

Asia's only convention on
Ammonia Refrigeration



ARC[®]ON[®]

CHENNAI - 2024

**2 February
2024
FRIDAY**

**Sustainable, Efficient and
Innovative Ammonia
Refrigeration Systems**

**Timings :
9.00 am to 10.00 pm**

**Venue :
Le Royal Meridien,
#1 GST Road, St. Thomas Mount,
Chennai - 600016, INDIA**



EXHIBITION



**TECHNICAL
PRESENTATION**



**PANEL
DISCUSSION**



**NETWORKING
DINNER**



**Association of
AMMONIA REFRIGERATION**

Established in **2012**

[not-for-profit organization registered in Pune
, Maharashtra, India]

Address : E8, Rahul Complex, Paud Road.

Kothrud, Pune 411038

Phone : 7447454586

Email: ammoniaindia@gmail.org

Website : www.ammoniaindia.org

Aim >> To promote safe use of ammonia as refrigerant through education, training, information and standards.

Purpose >> To provide a platform for professionals, industry, technicians, end-users to meet, interact and work towards advance technology and safe practices with ammonia and other natural refrigerants.

This Purpose is achieved through >>

- ✓ *Technical Seminars – Advantage Ammonia*
- ✓ *Quarterly Newsletter*
- ✓ *Annual Event & Expo – ARCON*
- ✓ *Technical Publications*
- ✓ *Skill Up gradation through Standards*


AAR BOD Team Members for the term 2023-2024		
Sr. No.	Deisgnation	Name
1	President	Mr. Manan Kohli
2	Immediate Past President	Mr. Dhananjay Deshpande
3	President Elect	Mr. Nikhil Raj
4	Vice President	Mr. P Sudhirkumar
5	Secretary	Mr. Manish Dandekar
6	Treasurer	Mr.. Mohit Jain
7	BOD	Mr. Anil Gulanikar
8	BOD	Mr. Rahul Aggarwal
9	BOD	Mr. Shivkumar Gupta
10	BOD	Mr. Avinash Prabhumirashi
11	BOD	Mr. Murugesan
12	Copted Member	Mr. Kailash Khade
13	Copted Member	Mr. Nagesh Udavant
14	Copted Member	Mr. Nimbq Borse
15	Copted Member	Mr. Aditya Gautam
16	Copted Member	Mr. Rajesh Shah

TEAM AAR

Industry & Refrigeration Experts

17	Chairman Standards and technical Publication	Mr. Ramesh Paranjpey
18	Past President & Chairman Corporate Membership	Mr. P. Sudhirkumar
19	Past President & Chairman individual Membership	Mr. Dhananjay Deshpande
20	Past President & Mentor	Mr. Anand Joshi
21	Past President & Mentor	Mr. Kishor Manglani
22	Past President & Mentor	Mr. Haresh Rupchandani
23	Past President & Mentor	Mr. Rajendran
24	Past President & Mentor	Mr. Anish Simha
25	Past President & Mentor	Mr. Mohan Gharad
26	Past President & Mentor	Mr. Arvind Shendage

AAR Achievements



55
Corporate
Members



350+
Individual
Members




18000+
Delegates
Trained

Members are manufacturers, consultants, contractors, Technical Professionals and End-Users of various organizations who are involved directly or indirectly with Ammonia as a Refrigerant. Apart from India we have members from countries like China, Singapore, Germany, UAE, Japan, USA, Sri Lanka and Vietnam.



85
Advantage Ammonia
Training Programs



45
Tech Presentations
Other Forums



20
Webinars



7 **ARC** **N**
Asia's Only Ammonia
Convention
ARCON



36
AAR Member
Networking
Events



7 Publications
Newsletter, Posters
Pocket Guide Ind Ref Standards,
Tech Reference books

CORPORATE MEMBERS



Association of
AMMONIA REFRIGERATION

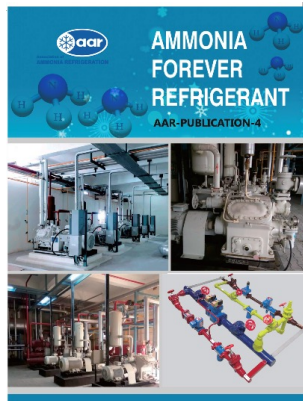




**Publications
Newsletter, Posters
Ind Ref Standards,
Tech Reference
books**

AAR Publications

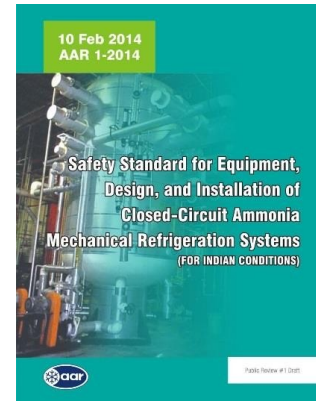
✓ *Publications available for sale online
(visit ammoniaindia.org for placing order)*



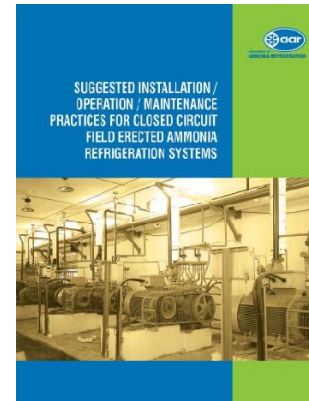
**AAR-04 Ammonia
Forever
Refrigeration : A
book giving all
information
about Ammonia**



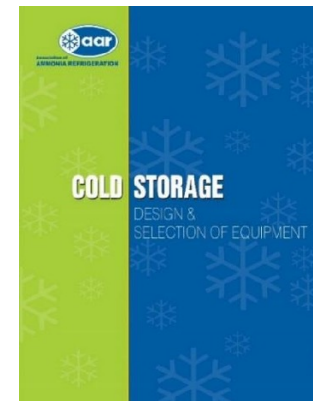
**AAR Newsletter
Circulated
Quarterly**



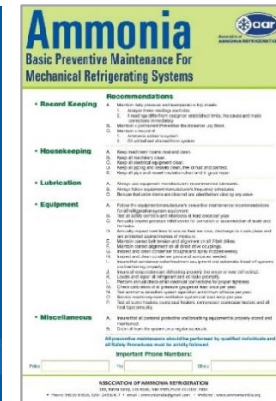
**AAR-1 Equipment
, Design and
Installation of
closed circuit
Ammonia
Refrigeration
Systems**



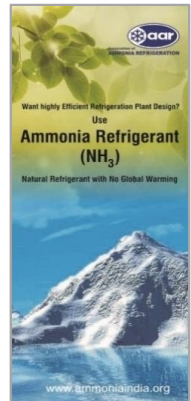
**Standards book.
Suggested
Installation ,
operation ,
Maintenance ,
Practices for
closed circuit field
erected System**



**Technical
Reference book.
Cold Storage
Design & Selection
of Equipment**



**Posters on
Plant
Operation
And
Safety**



**Pocket
Guide
for
Ammonia
Refrigerant**



**Publications
Newsletter, Posters
Ind Ref Standards,
Tech Reference books**

Equipment , Design and Installation of closed circuit Ammonia Refrigeration Systems



The Standard is at its final stage of approval from BUREAU OF INDIAN STANDARDS and soon be published as Indian Standard.

AAR standard Committee members
Mr. Ramesh Paranjpey
Mr. Anil Gulanikar
Mr. Haresh Rupchandani
Mr. Anand Joshi
Mr. Nikhil Raj

AAR and members thank the committee for their continuous efforts over the years .



From Standard provided by BIS via B2B Edge Private Limited to Member Organisations -
 Publication: 201410000@gmail.com | 172.232.137.232 (for non-commercial use only)

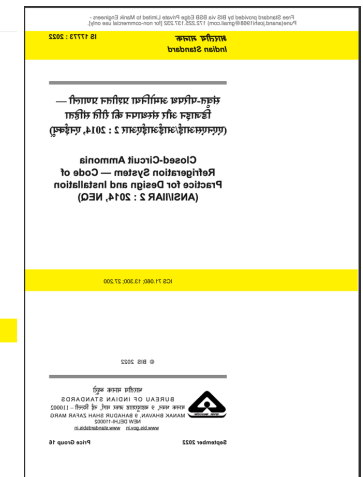
IS 17773 | 2014

Organization	Representative(s)
Bharat Heavy Electricals Pvt Ltd, Noida	State Director, Chhattisgarh
Sierra Atoms Pvt Ltd, Gurgaon	State Executive Officer (Ahmedabad)
The Chennai India Pvt Ltd, Gurgaon	State Director, Madhya Pradesh
U.S. India Pvt Ltd, Bangalore	State Member, State Secretariat (Ahmedabad)
Vishva Ltd, Mumbai	State Director, Madhya Pradesh
Voluntary Organizations in Interest of Consumer (VOC), New Delhi	State Director, Madhya Pradesh
In person capacity (I/C), 65, Sector 14, Gurgaon	State Director, Madhya Pradesh
In person capacity (I/C), 65, Sector 14, Gurgaon	State Director, Madhya Pradesh
BIS (Consumer Council)	State Director, Madhya Pradesh

Member Secretary
 Ms. Lakshmi Prasad, Senior
 Scientist 'C' (MED), BIS

Panel on Closed-circuit Ammonia Refrigeration System-Code of Practice for Design and Installation

Organization	Representative(s)
In person capacity (I/C), 65, Sector 14, Gurgaon	State Director, Madhya Pradesh
Association of Ammonia Refrigeration, Mumbai	State Director, Madhya Pradesh
Centre for Science and Environment, New Delhi	State Director, Madhya Pradesh
Chennai India Pvt Ltd, New Delhi	State Director, Madhya Pradesh
International Institute of Ammonia Refrigeration	State Director, Madhya Pradesh
Refrigeration and Air Conditioning Manufacturers Association (RACMA)	State Director, Madhya Pradesh
Voluntary Organizations in Interest of Consumer (VOC), New Delhi	State Director, Madhya Pradesh





**Advantage
Ammonia
Training
Programs**

ADVANTAGE AMMONIA PROGRAM 2023



- **ADVANTAGE AMMONIA PROGRAM VADODARA 06 May 2023**
- **ADVANTAGE AMMONIA PROGRAM Indore 17 June 2023**
- **WORLD REFRGERATION DAY CELEBRATION 26 June 2023**
- **ADVANTAGE AMMONIA PROGRAM Veraval 01 July 2023**
- **ADVANTAGE AMMONIA PROGRAM BANGLORE 19 August 2023**
- **ADVANTAGE AMMONIA PROGRAM Kochi 21 August 2023**
- **ADVANTAGE AMMONIA PROGRAM Mathura 01 September 2023**
- **ADVANTAGE AMMONIA PROGRAM Aligarh 02 September 2023**



Advantage Ammonia Training Programs



TRAINING PROGRAM
ADVANTAGE AMMONIA
 Venue: The Baroda Residency, 16, Alkapuri Society, Near C4 Jewellers, Alkapuri, Vadodara - 390007
 Saturday 6th May, 2023 • Time : 09.00 AM TO 5.00 PM.
TOPICS FOR ADVANTAGE AMMONIA
 1. Ammonia as a refrigerant - Anil Gulanikar
 2. Need for energy efficiency in cold storage - Anil Gulanikar
 3. Effect of air and water in ammonia systems- Anand Joshi
 4. Best Installation Practice Including Piping: Common Mistakes People Make - Mahan Gharad
 5. Oil in Ammonia - Dr. Ashish Kadam
Hurry Up!
LIMITED SEATS



AAR is always available voluntarily for their stake holders like people who are connected with ammonia refrigeration as consultant, contractors, end users, owners, operators, maintenance people etc .

ARC-N
 ASSOCIATION OF AMMONIA REFRIGERATION
 Presents
TRAINING PROGRAM
 Day: 17th June 2023 Venue: HOTEL AMARVILAS Hospitality at Lite beat 1 B, AB Rd, Sector B, Chandra Nagar, Indore, Madhya Pradesh- 452001
 Time: 09.00 AM TO 5.00 PM.
Topics :
 1. Analyzing and enhancing the life of refrigeration plants
 2. Installation precautions on valves and controls
 3. Why Compressor Fails and Compressor Weekly Monthly Yearly
 4. Refrigerant piping designing, installation & precautions
 5. Importance of insulation for refrigeration
 6. Ammonia natural choice of refrigerant - Panel Discussion



AAR reach out to everyone interested through seminars & trainings conducted by Industry experts & ammonia refrigeration specific publications.

ASSOCIATION OF AMMONIA REFRIGERATION AND VEERVAL SEAFOOD ASSOCIATION
 Presents
TRAINING PROGRAM
ADVANTAGE AMMONIA
 09.00 - 09.30 • Inauguration
 • Welcome address by President Veerval Sea Food Association
 • AAR Presentation
 09.30 - 11.00 • Ammonia as Refrigerant
 • Fundamentals of Refrigeration
 11.00 - 11.15 Tea Break
 11.15 - 12.45 Valve & Controls Installation Precautions
 12.45 - 01.15 Lunch Break
 01.15 - 02.00 Equipment & Vessel : Types, Applications, Functions
 02.00 - 03.00 Why Compressor Fail
 03.00 - 04.00 Plant Operation and Maintenance
 04.00 - 05.00 Effect of Air & Water
 05.00 - 05.15 Q & A
 05.15 - 05.30 Tea Break



AAR is also available present in exhibitions through participations so industry and ammonia refrigeration installers, operators, industry owners can become members.



Webinars



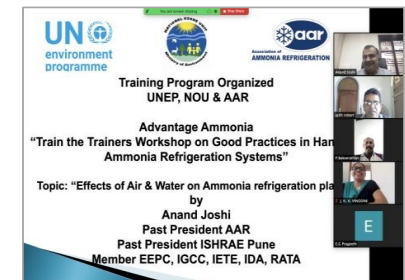
AAR Past Presidents Mr. Anil Gulanikar and Mr. Anand Joshi has been invited by Federation of Cold Storage association India as speakers for their online training program.

AAR was invited to discuss ' Strategies to mainstream green cooling in India from I Forest for two-day brainstorming meeting '

Mr. Anil Gulanikar was invited as panellist for COP12/MOP32 side event to discussion safety standard for natural refrigerants in India- Status and way forward.23rd Nov, 2020.

Philippine society of Mechanical Engineers , INC. also gave recognition to Mr. Anand Joshi for his presentation on 'Effect of air and water on Ammonia Refrigeration Plant'.

AAR conducted one week training program, for UNEP& NOU Sri Lanka was conducted by Mr. Anil Gulanikar & Mr. Anand Joshi



Everything about Ammonia Refrigeration



ARCON Chennai on 2nd Feb 2024

Exhibition | Seminars | Networking | Publications

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CHENNAI - 2024

ARCON 2024: PROGRAM DETAILS

Chief Guest

Mr. Aditya Narayan Singh
Additional Director, Ozone Cell,
MoEF & CC Delhi, India



*Key Note Address :
Refrigerant Phase Out Plan 3 of India.*

Eminent Technical Experts & Topics



Mr. Hiroyuki Egashira
*Topic :
CO₂-Ammonia-R404A System
For Freezing*



Mr. Achim Surber
*Topic :
Optimizing ammonia
Pump Performance*



Mr. Dattatray D. Chaudhari
*Topic :
Heat exchanger and pressure vessel
design and manufacturing
as per ASME sec VIII Div -I*

Panel Discussion

New Technology in Ammonia Refrigeration



Mr. Anil Gulanikar
Co-ordinator



Mr. Hiroyuki Egashira
Panelist



Mr. Reza Emami
Panelist



Mr. Sudhir Kumar
Panelist



Mr. Nikhil Raj
Panelist



Mr. Haresh Rupchandani
Panelist

SPONSORS FOR ARCON 2024



Association of
AMMONIA REFRIGERATION

EVENT PARTNERS

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Evapco Refrigeration Equipment Co. Ltd

TITANIUM



Frick India Ltd.

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Manik Engineers

LANYARD



Omega Icehill



Kirloskar Pneumatic Co. Ltd.



Hermetic Pumps
Singapore Pte. Ltd

DELEGATE KIT



Manik Engineers

AAR Website updates



www.ammoniaindia.org

Website updates :

- All AAR technical training program presentations are now uploaded on AAR web site.
- We have started recordings of Video Presentations for members benefit.
- Link for online payments / UPI.
- Frequently Asked Questions (FAQ's).
- Information about upcoming events.
- Online payment facility.
- Links for our social media sites established

For more and detailed information about AAR, its activities, photo gallery, please visit

The screenshot shows the 'About AAR' page on the website. At the top, there is the AAR logo and contact information: 'Contact us: +91 744 745 4586' and 'ammoniaindia@gmail.com'. Below this is a navigation menu with links for HOME, ABOUT US (highlighted), ARCON, TRAININGS, MEMBERSHIP, PRESENTATIONS, NEWSLETTER, NEWS & EVENTS, FAQ, FORUMS, CONTACT, and MY ACCOUNT. The main heading is 'About AAR'. Below the heading is a breadcrumb trail: 'Home / About AAR'. The 'Vision' section features a circular image of a compass with the word 'VISION' written around it. To the right of the image, the text states: 'The purpose of the association is to promote the safe use of ammonia as a refrigerant through education, information and standards. To introduce and encourage constructive educational efforts in the fields of design, safety, installation, operation, maintenance, application and such other subjects as shall furnish a better understanding of the use of ammonia as a refrigerant. To introduce and encourage constructive educational efforts in the field of government affairs, trade association standards and any other groups or associations that establish work rules, standards or guidelines regarding the use of ammonia as a refrigerant and to advise and inform legislative bodies, trade associations, rating and testing bureaus, insurance organizations and any other group or association regarding the proper and safe use of ammonia as a refrigerant and to counsel with such bodies for reasonable and effective legislation, standards, ratings, rules, and other matters pertaining to the use of ammonia as a refrigerant.'

AAR Way forward



Reach tier 2 and tier 3 cities and spread advantages of Ammonia

Technical committee working on Compressors Standards

More publications in field of Ammonia Refrigeration

Certified course for Operators and Technicians

Further development of our Web site

Have a Library of our own

Own Office in Pune

Visit www.ammoniaindia.org for membership fees and benefits

Appeal to members

How members can contribute in growth plan?

Volunteer work in various committees

Providing valuable suggestion

Using social media platform of AAR effectively.

Encourage membership

Technical Article in news letter

Be a part in reducing global energy consumption by participating in various AAR Activities.

Thank-you