

**M/S ARYA SEA FOODS PRIVATE LIMITED.
OCCUPATIONAL SAFETY AND HEALTH AUDIT 2020**

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PRIVATE LIMITED.
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AND HEALTH AUDIT 2020**

IS-14489

**Prepared by:
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OCCUPATIONAL SAFETY AND HEALTH AUDIT-2020

M/S ARYA SEA FOODS PRIVATE LIMITED

**RS NO: 417/3, 4, BudharayuduCheruvu Village,
Konithiwada- Panchayat,
VeeravasaramMandal, Pin: 534247
West Godavari District. A.P. India**

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FOREWORD

The company collects the Shrimp from approved prawn cultivated farmers, and processes the same material as customer requirements under the qualified and experienced Managers and Supervisors. The main processes are, Washing, thorough Cleaning, Deicing , Be-Heading, De- shelling, Cleaning and removing foreign materials and metals etc, Dressing, Freezing, Hardening, Measuring, Grading, Packing and stacking in cold storage before shipment. Ammonia is the cooling and chilling agent at various stages of machinery areas and Ice making. Many of the areas the product material are being handled by hand. The pre-processing and processing areas are at low temperature and the cold storage is at about -18 Deg. Centigrade. The ammonia is circulated in controlled manner by pipelines in the plant area for cooling and freezing in processes.

OCCUPATIONAL SAFETY AND HEALTH AUDIT is required in every major accidental hazardous industries, Under the Act and Rules of Manufacture, Storage, Handling and Import of Hazardous Chemicals Rules 1989-10

Years back the audit normally refers to checking of financial status of the company. Though the word 'Audit' has traditionally been associated with financial accounting procedures, since 80's it has come into common usage in India in the field of industrial safety, industrial health, and environmental health and so on. The term 'Safety Audit' is commonly found within the safety terminology.

It is now recognized that accidents arising from unsuspected risks can result not only in injuries to employees and damage to plant and machinery, but also can have far reaching effects on the commercial viability of a company. Almost always, as an aftermath of such accidents, resources of manpower and money are made available to determine causes and implement remedial action to prevent a recurrence. It may be pointed out here that if the same resources were utilized for the purpose of identifying the potential risks and eliminating them before incidents occur, reliability and profitability of the company would be increased. Everyone who is, in a way concerned with occupational safety and health would agree that it is essential to perform 'Safety Audits' of a workplace in order to detect any dangers which might be present there.

Safety Audits can be carried out for determining the overall status of safety, health, and environment of an organization. It can also be conducted for determining the performance of a specific activity, for example: Preventive Maintenance (engineering department), Laboratory Inspection and Testing (product quality), Environment Audit (gaseous, liquid, and solid), Energy Audit (electrical, fuel), Fire Safety Audit, Building Safety Audit, Hospital Safety Audit, etc.

OCCUPATIONAL SAFETY AND HEALTH AUDIT I.S 14489 is a systematic critical examination of an industrial operation in its entirety to identify potential hazards and levels of risk. In other words, it is a study aimed to detect any dangers which might be present in an industrial operation. It subjects each area of a company activity to a systematic critical examination with the object of minimizing loss. It aims to disclose the strengths and the weaknesses, the main areas of vulnerability or risk. It is a practical procedure whereby a workplace and the processes carried on therein are examined with a view to ascertain what hazard to health and safety may be in existence. It is a useful technique to test the effectiveness of a company's safety program. Hence, 'Safety Audit' is a form of risk analysis and evaluation in which a systematic investigation is carried out in order to determine the extent to which the conditions are present that provide for the development and implementation of an effective and efficient safety policy.

We must have a method, which will give a reasonable indication of how well a company's safety program is working, in all its aspects, i.e., how hazards are being recognized and controlled, how unsafe acts are being eliminated and how accidents are being avoided. It may be reminded here that injury frequency, cost of accidents, loss due to fire and explosions, number and types of injuries, etc. are not always related to the quality of an employer's safety effort. What is needed, therefore, is a method, which will give a reasonable indication of how well a company's safety program is working in all its aspects and how potential accidents are being avoided without using only failures as a yardstick.

Date:30-7-2020
Rajahmundry

B. Ranga Rao
Proactioneering Consultants-Safety

ABBREVIATION

APPCB	Andhra Pradesh Pollution Control Board
APEPDCL	Andhra Pradesh Electricity Power Distribution Company Limited
BOD	Biological Oxygen Demand
CCE	Chief Controller of Explosives
COD	Chemical Oxygen Demand
CPO	Crude Palm Oil
DCP	Dry Chemical Powder
DG	Diesel Generator
DM	De-mineralized water
EOT	Electrically operated overhead traveling crane
EPA	Environment Protection Act
FA	The Factories Act 1948
FBC	Fluidized Bed Combustion
FRP	Fiber Reinforced Plastic
HAZOP	Hazard And Operability Study
HIRA	Hazard Identification & Risk Assessment
HR	Human Resources

IE	Indian Electricity
IS	Indian Standard
ISO	International Organization for Standards
KL	Kilo Liters
KV	Kilo Volt
KVA	Kilo Volt Ampere
LP	Low Pressure
LPG	Liquefied Petroleum Gas
MAH	Major Accident Hazard
MP	Medium Pressure
MSDS	Material Safety Data Sheet
MSIHC	Manufacturing, Storage & Import of Hazardous Chemicals
NOC	No Objection Certificate
OHC	Occupational Health Centre
OH&S	Occupational Health & Safety
PCC	Power Control Centre
PESO	Petroleum & Explosive Safety Organization
PLC	Programmable Logic Controls

PPE	Personal Protective Equipment
PRV	Pressure Relief Valve
RO	Reverse Osmosis
RPO	Refined Palm Oil
SMPV	Static & Mobile Pressure Vessel Rules
ETP	Effluent Treatment Plant
TDS	Total Dissolved Solids
TAC	Tariff Advisory Committee
UPS	Uninterrupted Power Supply
VAM	Vapor Absorption Machine

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1. INTRODUCTION

M/SARYA SEA FOODS PRIVATE LIMITED is engaged in Processing and Distribution of Frozen Sea Food Products. The Plant is located in an area of 18,453 Sq. mtrs at Budharayudu Cheruvu Village, Veeravasaram Mandal, West Godavari Dist. about 18 km away from the town of Bhimavaram in the state of Andhra Pradesh.

The company deals in processing and export of Fish & fishery products to leading international markets and offering them both raw and cooked products in both conventional and value added forms. The Processing Plant of Arya Sea Foods Pvt. Ltd. is equipped with State-of-the-Art facilities that include IQF Freezer (Double Impeachment Technology), Contact Plate Freezers & Flake Ice machines.

The company is managed by a team of highly experienced professionals who hail from various disciplines like Sea Food Processing, Fisheries, Marketing & Finance. The processing of fish and fishery products are supervised by highly trained Approved Technologists backed by HACCP based quality management and well equipped Q.C. laboratory. Machinery and maintenance department have adequate facilities and trained manpower to avoid machinery break down through preventive maintenance.

The company collects the Shrimp from approved prawn cultivated farmers, and processes the same material as customer requirements under the qualified and experienced Managers and Supervisors. The main processes are, Washing, thorough Cleaning, Deicing, Be-Heading, De- shelling, Cleaning and removing foreign materials and metals etc, Dressing, Freezing, Hardening, Measuring, Grading, Packing and stacking in cold storage before shipment. Ammonia is the cooling and chilling agent at various stages of Machinery and Ice making. Many of the areas the material are being handled by hand. The pre-processing and processing areas are at low temperature and the cold storage is at about -18 Deg. Centigrade. The ammonia is circulated in controlled manner by pipelines in the plant area for cooling and freezing processes.

The Factory Manager Dr.YGK Murthy MBBS. CEO, and Ms Lakshmi Saroja – QA Manager are the main persons who have initiated necessary actions and provided all necessary information and facilities to carry out the Safety Audit.

The audit team from PROACT visited the ARYA SEA FOODS PRIVATE LIMITED and conducted a Systematic Examination of the Facilities, safe systems of Operation, Maintenance, Layouts and Records to study the suitability and appropriate developments for further improvement of the existing Safe work methods, recording and safety management system.

The Audit conducted based on the elements described in the code of practice IS 14489: 1998. The contents in this report are based on information and documents

provided by the company besides field observations and discussions, interviews made by the Audit team.

This report presents the findings and recommendations of the Safety Audit carried out following IS-14489 – 1998 at all sections of the factory. This Audit is intended to identify to the Management the standard of works performance required and the activities happening and to advise whether they have been correctly assessed and appropriate steps to be taken to prevent hazards and accidents. This Audit Aim is to promote contact with individual departments as manifestation of management's interest, awareness and concern to gain their involvement, to encourage suggestions relating to Safety and Occupational Health and entire co-operation.

PLANT FACILITIES

1. Material (Shrimp) receiving
2. Stores
3. Production Block
4. Office/ Admn. building
5. Fire water pump station and water tank.
6. Machinery room and Work shop area
7. Laboratory
8. Ware house
9. Effluent Treatment plant
10. Canteen
11. Security
12. Occupational Health Care Centre
13. Hostel for boys and girls
14. Generator room
15. Crèche

AUDIT REPORT DETAILS

Safety Auditor: Mr. B. Ranga Rao PROACTIONEERING CONSULTANTS-SAFETY

Audit coordination: Dr. Y.G.K Murty MBBS,- CEO

Site coordination: Mrs. B. Lakshmi

Plant visit: 14-7- 2020

Audit Meeting 14-7- 2020 Morning

Audit validity- One year

AUDIT SUMMERY

Plants visits: the auditor and the concerned staff have visited and studied the following plant areas.

1. GENERAL OBSERVATIONS ON PLANT SAFETY SYSTEMS:

1.0 In this factory Mr.Pilli Kranthi Kumar, appointed as Safety Officer on 8th Apr 2017.

1.1 OCCUPATIONAL SAFETY & HEALTH POLICY:

It has been observed that the company has Safety Policy declaring the commitment of the management towards safe systems and practices. This Safety Policy Statement is designed and defined with the systems, responsibilities, protection of people; safe practices etc. The company Chief Executive Officer signed the Environment, Health and Safety Policy.

The auditors suggested displaying the Safety Policy statement at conspicuous places. The publicity and understanding about Safety policy among the employees to be improved. The safety policy translated in local language.

A copy of safety policy is enclosed in ANNEXRE

1.2. OCCUPATIONAL SAFETY AND HEALTH ORGANIZATIONAL SET UP:

The company has appointed one Safety Officer. He is reporting to C.E.O. his qualifications and experience of safety officer are enclosed in the ANNEXURE.

1.3. EMPLOYEES PARTICIPATION IN OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT SAFETY COMMITTEE:

The companies have a safety committee to fulfill the statutory requirement and to meet regularly and periodically to discuss and follow-up and execute the safety systems and works. The committee will visit the notified areas once a month for the purpose of identification of unsafe conditions and practices. The findings will be discussed in the subsequent Safety Committee Meeting for necessary rectifications.

Constitution of Safety committee and minutes of meeting is enclosed in ANNEXURE

1.4 THE SAFETY BUDGET:

There is no separate budget allotment but no limits for safety expenses in the company, all required safety equipment and safety works done as when required.

1.5 SAFETY EDUCATION AND TRAINING:

The company is conducting in plant safety training programs and mock drills

The list of training programs /topics conducted and planned for next year is enclosed in the ANNEXURE

1.6. SAFETY INSPECTIONS:

Regular periodical safety inspections are recommended on plant housekeeping, Ammonia system sensors, firefighting equipment, First aid boxes, mechanical and electrical equipment, tools and tackles etc and records to be maintained. Follow-up system by safety committee is there. All the safety observations of all inspections are being attended

1.7. ACCIDENT REPORTING, INVESTIGATION AND ACCIDENTS ANALYSIS.

As the records suggested, till now no incident has occurred in this year since the plant in operation. It is suggested to display detailed accidents Statistics Board at main entrance of the plant. Total accident free man days achieved to be displayed in the statistics board. Near miss/ incidents/ accidents reporting system to be followed.

1.8. SAFETY COMMUNICATION/MOTIVATION/PROMOTION:

Plant communications are in different ways and effective by telephones, mobile phones and siren system.

To increase the effectiveness of Safety promotion a safety suggestion scheme is recommended.

This year March 4th safety day celebrations are conducted.

1.9. FIRST AID:

The company has first aid center with trained first aid persons for emergency medical treatment. First aid boxes are available at different areas of plant.

The Company CEO himself is a qualified Medical Doctor and always available for all medical services. The company has tie-up with the local medical hospitals for medical treatment of emergency and major /serious cases. The list of trained first-aider and Emergency Response Team Members list to be displayed at the factory entrance..

1.10. HOUSE KEEPING.

There is a system of regular removal of wastes from all the departments.

It has been observed that Housekeeping in the Machinery area needs improvement. The equipment and tools, can be well organized and kept everything in its proper place.

1.11. NOISE:

It its observed that there is not practice of monitoring noise levels at required areas. Daily check and same shall be displayed at such locations. Also hearing protection shall be provided for the employees working at noisy areas. Third party checks also to be maintained .

1.12. VENTILATION.

Natural ventilation in many areas of the factory buildings is satisfactory. However necessary illumination is provided in process hall and warehousing

1.13. ILLUMINATION.

Illumination arrangements are satisfactory.

1.14. HAZARD IDENTIFICATION AND CONTROL:

A hazard identification study has been conducted in the plant and implemented all required safety measures. All the fire hazards are identified and arranged fire extinguishers. Fire hydrant system is provided.

1.15. ENVIRONMENT MONITORING.

The recorded liquid effluents and ambient air quality readings of the different locations of the plant are available for verification.

1.16. SAFE OPERATING PROCEDURES:

As required by the operation systems all standard operating procedures are written. The Audit team observed and recommended that the safe operating procedures are to be reviewed periodically and these safe operating procedures should be explained to the workmen including the contractor personnel in a training program, for regular and shut down works etc.

1.17. WORK PERMIT SYSTEM:

The following work permits are there in the company:

1. Electrical Work permit
2. Hot work permit
3. Work permit for working at heights
4. Work permit for confined space
5. Work permit for clearing jams

The work permit system of electrical isolation and mechanical isolation is there in maintenance and shutdown jobs.

1.18. PTW SYSTEM TO BE IMPROVED.

The audit team suggested that permits to be filled the lock-out and tag-out system and gas test, oxygen test results in required works for further improvements of safety system.

The specimen copies of work permit is enclosed in ANNEXURE

1.19. WASTE DISPOSAL SYSTEM:

General Waste materials are being collected and dumping in a dump yard and disposing to the vender for further process.

The chemical wastes are being disposed to recognized vender.

- a) Waste oils are being disposed to the approved vender Siva Sai Petrochemicals recycler.
- b) The water from effluents after treatment being used for the company green belt.

1.20. PERSONAL PROTECTIVE EQUIPMENT:

Each individual department listing the required personal protective equipment and indenting/ procuring for their workmen and staff, this equipment are being maintained by the individual department and issue the equipment as and when required. The stores department procures the safety items and personal protective equipment in consultation with the safety department and individual department. Minimum stock of safety equipment is being maintained in stores. The safety department planning for procurement of personal protective equipment.

2. AUDIT RECOMMENDATIONS:

During this Audit the following points are observed and specific corrective actions recommended for further occupational safety and health improvement.

2,1 Safety Policy:

Management has a Safety policy displayed, the Safety statement given in both Telugu and English. Found major part of employees is from Orissa, hence recommended to include the Oriya language also in Safety policy for the majority employees to understand. Also it is recommended to make a practice that every employee is aware of Management's Safety policy

2,2 The metal structure of neutralized water tank is rusted and in damaged condition, Good housekeeping system and cleanliness in this area to be improved. The metal structure to repaired or removed before fell.

2.3 Chilling plant area:

Ammonia Leak Sensors are in place, suggested to check the condition of these monitors every day and keep the records of them.

2.4 Accident reporting:

Found there were no accidents / incidents occurred in plant, however it is recommended to implement Near Miss reporting system, encourage the employees with reward for reporting a valid near miss.

2.5 Health records:

Though health checkups are being conducted for the plant operating personnel, it is observed that occupational health hazards are not considered.

Recommended to conduct Audiometry and Vision tests on periodical basis.

2.6 Waste disposal:

Hazardous waste disposal being done through PCB identified vendor, the quantity of waste sent is recorded in the gate pass at security. Recommend to get the same acknowledged by the vendor that how much quantity is received by the vendor on record.

2.7 Machine guarding:

Recommended to improve the guarding for machinery to cover all sides properly

3. SCOPE AND OBJECTIVE OF AUDIT:

In compliance with the statutory requirements and to implement the effective Occupational Safety and Health Management system in ARYA SEA FOODS PRIVATE LIMITED, the management has assigned PROACTIONEERING CONSULTANTS-SAFETY (PROACT) to undertake the External Safety Audit for the year 2020 and in order to:

- A) To Identify the current status on Safety and Occupational Health.
- B) To. Prepare the status report and.
- C) To. Identify further improvement plans to bring the plant to the required expectation of the factory management.

In connection with this Audit, Proactioneering Consultants-Safety team visited the plant and studied the plant and plant facilities. This Safety Audit report has been prepared based on certain standard norms and procedures/ particularly code of practices for Safety Audit. IS-14489 – 1998. This Safety Audit report spells out recommendations, which M/S ARYA SEA FOODS PRIVATE LIMITED should use as a reference for developing their own policies and guidelines for continual improvement of safe operations of its facilities. Upgrading existing safety systems facilities to comply with these recommendations and also, they may make more stringent factory safety rules on the basis of their experience and of legal requirements in their area of operations.

4. ABOUT THE FACTORY AND PROCESS DESCRIPTION

Brief Description of the activity in the Plant:

M/s ARYA SEA FOODS PRIVATE LIMITED is located at Budharayudu Cheruvu Village, Veeravasaram Mandal, West Godavari Dist. about 18 km away from the town of Bhimavaram in the state of Andhra Pradesh.

The company deals in processing and export of Fish & fishery products to leading international markets and offering them raw products in both conventional and value added forms. The Processing Plant of Arya Sea Foods Pvt. Ltd. is equipped with State-of-the-Art facilities that include IQF Freezer (Double Impeachment Technology), Contact Plate Freezers & Flake Ice machines.

In order to meet the adequate tonnage with wide range of product mix, the Plant is equipped with two flake ice machines of a combined capacity of 15 MT/day to cater to Pre-processing and to Processing Sections separately. The Company owns a fleet of refrigerated and insulated vehicles to aid in the transportation of raw material from the purchase centres to the processing plant without any deterioration in the quality of the raw material. Chances of cross contamination have been totally eliminated by separate entries into Pre-processing & Processing Sections.

5. FACILITIES AND DEPARTMENTS:

The major sections, departments and facilities are:

1. Administration block
2. Process Blocks
3. Raw material storage and intake system
4. Waste material yard.
5. Chilling plant.
6. Water pump house
7. QA & QC- Laboratory
8. Finished product Stores facilities (cold storages)
9. Electrical Panel Board
10. Machinery room
11. Generator room
12. ETP
13. Canteen
14. Hostel for girls and boys
15. General store
16. Package material storage godown
17. R.O system for water purification
18. Occupational health centre
19. Crèche

6. The following **elements of OS&H systems** in the factory are checked during occupational safety and health Audit,

ELEMENTS OF SYSTEM CHECKED	REMARKS
1. Occupational Safety & Health Policy	Available
2. OS & H organizational setup	Available
3. Educational and Training	Available
4. Employees participation in OS & H Management	Safety committee in place.
5. Motivational and promotional measures for OS & H	Available
6. Safety manual and rules	Instructions available
7. Compliance with statutory requirements	Available
8. New equipment review / inspection	To be recorded
9. Accident reporting analysis investigation and implementation of recommendations	Near miss reporting to be implemented
10. Risk assessment including hazard identification	Available
11. Safety inspections	Internal to be practiced
12. Health & Safety improvement plan / targets	System to be initiated
13. First aid facilities – occupational health center	F.A. Available
14. Personal protective equipment	Available
15. Good housekeeping	Being maintained
16. Machine and general area guarding	Available
17. Material handling equipment	Being maintained
18. Electrical and personal safeguarding	Being maintained
19. Ventilation, illumination and noise	Being maintained
20. Work environment monitoring system	To be recorded
21. Prevention of occupational diseases including periodic medical examination	Reports Available, suggested improvement
22. Safe operating procedures	Safety instructions in place
23. Work permit systems	System in place.
24. Fire prevention, protection and fighting systems	Available
25. Emergency preparedness plans (on-site)	Available
26. Process plant modification procedure	It is there
27. Transportation of hazardous substances	Being followed
28. Hazardous waste treatment and disposal	Being followed
29. Safety in storage and warehousing	Being followed
30. Contractor safety systems	Management is responsible
31. Safety for customers (including material safety data sheets)	MSDS Available

7. The following **Records are examined** during OS&H Audit.

RECORDS EXAMINED	REMARKS
1. OS & H policy	Examined
2. Safety organization chart	Examined
3. Training Records on Safety Fire and First aid	Examined
4. Record of plant Safety Inspections	Examined
5. Accident investigation reports	Examined
6. Accidents and dangerous occurrences – statistics and analysis	Examined
7. Record of tests and examinations of equipment and structures as per statutes	Examined
8. Safe operating procedures for various operations	Examined
9. Record of work permits Record of monitoring of flammable and explosive substances at work place	Examined
	Examined
10. Maintenance and testing records of fire detection and firefighting equipment	Examined
11. Medical records of employees.	Examined
12. Records for industrial hygiene surveys (noise, ventilation, and levels, illumination levels, air borne and toxic substances, explosive gases)	Examined
13. Material safety data sheets	Examined
14. On-site emergency plans and record of mock drills	Examined
15. Records of waste disposal	Examined
16. Records of effluent discharges to the environment	Examined
17. Housekeeping inspection records	Examined
18. Minutes of Safety committee meetings	Examined
19. Approval of layouts and other approval from statutory authorities	Examined
20. Records of any modifications carried out in plant or Process	Examined
21. Maintenance procedures records	Examined
22. Calibration and testing records	Examined
23. Shut down maintenance procedures	Examined
24. In service inspection manuals, records including that of material handling	Examined
25. Safety budget	No budget
26. Inspection books and other statutory records	Examined
27. Records of previous audits	First time being audited
28. Safety in transportation of hazardous substances	Examined

8. SYSTEMATIC OBJECTIVE & DOCUMENTED EVALUATION OF CCUPATIONAL SAFETY AND HEALTH SYSTEM & PROCESS

SAFETY AUDIT POINTS	STATUS.
Health and Safety Policy	
1. Does the organization has a health and safety policy? (If yes, please attach one copy)	Yes, it is in place
2. Do you have any corporate safety policy? (If yes, please attach one copy)	Not applicable
3. Who has signed the health safety policy? (indicate his position)	To be Signed by the Occupier
4. Whether it is prepared as per guidelines of the statutory provisions?	Followed
5. When was the safety policy declared and adopted?	Date of the Safety policy declared to be mentioned.
6. How many times it has been updated till now?	No date is mentioned. To be Revised periodically
7. Whether the policy is made know to all?	Familiarity to be improved among the employees.
8. Whether the safety policy was scrutinized by outside expert agency?	No.
9. What was the last date of updation?	Dated 29-07-2013
10. Does it find a place in the annual report?	No
Safety & Health Organization	
A) Safety Department	
11. Does the factory has a safety department?	Yes
12. If yes, furnish the following information:	

i) Head of the safety department:	
a) Name	Mr. Kranti Kumar
b) Designation	Safety Officer
c) Qualification	B E Computer Science, Dip- fire and safety- his candidature to be approved by the Director of Factories, Govt. of A.P.
d) Experience	3 years
e) Status	Supervisor
ii) Strength of the safety department including safety officers and staff	Total twelve staff members in safety 4 and 8 in ETP department
13. Does the head of safety department/safety officer report to the Chief Executive?	He is reporting to the plant head.
14. How often are the safety officers retrained in the latest techniques of total safety management? What is the frequency of retraining?	Attended seminars at local association.
15. What additional duties the safety officer is required to do?	No other duty than EHS related job.
16. What is the power of safety officer vis-a-vis unsafe condition or unsafe act?	He can Interrupt unsafe activities of any job performance or unsafe conditions in the factory.
B) Safety Committee(s)	
17. Does the factory has a safety committee(s)? Give details of their types, structures and terms of reference.	Safety Committee is existing.
18. Is the tenure of the safety committee(s) as per the statute?	Two years
19. How are the members of safety	The members are nominated from

committee(s) selected? (elected/nominated)	different departments.
20. How often are the meetings of safety committee(s) held?	Once in three months
21. What are the subjects? Are the problems discussed in the meetings? (Attach a copy of agenda and minutes of the last meeting)	They discuss the occupational safety and health related matters as an agenda. The specimen Copy is attached in Annexure
22. How are the recommendations of the committee(s) implemented?	Discussed in daily production meetings and in the Safety Committee Meetings to implement the committee recommendations.
23. Are the minutes of the safety committee(s) meetings circulated among the members?	Yes they are circulated among the members.
24. Are the minutes forwarded to the trade union(s) and chief executive and occupier?	No trade union
25. How the management and trade union play their active roles in supporting and accepting the committee(s) recommendations?	No trade union
26. How are the safety committee(s) members apprised of the latest developments in safety, health and environment?	The safety officer discuss the safety related matters and latest developments in safety committee meetings.
C) Safety Budget	
27. What is the annual safety budget?	No budget system for safety in the organization but as and when required the safety items, equipment and medicine etc. are procured no limitations for safety expenses.
28. How much percentage is this budget of the total turnover of the FACTORY.	As above explained.
29. How much budget has utilized till	As above explained

date?	
30. Is the safety budget adequate?	As above explained
31. How is the safety budget arrived at?	As above explained
32. What is the pattern of expenditure for the last five years?	As above explained
33. What are the approved sanctions for the expenditure in this budget?	As above explained
34. Does this budget get reflected in the annual report of the FACTORY?	As above explained
ACCIDENT REPORTING, INVESTIGATION AND ANALYSIS	
35. Whether the accident data for the last three years for reportable and non-reportable accident available?	No reportable accidents are there but first aid cases are getting treated by a qualified health attendant and company first-aiders.
35. Is there any system of classifying and analyzing the near-miss incidents and accidents? Give the details?	Advised to record all the accidents / incidents including first aid cases.
36. Is there any system of classifying and analyzing the near miss incidents and accidents? Give the details?	No Near miss reports. Advised to encourage and record near miss reports.
37. Are all near-miss incidents and accidents reported and investigated?	As above explained
38. For how many years are the investigation reports retained?	As above explained
39. By whom the accident statistics and data are maintained?	As above explained
40. How is the top management apprised of these data?	As above explained
41. Is the accident statistics effectively utilized? If yes, how?	As above explained

42. What nature of injuries occurred during the last three years?	As above explained
43. How do you ensure implementation of the recommendations to avoid the recurrence of the incidents and accidents?	As above explained
SAFETY INSPECTIONS	
44. What type of safety inspections are carried out and what are their frequency?	Statutory Inspections of equipment, fire extinguishers, earth pits calibrations are there. Advised to have internal safety inspections for such as Good housekeeping, PPE, Electrical tools, Hand Tools periodically.
45. Is there any system of internal inspection?	Inspections are done with check lists.
46. Who does the inspections?	The concern department Supervisor.
47. Are the check-list prepared for these inspections? (Specify item-wise, for example, house keeping, fire protection, etc.)	Yes but to be included for all systems.
48. To whom the recommendations are submitted?	System to be developed to report to the C.E.O.
SAFETY EDUCATION AND TRAINING	
A) Training	.
49. Is there any training department?	No safety training department.
50. Is there any programme of induction training?	Basic safety induction training to be conducted for the new employees and the same to be recorded.
51. Mention the duration of induction training for each category of employees.	To be mentioned in records.
52. Whether the assessment of the trainee worker is done or not?	Assessment and feedback system to be followed.
53. What infrastructural facilities with	Audio and video facilities are to be

audiovisual support are available for training?	available in the training hall to conduct safety trainings.
54. Do the programs cover the plant safety rules, hazard communication and any other special safety rules or procedures unique to the plant or specific departments?	Suggested to make a practice to conduct training to all employees.
55. Whether the trainings are conducted in the local language?	Yes they conduct in Telugu language. But the understandable language to be taught.
56. Whether visits to safety institutions/organizations are arranged?	No Visits
B) Periodic Training/Retraining	Most of the staff are experienced and exposed to the same field for many years. But Recommended for periodical safety training for refreshing the safety knowledge by external faculty.
57. Are all the employees trained and what is the frequency of such training?	Internal Safety trainings to be conducted by the department. No training schedule.
58. Do the training programmes cover safety and health aspects and if so how much (in terms of number of sessions/hours)?	Health matters to be conducted in the trainings to cover among all employees in the plant.
59. Do the trained supervisors train their own employees in safety and health aspects?	The trained supervisors to conduct trainings for their subordinates in the plant.
60. Is the retraining performed whenever new hazards/process changes are followed/introduced?	Whenever change of process and on new hazards the concerned to be trained on particular aspects.
61. How are the senior management personnel trained in safety and health?	All senior management staff to be trained in safety and health.
62. How many employees have been trained in safety and health in the last five years? Give break up with details.	Five members trained in First Aid.

63. How many man-days/hours are used in training the employees?	Total man days/ hours used for safety training to be made available for reference.
64. How do you ensure that the training is put to use by the employees trained in safety and health?	The trained employees to be observed by the concerned supervisors to follow the safety and health matters which they learnt in training sessions.
65. What is the training plan for the next two years? Give details.	No training schedule
66. What documentation system has been established regarding safety and health training?	Training documents to be maintained.
c) Safety Communication/Motivation/Promotion	By posters and Safety Slogan/ sign boards are in place. The specimen copies re enclosed.
67. Does the factory has safety suggestion schemes? Give details.	The safety suggestion scheme to be introduced
68. Does your factory participate in National Awards/ Suggestion schemes?	Not participated for safety awards.
69. Has your factory been awarded during last five years?	Not contested for.
70. Are safety contests organized in the factory? Give details.	Suggested to have Safety Contests system to improve interest and knowledge on occupational safety and health.
71. What are the publications of your organization? Do they include information on safety and health subjects?	Publications to be organized to promote safety awareness among the factory employees.
72. Is the literature on safety and health made available to the employees?	Safety literature is available.
73. How is the safety and health publicized in your factory?	
i) Bulletin boards?	Instruction boards and posters are there.

ii) Post serious accidents?	not available
iii) News letter?	not available
iv) Others? Specify	not available
74. Does the organization celebrate safety day/week or organize safety exhibition?	It is suggested that to make a practice of celebrating NATIONAL SAFETY DAY EVERY YEAR ON 4 TH MARCH.
75. When was the last safety day/week celebrated?	As above explained
FIRST AID	
76. Are adequate number of first aid boxes provided? Give location details?	First aid boxes are available. Antidotes and emergency medicine are kept ready for use.
77. Is there any first aid/ambulance room?	Occupational Health Center is provided.
78. Are qualified/trained first aid's available in each shift?	First aider available
79. How many qualified/trained first aide's are available at each plant/department?	Five persons are available.
80. How many persons are trained/given refreshers training in first aid in a year?	First aid training on 30 th July 2017
OCCUPATIONAL HEALTH CENTRE	
81. Whether occupational safety and health center is provided or not?	Centre is provided.
82. Does it confirm to the provisions of the existing location?	Yes provided.
83. Are the Medical Attendants/Doctors available in each shift?	CEO himself a Medical Doctor and Available all the time for medical treatment, first aiders are available.
84. Is ambulance van available in each shift?	No. Ambulance van is available but emergency vehicle is available.
85. Any liaison with the nearest hospital(s)? Give details.	Yes liaison with a hospital is there.

GENERAL WORKING CONDITION	
A) House Keeping	Satisfactory
86. Are all the passages, floors and the stairways in good condition?	Yes.
87. Do you have the system to deal with the spillage?	Spill control system by experience with readily available spill control tools and equipment.
88. Do you have sufficient disposable bins clearly marked and whether these are suitably located?	Yes disposable bins are Available.
89. Are drip trays positioned wherever necessary?	Not applicable. No drip tray system in the factory.
90. Do you have adequate localized extraction and scrubbing facilities for dust, fumes and gases? Please specify.	Ambient air quality is conducted at different places. The report is enclosed.
91. Whether walkways are clearly marked and free from obstruction?	Walk ways are marked.
92. Do you have any inter-departmental competition for good housekeeping?	Not introduced.
93. Has your organization elaborated good housekeeping practices and standards and made them known to the employees?	Good housekeeping topics can be included in their day to day safety speeches.
94. Are there any working conditions which make the floors slippery? If so, what measures are taken to make them safe?	All the floors are kept clean in regular intervals.
95. Does the Factory have adequate measures to suppress polluting dust arising out from road transport?	No dust in the plant from road transport
B. Noise	
96. Are there any machines/processes	D.G. sets are there in electrical

generating noise? Specify.	section.
97. Was any noise study conducted?	Noise levels measured at different locations, the report is enclosed.
98. Which are the areas having high-level noise?	Noise levels to be measured at D.G. set area.
99. Have engineering and administrative controls been implemented to reduce noise exposure below the permissible limits?	D.G sets are kept in closed room.
100. Is there a system of subjecting all those employees to periodic audiometric test who work in high level noise areas?	Medical tests are being conducted. specimen copy of employees are enclosed
101. Whether the workers are made aware of the ill-effects of high noise?	To be Conducted training on effect of noise.
102. Whether any personal protective equipment along with ear muffs/plugs are provided and used.	They are provided but usage to be improved among the working personnel.
C) Ventilation	
103. Whether natural ventilation is adequate or not?	Adequate openings are there.
104. Whether dust/fumes/hot air is generated in the process? Give details.	No fumes and hot air
105. Is there any exhaust dilution ventilation system in any section of the plant?	Air changes are in place
106. Whether any ventilation study has been carried out in the section(s) to check the record?	Third party checking is done.
107. Are periodic/preventive maintenance of ventilation system carried out and record is maintained?	Checking is going on.
108. Does any ventilation system re-	Not Applicable

circulate the exhausted air in work areas?	
109. Is the work environment assessed and monitored?	Environment checks are done.
110. Whether personal protective equipment are given to workers exposed to dust/fumes and gases? Give details.	All required types of PPE are being used in the plant.
111. Was any study carried out for the assessment of illumination level?	Illumination (lux) measures are conducted.
112. Is there any system of periodical cleaning and replacing the lighting fittings/lamps in order to ensure that they give the intended illumination levels?	Yes periodically cleaning.
113. Are the workers subject to periodic optometry tests and records maintained? Give details.	Periodic medical checks done.
114. Are all the hazardous areas identified?	Hazardous areas such as ammonia areas and fire hazard areas are identified. .
115. What are the types of hazards (physical-noise, heat, etc. and chemical-fire, explosion, toxic release, etc.)?	All hazards are addressed.
116. What steps have been taken to prevent these hazards? Give details?	Specific instructions, signage boards, PPE's , Safety talks.
117. Are there any safety interlocks, alarms and trip system? Give details.	Shrimp cleaning, be-heading, freezing, packing and keeping in cold storage is the process. No interlocks are required. Bu in ammonia processes all controls and sensors are placed.
118. Are these tested periodically? How often? Please specify	Ammonia system checking is there.
119. Are there any ambient monitoring devices with alarms for leakage of hazardous materials? Give details.	Continuous monitoring at ammonia system is there in the plant.
120. Are safety audit or HAZOP or any other studies carried out and the	HAZOP not studied.

recommendations implemented? Give details.	
121. What has been the major modification done in plant/ process and has the approval of the competent authority concerned?	Major modification are part of plant expansion modifications are done. Approvals are obtained from the authorities.
122. What decision and monitoring equipment are available and used for checking the environmental conditions in and around the plant? Give details	Ammonia leak monitoring equipment are there.
TECHNICAL ASPECT	
Safe Operating Procedures	
123. Are written safe operating procedures available for all operations?	Some instructions are displayed.
124. Whether the written safe operating procedures displayed or made available and explained in the local language to the workers?	Work spot instructions boards are there
125. Whether the safe operating procedures are prepared jointly by the plant and safety departments?	Standard operating procedures are there, advised to prepare safe operating procedures.
126. What system is used to ensure that the existing safe operating procedures are updated? Give details.	Periodical review and updating required.
127. Have the workers been informed of the consequences of failure to observe the safe operating procedures?	Instructions are there.
128. Are contractor workers educated and trained to observe safety at workplace?	The contractor workers are to be covered in Safety training .
129. Whether contractor's workers are permitted on process/ operations? Give details.	Contract workers, but they assist the process staff.
WORK PERMIT SYSTEM	
130. What necessary type of work	Work permit system is there in the

permits exists in your factory? Give details.	plant.
131. What are the hazardous chemicals handled?	Shrimp manufacturing process.
132. Are the keys kept for individual locks which are used for electrical lock outs with the supervisor concerned?	Tag out and lockout system to be followed without fail..
133. Is identification done for various types of wastes? Give details.	Identification of Various types of waste is done.
134. Are these quantities less than those specified by the hazardous wastes. (Management & Handling Rules, 1989)?	Yes, it will be complied with consent
WASTE DISPOSAL SYSTEM	
135. What are their disposal modes?	The hazardous waste being disposed to the recognized and licensed vender.
136. What are the systems/measures adopted for controlling air/water/land pollution?	ETP in operation. No effluents are discharged from the process. Domestic water of the plant is analyzed. The report is enclosed.
137. What is the system of effluent treatment plant and whether it is approved by the competent authority?	Aerobic and anaerobic both systems are in place'
138. How are the treated effluent used?	Used for green belt
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
139. Has a list of required PPE for each area/operation been developed and the required PPE is made available to the workers?	Yes. Helmets, Safety Shoes, Goggles, Hand gloves, Nose masks and six SCBA sets..
140. Are the safety department and the workers consulted in the selection of PPE?	As they required the equipment are purchased.
141. Have the workers been trained in proper use of PPE?	In induction training these points are to be discussed.
142. What is the system of replacement/issue of PPE?	Periodical issues and need based issues.

143. What are the arrangements for safe custody and storage of PPE provided to the workers?	Lockers provided.
144. Are the contractor's workers provided with the required PPE? Who is responsible? Give details.	Management is responsible for all permanent and contract employees PPE. Management provides.
145. Are the PPE conform to any standard? Give details.	IS standard.
146. Give the details of PPE and also specify the responsibility for their inspection and maintenance?	Individual are responsible for inspection of PPE.
FIRE PROTECTION	
147. Indicate on a plant layout the location, number (Quantity) and types of portable fire extinguishers available?	ABC- 44, Co2-6 type extinguishers, total 50 Nos. are in place in total area. The list is enclosed in the ANNEXURE.
148. Are the fire fighting system and equipment approved, tested and maintained as per relevant standard?	Fire extinguishers are procured from standard manufacturer and Inspections conducted.
149. What is the inspection and maintenance schedule of the above extinguishers? Who performs these functions?	Internal inspections are available.
150. Which areas of the plant are covered by fire hydrants? Indicate the locations of the hydrant points and how the required pressure maintained in the system and ensured.	All areas of the plant are covered. Total 10 Nos are there. List is enclosed.
151. What is the capacity of dedicated water reservoir for supply to the hydrants? What is the source of water?	Fire water tank Capacity - 1,00,000 Litres Jockey pump-7.5 KW Main Pump - 30 KW Line Pressure- 7KG/cm2 ,
152. a) How is the power supply to the fire hydrant pump ensured?	Alternative D G power
b) What is the alternate source of supply in case of power failure? Give details.	D.G. sets are available

153. Are all personnel conversant with the fire prevention and protection measures? Give details	Some departments personnel are Trained in fire prevention and fighting.
154. What percentage of plant personnel and staff and officers, have been trained in the use of portable fire extinguishers? Give details.	Suggested to train all employees in fire fighting and use of fire extinguisher.
155. Do you have fixed or automatic fire fighting installation(s) in any section of your plant?	No automatic firefighting extinguishers are in the plant.
156. Are the fire alarms adequate and free from obstruction?	5 Nos MCP are there and no obstructions.
157. Do you have fire department? If yes, give details.	No separate department.
158. What is the system for conducting mock drills? Give details.	The mock drills to be practiced.
159. Do you have any mutual aid scheme with any of your neighboring industry or any local organization(s)?	Mutual aid scheme to be developed.
160. Give details of the existing fire resistant walls and doors.	No fire resistant doors.
161. Do you have any system of color coding for all the pipe lines for hazardous chemical? Give detail including marking of flow directions.	Yes color coding system is followed.
162. Are there any safe containers for the movement of small quantities of hazardous chemicals? Give details.	Cleaning Chemical are kept in containers.
163. Are all self-closing fire doors in good condition and free from obstructions?	No self closing Fire doors in the plant as they are not required
164. How many major and minor incidents/fires were there in the factory during the last five years? Give department/ plant wise.	No incidents.

165. Have all the fires/incidents been investigated and corrective actions taken? Give break up.	Not Applicable
EMERGENCY PREPAREDNESS	
166. Is there on-site emergency plan for your factory? (attach a copy of the plan)	On site Emergency plan is available in site.
167. What is the frequency of conducting mock drills of on- site emergency plan?	Presently Once in three months.
168. What are the number and location of emergency control centre, assembly points?	2. Nos. of Assembly points 1. Security, 2. near ETP-1,
169. Whether emergency team or the key personnel identified?	Yes. Identified.
170. Are suitable and adequate protective and rescue equipment available? How is the emergency rescue team trained to use these equipment?	They practice in Mock drills.
171. How is the emergency communication with local bodies and other organizations ensured? Give details.	As detailed in the emergency management plan.
172. Is any alternate power source identified? Give details.	D G power is available.
173. What is the medical emergency response system? Give details.	As detailed in the emergency plan..
174. Are your a member of any MUTUAL-AID-SCHEME of your area? If so give	The scheme to be implemented.

details?	
175. How many emergency alarm system(s) is/are available? Give details.	Siren system and one Hand mike for organizing emergency in the plant available.
PLANT LAYOUT AND AREA CLASSIFICATION	
176. What is the system of classification of hazardous zones in the plant for electrical installations? Please specify?	No specific Hazardous zone classification is done. All ammonia process blocks are hazardous areas.
177. Whether periodic inspection and preventive maintenance of electrical installations is done by a qualified person and record is maintained?	Internal Inspections records are maintained.
178. Whether plant layout with area classification has been displayed at appropriate place(s)?	To be implemented.
STATIC ELECTRICITY	
179. Whether the process(s) and equipment generate and accumulate static charge have been identified? Give details.	The pipeline flange joints are to be provided with bonding connectivity. Advised to provide double strip connectivity.
180. Whether all such equipment are properly bonded and earthed?	All electrical equipment earthed.
181. How is electrical resistance for earthing circuits maintained? Are periodic inspections done and recorded?	Records are enclosed.
182. Are adequate earthing arrangements made at the terminal points where hazardous chemicals are handled through pipes?	Earthing provided and inspected.
183. Are anti-static charge devices fitted wherever necessary?	The devices are provided
184. Whether these devices are periodically checked and maintained by a qualified person?	Periodical tests conducted
PRESSURE VESSELS (FIRED AND UNFIRED)	

185. Give details of the plants, piping and vessels which are operated at a pressure greater than the atmospheric pressure.	No Fired boilers in the plant. The other unfired pressure vessels are there in the plant.
186. How it ensured that the working pressure inside the pressure vessels/pressure plants will not exceed their maximum working pressure for which it is designed?	Pressure gauges and overpressure safety relief valves are placed with pressure vessels.
187. What means of isolating the pressure vessels or means to prevent rise in pressure are installed?	Overpressures are controlled by continuous monitoring and auto pressure relief valves.
188. What standards/codes of practice are adopted for design, fabrication, operation and maintenance of the pressure vessels and records maintained?	The pressure vessels are of standard companies.
189. How are the pressure vessels tested? Give details.	Hydrostatic tests and Ultrasonic thickness tests conducted.
190. Is there any competent person for testing these pressure vessels? Give details	As statutory requirements hydrostatic tests are conducted.
191. How are the recorded results verified?	Test certificates are enclosed.
192. Give details of safety devices available for these pressure vessels?	Pressure relief valves, pressure gauges and blow off valves are in place
193. Whether log book for pressure vessel and pressure plant has been maintained?	Maintenance records being maintained
NEW EQUIPMENT REVIEW	
194. What is the system for effecting any change in the existing plant, equipment or process? Whether it is approved by the appropriate competent authority?	Discussions and approval system is in place
195. Whether the P & I diagrams and other related documents are updated	Not applicable

accordingly?	
LIFTING MACHINES & TACKLE	
196. Whether all the lifting machines are marked with their S.W.L?	No hoist is available it has to be tested and certified.
197. Are all the examinations and tests documented in the prescribed form?	To be followed
198. Are all the examinations and tests carried out and certified by competent person(s)? Give details.	Tests conducted by a competent person.
199. Are adequate lifting tackles provided at all the places where it is required? Give details.	As above explained.
200. Are the trained operators engaged for operating the equipment? Give details.	Operating by experienced persons.
201. What is the system of training such operators?	Safety Trainings.
202. Are all the lifting machines and tackles maintained in good conditions and record maintained?	As above explained
MOBILE EQUIPMENT AND VEHICULAR TRAFFIC	
203. Are all the mobile equipment in good condition?	No mobile equipment are used in the plant.
204. Are trained drivers engaged for fork-lift trucks?	As above explained
205. What is the system for identifying the drivers from other drivers?	As above explained
206. What system do you adopt to assess their standard of driving as poor/fair/satisfactory/good?	As above explained
207. Are there adequate number of warning signs/signals?	As above explained
208. Are the hazards associated with	As above explained

transportation within the plant identified and safety measure taken? Give details.	
ACCESS	
209. Is adequate safe access provided to all places where workers need to work?	Yes, all work places have easy access.
210. Are all such access in good condition?	They are in satisfactory condition.
211. Are portable access platforms necessary? If yes:	No portable access platforms are there in the plant.
a) Are these sufficient?	
b) are these regularly inspected?	No inspection records available.
c) are these readily available?	To be inspected.
d) are these provided with toe-boards and railings?	Yes
212. Oiling and greasing points:	
a) are these located and extended to safe place clear of moving parts?	Oiling and greasing done by maintenance staff at the time of machinery maintenance
b) are these easily accessible?	During maintenance
c) are these liable to drip into walkways?	No drip system
d) whether such workers were trained and whether they are provided with fit-tight clothing and register is maintained?	Practicing by experience.
213. Are all drain covers in good condition and fitting flush?	Covers are provided.
MATERIAL HANDLING	
214. Are there adequate storage facilities available?	Available
215. Are these areas clearly defined?	Yes
216. Are all racks and steel ages in good	Periodical tests to be conducted.

condition?	
217. Have you adequate equipment for handling materials?	Yes
218. Do the workers know the hazards associated with manual material handling?	To be trained periodically in manual material handling.
219. Where manual handling is necessary, are the workers been trained?	To be trained periodically in manual material handling.
220. Do they practice this?	Yes practicing
221. Do workers follow safe procedures for storage of materials?	Yes being followed
222. Whether contractor workers are trained in safety?	All are trained in safety.
223. What is the system for handing over plant to the maintenance department and receiving back?	Permit to work system implemented.
224. Is the system consistently applied?	Applied.
225. What is the system for the preventive and predictive maintenance and how do you ensure its effectiveness? Give details.	Preventive maintenance being followed..
226. Whether it is pressure vessel or not	Storage vessels are not pressure vessels but have static head and vapor pressure relief valves.
227. Give storage vessels designation (exceeding threshold quantities specified in MSIHC, Rules 1989)	No storage tanks.
228. Give the names of storage materials in each of them.	Raw material, final products are Shrimp.
229. What are the vessel sizes (capacity tonnes)?	Ammonia receivers of 1000 liters capacity each three Nos.
230. What is the material of construction for each vessel and what standards	M.S make receivers

followed in designing/fabricating the vessel?	
231. What are the operating pressure and temperature?	Atmospheric pressure and temperature for storage vessels.
232. What are the vessels location? (Please indicate on-site plan or plot plan)	Site plan with location markings is in place.
233. Indicate whether vessels are above ground/underground	Above ground
234. If any of the tanks storing flammable material, whether electrical installations are flameproof or not?	Not applicable.
235. Are these storage vessels bunded/diked?	Not applicable
236. If yes, what is the capacity of the bunds/dikes?	Not applicable
237. Are the vessels properly bonded and earthed and whether periodically checked and record maintained?	Yes
238. How are vessels isolated in the event of a mishap?	By isolation valves
239. Are the vessels fitted with remotely controlled isolation valves?	No. remote control available.
240. Are vessels provided with emergency vent, relief valve, bursting disc, level indicator, pressure gauge, overflow line?	Provided with relief valves
241. Where do such vents discharge?	At safe place
242. Are the vessels provided with alarms for high level, high temperature and high pressure?	Not applicable
243. Are stand by empty tanks provided for emptying in case of emergencies?	Stand by vessel is there.
244. What are the provisions made for fire fighting/tackling emergency situations	Installed fire extinguishers and hydrant system and water curtain.

around the storage vessels?	
245. Has any consequence analysis been carried out for these vessels? (If yes, give details)	Safety study has been done.
246. What periodical testing are carried out on the vessels to find out the integrity of the vessels?	Thickness tests have been carried out.
247. Whether these tests are certified by the approved competent persons?	Yes
248. Whether log sheets are filled up on daily basis for recording the parameters of these vessels?	Log books of Ammonia vessels are maintained.
ON-SITE GAS CYLINDERS STORAGE AREA	
249. What are the various gas cylinders used in the plant? (give details)	Not applicable
250. What are the storage facilities?	Not applicable
251. What are the measures taken for combating any emergency in the cylinders storage area?	Not applicable
252. Are valid licenses available for storing all these cylinders?	Not applicable
253. Whether integrity test certificates are obtained from the suppliers of the cylinders?	Not applicable
COMMUNICATION SYSTEM ADOPTED IN PLANT	
254. Are public address system available in all plant areas?	Land line phones are available and hand operated public addressing system is available..
255. Are public systems provided with uninterrupted power supply?	Hand operated public addressing system is available
256. Whether public address system is checked periodically for its proper	As part of maintenance

functioning?	
257. Is there any hot line provided to fire station?	No. hot line is provided.
258. What is the means of communicating emergency in the plants?	Mobile/ Tele phones and hand operated public addressing system is available
TRANSPORTATION	
259. What potentially hazardous materials are transported to or from the site (including wastes)?	Not applicable
260. What modes of transport are used:	By road trucks.
a) Road?	For raw materials and other end products
b) Rail?	No
c) Pipelines?	No
261. Does the FACTORY employ licensed vehicle of its own/ outside sources?	Own vehicles
262. Are the loading/unloading procedures on-site and safety precautions displayed?	Hazardous job. Followed work permit system.
263. Are loaded tankers or trucks parked in a specific area on-site?	Not applicable
264. Do all truck and tanker drivers carry TREM card or instruction booklet?	Not applicable
265. Do all truck and tanker drivers get training in handling emergencies during transport?	Not applicable
RAIL	
266. What hazardous materials are transported by rail?	Not applicable

267. Does the FACTORY have a direct siding on site?	Not applicable
268. Are tankers or others wagons used in transportation?	Not applicable
PIPELINES	
269. What materials are transported to and from the site by pipeline?	Nil
270. Are the pipelines underground or over ground?	Not Applicable
271. Are corrosion protection measures employed in pipelines?	Not applicable
272. Whether intermediate booster pumps are used?	Not applicable
273. What is the maximum, minimum and average transfer rates?	Not Applicable
274. Are the pipelines extended in the public domain?	No
275. Are the pipelines dedicated for each type of chemicals?	Not applicable
276. Are the pipelines fitted with safety equipment such as leak detectors, automatic shut-off valves, etc.?	Not applicable
277. What is the frequency and method of testing of the pipeline?	Not applicable
278. Is there written procedure for tackling leakages in pipeline?	Not applicable

10. ACKNOWLEDGEMENT

We acknowledge our heart full thanks to the management for this opportunity and to ARYA SEA FOODS PRIVATE LIMITED team for their cooperation and coordination in the aspect of plant safety study.

DISCLAIMER

Proactioneering Consultants-Safety is a service providing company, providing Safety services and industrial services such as Statutory Inspections and certification, Safety Audits, Emergency Management, Emergency Response plans, Hazard Analysis and Risk Assessment, Hazard Operability Study, Safety Survey and Safety Trainings etc.

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For Proactioneering Consultants-Safety

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