

Appendix A
(Refers to Para 3(d))

**QUESTIONNAIRE FOR DETAILS IN RESPECT OF
MAGAZINE FIRE FIGHTING SYSTEM**

<u>Ser</u>	<u>Information Required</u>	<u>Data/ Information</u>
1.	Can you design, supply, manufacture, install, setting to work and commission an Automated Magazine Fire Fighting System for 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 IACS or by a reputed fire test laboratory? If yes, provide details and copy of certification.	
4.	Has your Automated Magazine Fire Fighting System been fitted in any of the warship/military ammunition depots of 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 system capable of fire suppression onboard magazines of a warship, kindly provide the design philosophy and technical details of the system along with description of system.	
7.	<p>The Automated Magazine Fire Fighting System which Indian Navy requires is to be compliant with the following standards:-</p> <p>(a) NES 119 Part-I for seawater flow and extinguishment requirement.</p> <p>(b) MIL-S-901D for shock.</p> <p>(c) MIL-Std- 167/1A for mechanical vibrations.</p> <p>(d) MIL-STD-461F for EMI/EMC.</p> <p>(e) MIL-STD-2036 (GEN requirements for Electronics).</p> <p>(f) IP 55 for instrumentation & IP 56 for electric motors if any.</p> <p>(g) NES 526 for internal cabling.</p> <p>(h) NES 603 for fire detection sensors.</p>	

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	<p>(j) The system should be designed in accordance with DEFSTAN 00-101 Part 1 and equivalent Military Standards.</p> <p><u>NOTE:</u> - IN CASE THE SYSTEM YOU ENVISAGE IS COMPLIANT TO AN EQUIVALENT/BETTER STANDARD THE SAME MAY BE PROVIDED ALONG WITH A THIRD PARTY CERTIFICATION.</p>	
8.	In case you have a pre engineered system, what are the various modes of operation that is possible with the system viz Automatic, Manual and Remote.	
9.	What sort of inhibitor do you plan to use for fire suppression system? If yes, indicate the technical details of inhibitor and provide description of the system.	
10.	What will be the time duration taken by your system to detect a minor fire $< 2 \text{ kW/M}^2$ at a nominal distance of 05 metres and to extinguish the same?	
11.	What is the time taken by your system for actuation post detection of fire?	
12.	Does your system have an audio and visual alarm in case of detection of fire in the compartment?	
13.	Provide the details of display unit provided along with the system(including all features).	
14.	What is the operating range of your system(temperature, pressure and radiation etc)?	
15.	Are the sensors provided in your system explosion, splash spark proof?	
16.	Can you provide dual channel temperature sensor for magazine fire fighting system with operating range of 70 ± 7 deg Centigrade?	
17.	What is the total current and voltage rating of the entire system? Provide breakup for sensor, display, system etc, separately.	
18.	Does your alarm unit have a Built-in-Test-Facility? If yes, provide details.	
19.	Can your system be integrated with various other systems onboard such as ventilation, power, seawater system, IPMS and BDCS etc?	
20.	Is your system provided with a Quick Action/Open/Release valve? If yes, provide details of actuation and operation.	
21.	What is the working medium of your system?	
22.	What is the working pressure of your system?	

<u>Ser</u>	<u>Information Required</u>	<u>Data/ Information</u>
23.	Can your system be integrated with two separate water lines from different fire pumps located in different section connected to the sprinkling station?	
24.	Is the gas provided in the inhibitor system free from ODP and affect global warming?	
25.	Does your system cater for continuous temperature monitoring with adjustable temperature setting for the purpose of pre-warning?	
26.	What is the mechanism of redundancy being provided for the system in case of system misfire?	
27.	How is the power supply being catered for the system in case of total power failure?	
28.	What is the shelf life of the MFFS and is there a replacement warranty?	
29.	Would you be able to provide comprehensive Annual Maintenance Contract(AMC)for life time of the equipment?	
30.	Would you provide suitable training aids to enable understanding of the functioning of the equipment and also for training of personnel?	
31.	Is the magazine fire fighting system provided by your firms cater for UPS/battery backup for more than 4 hrs?	

INFORMATION PROFORMA
(INDIAN 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
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 in Delhi (if any).**

Name & Address:

Pin code: _____ Tel: _____ Fax: _____

5. **Financial Details.**

(a) Category of Industry (Large/Medium/Small Scale). _____

(b) Annual turnover: _____ (in INR)

(c) Number of employees in firm: _____

(d) Details of manufacturing infrastructure: _____

(e) Earlier contracts with Indian Ministry of Defence/Government agencies:

Contract Number	Equipment	Quantity	Cost

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

Name of Agency	Certification	Applicable Year (Date and Year)	Valid Till (Date and Year)

7. **Details of Registration.**

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

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

Name of Organisation

Membership Number

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

- (a) Name of Product: _____
- (b) Description (attach technical literature): _____
- (c) Whether OEM or Integrator: _____
- (d) Name and address of foreign collaborator (if any): _____
- (e) Industrial Licence 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
(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:

Agency	Contract Number	Equipment	Quantity	Cost

6. **Certification by Quality Assurance Organisation (If Applicable).**

Name of Agency	Certification	Applicable Year (Date and Year)	Valid Till (Date and Year)

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

- (a) Name of Product: _____
- (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.

(Authorised Signatory)