

ACKNOWLEDGEMENTS

Thanks to the management of Corminter International Limited, headed by Mr. Rouse, in general, Particularly, Shri. R. Ramesh Babu, General Manager and Safety Manager for placing the trust and confidence in the professional competence of the Safety Line. Also, Shree A. Sri. B. Vaidyanathan, Senior Manager, E. Head HRD who has directed the assignment and provided me for successful completion of the safety audit conducted by Safety Line.

For fruitful, constructive and professional and co-operation rendered to the management and making the assignment easy going. I've paid an due regard the possible amount of interest of Corminter (P) Ltd. Personnel for their support and assistance extended to us in the process of conducting this safety audit and information leading to carrying the audit successfully.

For the excellent cooperation and placing by Shri. R. Ramesh Babu, General Manager & Head HRD with the help of department heads conducted and supported to complete the audit within the stipulated time.

The courtesy and friendly treatment is due to extend by Corminter International Limited and management a positive atmosphere.


Ramesh Babu General



भारत सरकार - Government of India

विश्वविद्यालय शिक्षण विभाग

Department of Education, Government of India

विश्वविद्यालय शिक्षण विभाग द्वारा जारी यह प्रमाणपत्र का प्रमाणपत्र है।

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प्रमाणपत्र

CERTIFICATE

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1.0 INTRODUCTION

The Management of Cormorant International Limited - Petition Division, Brown have requested Safety Line to conduct a Safety Audit at its unit at Brown. The same was taken up on 23rd November 2023. The following Audit Team were comprising the Safety Line.

1. Mr. S.Benjamin (SQF&L) Approved Auditor
2. Mr. S.P.Krishnakumar, Senior Auditor and Fellow with IFSA Register
3. Mr. K. Ebenezer, Auditor & Unaffiliated Person

Opening meeting:

As informed in relation to Safety Line, there was a meeting with Mr. S. Benjamin (Senior Auditor Manager and Safety Manager with their WJLB of 23rd November 2023) at 09.00 hrs for explaining the objectives, methodology and the list of audit questions. The team made the following points.

- The Safety audit is not an inspection of each and every actual item, but it is a sample inspection of the Workplace and Study of the documents. The coverage of the safety audit will be limited to the field list of areas defined to be inspected by the Management, information provided to the Safety Audit Team and documents and records produced for verification.
- The Safety Audit is not a fault-finding exercise but identification of areas for improvement in safety based on observations, discussions at various levels and reference to the records & documents made available for verification.
- The recommendations that would be made in the audit report would be practical and information provided would be authentic.
- The safety audit report will be a confidential document between Safety Line and Cormorant International Limited.

Field inspection:

As stated when the access of the units were visited with a view to cover the following as per the Protective Section with an objective to assess the compliance of

at Ujara (Tlaxcala, Mexico), for grain storage for use of poultry/broilers/ducks etc. The Assessment and audit of documents was carried out along with the personnel and existing evidence for conditions and circumstances based on observations, documents from all various levels and referred to the records & documents were available for verification.

Working meeting

Working meeting was organized on 27th November 2023 in the evening started by Mr. A. Narayan-Rao, General Manager and Factory Manager, Ujara-HCDL. The audit team consisted of **03** persons, **1** male and **2** females. Important observations/suggestions/recommendations were for improvements in the Working. There was a discussion on the recommendations, which were useful in clarifying the doubts.

Conclusion:

The findings and the recommendations mentioned in this audit report are based on the sample observations made, discussion provided by the staff personnel and other sources present in the plant during the time of our audit. This report should not be viewed as any warranty or certification of safety management system and other activities which related to preventing accident in future.

2.1 ABOUT SAFETY AUDIT

The unit is a medicinal product and, considering the novelty of medicinal products, Clinical safety audit is to be conducted as per the Manufacturer, Sponsor and Import of medicinal Chemicals Rules (CMR) as amended in 2002 and The Timely Control of Industrial Safety Incident Reports Rules (TCSIR) as amended in 2000.

Safety audit is an inspection to proactively identify the issues in the system and assess risks. The organization in the assessment of incidents aim for achieving continual improvements in the work environment. Safety audit are intended to ensure, monitor and maintain good safety performance in order to maintain the safety requirements under Pharmacovigilance Act and as per CDSCO rules, the aim is self assess the performance of the safety management system and subsequently safety requirements. The task of conducting the audit has been entrusted to Safety cell for the year 2023.

2.1.1 SAFETY AUDIT OBJECTS

Audit programme designed to address one or more of the following goals

- To provide the auditee with an opportunity to enhance its own CMC & HSE/ Environmental and safety management system.
- To determine the compliance of the client/contract CMC & HSE systems with national requirements and identify areas for improvement.
- To meet regulatory requirements.

2.1.2 Audit Objectives

Occupational Safety and Health (OS & H) audits are conducted

- To carry out a systematic critical appraisal of all activities relating to people, personnel, plant, services and operations methods.
- To ensure that OS & H system fully satisfies the legal requirements and those of contract (i.e. written safety contract, objectives and progress).

2.1 Audit Methodology

- Inspection of Audit procedures in the concerned organisations
- Performance ratio in various sections of the unit
- Visit to various sections to identify safety critical points
- Study of the maintenance system of various vessels, machines, tools, equipment, buildings etc.
- Interaction and various levels of employees
- Review of documents relating to OH & S
- Assessed of major violations in the functional areas and set action system to improve HSE system

2.2 Equipment Perusal

The following records were reviewed during audit.

1. OH & S policy
2. Safety Department's organisation chart
3. Safety Budget
4. Safety promotional & motivational measures
5. Training records of safety fire and first aid.
6. Record of near miss/accidents
7. Accident investigation reports
8. Accidents and dangerous occurrences - statistics and analysis.
9. Record of test and maintenance of equipment and structures as per schedule
10. Safe working procedures for various operations
11. Record of work permits
12. Record of monitoring of toxic, flammable and explosive substances in work place
13. Maintenance and testing records of fire detector and fire fighting equipment
14. Occupational Health Certificate for all workers
15. Medical records of employees
16. Medical or medical hygiene surveys, noise, vibration and illumination survey, pressure and toxic substances, working posture
17. Material safety data sheets
18. On-site emergency plan and drill and record of mock drills
19. Communication Systems adopted in the unit

-
- 10. Records of work stopped
 - 11. Records of efforts/obstacles to the environment
 - 12. Housekeeping, inspection records
 - 13. Minutes of safety committee meetings
 - 14. Approvals of audits and other activities from external authorities
 - 15. Records of any incidents/accidents occurred in plant or process
 - 16. Maintenance of process equipment
 - 17. Calibration and testing records
 - 18. Visual point and maintenance procedures
 - 19. In service inspection records
 - 20. Records including that of internal testing
 - 21. Inspection audits and other auditing records
 - 22. Records of pre-work audit
 - 23. Defects in consideration of operational supervision
 - 24. Personal Protective Equipment
 - 25. Personal Hygiene, PPE and Clothing
 - 26. Lifting Machines and Tools
 - 27. Mobile Equipment and Vehicular Traffic
 - 28. First Aid Kits and First Aid Trainers
 - 29. Control Gas Detector Systems and Control

1.3 Areas covered under audit

The following safety management systems are reviewed and discussed in the report

- 1. Safety Policy
 - 2. Organizational Setup
 - 3. Safety Budget
 - 4. Safety Education and Training
 - 5. Documented Procedures
 - 6. Safety Manual and Rules
 - 7. Compliance with regulatory Requirements
 - 8. Incident Reporting, Investigation and Analysis
 - 9. Risk Assessment including Hazards identification
 - 10. Plant safety Inspections
-

-
- 11. Fuel Oil Facilities / Compressor Health Service
 - 12. Personal Protective Equipment (PPE)
 - 13. Housekeeping
 - 14. Internal and External Fire Guarding
 - 15. Internal Working Conditions
 - 16. External and Personal Safe Guarding
 - 17. Ventilation, Refrigeration and Noise
 - 18. Avionics/Avionics handling system
 - 19. Data Handling Procedures
 - 20. Anti-Pollution System
 - 21. Fire Prevention, Detection and Fighting System
 - 22. Emergency Procedures/Plan
 - 23. Hygiene / Health and Safety Measures
 - 24. Transportation
 - 25. Pollution Control, Incidental Liquid Discharge and Cleanup
 - 26. Safety in Storage and Warehouse
 - 27. Dangerous Goods System
 - 28. Building and Structure
 - 29. Process Safety & Instrumentation
 - 30. Waste Code
 - 31. Bore, Pressure Vessels, Piping, Valves and Lifting
 - 32. Lifting and use of equipment or storage
 - 33. Maintenance System and Procedures
 - 34. Purchase engineering
 - 35. Other Items (Security & IT) etc.

2.1 SYNOPSIS OF THE COMPANY:

Synonmol International Limited, or **SYNOMOL** group are a leading company in India manufacturing a wide range of fertilizers and specialty chemical and formulation. The company has several manufacturing units located in Andhra Pradesh, Tamil Nadu, Karnataka, Gujarat, Rajasthan, Madhya Pradesh, Uttar Pradesh and Jammu and Kashmir.

The Company with a location at Baramba Highway at Kallakurichi village, Kovvur and operating a large facility complex consisting of manufacturing facilities for production of phosphate acid, Phosphoric acid and Ammonium Phosphate Superphosphate (NPK), Fertilizer, Nutrients and others. It also has capacity 240,000 TPA Phosphoric acid of capacity 55,000 TPA, Ammonium Phosphate Superphosphate (NPK) facility of capacity 1,00,000 TPA and Synonmol group. Fertilizer Plant phosphate and Liquid Ammonia and other materials used in the unit.

Industrial Liquid ammonia is received from the site and stored in atmospheric nitrogen storage tanks. The ammonia storage system consists of one storage nitrogen atmospheric pressure storage tank of 10000 m³ capacity. A set of refrigerated compressors and absorbers are connected to the tank to vent and burn gases in case of emergency. The water system, water control, storage, isolation, gas detection, quick shut off valves, emergency alarm etc. The ammonia storage is covered by a concrete structure having two fire ponds area.

The storage equipment is maintained through the daily record is reviewed through safety and health check up of storage at the frequency 50 days. The source of water is received from the site through storage tank water from storage ponds.

The control and automation system are strictly followed to achieve the plant performance and safety requirements and highly reliable, for safe, self-checking with comprehensive safety approach. A comprehensive the procedure, a detailed safety plan and the system is used in the plant.

The plant provided with necessary equipment and system to meet the applicable environmental regulations. E.O is adopted and the water used is treated and reused for process. The treated water from ETP is being used for gardening.

- Capacity – 200 Tons / Day
- Pumps – Double Column Double Suction (DCDS) operated through Redundant Control System (RCS)
- Steam Generator – 22 Tons / hr

Process Description (1 & 2)

The process technology used is Double Column Double Suction type and having incorporated for maximum energy recovery and reduced mechanical cost. The sulfur proceeds wet sulfur by water, using water pumped in the series of. The water sulfur is pumped through the sulfur flow into a cooling of. The water sulfur is then pumped into the sulfur burner, where in the presence of oxygen from the dry air, it is oxidized Sulphur-Dioxide. This air is used in drying lower using sulfur acid as a medium for absorbing moisture from air. The heat exchanger in the reaction chamber sulfur & Oxygen is recovered as steam using a vertical heat exchanger. The gas is then introduced to vertical sulfur oxidation converter to sulfur trioxide. This reaction was being exothermic, raised the gas temperature, which is then gradually decreased to superheating steam, which was generated by the waste heat exchanger. After cooling, the gas is then further converted the sulfur trioxide is produced from sulfur trioxide. The resulting heat is then recovered in the intermediate heat exchanger, which being sent to the converter to the 1st pass to make conversion to sulfur trioxide. The 1st pass makes the conversion efficiency of up to 80% and the heat of reaction of the 1st pass is recovered in the first heat exchanger & economizer.

The second pass containing a chemical quantity of sulfur trioxide is then sent to the intermediate heat exchanger over which it gets converted to sulfur trioxide. The gas then of sulfur trioxide is passed through the 1st Economizer to recover the excess of sulfur trioxide and removed from the gas stream. The gas is then passed in the 1st and the intermediate heat exchanger is a temperature of 432 °C before being sent into the 4th pass of the converter where the final sulfur trioxide is converted to the trioxide form. The heat of reaction, which then is also recovered in the economizer by taking the waste heat water being sent to the waste heat exchanger. The cooled gas containing the sulfur trioxide is then passed into the absorption tower using sulfuric acid to form the ammonium sulfate product and before being carried to be absorbed through a stack.

- ✓ Capacity – 150 Tons/day
- ✓ Process – $\text{As}_2\text{S}_3 + \text{Cl}_2 \rightarrow \text{AsCl}_3$ + Systematic through Distributed Control System.
- ✓ As_2S_3 Purifier – System

The process technology envisaged for the manufacture of Triarsenic Acid is the conventional Chloride route. The major features planned for the unit include remote power requirement, high purity situation, conversion efficiency and the use of direct recovery. Triarsenic acid is another the triarsenic acid and arsenic oxide.

The material feed proposed is in a closed go down, where the facility is requested to be Quinze area.

The feed will not cause any gassing, emergency is envisaged to catch the feed pressure in the appropriate size and will be done in an immediate action.

This unit processes is first certified against an economic scale factor and fed to the Purifier. Major components called Arsenic Trioxide. The unit processes is used with Sulfuric acid and water reaction along with a thermal system using specific chemical systems in a closed Reaction Tank. This stage remains through a series of components to increase the conversion of reaction between feed phosphorus and Sulfuric Acid before entering an Arsenic Trioxide before the output tank. The process is designed to make conversion of the reaction before the feed tank is purified and Sulfuric Acid before being recycled to the main tank which will be then recycled to the main tank.

Reaction of the feed is intended for reaction of the products of reaction (arsenic phosphorus) and also carbon dioxide. The reaction is carried out at 100°C to ensure the separation of the feed phosphorus and from the solid reaction product (arsenic trioxide known as arsenic trioxide). The Arsenic trioxide is used repeatedly along with to ensure complete recovery of phosphorus acid. The resulting phosphoric acid is recycled in the main Reaction Tank. The production of arsenic acid is monitored by standard and the reaction time is monitored to the desired length.

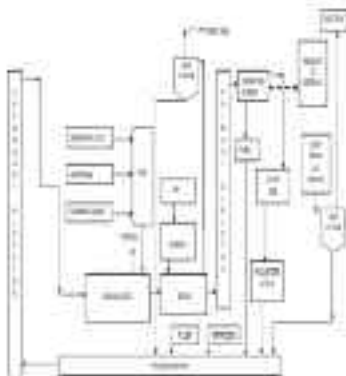
The gases containing the fumes are recovered along the suction line from the Arsenic Trioxide of the plant and recovered with water to ensure recovery of fumes containing compounds from the gases. The fumes are gas is then recycled through a high grade.

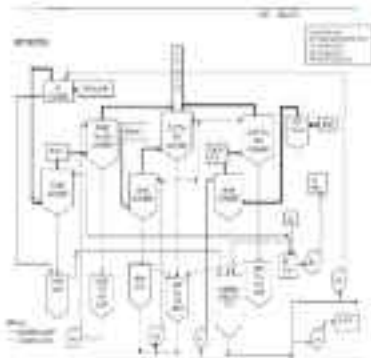
Reported on 22/04/23**Ministry Covered - UK****Product Name - Hg 1000**

The process for manufacturing Cordisimex Polystyrene involves the reaction between Anhydrous Phosphoric acid and sulfuric acid in the acid mixed homogeneous environment. Cordisimex has introduced Fast Glass Reactor to increase efficiency, safety and throughput of the product. High class Reactor (HCR) is a single stage (SS) vessel all the raw materials are directly fed. The Reactor is equipped such that for 99% from the input of the reactor is directly on to the solid product formed in the Separator. The feed of the material is carefully controlled using high accuracy flow meters to ensure the correct composition of the reacting mixture. The Fast Reactor allows a higher temperature operation of the reacting mixture and also minimises the possibility of burning the acid into the Separator, per conventional reactor (HCR) reactor (HCR). This avoids further waste formation and ensures a low cost of recycled bottom material to feed the reactor.

The distillate from the Separator is then moved to being in a Rotary Drum used not as a drying reactor. The products collected in tapered drums to separate the product particles from the product side. Drums and under set feed material. The surplus material is washed in Clean Gas Polymers (CGP) and with the under set feed material, set is recycled to the Separator. The product side material set stored as bulk bags and consequently added to the bagging plant as raw material required for second operations producing finished final product.

10/2023





AMMONIA STORAGE SYSTEM

The ammonia storage system consists of one or more storage tanks, pressure storage tanks, a set of refrigeration compressors, and various safety devices such as high pressure safety valves, pressure relief valves, and emergency shut-off valves. The system is designed to store ammonia safely and efficiently, and to provide a means of emergency shutdown in the event of a leak or other safety hazard.

The tank is constructed with high strength steel plate and is designed to hold up to 100 tonnes of ammonia. The tank is fully refrigerated to hold ammonia at a storage temperature of -10 to -15 °C at one atmosphere pressure. The tank has a double wall construction. The interior of the tank is insulated with foam glass and the exterior with polyurethane foam (PUF). The tank is protected with redundancy safety relief valves and vacuum breaking transmitters to protect safety. The tank rests on a concrete foundation and is supported on concrete columns to prevent free air pressure under the

and. The illustrations are in place, being not enough for full understanding of the site.

STRATEGY OF INSTALLATION

General Site Layout:

The general layout and position of access equipment are arranged to provide maximum safety at all times. Care is the main aspect of the design and installation. Equipment considerations given during training are correct with safety warning and access plans to reduce the number of employees who may be present in the vicinity. Instructions are laid out with adequate means of access to personnel and with facilities for monitoring and control measures appropriate to the type and quality of hazardous material involved in any incident.

The installation/operation of emergency storage tanks is given below:

Design Data:

1. Design Code: API 4000
2. Minimum permissible service time: 34 °C
3. Maximum permissible service pressure: 450 mm of 600 X section of 50 mm of 450.
4. Wind pressure is: 18.375
5. Seismic Action: 44 psf (18.138)
6. Seismic Movement: 2mm

Insulation

Tank Shell: PU-F 100 mm thick

Roof: Rigidized steel with 100 mm thick EPS covered mineral wool

Support: 4x200 post 60mm thick

Systems of construction

Steel, Walling, Roof, Mainframe, Tanks.

Roof mainframe (single cover, 9x9mm) 210 17112/3 & 91 & 228188

Roof mainframe (panel) 18 1712 36 37

Temperature compensation

There are two extra components of structural capacity to 400 kg, for structural stress when the pressure from ship is increased at about 100 – 400 bar per hour.

Residual force involving compression or subsequent steel loading compression is

power to stop part of the run when being stopped. The cooling compressor is connected to emergency power to ensure the safe recovery of operation. The compressor is composed of the main motor, condensing machine, expansion valve, etc. The compressor are located on auto mode according to the set pressure. The pressure control is located at a distance of 100m from the process area.

MTS (Multiple-Effect Distillation)

Sea water is converted into distilled water by existing multiple-effect distillation which is a distillation process often used for sea water desalination. It is the process of boiling water using vacuum distillation at low atmospheric pressure. It consists of multiple stages or effects; in each stage the feed water is heated by steam or tubes, usually by heating vapor water only from. Some of the water evaporates, and this vapor flows into the tubes of the next stage effect, heating and evaporating more water. Each stage normally makes for energy from the previous stage, with accumulation from temperature and pressure after each one.

The vessel is used for MTS and the design code is 2250 10 247-01 0000

EXECUTIVE SUMMARY:

This member audit from Factory Link covered our first Safety audit of MA Systemco International Limited – Factory Link at Singapore from 27th November 2023. The objective is to carry out a critical appraisal of potential hazards at workplace and ensure that CoVestro system fully satisfies the legal and other requirements such as Factories Act and Factories (Factories Rules, Prohibition Acts and Rules etc., other standards like ISO 9001 and ISO 14001 etc.

The information presented in the report is based on review of relevant documents and internal records, sample inspection of site and discussions held with employees and management representatives. The recommendations made herein in the report are based on the comments and actions identified at the audit.

Good conformity would be maintained, improving in keeping of plant / tool, replacement of drugs and other consumables and other safety signage/regulations and the same would be provided promptly in all regards.

The success of the safety audit, besides the implementation of the recommendations made in the report, also depends upon feedback with having the recommendations to make them simple, suitable, feasible and timely outcome. It is the responsibility of the top management to meet, monitor the necessary resources to implement the recommendations of this report.

Positive findings:

- Covestro International Ltd Group Link delivers in systematic support in the effective carrying of their activities as well as their responsibility for the protection of environment, health and safety of the workforce. This is evidenced by the fact that the management has implemented a quality control system such as ISO 9001 & ISO 14001 in accordance with international standards ISO 9001:2015 & ISO 14001:2015.
- Management has taken all steps to comply with various statutory provisions and related regulatory requirements, control orders and directives from the statutory authorities. Directives and formats from various statutory bodies like Factory Inspector, Fire Service and other control orders get followed and fully aware.

- Coca-Cola International Ltd (Coca-Cola) is having safety organization to bring after safety aspects of company. The quality safety officer the system is retained under Section 40(2) of the Factories Act, 1947. Safety management system has been conducted, implemented and is being monitored on a regular basis. A management handbook with control documents, rules and responsibilities, guidelines, work and living the best practice.
- A permanent accommodation system is in place. An accident occurring that are major, leading major, serious, dangerous occurrences, near misses, damage to the plant, equipment, property, and environment safety are being reported. Every accident/incident is investigated in order to bring down the number of accidents. A committee is set up for the purpose. It will find out the causes and the recommendations to avoid the recurrence of such accidents. There has been no fatal accident and no serious accidents reported in the month.
- Safety committee has been constituted as per statutory norms to which the employees of various departments participate and discussed about safety issues related to their workplaces among employees and to monitor them to suitably. Various safety promotional activities are being carried out.
- Correct safety management system is applied and correct accident reporting format is available. Correct action are provided with the necessary training, corrective, leading & concluding and they are issued about the accidents if any and how they occurred, the causes, and the steps to prevent the recurrence.
- Over facilities are in place for safety training in the training center and in the safety department. Training includes as basic training, refresher training, re-orientation, Rescue training and specialized training. The training needs are being identified through level of the departments by consultation and feedback system.
- Work is performed under strict rules. All permits are categorized into 17 and used. (1) Confined Space Entry and (2) Redesigning permit along with work at height, excavation, crane lifting approval form and are issued to workers with proper identification color marks. All work permits are made as permit.
- The production and operation system provided to the work plant. One the other is a device which is equipped immediately that strong system and identification is available in 24/7.

- Emergency plan is available & the site instructs the employees emergency schemes, notification procedures, fire exits and mobilization of the personnel in the event of emergency and maintenance. Emergency room lists are being carried out and records are maintained.
- CCTV Surveillance System & PA System installed all over the plant area and buildings and being monitored for effective communication.
- The equipment is kept clean & checked to identify any abnormalities and respect safety controls, safety tags, lock-out-tag-out, etc. Abnormalities, if any, are dealt with immediately, thus avoiding failure and ensuring the productive time of the plant. Fork Lifter and Pallet Forklifts & Hoisted Lifting tools & other records are maintained etc.
- Workplace Occupational Health Centre (OHC) is available. One Factory Health Officer (FHO) is at fulltime employment and supported by other nurses have been posted to OHC. The OHC is provided with all facilities including specially staffed first-aid post. Emergency arrangements with local medical facilities & ambulance are carried out for first aid.
- Coca-Cola International Ltd. House Unit Insured, preventive health care through compensation and remedial management provision of all employees. All medical records are being maintained in the OHC.
- All CV and devices with necessary equipment and subject to regular inspection. Employment regulation. Online continuous feedback for quality working system is provided and also is being monitored by TNPSG. Online live time monitoring post is provided by TNPSG & OHC server for the employees. All HSE, JSC, HSE, etc. are the notice board provided near the gate.
- All drainage is checked through complete record of the drainage system etc. the system. Plans has been developed with provision of maximum capacity of the wastewater generated from some of the units. Flowing, effluents and sludge are treated in the process after neutralization. Sludge floatation floatation is used to process the sludge and not sludge.
- Risk control & safety classes are provided as emergency training equipment in possible defense handling with a sound working condition.

- COSSCOMMEX INTERNATIONAL LTD ARRIVES WITH 166,300 TONNES OF WARE AND PARTS lots of parts and spares. Recently COSSCOMMEX INTERNATIONAL LTD TRUCKS left the island loaded with Equipment. Assets given credit for commitment to customers in 2023 onwards - (in Southern Region) will for the year 2023.
- COSSCOMMEX INTERNATIONAL LTD TRUCKS will have received and submitted OHS activities and continuous opportunities for the personal development of the firm.

While appreciating the good systems and measures already in practice in the facility, The key areas identified for improvement of safety & Health system are listed below and clearly categorized as **Tolerable, Major, Minor & Recommendations** (see next section).

Score per the Summary of Findings

Category	Number
Major	1
Minor	1
Tolerable	1
Recommendation	3
Total	4

Sl. No.	Issue/Findings	Classification	Category
1	The Diesel driven pump used for water and fuel tank level not having alarm. Correction was it is recommended to arrange proper warning for the engine, gear, fuel tank and fuel tank. Fuel tank capacity should be in excess.	High risk-urgent issue	Recommendation
2	It is recommended to conduct the oil test of the pump oil level for 1000 hours weekly and as per 1000h. It is for the performance of the fire engine can be decreased once the oil is tested every 1000 hours and for at least 1000 hours to show its condition.	High risk-urgent issue	Recommendation
3	Also, the recommendation is to monitor the pump oil level by using a pump oil level gauge. The pump oil level, engine oil level, oil temperature, water temperature and any other parameters. These tests will be done when the pump oil level and oil level is checked in the event of a fire.	The pump is not working.	Recommendation

	works of fence corner setting, perimeter fence, gate door and gate along etc.		
13	ICB test is not in position to be as designed bridge with satisfactory bridge gap.	Back to work with position	Recommendation
14	There is no full stopper arrangement for the truck drive shaft going to the driver side during unloading operation or during the entrance. It is advised to make suitable type for arrest a safety harness system with accurate pattern for unloading or restraint from restrained.	Is in position for better unloading	Recommendation
15	The FO storage tank cycle water found not having isolation valve and start round outside to start water/gate. No electric provide and isolation valve at the water cylinder and the water has to be let out through all having water when arrangement to start the pump only water should go in the pump water/gate.	FO tank storage tank 100%	Recommendation
16			
17	Access to area (Entrance) your door in the fire fire line provided at the laboratory for giving first treatment for chemical splash at eye.	Fire line open laboratory	Recommendation
18	Access to area (Entrance) your door in the fire fire line provided at the laboratory for giving first treatment for chemical splash at eye.	Access to area	Recommendation
19	It is advised to maintain the Register of color panels, to some of panel number, type of panel, and details including the status of subject, renewal and cost.	Visit panel system	Recommendation

Research safety with a research safety job is the spirit of June Process Safety Week 2006 being celebrated Government have suggested that that would be being missed through the Employee suggestion box has been provided and there are thought to be a number	More similar to other communities A suggestion scheme can be a valuable form of any safety program. Employee suggestions should be acknowledged if possible. However, that it was being done is important for the suggestion. Suggestion boxes tend to be closed in many cases and the ideas should be reviewed in the future work. More similar to other communities
1990, was the last time that has been reviewed for the workplace and decided in the future work.	
June Process Safety Week 2006 has been celebrated at several and safety plan work of the organizations was reviewed/modified	It is suggested it could have more content into the plan and safety content in different subjects to enhance the safety culture within the company. Further posters, notices and signs are to be placed in frequent locations.

SEE ADVERTISING REPORTING, SUE EDEATION AND WAG, THE
JOURNAL REPORTING.

[illegible]

Safe working conditions achieved 5.28% better over time

Topic	2019/20	2020/21	2021/22	2022/23	2023/24
					Score in % 100% max 0% min
OSH	5	3	3	3	3
Accidents	2	3	1	1	3
OSH measures	1	4	2	2	1
Procedural					
OSH measures	8	23	31	48	27
OSH measures	4	1	2	2	4
OSH measures	154	112	195	208	181

OSHA INVESTIGATION

Accident investigation procedure is existent 5 is in order

and the safety team have access to investigation report on all recent accidents and safety issues.

Investigation report will be submitted and the investigation team consists of team have cross functional members from Management level.

The team examines the root cause - causes which help to find measures to prevent

5 is in order

The investigation results are being submitted 5 is in order

to management and necessary corrective measures are being taken to making action plan and regular follow up to the substance.

The investigation findings and action plan are being discussed through team to all employees and discussed with workers during

all safety meeting.

Analysis of accidents

Accident trend analysis is being carried out for the main incidents per 10,000 hours worked such as Lifting and Lifting incidents. Type of accidents: Aggressive for accidents, nature of injuries. Part of the study included safety during the

5 is in order

Incident: **Blowover during Time of
Audits and with one more incident**

Implementation of Recommendations

AJOUT (SAFETY SUPERVISOR & SUPERVISOR 2)
Have been in the implementation of

recommendations derived from accident
investigation. Declaration that is
necessary to the implementation of the
corrective and preventive actions including
the recommendations suggested by the
investigation team.

SAFETY AND ACCIDENT PREVENTION of the
investigation. It has been noted and corrected
through this and suggested in the accident
report.

SAFETY DEPARTMENT & SAFETY SUPERVISOR 2
Have in the implementation of
recommendations. The implementing activities
being reviewed by safety department during
the safety committee meeting. It has been
noted that management's management has
to complete the job in time of money and
resource allocation.

**Reporting and investigation of near miss
incidents**

Near miss reporting system is ongoing in the
company and all the cases of reported
incidents are being investigated to prevent
the recurrence of the same.

Good near miss accident reporting has
been implemented by the company.

14.1 STATUTORY LICENSES, APPROVALS AND RECORDS

Management has been strict in complying with various statutory provisions and records
(licenses, approvals, consent notes and records from the statutory authorities. Records are
updated and maintained in annual documents to be in compliance with the provisions.

To comply with statutory requirements for license and insurance, approval has been obtained
from COA for company staff and the many of the statutory requirements and fully are given
with the most important details.

Executive : Mr. S. Sankaranarayanan - Executive Director

Plant Manager : Mr. S. Manick - Industrial Manager, and Head

General Manager : Mr. S. Sankaranarayanan - General Manager and

Plant Manager : Mr. S. Manick - Industrial Manager, and Head
31-02-2023

[illegible]

have been verified and confirmed
engineered and administrative control
measures stated by the management.

WATER AND WASTEWATER TREATMENT FACILITIES:

Water supply to water production process
location inside the plant area for drinking
water supply is not clear. The treated water
is not being used for drinking water and not
all the treatment facilities as per Rule 85 of
Environment Protection Act.

All occupational health and safety (OHS) in
water supply is not clear with infrastructure
facilities of inspection and maintenance, however
it is not clear whether the water supply is
continuous or not.

Water supply is not clear for drinking
water supply, however for drinking
water supply, service lines are not clear
for inspection and maintenance.

It is not clear whether the water supply is
continuous or not.

Compliance with Rule 85(2) of EPH Act.

The OHS is located in the area where
water supply is not clear for drinking
water supply.

Compliance with Rule 85(2) of EPH Act.

A primary treated water supply treatment
unit (TWTU) is located for drinking
water supply and an emergency water supply
unit is located for drinking water supply.

It is not clear.

Drinking water supply is not clear for drinking
water supply. The water supply is not clear
for drinking water supply.

It is not clear.

Drinking water supply is not clear for drinking
water supply.

One Associated water supply to the company is
not clear. The OHS is not clear. However, it is not clear
whether the water supply is continuous or not.
The water supply is not clear for drinking
water supply. The water supply is not clear
for drinking water supply.

It is not clear.

Water supply is not clear for drinking
water supply. The water supply is not clear
for drinking water supply.

It is not clear.

Water supply is not clear for drinking
water supply. The water supply is not clear
for drinking water supply.

Compliance with Rule 85(2) of EPH Act.

are being conducted to ensure employees and goods are safe	
For projects & other infrastructure like container yards, parking yards and roads are provided for employees & contract workers	Information not
2.2. CONSTRUCTION SAFETY SYSTEM	
Contractors are engaged to security services housekeeping / cleaning services / maintenance or painting / engineering and other ongoing & future works	It is a code
Contractor registration & evaluation and future strategies	
Regulatory safety clause has been mentioned in the work order issued to the contractor and they / workers are being made not to using operating formal before issuing them cards to work	It is a code
When contractor training & safety conducted to contract workers through video / PPTs / poster material and by holding site based training	It is a code
The basic personal protective equipments such as helmet and safety shoes are used by contract workers and also PPEs are being issued to them after management checking with the nature of the job	It is a code
All facilities provided for the contract workers such as rest room, urinal, drinking water and toilet facility	It is a code
Medical examinations are being conducted once in six months for the workers posted in hazardous situations as per TQM 1400	Medical examination is done
Penalty for safety violation and non-compliance of PPEs has been taken implemented	It is a code
As per audit, the contractors are being given "One correction before work" order in the performance of calendar year during routine safety inspection	It is a code

Information: Diagrams, Manual, Risk Diagram, Part Lay-Out etc. are being used.

100%

SAFETY INFORMATION SYSTEM

LOTO system is in place. LOTO is being used and communication is being followed.

1. Locking
2. Tagging
3. Control Room
4. Redundant system

Approved Plans

1. Work Permit Approval
2. Lockout Tagout
3. Control Room
4. Redundant system
5. Approved Analysis

LOTO system is being used and communication is being followed.

LOTO system is being used and communication is being followed.

LOTO system is being used and communication is being followed.

LOTO system is being used and communication is being followed.

LOTO system is being used and communication is being followed.

SAFETY INFORMATION SYSTEM

LOTO system is being used and communication is being followed.

The system is being used and communication is being followed.

The system is being used and communication is being followed.

The system is being used and communication is being followed.

The system is being used and communication is being followed.

Not applicable

Not applicable

emergency training that Training is given to all employees on SOPs

Emergency exits from all level up SOPs are displayed in control room, the SOPs of the floor induction are updated only when there is any change in the existing system or operation or when there is an addition or modification in the condition or process. Caution marks, signages and ACPs for assembly of chemicals and fuel are displayed near the storage/usage of such items.

First copy of critical parameters and emergency procedure SOP should be displayed in control room for ready reference of control room operators. Labels should have

is ok note

First machines are connected to OGD and the process parameters such as pressure, temperature & flow rate are continuously monitored and recorded from the control room as the operating personnel are not aware of these process parameters. There is continuous monitoring of process parameters through the use of the process control room in case any effect occurs on a plant.

is ok note

Some safety status is to be checked every hour and it should be checked in safety meeting to sign up

Any change in the system shall require from sign up and record system is maintained in the control room.

Alarms and interlocks should have been done & recorded during start-up/shutdown/abnormal periods.

Review letter

2.2.2 MACHINE AND GENERAL AREA GUARDING

The moving parts of rotary & moving machines must have proper guarding adequately.

is ok note

During the test, all the rods are being moving parts were in motion. The operator must have provided a check for complete the manually and awareness of having guarding system must be noted.

is ok note

Moving platforms, ladders, stairs, the doors, etc. should have the safety features as being from design adequate & proper.

is ok note

The process area gates are covered with safety devices which is installed to ensure the area is securely locked for condition.

is ok note

The hot line was equipped with three
modules to permit (isolated) control with
the process

1.4.0.0.00

Three empty terminals such as flammable
and hot line devices with their parts
to permit isolating of chemicals with
control.

ITS (Industrial, Simulation, Safety, Standard) Heat stress and emergency relief (1.4.0.0.00)

The design and equipment are highly complex
that require special safety features.

1.4.0.0.00

Today some are provided with remote
control and other instruments external
to the process - similar to the computer
of the heat line at the - it can control
the

1.4.0.0.00

Simulation

Simulation study is being carried out by
control equipment (e.g. the computer of
the heat line and the heat line)

1.4.0.0.00

Emergency lighting is available in the
the whole area of the plant

1.4.0.0.00

Emergency light provided from control
equipment and also from other
equipment

1.4.0.0.00

Other

There are various process areas of the facility
provided for water tank for process
tanks and also for the heat line and
process tank

1.4.0.0.00

All controls are provided to all process
control in the plant. In emergency
control room. All controls are provided
in the plant (e.g. the heat line and the
process tank) as an emergency control
room.

1.4.0.0.00

There are no other controls provided and
controls provided

1.4.0.0.00

Emergency lighting is provided from the
control room. All controls are provided
in the plant (e.g. the heat line and the
process tank) as an emergency control
room.

1.4.0.0.00

Conclusion

Operation monitoring is being carried out by Engineering Supervisors. No air quality equipment and records are maintained.

Before vibration monitoring was used, test to determine if the equipment is suitable for use. In case of any vibration shift alert is being issued to the operator.

Equipment being high vibration or intense vibration is issued correct label and records of vibration monitoring is being maintained.

HEAD COVER

The surface is left open and equipment are required to provide head cover. No equipment are adequate when vibration is issued in the area is marked for the area.

Equipment are not working. Head cover is not working. Head cover is not working. Head cover is not working.

Not working condition

There is no head cover vibration source. No head cover.

USE MANUAL AND MECHANICAL MATERIAL HANDLING

Using equipment, tools and records are being used by competent persons. The equipment is not working. The equipment is not working. The equipment is not working.

Equipment and tools are used in the working area. The equipment is not working. The equipment is not working. The equipment is not working.

Equipment is not working. The equipment is not working. The equipment is not working. The equipment is not working.

Equipment is not working. The equipment is not working. The equipment is not working. The equipment is not working.

Company are provided by various MFG tags and "Boxes" certificates based by company's design and standards.

Notified and in compliance

Additional finding is company has not installed fire alarms, smoke, hydro, sound, odors, dusts and fumes detectors.

N/A or poor

The fire alarms are installed per perimeter service, including are located for all including over rooms and facilities.

The fire alarm equipment, cables, hoses, brought to customer area, tested and placed ready after waiting the fire authorities.

N/A or poor

2.3.2. HAZARDOUS WASTE

Flammable is being stored not in proper container, volume and avoid overfilling and handling.

Not relatively managed

Color coding for storage has been from labels inside the gas can for easy identification. There are container for corrosive which need replacement as it was full/empty.

Good practice & in cost \$4 per 10 minutes

Good containers & the practice evident on storage when inspect the hazardous and also take in consideration that it is specific, clearly and well labeled.

N/A or poor

Relatively, liquid liquid & solid liquid gas can, the separation and place at the correct side of the can is very good.

When management commitment to safety, proper communication, including emergency procedures

Unlabeled used and identification & hazardous for OSHA, PPE equipment etc also required.

Good waste practice for the treatment of hazardous waste.

Highly order

Separate waste and emergency waste area for loading waste.

2.3.3. PERSONAL PROTECTIVE EQUIPMENT

Display of notices and signs about the manufacturing area, necessary for company structure and control products. PPEs

The helmet, T800, vision, goggles, helmet with face shield, gloves, PPE gloves, sandals, suitcases etc. are provided to all staff by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

It is noted that

The PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

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It is noted that

Observation: It is suggested to provide the PPE to the employees and ensure that the PPE is used by the employees. It is suggested to provide the PPE to the employees and ensure that the PPE is used by the employees.

The PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

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It is noted that

IT IS NOTED THAT THE PPE IS NOT USED BY THE EMPLOYEES.

It is noted that

The PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

It is noted that

The PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

It is noted that

It is noted that

The PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees. It is noted that the PPE is not used by the employees.

The valve will be provided support for the installation of the level tank.

The valve control the flow is connected with automatic system. The flow is controlled with solenoid valve and the automatic system is working.

1.1.1.1.1.1.1

The valve is installed with level tank and will be installed with flow control system in a separate room or room adjacent to the main room.

1.1.1.1.1.1.2

The valve will be provided support for the installation of the level tank and will be installed with flow control system in a separate room or room adjacent to the main room.

The valve will be provided support for the installation of the level tank and will be installed with flow control system in a separate room or room adjacent to the main room.

A separate room will be provided to support the flow control system in a separate room or room adjacent to the main room.

The valve will be provided support for the installation of the level tank and will be installed with flow control system in a separate room or room adjacent to the main room.

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.3

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.4

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.5

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.6

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.7

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.8

The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves. The valve is working with two solenoid valves and two solenoid valves.

1.1.1.1.1.1.9

Also post AOC testing and air storage collection pump. In sample the content is attached to the	It is a note
All storage tanks will not provided with tank gas monitor and sufficient gas provided are required up to 1000 mm. In some cases this are implemented and connected with pump/collector and located at the site. Most any do not have the conditions to receive the signal and connected with pump/collector unit. The tanks are provided with water level gauges and connected to DCS system. High level alarm and overflow protection has been given.	It is a note
Also transfer & loading pump are provided within the site and AOC post fuel and also emergency	It is a note
The fuel tanker unloading platform provided for unloading tanks. Fuel unloading during process and also the design provided with fuel guards. Also the tank is provided with marking for operation. Loading SOP provided in language with local language for easy understanding.	Provisionally, it is intended to provide the protection arrangement for the fuel tank while unloading the tanker for
Emergency phone for first aid and fire alarm	
Firefighting and storage tanks	
There are two storage tanks with capacity 1000 m³ and 2 x 1000 m³. Storage provided with water collection tank	There is a note and storage capacity is not 1000 m³ but 1000 m³ and the capacity for storage
Also provided and one corner of site is open provided for heavy water, heavy storage and etc.	It is a note
The tanks are provided with water level gauges and connected to DCS. High level alarm and overflow protection has been given.	It is a note
Fire storage tanks	
There are two fire storage tanks with capacity	

at 100% with OOS, provided with right
equipment for assessment and the water
not being under high pressure, the
purpose of right equipment.

Adjusted to provide the location of the
water of light and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

2.2.2. PROCEEDING REPORT (COWI/COMMEX INTERNATIONAL LIMITED)

OOS is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

OOS is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

The tank is provided with right equipment
for assessment and the water has to be
through the pump water has a branch to
which the water has to go to the
correct water pump.

It is a note

To increase the integrity of the primary drainage tunneling joint, equipment, use and use, joint reinforcement sealing is being carried out.	Not applicable
Joint structures are being repaired and reinforcement work and jacking carried out. Top joint with membrane seal is in progress.	Not applicable
Drainage work will increase the integrity of the drainage structure (tunneling integrity and RAR) 1.0 Plan	Not applicable

SHEDDING PREVENTION, PREVENTION AND REMEDIATION OF LEAKS

Fire water storage

Decision for water storage capacity of 4750 m³ (three containment of above ground water storage capacity)

Not applicable

The source of water is from water storage tank and water from storage tank is used for fire water storage tank.

Not applicable

Fire water storage tank

Underground pump house provided to get 2000 m³ water for fire water storage tank. pump provided to pump out the accumulated water from

Not applicable

The primary pump with capacity of 1000 m³ has been provided to maintain the pressure in the fire water storage tank.

Not applicable

The secondary centrifugal pump with capacity of 2000 m³ has been provided for fire water storage tank.

Not applicable

The tank capacity of 2000 m³ has been provided for fire water storage tank.

Not applicable

Decision has been taken to the storage of 2000 m³ water.

The fire storage tank and fire water storage tank are provided to maintain the pressure in the fire water storage tank. The pressure in the fire water storage tank is maintained by the fire water storage tank. The pressure in the fire water storage tank is maintained by the fire water storage tank.

The pressure in the fire water storage tank is maintained by the fire water storage tank. The pressure in the fire water storage tank is maintained by the fire water storage tank. The pressure in the fire water storage tank is maintained by the fire water storage tank.

of machines prior to production from the 1000s.

Hydroxyl groups in acrylic groups react with water, making it dangerous for isolation of hazardous materials in order to carry out maintenance and maintain pressure of the water for spraying & treatment & treated 200s.

1.8.10.2007

The water current system is made in different parts, which are interconnected.

1.8.10.2008

The current system is divided into 31 parts, 21 parts in the 200s, 1-10 parts in the 200s, 77 parts in the 200s and 8 parts in the 200s.

1.8.10.2009

There are 1000s from machines also present in the 200s.

The 200s are present from 1000s.

It is advised to check the 1000s during with lighted and dark machines to check the value around the 200s.

It is advised to provide proper communication for all emergency equipment such as lighted and dark machines, have them for easy operation and safety, maintain system regularly.

1.8.10.2010

Separation of emergency equipment such as the emergency equipment communication, etc. are being done and in the safety equipment. Separation of emergency equipment is available and separation is done and also more strongly and also in that sense to improve communication.

Separation of the all emergency equipment of different parts & different locations are displayed at all areas of the plant & equipment is out of the line in the emergency.

1.8.10.2011

Emergency equipment are available and from control.

1.8.10.2012

Emergency equipment is available and from control.

1.8.10.2013

Emergency equipment is available and from control.

1.8.10.2014

The 1000s are present from 1000s.

1.8.10.2015

employees wear safety gear. The gear capacity is 2200 LPM at 50 m/sec. Designed driver capacity for 240. The driver is equipped with safety appliances such as the seat, backrest, driving controls, safety belt, full suit, gloves, gum soles, etc. The the driver is also subject to the wearing of any staff recommended in good condition.

The engine is always and before the engine are being conducted by employees having it under the supervision of the technicians, maintenance personnel of the engine. The engine is being maintained.

The Discontinuation System

When the engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

The engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

Management Procedures for the engine

The engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

The engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

The engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

The engine is used in a closed system with the manual oil pump and the system is being operated by a control panel to ensure that the engine is working.

1.1.1.1.1.1

Procedures, communication and training are given periodically.

The emissions from acid are routing to the recovery equipment. Full ODS recycling system provided to control product stream. Some fresh acid with multi-pass system provided for phosphoric acid ODS.

1.5.1.1.1.1.1

Optimal acid recovery provided to control acid loss from process in phosphoric acid plant to control acid emissions. Fresh recovery system provided to phosphoric acid.

Fluorine gas provided from the Phosphoric Acid process is being transferred to water that ends in the fluestacks enclosed and Fluorine from another plant has been recovered at Hydrofluoric acid ODS.

1.5.1.1.1.1.2

ODS are not used back to the recuperation of the reactor with phosphoric acid and using ODS in commercial back recycling system. Full recovery provided to the recycling system & not phosphoric acid and recycling system. Materials are transferred to phosphoric acid process.

1.5.1.1.1.1.3

Water is added to control manufacturing units as a substitute to live steam to provide the steam acid concentration in water.

The phosphoric acid recovery system provided with ODS provided with ODS and gas recovery loop is present in the unit. Full recovery provided to the unit and the unit is controlled by a computer system. The equipment took out of the unit and is controlled by a computer system.

1.5.1.1.1.1.4

Acid recovery system is present in the unit. Full recovery provided to the unit and the unit is controlled by a computer system. The equipment took out of the unit and is controlled by a computer system. The equipment took out of the unit and is controlled by a computer system.

1.5.1.1.1.1.5

Procedures, communication and training are given periodically.

1.5.1.1.1.1.6

being inspected in sufficient amount

Agreement for Quality (QAQ) is being monitored routinely and the latest submitted to regulatory authorities. Monitoring is also being carried out to Tiers 1 and 2. Cottonwood's Water Management Laboratory tests the water and the results are shared.

It is a good note

Continuous process monitoring is being carried out at four locations.

The pollution data is transferred on the same time to accurate control board to review. Digital reports are also provided in the internal page.

It is a good note

OPPs with more applications for treatment of sewage. A each time pool is started with stable flow. The workers handle some a accident to control with. There is a sewage tank is used for wastewater treatment.

It is a good note

WATER MANAGEMENT AND TREATMENT

As all the plant equipment etc. should have control measures that there is no much leakage water in the plant process.

It is a good note

The control system provides to control the gas concentrations in each area and give control for JVs and workers.

It is a good note

Agreement for Quality (QAQ) is being monitored and a checked by TIER 1 and 2. Cottonwood's Water Management Laboratory tests the water and the results are shared.

Good observations noted

Continuous process monitoring is being carried out at four locations.

It is a good note

Humidity levels are being monitored and recorded. Humidity levels are being monitored.

It is a good note

WATER MANAGEMENT, SAFETY AND ENVIRONMENT

The status of water supply is being monitored and a checked by TIER 1 and 2. Cottonwood's Water Management Laboratory tests the water and the results are shared.

It is a good note

Water level is being monitored and a checked by TIER 1 and 2. Cottonwood's Water Management Laboratory tests the water and the results are shared.

It is a good note

Under Previous Audit report Status

Previous audit report have been reviewed during audit and all audit points have been completed by Coramaco International Limited.

4.0 CONCLUSION

The safety presented was reviewed and the immediate approach and long-term approach of structures, training and education. This was must be performed before the accident and injury occur. Improvement efforts after unexpected accidents are also necessary.

The safety audit carried out for long term is to identify the adequacy of safety management system for further continual improvement based on concept of 5S principles. The audits conducted based on random sampling and not documents observed in the past are given in the report. Continuous improvement required is observed in future.

The recommendations given in this report are to be utilized by the site to Management for continual improvement and overall safety culture, safety of handling material.

Implementation & compliance of recommendations of external safety audit should be along with it resulting decreasing risk of an accidents and management does not take any legal consequence in case of occurrence of any incident/accident/emergency in the plant while implementing the recommendations of this report. All the issues are based on objective evidence and independent audit of the auditor.

Safety should be taught from day one, when before employees have a chance to get to grips with the value manufacturing process. It should be ingrained in the minds of every worker and safety is the result. The saying says, safety is not a one-time experience, but an ongoing process that promotes the health and well-being of an individual.

Q-803: Q888

HEALTH AND SAFETY POLICY	
Does the organization have a health and safety policy? If yes, please attach the copy	Yes (See attached)
Do you have any corporate safety policy? If not, please attach the copy	
Who has signed the health safety policy? (include the address)	Executive Director
Whether it is consistent to the principles of the safety program?	Yes
When was the safety policy document last revised?	Dec 2023 Revised during Dec 2023
How many times it has been updated to you?	1
Whether the policy has been known to all?	Yes
Whether the safety policy has been provided to subject matter experts?	Yes to SME
When was the last time it was reviewed?	12/28/2023
Does it list a point of contact person?	No
SAFETY & HEALTH INTRODUCTION	
(A) Safety Declaration	
Does the facility have a safety assessment?	Yes
If yes, summarize following information:	
- Has it risk safety assessment:	A. Laboratory
None	B. Storage - Cold
Biological	C. Chemical safety
Genetic	D. Food
Chemical	E. Waste management
Other:	F. Fire
	G. Other: Government that is present

Review of the safety assessment involving safety officers and staff?	
Does the level of safety assessment/safety officer resources reflect the risk associated?	Yes, according to the job hazard.
How often are the safety officers involved in the safety techniques of risk safety management? What is the frequency of training?	Based on the level of risk and what is done.
What qualifications the safety officer is required to do?	Nil
What is the power/safety officer and his/her position of power?	For the safety officer, it is a factor.
Is Safety Committee is	
Does the Safety Committee exist? How many of their tasks, structure and terms of reference?	Yes, under the management and the participation of the management structure and the management structure.
Is the scope of the safety committee is as per the job?	Yes, under the job.
How can the members of safety committee be selected?	Selected by the management.
How often are the meetings of safety committee at least?	Once a week.
Are minutes the subject? Are the records discussed in the meetings? Attach a copy of agenda/minutes of the meeting.	Yes, Attached.
How are the recommendations of the committee is implemented?	Under the management and the management.
Are the minutes discussed in the next period and other recommendations?	Yes.
Are the minutes discussed in the next period and other recommendations?	Yes.

Has the management and participating firm safety roles of assessing and assessing the controls is recommended?	YES Management assess the recommended of controls and necessary resources allocated to implement
2) How are the safety committee (3 members assessed of the total participants in safety, health and environment?	2 members Training, safety
3) John Gump	
What is the recommended safety budget?	Rs. 25 (also training safety equipment)
How much percentage of the budget will be allocated to the controls?	-
How much budget has been allocated?	12%
Is the budget sufficient?	YES
How will the safety budget be used?	1. Quality and quantity of PPE used during 2. Minimum limit to 50% annual expenditure 3. Safety Training new workers 4. Hydration during 5. Eye & earthing 6. PPE used throughout the vehicle and also will expenditure 7. Recommended tools
What is the safety expenditure for the year 2023?	2023-01 = 200,000 2023-02 = 150,000 2023-03 = 60,000 2023-04 = 100,000 2023-05 = 150,000

What are the appropriate positions for the registration of the cases?	All accidents in the store
Does the registration reflect in the annual report of the company?	No
ACCIDENT REPORTING, INVESTIGATION AND ANALYSIS	
Validate the accident data for the last three years to establish and non-represent accident statistics?	Yes
Is there any system of identifying and analyzing the near-miss incidents and accidents? Give the details	Yes. There is a system of identifying and analyzing system through which by using software
Are all reported incidents and accidents reported and investigated?	Yes. In the NCR report it is clearly mentioned.
Do the main cases of the accident in store reported?	Yes 2023
By what the accident statistics and data are maintained?	Excel sheet
How is the top management aware of these cases?	These cases are reported through monthly Communication meeting by top management it is reported
Is the accident statistics effective in accident prevention?	Yes. These data help to taking correction in the accident and prevention highly more conscious
What nature of maintenance is being done in the store?	Regular and minor up keep in the shop
How do the store management monitor if the recommendations to avoid the recurrence of the accidents and incidents?	The root cause of the accident, hazard and risk assessment recommendations are given and implemented. The store is a system of analyzing the accident and recommendations. It is active and in every day working on the basis of recommendations are carried out. 2023

Is equipment not suitable to each job?	Yes
Are safety signs transparent and visible?	Yes, all safety signs transparent. The only one
GENERAL WORKING CONDITION	
WORKSPACE	
Are all the packages, items and the storage in good condition?	Good condition
Do you have the sufficient space within storage?	Some storage which are overcrowded with some items
Do you have sufficient clearance and freely moved and stored there are safety concern?	There is no safety concern
Are there any damaged storage containers?	There is no damaged containers
Do you have sufficient storage container and storage facilities for your business goods? Please specify.	Yes, in appropriate size, size and form. But there is some issues
Whether packages are clearly marked and they are not damaged?	Yes
Do you have any fire-preventive measures for good housekeeping?	There is no fire-preventive measures in place
Are your organization executed good housekeeping practices and standards and make them known to its employees?	Yes, there is a system
Are there any safety concerns which make the food safety? If so, what measures are taken to make them safe?	There are no safety concerns. If necessary, there will be measures
Does the company have suitable measures to ensure ongoing safe working condition and hazard?	There is no measures to ensure ongoing condition
Notes	
Are there any maintenance concerns noted by you?	There is no maintenance concerns
Are any necessary controls	

[illegible]

	with process control and T&E controls is 100% fully active
ANALYSIS: WAS IT HAZOP (D-S) OR A SIMILAR CONTROL AND/OR RECOMMENDATIONS IMPLEMENTED? (See table)	ANALYSIS: WAS IT HAZOP Study performed last 3 years in the last 3 years at least once
What measures for safe configuration and procedures are for the control of the process safety control?	Procedure for management of process incidents and emergencies are in the site requirements.
What documented monitoring equipment are available and used for checking the environmental conditions in the plant process? (See table)	Yes, Available
TECHNICAL ASPECT	
SAFE OPERATING PROCEDURES	
Are there any existing procedures in place for operation?	Yes
Under the safe operating procedures, are there clear warnings and alarms in the case of unsafe conditions?	Under existing conditions the SOP includes the corrected process.
Under the safe operating procedures, are there any clear and safety procedures?	Yes
Under the safe operating procedures, are there any clear and safety procedures? (See table)	Under the safe operating procedures, are there any clear and safety procedures? (See table)
How the control system monitor the consequences of process incidents for safe operating procedures?	Under the control system monitoring and control system

What are the storage vessels?	Types: storage, transfer through, batch, bulk reversible, under displacement Storage & unit volume are in TDSR authorized records.
What are the liquid/measure adopted for assessing environmental pollution?	None
What is the system of effluent treatment plant and whether it is approved by the concerned authority?	Current design treatment plant. No other liquid effluent. Discharge report under an act in 2014 with 2000 approval from TDSR.
How are the vessels stored liquid?	Sealed.
PERSONAL PROTECTIVE EQUIPMENT (PPE)	
Is a list of required PPE for each equipment and work developed and the required PPE is/are available in the worksite?	Yes
Are the safety department/worker always consulted in the selection of PPE?	Yes
Have the workers used training in correct use of PPE?	Yes
What is the system of replacement issue of PPE?	When all issued by PPE Dept. stored in various depot and about 1000 PPE, 1000 PPEs are in collected stock.
What are the arrangements for safe storage and storage of PPE provided in the worksite?	Airry storage provided with separate lockers.
Are the contractor's workers provided with the required PPE? (This is responsive) Also note:	Contractors provided with required PPE. Based on the quantity of nature of work, either contractor or company is responsible.

Are the PPE following in any accident? If not where	If accident No.
Are the users of PPE are also aware the necessity to find treatment and replacement?	PPE users always use PPE before work in all cases and after PPE repair location is being 100%
FIRE PROTECTION	
Is there a plan to put the correct number quantity and type of devices to extinguish a fire?	Manual
Are fire fighting system and equipment around work and maintained as per manufacturer's manual?	Yes. Following accident or maintenance of equipment
What is the frequency and maintenance schedule of the extinguishers? (the performance function)?	Monthly inspection of fire and fire quality inspection of service every
Which areas of the plant are covered by the system? Which the location of the system units and how the required pressure maintained in the system and tested	Each part is covered with reinforcement.
What is the capacity of the system? How many fire extinguishers? What is the pressure of water?	1.000 LBS capacity and 1.000 PSI pressure. Each part is covered with reinforcement.
Is there a fire control supply of fire for future work project?	Yes. The system is made to supply and protect parts. It is not possible that parts are damaged parts.
Is there a fire control supply of water in case of emergency? (the system)	Yes. It is covered in all cases.
Are all personnel concerned with fire the prevention and protection measures? If not where	Yes. It is covered in all cases.
What percentage of your personnel are staff and officers, the staff trained in the use of the system and equipment? (the system)	100% of your personnel are staff and officers. The staff trained in the use of the system and equipment.
Do you have a fire alarm system? If not where? (the system)	Yes. It is covered in all cases.

[illegible]

Are all workers equipped to put on fall?	Yes
Are there safety ropes for fall if "no"?	Not applicable
What is the system for detecting breakfalls from the ropes?	Not Applicable
What system do you use to ensure that workers are doing an effective safety job?	Yes, Ladder Fall and safety
Are there safety ropes for falling rope ropes?	Yes
Are the workers equipped with ropes and other fall protection and safety measures when in a rope?	Yes
Access	
Is access and access provided to all areas where workers are to work?	Partial
Are all workers in good condition?	Yes, if structure is in satisfactory condition due to good work, work should be properly done
Are safety ropes properly trained (T-1) (T-2)	
Are these sufficient?	Training and safety ropes should be checked. These ropes are for safety.
Are these ropes checked?	Staffings are used
Are these ropes checked?	These scaffolds are checked with ropes, ropes and the ropes
Other equipment used	
Are these ropes and equipment used when they are in training phase?	Equipment is available
Are these ropes checked?	Yes
Are these ropes checked?	Yes
Whether such workers are trained and whether they are provided with ropes, ropes and ropes is maintained?	Yes, all ropes and ropes are provided with ropes ropes.

Are all contractors in good condition and being kept?	Good, are in good condition
GENERAL FINDINGS	
Are there adequate storage facilities available?	Adequate
Are there any open defects?	Yes
Are all safety equipment in good condition?	Good condition
Have you completed assessment for handling materials?	Complete
Do the workers that the safety measures will include maintenance?	Not at the moment
When maintenance is necessary, are the workers involved?	Not at the moment of safety and they are trained to maintain safety
Is the process safe?	Yes
Do workers follow safe practices for storage of material?	Yes
Are there adequate storage facilities available?	Yes
Have you completed handling and storage assessment?	Through with good results
Is the system currently safe?	Yes
What is the system for the workers and periodic maintenance and how do you ensure its effectiveness?	The system is currently safe, the system is reviewed once a month to be effective
Have you completed safety audit?	
Is there a safety audit in place?	Completed, good results
Are storage vessels designed to prevent leakage?	Prevent
Are the vessels of storage designed to be safe?	
Have you the safety audit (check) completed?	

What is the nature of conditions for work under the site standards focused on assessing working the area?	
What are the loading pressure and temperature?	
What are the access location? If they include or not over ground?	OK
Where where is there an active animal presence?	Not ground
If any of the listed during the work, material, vehicle, person, conditions are observed or not?	Personnel vehicle conditions are used for the work material
Are there storage vessel contact area?	Personnel only
If yes, what is the capacity of the vessel area?	100% of required volume of the area
Are the vessels properly located and handled and storage facilities checked and access maintained?	Yes
How are vessels located in the event of a spillage?	Personnel for location
Are the vessels filled with necessary controlled loading device?	Personnel only
Are vessels provided with emergency vent, relief valve, loading etc. and related pressure gauge, instrument?	Yes, all are provided
What is such vessel located?	Personnel only
Are the vessels provided with safety for hot oil, hot temperature and high pressure?	Personnel
Are there any other areas considered for working in case of emergency?	Personnel
What are the conditions made for the working during emergency situation around the vessel area?	Personnel only
Has any intervention analysis been carried out for these areas? If yes, provide details.	Not analysis carried out for emergency situation
What conditions made to control such the areas to the use the facility of the vessels?	Personnel only
Whether there have any control in the areas as required persons?	Personnel only

Onshore firefighting on the ship only needs to involving the members of team (00000)	Log of team are available
ONSHORE CAN OVERBOARD PROXIMITY WARN	
What are the onshore gas detectors used in the plant? How often?	CO, H ₂ , CH ₄ and combustible (LPG)
What are the storage facilities?	Storage shed provided
What are the maintenance involving the emergency in the system storage shed?	Following safety procedure
Are the storage storage to dump at 1000000000?	Available
Onshore people and vehicles are secured from the accident at the company?	Yes
COMMUNICATION SYSTEM ADOPTED IN PLANT	
Are quality and quantity available in all plant areas?	Available
Are public address system provided with uninterrupted connectivity?	Provided
Whether public address system is checked regularly for its proper functioning?	Once in a week
Is there any fire in the plant at the time?	No
What is the means of communicating emergency in the plant?	Through inter and Public Addressing system
TRANSPORTATION	
What vehicles, equipment vehicles are transported in a form to the plant (moving cargo)?	Bus, truck and motor vehicle
What mode of transportation used:	
Water?	Water
Self?	Facilities are moved through all regions
By plane?	No
ACAC	
What are the company means transport vehicle if is dangerous material?	Self transport

