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कार्यालयीन
उद्देश्य के सभी
पत्रादि "मुख्य
विस्फोटक नियंत्रक"
के माध्यम से भेजे



भारत सरकार
GOVERNMENT OF INDIA

पेट्रोलियम

तथा विस्फोटक
संगठन

सुरक्षा

PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION

(पूर्व नाम - विस्फोटक विभाग)
(Formerly- Department of Explosives)
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No.E-25(33)SMS/Policy Matter
Dated : 03rd June, 2010

To,

All SME Manufacturers

Sub: Guidelines and requirements for Safety in manufacture of SME.

Dear Sirs,

Subsequent to Singrauli accident there is need to review the procedure adopted by Explosives Industries in the Manufacture, Transport, Storage and Handling of Explosives. With this objective a meeting was conducted with all SME Manufactures on 21/04/2010 in the o/o Chief Controller of Explosives, Nagpur.

In order to raise the level of safety standard in the industry the following guidelines and requirement under Explosives Rules, 2008 are given for compliance and report.

1. Ensure that proper safety devices like high pressure trip, low pressure trip, high temperature trip and rupture disc are provided in plant as well as in BMD vehicles.
2. Ensure availability of legible copies of following documents with the Plant Manager/In charge in the factory premises:
 - i. CCE's letter vide which product being manufactured in the factory was authorized.
 - ii. Approved chemical composition/process of manufacture of the product.
 - iii. MSDS of each raw material and finished products.
 - iv. Test reports of Departmental Testing Station, Gondkhairy, Nagpur and CIMFR and CMPDIL.
 - v. Industrial license.
 - vi. Internal and External safety audit reports.
 - vii. Safe Operating Procedures of each operation.

- viii. Records of awareness/ training imparted to plant manager/supervisor and workers including casual workers.
- ix. Records of safety meetings.
- x. List of competent persons to supervise operations and their attendance register.
- xi. Safety Management Plan.
- xii. Records of waste explosives disposal.
- xiii. Blasters certificate of persons carrying out blasting operations where applicable.
- xiv. Records of all major repairs, servicing and maintenance of building/plant/machinery/equipments etc. including calibration of gauges and measuring/weighing equipments.
- xv. Records of incidents/ near miss situations / accidents.
- xvi. Returns of ammonium nitrate.
- xvii. Statutory record i.e. explosives manufactured (Form RE-2), explosives used (Form RE-5), quarterly returns (Form RE-7), indents (Form RE-11), and Pass (Form RE-12).

It may be noted that generally during inspections, the inspecting officers are informed that all these records are maintained by the head office of the company and therefore the plant managers are unable to produce the same for perusal/scrutiny. Such situations obstruct the process of proper and effective inspections. It is therefore reiterated that the copies of all records must be made available at the plant premises also and inability of plant manger to produce all records will be treated as violation of condition 17 of the license and action in accordance with the provisions of rules will be taken which includes suspension/revocation of license.

- 3. Maintain records in respect of batch wise consumption/utilization of raw materials and to ensure that the product manufactured conforms to chemical composition/formulation approved by the CCE at the time of authorization.
- 4. Provide proper facilities for testing for routine physical and chemical testing of raw materials, intermediate and finished products and maintain records in respect of quality control/test certificates of raw materials (including fuel oil) being procured/used. Facility for testing of fuel oil to be used as raw material including testing of its flash point should be provided in case not existing already.
- 5. Maintain records of all quality control/performance test reports for the finished products.
- 6. Provide a dedicated parking shed for BMD vehicles and get the license amended in respect of the same.
- 7. Submit a notarized affidavit to the effect that the entire factory premises will not be used for storage of explosives accessories either by way of parking of explosives van loaded with explosives accessories or otherwise
- 8. Provide lightning conductor as per IS:2309 to protect the factory from lightening/thunderstorm
- 9. Proper earthing/bonding of electrical/process equipments should be provided and record in respect of its regular testing/maintenance should be maintained. Electrical audit may be carried out periodically once in six months by a competent electrical engineer.

10. A dedicated/isolated storage shed for storage of ammonium nitrate is desirable which should be independent from storage sheds of other raw materials/products as far away, from fuel oil storage facility and boilers, as possible so as to avoid chances of its contamination with fuel oil or any other carbonaceous material. The flooring of the ammonium nitrate storage shed should not be bituminized / made of tar. In storage of Ammonium Nitrate all electrical lights/fittings inside shed should be of concealed type or in conduit. Ammonium Nitrate bags shall be free from combustible materials, spilled oil. Used Ammonium Nitrate Bags and Oily Rags should never be allowed in the Ammonium Nitrate storage shed / area and these should be disposed off safely. Ammonium Nitrate area shall be totally clean and all precautions should be taken against any contamination / fire.
11. Ammonium Nitrate stocks in the plant should not exceed the capacity of the storage shed / area after leaving sufficient space for movement of men and the stocks.
12. Similarly dedicated and closed/lockable storage shed for sodium nitrite should be provided and adequate /proper care is to be exercised to ensure that the sodium nitrite bags are not mistaken by workers as ammonium nitrate bags while handling/ loading the same.
13. Standard Operating Procedures for each operation should be displayed at the operating location.
14. Employ Competent Person certified by Chief Controller of Explosives, Nagpur as required under rule 11.
15. Repairing/welding/maintenance work using naked flame or hot work shall not be done near Ammonium Nitrate / Fuel Oil storage area / loaded BMD Vehicle inside the support plant.
16. Explosives van loaded with explosives shall not be parked / stationed in the license premises of SME Plants.
17. Explosives van should be loaded only at the magazine of consigner and unloaded from the van at the magazine of the consignee. Details of Explosives transported should be maintained in Form RE-6 and should be available in the van for production on demand by inspecting authorities.
18. No Explosives shall be removed from the magazine for transport for purpose of sale without receiving indent in form RE-11 from the consignee. Consignee has to give indent strictly as per the license capacity available in the magazine.
19. An experienced and qualified / trained safety officer should be entrusted to oversee all aspects of safety in day to day operations.
20. Awareness programmes shall be conducted by the manufacturers to emphasize observance of statutory requirements in safe handling, storage, transport and use by the consignees / dealers / users.

You are requested submit your report on the status of compliance of above guidelines / requirements within 30 days.

Please acknowledge receipt.

[P.B.Yedla]
Chief Controller of Explosives,
Nagpur.

Copy to All Circle/Sub-Circle offices and DTS:

They are advised that inspection of explosives manufacturing premises should focus on safety features installed in manufacturing plant, SOP, trained man power, safety management plan and disaster management plan besides compliance to other relevant rules. A schedule for inspection of all SME Plants/Manufacturing Units within their jurisdiction may be prepared and proper follow up action be taken. In case of serious deviations letters may be addressed to the Chief Controller of Explosives by name for necessary action. They are also advised to conduct awareness programme for implementation of statutory requirements and safety in the industry.

Chief Controller of Explosives