REQUEST FOR INFORMATION FOR
SUBMARINE DAMAGE CONTROL AND FIRE FIGHTING TRAINING FACILITY
FOR THE INDIAN NAVY

1. The Ministry of Defence, Government of India intends to procure one Damage Control and Fire Fighting Training Facility along with its associated equipment and civil works.

2. This Request for Information (RFI) consists of two parts as indicated below:-

   (a) **Part I.** The first part of the RFI incorporates operational characteristics and features that should be met by the equipment. A few important technical parameters of the proposed equipment are also mentioned.

   (b) **Part II.** The second part of the RFI states the methodology seeking response of vendors. Submission of incomplete response format will render the vendor liable for rejection.

**Part I**

3. **The Intended Use of Equipment.** The Submarine Damage Control and Fire Fighting Training Facility is required to be set up at Visakhapatnam to impart realistic training to personnel on damage control and fighting fire in the closed and confined (space constrained) submarine environment.

4. **Important Parameters.** This document solicits information regarding compliance with critical technical specifications of a Submarine Damage Control and Fire Fighting Training Facility. A detailed response is essential so as to analyze the proposed solution of the vendor with regards to technical capabilities and features of the Submarine Damage Control and Fire Fighting Training Facility. The Submarine Damage Control and Fire Fighting Training Facility would be installed at INS Satavahana or any other Naval Unit at Vishakhapatnam, Andhra Pradesh, India depending on the land requirement and availability. Certain important aspects are as follows:-

   (a) **Operation & Technical Parameters.** The design of the Submarine Damage Control and Fire Fighting Training Facility should meet the requirements at Appendix A.

   (b) Indicative cost for setting up the Submarine Damage Control and Fire Fighting Training Facility should take into account all aspects of supply, installation, integration, training, Factory Acceptance Trials (FATs), Onsite System Acceptance Test (OSAT) & life cycle support. The indicative cost should also cater the AMC as per details in Appendix A. Other aspects (if any), may be mentioned specifically.

   (c) Transfer of Technology requirements by Indian Vendors is to be indicated.
(d) Vendor is to indicate whether he has supplied the same or similar equipment to any other customer. Additionally, the vendor is to indicate whether similar equipment is in use in any other Navy.

(e) Vendor is to indicate the manpower required to operate and maintain the training facility. Additionally, the details of training required for such personnel is also to be indicated.

(f) Whether the vendor would be able to comply with all provisions of DPP-13 or not. If not, which Para/Clause of DPP would not be agreed with reasons is to be indicated.

(g) Willingness to offer offsets, if proposal exceeds Rs 300 Crores (for foreign vendors only) is to be indicated.

(h) Vendors may consider RFI as advance information to obtain requisite Government clearances.

(j) **Tentative Delivery Schedule.** The overall timeframe of production, delivery with stage wise break-up of the entire project post signing of contract along with Programme Evaluation and Review Technique (PERT) details is required to be submitted.

(k) **Payment Terms.** Vendor is to indicate acceptability to the terms of payment as per DPP-13

(l) **Approximate Cost Estimate.** The vendor is to provide the indicative cost of the project. The indicative cost of the Annual Maintenance Contract is to be indicated separately.

(m) Vendor is to indicate its capability to execute the project and provide product support including:

   (i) Technical support being provided for maintenance and support of the facility during its service life, including warranty. The service life of the facility should be at least 30 years.

   (ii) Modalities for Annual Maintenance Contract including spares, post warranty period.

(n) Vendor is to indicate the provisions for upgradeability of equipment to avoid system obsolesce.

(p) Vendor is to indicate restrictions related to exports in its country and how long will it take to get clearance.

(q) The details of the land requirement and electrical power requirements for creation of the training facility.
Earliest date by which OEM is willing to give a presentation at Naval Headquarters, New Delhi.

5. Vendor is to confirm if the following conditions in accordance with DPP-2013, 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) Among the vendors cleared by TEC, a Commercial Negotiation Committee (CNC) would decide the lowest cost bidder (L1) and conclude the appropriate contract.

(d) 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.

(e) Vendor would be required to accept the general conditions of contract given in the Standard Contract Document at Chapter V of DPP 2013 placed at www.mod.nic.in.

(f) Offsets (if applicable). The vendor confirms to undertake offsets contracts amounting to 30% of the values of commercial proposals.

(g) Integrity Pact. An Integrity Pact along with appropriate Bank Guarantee is mandatory requirement as per Annexure I to Appendix H of Schedule I to Chapter I of DPP 2013.

(h) Performance-cum-Warranty Bond. A performance-cum-Warranty Bond of 5% of value of the Contract would be furnished by the seller in the form of a Bank Guarantee after signing of the contract.

Part II

6. Procedure for Response

(a) Vendor must fill the form of response as given in Appendix E of Chapter I DPP 2013 (details placed at 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 product can also be attached with the form.

(b) The filled form should be dispatched at under mentioned address:-
The last date of acceptance of filled form is ______. The vendors shortlisted for issue of RFP would be intimated. A presentation on the subject may be sought in case it is felt that certain parameters mentioned in your RFI need further clarification.

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

8. This information is being issued with no financial commitment and the Ministry of Defence reserve the right to change or vary any part thereof 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 DPP-2013.
OPERATIONAL AND TECHNICAL PARAMETERS FOR SUBMARINE DAMAGE CONTROL AND FIRE FIGHTING TRAINING FACILITY

1. A state-of-the-art Submarine Damage Control and Fire Fighting Training Facility is required to be set up at Visakhapatnam to impart realistic training to personnel on damage control and fighting fire onboard submarines in the closed and confined (space constrained) submarine environment.

2. **Training Objectives.** The training objectives of the Submarine Damage Control and Fire Fighting Training Facility are as follows:-

   (a) To comprehend the fundamental principles and concepts necessary to mitigate, solve and control an emergency whilst exposed to the elements of flooding, smoke, fire and heat within the compartment.

   (b) Correct use of Individual Protective Devices (IPD) and breathing sets.

   (c) Enable trainees of affected and adjacent compartments to take necessary action regarding energising/ de-energising equipments/systems, measurement of microclimate of affected compartment, procedure of entering the affected compartment by an investigation / repair party along with associated gear, methodology of inspection and evacuation of affected compartment etc.

   (d) The training facility should also be capable of facilitating training to individual watch keepers, compartment crew (*multiple trainees forming a team*) and command team (*officers directing crew*) in response to damage control and fire fighting emergencies.

**General Arrangement**

3. The Submarine Damage Control and Fire Fighting Training Facility is to be a fully independent facility for damage control and fire fighting with following sections:-

   (a) Damage Control Simulator.

   (b) Fire Fighting Simulator.

   (c) Instructor Station.

   (d) DC Gear Practice area.
(e) First aid fire fighting training area (Open fire hart).
(f) Instruction area (Class rooms).
(g) Administrative area.
(h) Training material storage area.
(j) First aid Post.
(k) Power management system including emergency power backup.
(l) Fuel storage, handling and transfer system.
(m) Water storage, treatment and handling system.
(n) Air conditioning and ventilation system.
(p) Maintenance area.
(q) Any other facility as necessary for independent operation of training facility.

4. The compartments of the simulator should be on a single level (single deck structure), with the entry for the simulator from the top of the control room. The entry in the simulator should be through a circular conning tower into the control room. The passageway for the compartments should be through circular escape hatches similar in design to the hatches in EKM class of submarines. In addition, the floodable compartments should be provided with emergency exits opening directly outside the simulator.

5. **Broad Operational Philosophy**. The simulators should be integrated so as to undertake the DC and FF exercises independently or in tandem. The control rooms, akin to the control room in a submarine, shall be the main post for control of all activities pertaining to the exercises by the trainees. The DC simulator control room should also serve as an integrated control station for the DC and FF simulators in case of exercising FF and DC emergencies simultaneously. The exercises in the DC and FF simulators shall be monitored and controlled from the instructor station. The Instructor Station would also be used for conducting debrief at the end of the exercise. Towards this there shall be facility for generating the reports and video playback of the actions undertaken by the trainees.

**Damage Control Simulator**

6. The DC Simulator would primarily simulate various flooding emergencies and HP air leak situations, that are likely onboard a submarine. The DC simulator should have One Degree of Freedom and shall consist of three compartments:-
(a) Control Room. Should house all trainee controls of the simulator and should not be floodable.

(b) Auxiliary Machinery Room.

(c) Engine Room.

7. The DC simulator shall have atleast two independent sea water systems with complex loops of pipelines and should be laid in auxiliary machinery compartment and engine room. These leak locations are to be remotely controlled by the instructor from the Instructor Station. The type of leaks should be of the following types (but not restricted to these):

(a) Piping system with flanges/unions of various dimensions to simulate flooding through flange/unions leaks.

(b) Pipe bends for simulation flooding through break/leak from pipe bend.

(c) Leakage from Valve to simulate leakage from the valve flanges or valve glands.

(d) Safety valves for simulation of over pressure situation.

(e) Pressure gauges along with capillary union based piping for simulating minor leak/flooding.

(f) Compensator leak/crack/burst on the outlet of the positive displacement pump for simulation flooding emergency due to wrong configuration of system valves. The exercise would also expose trainee for technique in renewal of a compensator onboard (may be included in the scope, if required).

(g) Bilge suction valve with faulty non-return element for simulating flooding emergency due to defective valve.

(h) Pre-drilled holes in the piping system strategically located to simulate flooding emergency in a constrained space/difficult accessible locations onboard submarine.

8. The Auxiliary Machinery compartment should be provided with a dummy garbage ejector along to simulate the leakage from the garbage ejector due to defective inner lid and/or system pipelines.

9. The DC compartment should be provided with air system to depict the HP Air system onboard the submarine (however the actual pressure to be limited to 6-8 Kgf/cm²). The system should provide HP air leak simulation as well as cater for pressurizing compartment to reduce flooding rate. The air system should have facility to simulate the following:

(a) Defective pipe unions.

(b) Safety valve malfunction.
Defective system valves.

10. DC Simulator should have following specific features:-
(a) Flooding and Draining System.
(b) Emergency Draining system.
(c) Mist generator to simulate high pressure leak.
(d) Smoke Generator to increase difficulty of training.
(e) Ventilation System.
(f) Water level compartment pressure monitoring.
(g) Gas monitoring sensors for monitoring percentage of CO$_2$ and O$_2$.

**Fire Fighting Simulator**

11. The FF simulator should have the facility to simulate computer controlled fires, corresponding to the likely fires that may occur in the respective compartments onboard a submarine. Standard patterns of fire for galley, general fire, electrical fire, oil fire etc. should be generated using gaseous fuel. The Fire Fighting Simulator should be a static simulator and contain four compartments, namely:-
(a) Torpedo room with Battery deck.
(b) Control Room.
(c) Galley & mess deck.
(d) Machinery Room.

12. The simulator should allow the trainees to realistically respond and attempt fighting / extinguishing the fire/flames and also enable actions by the affected compartment crew and adjacent compartment for preparation of the affected compartment for evacuation and activation of fixed fire fighting system. Further, the simulator should also allow the training for inspection procedures post activation of fixed fire fighting system. Following are the broad requirements based on likely types of fire in the compartments:-
(a) **Machinery Room / Engine Room.** Fuel flange leak fire and Bilge fire.
(b) **Galley and Mess Deck.** Electrical fire, Galley Oil fire, Smothering Combustion effect and Bunk fire with fire ball effect.
(c) **Torpedo Room and Battery Room.** General fire in living accommodation space and Electrical fire on the battery post /switchboard. The reserve torpedo
sprinkling system/ nozzle based system should also be included for training the compartment crew for its preparation and activation procedure.

13. **Portable and Fixed Fire Fighting Aids.** All types of portable fire extinguishers encountered onboard a submarine should be made available to the trainees in the various compartments, akin to that on actual submarine. In-addition, the fixed fire fighting system arrangement with mist based system (to simulate foam based fire extinguisher onboard Sindhughosh class and Halon based fire extinguishing System onboard Sindhughosh and Shishumar class submarines). Additionally, a Reserve Torpedo Sprinkling System as provided on Sindhughosh class submarines would also be required for compartment crew training.

14. **FF Simulator should have following specific features:**
   (a) Hot Entry into compartment.
   (b) Smoke Generation.
   (c) Burner Emission control.
   (d) Compartment pressurization.
   (e) Ventilation system.
   (f) Crash stop and safety mechanism.
   (g) Gas Monitoring system.
   (h) Temperature monitoring system.
   (i) Exhaust cleanup system.

15. **The Training facility should have following common features for both the simulators:**
   (a) Broadcast system for complete training facility and individual broadcast system for both simulators.
   (b) Intercom system in both simulator.
   (c) Visual monitoring by video and IR cameras.
   (d) Fire warning and safety system.
   (e) Breathing Apparatus Charging facility.

16. **Training and Administration Complex.** An independent training and administration complex for the training facility should be provided with following facilities:
   (a) Classrooms with training aids.
   (b) Changing room and washrooms.
(c) Office Space for personnel.
(d) Storage area.
(e) HVAC system for training and administration complex.

17. The training facility should be constructed by the vendor with all the ancillary civil works including the roads, fencing, arboriculture, area lighting etc.

18. The contract would include comprehensive AMC of the training facility for a period of five years, post completion of the warranty period.

19. BIBS. DC & FF Simulators to be provided with Built in Breathing System for escape practice of trainees.

20. **Training Load.** The training facility should be able to handle the following training load on each simulator. All related infrastructure should be accordingly set up to meet this training load.

   (a) 15 trainees per Day.
   (b) 1500 trainees per Year.

21. **Rules and Regulations.** All structures of the simulators and its end portal supports should be designed, inspected and certified as per rules and regulations of Indian Register of Shipping. The steel structure with portal frames should be Finite Element Method (FEM) analysed for IRS approval.
Appendix B
(Refers Para 6)

VENDOR INFORMATION PERFORMA

1. **Name of the Vendor/Company/Firm.**
   
   ______________________________________________________
   
   ______________________________________________________
   
   (Company profile, in brief, to be attached)

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: ____________________

4. **Local Branch/Liaison Office / Authorised Representatives in India (if any).**

   Name & Address:________________________________________
   
   Pin code: ___________Tel: ___________Fax: ______________

5. **Financial Details.**

   (a) Category of Industry (Large/medium/small Scale): ________________
   
   (b) Annual turnover: _______________ USD (INR for Indian Vendor)
   
   (c) Number of employees in firm: ___________________________
   
   (d) Details of manufacturing infrastructure: ____________________
   
   ______________________________________________________
(e) Earlier contracts with Indian Ministry of Defence/Government agencies:

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<th>Agency</th>
<th>Contract Number</th>
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6. **Certification by Quality Assurance Organisation (If Applicable)**

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7. **Details of Registration (Only for Indian Vendors)**

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

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9. **Equipment/Product Profile**

(a) Name of Product: ____________________________
(Should be given category wise for eg. 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: ____________________________
(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 ___________________________

10. Alternatives for meeting the objectives of the equipment set forth in the RFI.

11. Any other relevant information: _____________________________

12. **Declaration.** It is certified that the above information is true and any changes will be intimated within five (05) working days of occurrence.

   *(Authorised Signatory)*
INFORMATION PROFORMA
(INDIAN VENDORS)

1. Name of Company/ SME Unit .................................................................

2. Address / Contact details

   Postal Address:
   ............................................................................................................
   ............................................................................................................

   City: .................................................. State: ..................................................
   Pin Code: .............................. Tele: ..................................................
   Fax: ........................................... URL/Website: ..................................

3. Details about the Company / SME Unit:

   (a) Category of Industry (Large/Medium/Small Scale): ..............................
   (b) Industrial License if any (Copy to be attached): ..............................
   (c) Annual turnover for the last three years: ........................................(in INR)
   (d) Central Excise Registration No.(if any) ..............................................
   (e) Number of Employees ..................................................................
   (f) Details of manufacturing infrastructure i.e. details of machineries installed
       Factory / Plant wise in the following format:

       Location of Factory/Plant

       | SI No. | Description of machineries installed | Technical specifications (make, model, etc.) | Year of installation |
       |--------|-------------------------------------|---------------------------------------------|----------------------|
       |        |                                     |                                              |                      |

   (g) Details of the R&D infrastructure i.e. staff, equipment and expenditure on R&D as
       %age of turnover in the last three years.

   (h) Details of electricity connection:

       | SI No. | Name of electricity supplying company | Total number of electricity meters installed in the factory | Electricity consumer number | Sanctioned electricity load |
       |--------|---------------------------------------|-----------------------------------------------------------|-----------------------------|-----------------------------|
       |        |                                       |                                                           |                             |                             |
4. **Major Contracts executed in the last 3 year or being executed with Indian Ministry of Defence or other agencies:**

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7. Any other relevant information………………………………………………………………

8. **Undertaking:**

   It is certified that the company/SME Unit has adequate capability in India for production/manufacturing/ system integration for the product(s) being procured or for similar products as well as the capability for maintenance and life cycle support for such product(s).

9. **Declaration.**

   (i) I/We _____________________ hereby declare that the information given above is true, correct and complete in every respect to the best of my/our knowledge and belief and any changes will be intimated within one month of occurrence.

   (ii) I am/We are authorized to sign this declaration.

   (Authorized Signatory)
INFORMATION PROFORMA
(FOREIGN VENDORS)

1. Name of the Vendor /Company /firm. ______________________________________
(Company profile, in brief, to be attached)

2. Type (Tick the relevant category).

Original Equipment Manufacturer (OEM) Yes/No
Government Sponsored Export Agency Yes/No (Details of Registration to be provided)
Authorised Vendor of OEM Yes/No (attach details)
Others (give specific details) ________________________________________________

3. **Contact Details.**

Postal Address: _____________________________________________________________
City : __________________________ Province: __________________________
Country: ___________________________ Pin/Zip Code:___________________________
Tele: ____________________ Fax:________________________________________________
URL/Web Site: ____________________________________________________________

4. **Local Branch /Liaison Office/Authorised Representatives, in India (if any).**

Name & Address: ___________________________________________________________
City: __________________________ Province: __________________________
Pin Code: ________________________ Tel: __________________ Fax:________________

5. **Financial Details.**

(a) Annual Turnover:__________________________ USD
(b) Number of Employees in firm ____________________________________________
(c) Details of manufacturing infrastructure available ____________________________
(d) Earlier contracts with Indian Ministry of Defence/Government agencies:
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(a) Name of 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) Status (in Service/Design Development stage): ________________________________

(e) Production capacity per annum: ________________________________

(f) Countries where equipment is in service: ________________________________

(g) Whether export clearance is required from respective Government: ________________________________

(h) Any Collaboration/Joint Venture/Co-production/Authorised dealer with Indian Industry (give details):
Name & Address: ________________________________
Tel: ________________________________ Fax: ________________________________

(j) Estimated price of the equipment ________________________________

8. Alternatives for meeting the objectives of the equipment set forth in the RFI.

9. Any other relevant information ________________________________

10. **Declaration.** It is certified that the above information is true and any changes will be intimated within five (05) working days of occurrence.

    *(Authorized Signatory)*
Mandatory Information for Submission of RFI

1. Tender Title.  
   Procurement of Submarine Damage Control and Fire Fighting Training Facility for Indian Navy

2. Tender Reference No:  MQ/3520/DCFFS

3. Tender Value.  
   000

4. Tender Type. – Buy / Service Contract / Work Contract Empanelment

5. Bid Process – Single / Two / Three / Four bids

6. Location:  
   New Delhi

7. First Announcement Date.  
   10 Nov 15

8. Last Date of Document Collection.  
   20 Dec 15

9. Last Date of Submission.  
   20 Dec 15

10. Opening Date.  
    20 Dec 15

11. Brief Work Description.  
    Supply and installation of a Submarine Damage Control and Fire Fighting Training Facility along with its associated equipment and civil works. The facility should be capable of providing basic and refresher training to the Naval personnel regarding damage control and fire fighting in confined spaces of the submarines.

12. Contact Address.  
    DSMAQ, Room No. 120, C Wing, Sena Bhawan, New Delhi - 110011

13. Contact Telephone Nos. -  
    +91 - 11 - 23010162

14. Date for Pre-Bid Meet  
    NA