Vendors must express their willingness or otherwise for Option Clause, including the duration for which the Option clause would be valid.



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- (ag) The vendors are required to indicate whether the equipment has been supplied to any other company in India.
- (ah) Ability of the vendors to comply with all provisions of DAP 2020 is to be indicated. If not, then the relevant Para/ clause of DAP 20 which cannot be agreed to along with reasons is to be indicated. The vendors are required to indicate their willingness to the terms of payment as per DAP 2020.
- (ai) Vendors are to indicate the compliance and/ or conformity to various industrial and classification society rules and standards related to operations and safety such as Indian Standards Institute (ISI), CE, MIL (Military) Spec, Information Technology (IT) related etc., for various components/ sub-components of the Simulator as applicable.
- (aj) The vendors are required to indicate compliance or otherwise to the conditions of the RFI and respond to the queries pertaining to the operational and technical requirements placed at **Appendix A**.
- (ak) **Timelines**. The following to be responded to:-
- (i) Tentative delivery schedule for delivery of the FFTFs to **IN** at **Mumbai, Karwar and Sri Vijayapuram** after conclusion of contract including milestones is 24 months.
- (ii) The Setting up of the facility would need to commence as per a stipulated time period post conclusion of contract.
- (iii) Vendor to submit critical activities/ milestones and estimated timelines for various phases, total timeframe for implementation of the project and critical phases most susceptible to slippages.
- (al) Vendors may consider this RFI as advance information to obtain requisite Government clearances and setting up of necessary infrastructure both in terms of manpower and material requirements.
- (am) Vendor has to indicate inputs/ details wrt obsolescence management and upgradation of the component/ parts of equipment of the Fire Fighting Training Facility (FFTF) which may become obsolete during the life cycle of the simulator, as per provisions of DAP 20 and amendments thereof.

(an) **Concept Design/Capability Estimation/Alternatives for same or better Training Requirements**. A visit to the existing FF Training Facilities at



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Seamanship School, Kochi and INS Vishwakarma, Visakhapatnam may be undertaken at own expense for better understanding of user's requirement, in consultation with the NHQ/DNBCD. The following to be included in response:-

- (i) Vendors to submit the concept design for the FFTF alongwith dimensions and layout.
 - (ii) Option of providing upcoming technologies, if any, which will meet the intended purpose of the Training Simulator Facility and enhance its employability.
 - (iii) Details pertaining to capacity, infrastructure, financial status of the Vendor to be furnished and how it is intended to be used to meet the delivery schedule of the Simulators.
 - (iv) Past experience of Vendor in executing similar projects.
 - (v) Details of present order book status to be furnished.
 - (ao) **Compliance to Environmental Norms.** Vendor to submit compliance to environmental standard for weather, corrosion resistance, etc.
 - (ap) **Undertaking Certificate.** Vendor to submit an undertaking that in the past they have never been banned/debarred from doing business dealing with MoD/Gol/ or any other Govt organization.
5. The Vendor should confirm that 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) The requirement of Field Evaluation Trials for simulators is waived off law Para 67 of Chap II of DAP 20. The simulator will be accepted post completion through Delivery Acceptance Trials which will be conducted as per schedules of the approved QAP in consultation with the IN's project team.



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- (d) Amongst the Vendors cleared by TEC, a Contract Negotiations Committee (CNC) would decide the lowest cost bidder (L1) and conclude the appropriate contract.
- (e) Vendor would be bound to provide complete product and training support for time period specified in the RFP, which includes spares and maintenance tools/jigs/fixtures for field and component level repairs.
- (f) The vendor would be required to accept the general conditions of contract given in the Standard Contract Document at **Chapter VI of DAP 20**.
- (g) **Integrity Pact and Earnest Money Deposit (if applicable)**. An Integrity Pact alongwith appropriate IPBG is a mandatory requirement is to be submitted at the time of bid submission (Refer **Annexure I to Appendix O of Schedule I, Chapter II of DAP 20**).
- (h) **Performance-cum-Warranty Bond**. Performance-cum-Warranty Bond both equal to 5% value of the contract inclusive of taxes and duties is required to be submitted after signing of contract, as appended below:-
- (i) **Performance-cum-Warranty Bank Guarantee**. Performance-cum-Warranty Bank Guarantee equal to 5% value of the contract inclusive of taxes and duties is required to be submitted after signing of contract as per current PWBG rate promulgated by Ministry of Defence (MoD). However, the final amount of PWBG will be applicable as per the rate promulgated by MoD from time to time and in force at the time of tender submission.
- (ii) **Performance Bank Guarantee for CMC**. A Performance Guarantee by the way of a Bank Guarantee of a sum equal to 5% of the total price of CMC for contracted duration is required to be submitted after signing of contract as per current rate promulgated by Ministry of Defence (MoD). However, the final amount of BG will be applicable as per the rate promulgated by MoD from time to time and in force at the time of tender submission.
- (j) **Indigenous Content (IC)**. The procurement of the Simulator will be as per DAP 20, and accordingly Vendors are required to submit the details regarding Indigenous Content (IC). The categorisation for the procurement is intended to be under Buy (Indian - IDDM). The Simulator must meet the minimum IC parameters in accordance with Para 21 of Chapter I of DAP 20 and MoD ID NO. 5(07)/2023/DAC Sectt dated 15 Jan 24. The Vendor is also



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required to comment on the categorisation and IC content as per DAP 20. The category wise (less Strategic Partnership model cases) summary of IC as per cost of the **Base Contract Price** (i.e. Total Contract Price less cost of AMC /CMC/ After Sales Service) will be as under:-

<u>Category</u>	<u>IC</u>
	Indigenous design and $\geq 50\%$
Buy (Indian-IDDM)	Minimum 50% of overall IC as stipulated for all categories of procurement cases to be in the form of material/ components/ software that are manufactured in India.

PART – II

6. **Procedure for Response.**

(a) Vendors must fill the form of response as given in **Appendix B**. Apart from filling details about company, details about the exact product meeting our generic technical specifications should also be carefully filled. Additional literature on the design and construction of FFTF can also be attached with the form. The Vendor to submit separate enclosure clearly indicating compliance with the operational/ technical specifications placed at **Appendix A** of this RFI. Non-Compliance to any of the parameters listed in **Appendix A**, has to be clearly indicated along with reasons. Any other relevant additional literature or document on the FFTF can also be attached with the RFI response form.

(c) The filled form should be dispatched at the under mentioned address:-

The Principal Director of NBCD
Naval Headquarters, Ministry of Defence
Room No 205, D Block Defence Office Complex Africa Avenue
New Delhi 110023
Fax: +91 11 23793514
Email ID: dnbcd-navy@nic.in

(d) Last date of acceptance of filled form is 08 weeks (DD/MM/YY). The vendors short listed for issue of RFP would be intimated.

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7. The Government of India invites responses to this request only from Original Equipment Manufacturers (OEM)/ Authorized Vendors/ Government Sponsored Export Agencies (applicable in the case of countries where domestic laws do not permit direct export from OEMs). The end user of the equipment is Indian Navy.

8. This information is being issued with no financial commitment and the Ministry of Defence reserves the right to change or vary any part the Fire Fighting Training Facility at Karwar, Mumbai and Sri Vijayapuram at any stage. The Government of India also reserves the right to withdraw it should it be so necessary at any stage. The acquisition process would be carried out under the provisions of DAP 2020.

9. Vendors, if required, can communicate to the Project Officer of DNBCD with below mentioned contact details for seeking clarification/ information on the documents (such as Navy Order (NO), Naval Construction Document (NCD), etc) mentioned in this document:-

Lt Cdr (DNBCD)-N
Tele: 011-26771564
Fax: 011- 26771374
E-mail: dnbcd@navy.gov.in

10. Apart from the information sought as per the Appendices, the Vendors may also forward technical details/brochure/preliminary design/literature, etc, as deemed appropriate.

PART- III

Guidelines for Framing Criteria for Vendor Selection/ Pre-qualification iro Fire Fighting Training Facility (FFTF) under Buy (Indian-IDDMM) Category

11. The guidelines prescribed for short-listing/ pre-qualification of Indian vendors in extant case are detailed in **Annexure IV to Appendix A to Chapter II of DAP 20**.

12. **SME/MSME/Startup Certification.** Vendor to provide certificate/relevant documents of being a SME, MSME or Startup, if applicable.



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Appendix A
(Refer to Para 4)

QUESTIONNAIRE FOR DETAILS IN RESPECT OF
FIRE FIGHTING TRAINING FACILITY

<u>Ser</u>	<u>Information Required</u>	<u>Data/ Information</u>
1.	Can you design, supply, manufacture, install, Set to Work & commission a Fire Fighting Training Facility which can also roll/oscillate along the vertical axis, to the Indian Navy? If yes state your company profile, Technical Expertise, and registrations.	
2.	Are the individual components of your system certified by IACS or by a reputed fire test laboratory? If yes, provide details and copy of certification.	
3.	Is the entire system certified by IRS/LRS and by a reputed fire test laboratory/Agency? If yes, provide details and copy of certification.	
4.	Have you provided any similar system/ ship to any of the establishment in India/other countries? If yes, provide purchase orders and references.	
5.	Has your system been certified by any other Navies/militaries of the world? If yes, provide copy of certification.	
6.	In case you have your own pre designed Fire fighting training facility capable of fire suppression onboard magazines of a warship, kindly provide the design philosophy.	
7.	The system which Indian Navy required is to be complaint with the following standards:- (a) Pumps : IS 8418, NES 327 (b) Water Watch : IS 7048, NES 127 (c) Water Tight Door : IS 4384, NES 127 (d) Fire Hydrant, Fire Protection : IS 908, NES 119 (e) Fire Detection And Alarm System : IS 2189, NES 603	

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<u>Ser</u>	<u>Information Required</u>	<u>Data/ Information</u>
	(f) Gas Burner System : BS EN 746-2 (g) Gas Piping : ASME B31.3 (h) Welding : ASME IX (j) Pressure Vessels : ASME VIII (k) Safety System : IEC 61508 (l) Fasteners : NES 862, IS3757/13096 (m) Flex Canvas Hose : IS 4927 (n) Valves : NES 375, IS4038/9338, IS 14148/13114/2969 (p) Painting of Surface : NES 758, 759 and 763, IS 6951/9954/1404/1419 <u>NOTE:</u> IN CASE THE SYSTEM YOU ENVISAGE IS COMPLAINT TO AN EQUIVALENT/ BETTER THE SAME MAY BE PROVIDED ALONG WITH A THIRD PARTY CERTIFICATION.	
8.	In case you have a pre engineered system, what are the various modes of operation of the fire simulation?	
9.	What sort of inhibitor do you plan to use for fire suppression system in the facility in case of emergency? If yes, indicate the details of inhibitor.	
10.	How many personnel can be trained on FFTF simultaneously?	
11.	Does your system have an audio and visual alarm in case of emergency in the compartment?	
12.	Provide the details of display unit provided along with the system being provided in the DCHQ? (Including all features)	
13.	Are the fire sensors provided in your system heat and smoke resistant?	
14.	What is the total current and voltage rating of the entire system? Provide breakup for sensor, display, system etc., separately.	
	Is your facility installed with AFDS in all compartments? If yes, is the remote monitoring panel and indication panel at DCHQ	



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Ser	Information Required	Data/ Information
	installed. Further, is the remote monitoring panel capable of indicating smoke, heat and flame separately?	
16.	What is the working medium of your system? Specify the storage condition according to the existing Govt. policies and specify if necessary clearances can be obtained by the firm.	
17.	Does your system cater for continuous temperature monitoring with adjustable temperature setting for the purpose of pre-warning?	
18.	Can your system generate smoke with max opacity level at 100% should be visible of only 30 cm in minimum one room. The smoke should not cause any interference to any of the operating components. The smoke should be flame and heat resistant (indicate temperature), non toxic, cause mild irritant and biologically degradable.	
19.	Can your facility consists of demonstration bay for showing operation of fire curtain?	
20.	Can demonstration bay show operation of foam inlet tubes to extinguish bilge fires	
21.	Can your facility provide CO2 smothering system for machinery bilges	
22.	Can your system provide simulation for Helo fire fighting? If yes, can your system provide multiple fires in helo and with different simulations? Specify details	
23.	Can your facility provide dummy/ mock up equipment/ platforms to adequately populate the compartments and increase the degree of difficulty as felt onboard ships	
24.	Can your firm provide all consumables as part of AMC to run the facility? Provide the list of consumables required to run the facility.	
25.	What power of DG will be required to run the facility?	
26.	Does your facility caters for a battery backup for minimum of 10 minutes for all support systems essential to cater for time lag in DG taking over power supply load.	
27.	What mode of communications will be provided to effectively communicate with the trainees during the conduct of exercise?	
28.	What type of storage area will be provided for storing rubberized fire fighting gears?	
29.	Can your firm provide DCHQ with all information boards as per INBR 1835 Vol I and II for training in their usage and FF support equipments as onboard ships, iaw INBR 312(Rev)	

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<u>Ser</u>	<u>Information Required</u>	<u>Data/ Information</u>
30.	Can your facility provide all training aids for the facility and class room training? If yes, what all training aids will be provided?	
31.	Provide the list of sick bay equipment for the facility	
32.	Can arboriculture be provided around the facility?	
33.	Can your facility provide adequate no. of fire points in civil structure i.a.w National Building Code Regulation	
34.	Can your firm provide training aids and annual training to Naval personnel? If Yes, elaborate.	
35.	Can your system simulate different types of fire as list in Para 4 (k)? Provide details and methodology of generating fire.	
36.	Can your system provide demonstration models/ charts / Boards in the facility for new technologies like KARAT M system, EPZ028 system, Water Mist System, Aerosol based extinguisher systems etc? Specify details.	
37.	Can your system simulate Major Fire in one of the compartments and demonstrate use of CO2/Drenching/foam system to fight the fire?	
38.	Can your facility provide Galley Fire Fighting System(GFFS) in the galley?	
39.	Can your facility provide provisions for Charging for fixed FF system, portable FF equipment, BA and GFFS.	
40.	Is your firm capable of producing the facility indigenously? What is the % content of foreign equipment? Provide details.	
41.	What is the minimum area (Sqm) required for you to set the facility? Provide layout drawing	
42.	Can you provide 52 seater transport vehicle alongwith driver for movement of personnel to the simulator from respective ships?	
43.	Can you provide a sickbay and ambulance alongwith driver for medical emergency?	



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Appendix B

(Refer to Para 6(a) of RFI)

VENDOR INFORMATION PROFORMA

1. **Name of the Vendor/ Company/ Firm and Unique ID (if any).**

(Company profile including Share Holding pattern, in brief, to be attached). In the eventuality of the firm emerging as L1, Contract will be concluded in the name and address of the firm, as indicated here). Vendors are to undertake that any subsequent proposal for change in name of firm or address, will be intimated to NHQ MoD(N) at the first available opportunity and supporting documents be furnished accordingly within five working days of their approval by the competent authority.

2. **Type (Tick the relevant category).**

Original Equipment Manufacturer (OEM)

Yes/ No

Authorised Vendor of foreign Firm

Yes/ No (attach details, if yes)

Others (give specific details) _____

3. **Contact Details.**

Postal Address: _____

City: _____ State: _____

Pin Code: _____ Tele : _____

Fax: _____ URL/Web Site: _____

Email: _____

4. **Local Branch/ Liaison Office in Delhi (if any).**

Name & Address: _____

Pin code: _____ Tel: _____ Fax: _____ E mail: _____

5. **Financial Details.** Category of Industry (Large/ medium/ small Scale): _____

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6. **Certification by Quality Assurance Organisation.**

<u>Name of Agency</u>	<u>Certification</u>	<u>Applicable from</u> <u>(Date & Year)</u>	<u>Valid till</u> <u>(Date & Year)</u>

7. **Details of Registration.**

<u>Agency</u>	<u>Registration No.</u>	<u>Validity(Date)</u>	<u>Equipment</u>
DGS&D			
DGQA/DGAQA/ DGNAI			
OFB			
DRDO			
Any other Government Agency			

8. **Membership of FICCI/ ASSOCHAM/ CII or other Industrial Associations.**

Name of Organization: _____

Membership Number: _____

9. **Equipment/ Product Profile (to be submitted for each product separately)**

(a) Name of Product : _____
(IDDM Capability be indicated against the product)
(Should be given category wise for e.g. all products under night vision devices to be mentioned together)

(b) Description (attach technical literature): _____

(c) Whether OEM or Integrator : _____

(d) Name and address of Foreign collaborator (if any): _____

(e) Industrial License Number : _____



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- (f) Indigenous component of the product (in percentage): _____
- (g) Status (in service / design & development stage): _____
- (h) Production capacity per annum: _____
- (j) Countries / agencies where equipment supplied earlier (give details of quantity supplied): _____
- (k) Estimated price of the equipment _____
- (l) Indigenously produce subsystems, Line Repair Units, software and critical spares of the product : _____
- (m) Device / Line Repair Units for which Input / Output Protocols are indigenously available for enabling replacement by indigenous equivalents or interfacing with equipment of own choice : _____
- (n) Capability for carrying out Comprehensive Maintenance, Repair and Overhaul, calibration and obsolescence management of the equipment / platform / system along with associated jigs, fixture and test setups, during the designed service life of the equipment within India: _____

10. Alternatives to meet the objectives of the equipment/ better operational requirements set forth in the document.

11. Any other relevant information: _____

12. **Declaration**

(a) It is certified that the above information is true and any changes will be intimated at the earliest.

(b) It is certified that in the past that _____ (name of firm) has never been banned/debarred for doing business dealings with MoD/ GoI/ any other Government Organization and that there is no inquiry going on by CBI/ED/any other Government agency against the firm.

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