



Let us grow together

Presentation on Disaster Management and Mutual Aid Response



By
P.C. Patnaik,
DGM (HSE)

Rashtriya Chemicals & Fertilizers Ltd. Trombay Unit.

Rashtriya Chemicals & Fertilizers Ltd.



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- Established in 1964 as FCI and later reorganized Mumbai Operations as "Rashtriya Chemicals and Fertilizers Ltd" in 1978.
- Manufacture and marketing of fertilizers (Nitrogenous & phosphatic), Specialty fertilizers, Bio -fertilizers & Micronutrients and Industrial chemicals, Industrial gases, Building materials.
- Accreditation of Unit with ISO 9001/ISO1400/OSHAS 1800 Standard (since 2001).
- Among the top ten Public Sector Units credited with Mini Ratna Status by Govt. of India.
- One of the largest integrated Fertilizer and chemical complexes in India.
- Two operating units: Trombay Unit, Mumbai and Thal, Dist. Raigad in State of Maharashtra.
- Market share of 12 % in Nitrogenous Fertilizer (Urea) and Phosphatic Fertilizers in India



RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED



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Capacity of TROMBAY

Production Units

1. Ammonia – 1045 + 350 MT/D
2. Nitric Acid – 750 + 350 MT/D
3. Urea – 1000 MT/D
4. Suphala – 1500 MT/D
5. ANP - 1500 MT/D
6. Methanol – 242 MT/D
7. Methyl Amines – 12 MT/D
8. Ammonium Bi-carbonate - 52 MT/D
9. Sodium Nitrate - 12MT/D
10. Sulphuric Acid – 350 MT/D

Capacity of THAL

Production Units

1. Ammonia- 3500 MT/Day
2. Urea- 6120 MT / Day
3. Steam Gen. (2+1) x 275 MT / Hr.
4. Dimethyl Formamide- 2500 MT / Year
5. Methyl Amines- 11400 MT/Year
6. Dimethyl Acetamide- 5000 MT / Year
7. Carbon Monoxide- 1200 M3 / Hr
8. Formic Acid- 10000 MT/ Year
9. Argon- 45 MTPD
10. HWP- 110 MT / Year

Potential Emergencies, Response & Precautions in manufacturing process



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Sl. No	Hazardous Activity Areas	Concerns	Emergency	Mitigation Measures (Major Actions Required)	Level
1.	Ammonia Plant	Ammonia leakages	Failure of import or export Ammonia transfer line to plant or Atmospheric Ammonia Tank	<ul style="list-style-type: none"> ➤ Immediately isolate at ammonia plant and consumers side isolation valves and quick acting valves. ➤ If required shut down synthesis section safely. ➤ Immediately ask for help from fire brigade and safety department. Inform other surrounding plants/personnel. ➤ Till fire personnel reach at site spray ample quantity of water over affected areas. ➤ Remove unwanted people from the area. ➤ complete activation of On-Site Emergency Plan. ➤ Also ensure activation of Off-Site Emergency Plan. 	Operations Manager (Head of Plant)/ HOD ↓ Deputy General Managers ↓ General Managers/ Chief General Manager ↓ Executive Director (Trombay)(Occupier)
			Uncontrolled escape of liquid ammonia due to major failure of Road/Rail Tanker:	<ul style="list-style-type: none"> ➤ If possible, isolate tanker valve and simultaneously isolate at storage area and at other places, if required. ➤ Immediately ask for help from fire brigade and safety department. Inform other surrounding plants/personnel. ➤ Till fire personnel reach at site spray ample quantity of water over affected areas. ➤ Remove unwanted people from the area. ➤ Ensure complete activation of On-Site Emergency Plan. ➤ Also ensure activation of Off-Site Emergency Plan. 	-do-
			Rupture of liquid ammonia filling connection of Rail/Road Tanker loading pipe	<ul style="list-style-type: none"> ➤ Isolate wherever required. ➤ Immediately ask for help from fire brigade and safety department. Inform other surrounding plants/personnel. ➤ Till fire personnel reach at site spray ample quantity of water over affected areas. ➤ Remove unwanted people from the area. ➤ Ensure complete activation of On-Site Emergency Plan. ➤ Also ensure activation of Off-Site Emergency Plan 	-do-

Potential Emergencies, Response & Precautions in manufacturing process



Sl. No	Hazardous Activity Areas	Concerns	Emergency	Mitigation Measures (Major Actions Required)	Level of Persons
2	5000 X 2 MT atmospheric storage tank (anhydrous ammonia)	Toxic gas leakages	Catastrophic rupture of tank due to any reason:	Immediately stop supply of ammonia to and from storage tank. If required all plants may be required to shut down. Remove unwanted people from the area. Ensure complete activation of On-Site Emergency Plan. Ensure activation of Off-Site Emergency Plan.	-do-
3	Ammonia-V	Toxic gas leakages	Failure of export Ammonia line to plant and ammonia storage:	Trip synthesis gas compressor and refrigeration ammonia compressor to stop ammonia production. Isolate let down vessel, flash-vessel. Close battery limit valves on liquid ammonia line. Inform Fire Department/Work Manager. Take safe shut-down of other sections.	-do-
		Toxic gas leakages, major fire and explosion	Complete failure of synthesis loop and subsequent toxic release and major fire and explosion:	Trip Methanator, Syn. Gas Compressor and Refrigeration Compressor. Trip Primary Reformer & take safe shut down of plant. Isolate battery limit feed, fuel and liquid ammonia line isolation valves.	
		Toxic gas leakages	Rupture of Ammonia separator V-501 subsequent toxic release	Trip Methanator, Syntheses Gas Compressor and Refrigeration Compressor. Trip Primary Reformer and other sections to take safe shut-down. Isolate battery limit feed, fuel and liquid ammonia line isolation valves.	-do-
		Toxic gas leakages	Rupture of let down tank V-502 subsequent toxic release	Trip Methanator, Syntheses Gas Compressor and Refrigeration Compressor. Trip Primary Reformer and other sections to take safe shut-down. Isolate battery limit feed, fuel and liquid ammonia line isolation valves. Isolate O5-LIC-4 and let down vessel outlet isolation valve.	-do-
		Toxic gas leakages, major fire and explosion	Rupture of Synthesis converter out let lines subsequent toxic release and major fire and explosion:	Trip Methanator, Syntheses Gas Compressor and Ammonia Compressor. Trip Primary Reformer and take safe shut-down of other sections of the plant. Close Battery limit isolation valves on feed, fuel and liquid ammonia lines.	-do-

Potential Emergencies, Response & Precautions in manufacturing process



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Sl. No	Hazardous Activity Areas	Concerns	Emergency	Mitigation Measures (Major Actions Required)	Level of Persons
4.	Methanol	Explosion	Explosion of Reformer	Trip Reformer and depressurize by opening PRC-253. Keep steam on for few minutes. Take safe shut-down of other section. Close battery limit isolation valves of fuel and feed. Cut-off gas supply from Associated Gas Compressor	-do-
		Explosion	Vapor cloud explosion of Synthesis Converter:	Trip Synthesis Section, Synthesis Gas Compressor. Trip Reformer and other sections to take safe shut-down. Isolate battery limit feed, fuel line isolation valves. Inform Fire Department/Works Manager.	-do-
		Toxic gas leakages, fire	Failure of fittings of filled Methanol tankers	Inform Fire Department. Operation to empty out the tanker to Crude tank to be started.	-do-
		Explosion	Reformer explosion due to failure in burners or any other reason	Trip Reformer and depressurize by opening PRC-253. Keep steam on for few minutes. Take safe shut-down of other sections. Inform Fire Department. Close FIC-113, FIC 114 from panel. Ensure all interlock actions have taken place in field. Close main isolation valve of feed and fuel lines and B.L. isolation valve. Cut-off feed gas from Associated Gas Compressor/ RLNG station.	-do-
		Toxic gas leakages, fire	Failure in MUG Compressor with escape of CO and Hydrogen in large quantity	Unload and depressurize Compressor from panel and depressurize synthesis loop from panel too. Open PRC-253 to hot flare stack from panel. Trip the Reformer. Purge with the available N ₂ /CO ₂ and attend the leakage/failure	-do-

Storage & Handling of Hazardous Substances & Flammable Chemicals



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Name of Chemical	Quantity (max.) Stored (MT)	Storage method and mode	Pollution Control System	Nature of Hazard
Ammonia	5000 X 2	Double wall, Double Integrity Atmospheric Storage Tanks	Purge Gas recovery	Corrosive, Toxic, Flammable when confined
Methanol	5000	Fixed Conical Roof Cylindrical Tanks with drencher system	Tail gas flare	Flammable and Toxic
Methylamine (Anhydrous)	242	Vertical Pressurized Cyl Storage Tanks with relief valves	Scrubber + Flare	Flammable, Toxic Corrosive
Nitric Acid	2540	S. S. Tank (Cyl) with dyke	Selective Catalytic Reactor	Corrosive
Conc. Nitric Acid	300	Vertical Cylindrical Aluminium Tanks with dyke	Absorbers + Tail gas scrubber	Corrosive
Sulphuric Acid (68 %)	1500	Vertical Cylindrical FRP Lined Tanks	DCDA, Caustic scrubber	Corrosive
Conc. Sulphuric Acid (98 %)	3200	Vertical Cylindrical Carbon Steel Tanks	-do-	Corrosive
Phosphoric Acid	600	Cylindrical Rubber Lined Tanks	Scrubbers	Corrosive
Ammonium Nitrate (80 % Solution)	300	Cylindrical S. S. Tanks	Scrubbers	Oxidizing

Phases of Disaster

- Mitigation
- Planning/Preparedness
- Response
- Recovery

Preparedness

- During an emergency, help may not be available immediately.
- Community preparedness starts with the individual.
- Preparing reduces anxiety.

Why Have An Emergency Plan



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- **TO AVIOD LOSS , INJURY,MINIMISE IMPACT OF DAMAGE**
- It is an Important element of EHS management
- To Identify and eliminate potential emergencies
- To Identify organizational weaknesses
- To Address Business risks of inadequate response
- Promotion of EHS
- Demonstration of commitment
- To meet Legal requirements .

Statutory requirement

- After Bhopal disaster in Dec. 1984 the Govt. of India took series of steps for disaster management and Statutory requirement came in force same are included in following acts and rules by amendments
- The Environment Protection Act, 1986.
- Amendment in Factories Act 1948 In December, 1987.
- Public liability Act 1991
- Manufacture, Storage and Import of hazardous chemicals rules, 1994(amendment)
- Rules on emergency planning preparedness for chemical accidents 1996
- Disaster management Act 2005

FUNCTIONS OF MAIN CONTROL CENTER



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- **Authorizing field actions.**
- **Arranging external resources**
- **Vital decision of evacuation.**
- **Technical guidance including shutting down of plants.**
- **Authorizing Press statements issued to press.**
- **Communication to higher-ups.**
- **Information to statutory bodies.**

Mock Drill Exercise



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Objectives



- ✓ To ensure efficiencies of emergency response.
- ✓ To Synchronize action of all the coordinators.
- ✓ To train the employees
- ✓ To gain experience and confidence
- ✓ To validate the plan
- ✓ To check the time response
- ✓ To plan refinement & updating of procedure



*Mutual Aid Response Group
Chembur Trombay*

Mutual Aid Response Group

Chembur – Trombay



*Mutual Aid Response Group
Chembur Trombay*



Activities of MARG



Seminar, Trainings and Activities:-

- Seminar on Chemical Hazard & Preparedness (March 2010)
- Workshop for First responders (April 2011)
- Workshop for Police & Fire brigade (April 2011)
- Training program on Annual return filing for welfare officers by Factory Inspector(Jan 2011)
- Civil Defense training program for MARG (Aug 2011)
- Workshop on Best Practices in Fire Protection (Jan 2012)
- Community Awareness : Demo by Civil Defense at Gavan Village (20/3/2012)
- Workshop on Case Studies for First Responders (22/3/2012)
- Drawing competition for the students of the schools near Chembur -Trombay region held at Nutan vidhalaya Anushaktinagar on 09/02/2014, witnessed by Guardian Minister and Directors of DISH.
- Awareness program for MARG Members on 17th April, 2014.
- Cricket Match for MARG members on 01st May, 2014.

Community Awareness





Recent Activities



- **Signing of MOU for Tier-1 Oil Spill response at Mumbai port (Mar 2011)**
- **Participation in DRMMP (Disaster Risk Management Master Plan of BMC) preparation.**
- **Updation of Green Book in Jan 2011**
- **Coordination with Mumbai Police on contingency plans and preparedness towards terrorist attacks.**
- **Participation on 'Tatpar Mumbai: Alert Mumbai' exhibition on Disaster Management by BMC (26 & 27 Feb 2010)**
- **Fire Hose Drill competitions for MARG on 18/4/2011**
- **Fire Hose Drill competition during Fire service week held at HPCL on 10/04/2014.**
- **Workshop for FIRST RESPONDERS OF MUTUAL AID GROUP MEMBERS at BPCL Mumbai Refinery was held on dated 21.3. 2014**

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Recent Activities



- **Emergency response**

- Fire at ONGC Trombay terminal : 11/3/2010
- Chlorine leak emergency at Mbpt Haji Bandar : (14/7/2010)
- Xylene Tanker accident at eastern express highway (17/8/2010)
- Fire at Old Pirpau jetty of MbPT : (7/4/2011)
- Fire at New Pirpau Jetty (17/3/2012).
- Mantralaya Fire

- **Mock Drills (previous quarter)**

- Mock drill at RCF on Ammonia Leak
- Mock drill at BPCL on ATF tank emergency
- Mock drill at HPCL on Crude Tank Emergency

MARG Meeting under Chairmanship of Executive Director, RCF Trombay Unit



Pooling of resources for emergencies

Upgradation of collective capabilities

- **There are Seven Industrial Fire Stations with dedicated fire response teams.**
 - In excess of 300 trained fire fighters
 - More than 15 foam tenders,
 - More than 30 water tenders,
 - ERVs, RRV's, Ambulances etc.
- **With advancement in fire technology,**
 - Should MARG aim at specialised fire fighting equipment?
 - ERV for LPG emergencies
 - HAZMAT response (chemicals)

Community Awareness

- **Currently MARG organises**
 - Street Plays
 - Awareness programs for School children
 - Disaster Management Demonstrations
 - Awareness programs for Driver/Cleaners

MARG Activities

Safety Awareness programme for school children –
view of participants & Prize distribution held on
9.2.2014



Prize Distribution by Honorable Chief Guest
Mr. Nawab Malik

MARG Activities

Safety Awareness programme for school children was organized by MARG & DISH Officials Govt. of Maharashtra on 9th February 2014 at Nutan Vidya Mandir at Anushakti Nagar Mankhurd –Mumbai .



Approach/Escape routes in our vicinity

- **Approach/escape roads available**
 - Corridor Road,
 - BPT road (Toll road)
 - Bhakti Park Road
 - Panjarapole road (under construction)



Modality of MARG Functioning

- **MARG is headed by top executive of participating major industries by rotation.**
- **MARG activities are coordinated through Convener.**
- **MARG do not have charitable/trust registration, hence activities are sponsored by individual industries.**
- **Defined Criteria for being MARG member.**
- **MARG assists for onsite emergencies in participating industries.**
- **In offsite scenario MARG provides technical assistance to Mumbai Fire Brigade.**

Modality of MARG Functioning

- **Review of other MARGs**

- Few MARG (Patalganga, TBIE) maintain ERC.
 - Need felt as local fire brigade coverage not sufficient

- **At Chembur Trombay region**

- Area falls under Jurisdiction of MFB
- MBF well equipped to respond to area emergencies
- Technical support for Chemical/Industrial from MARG
- Industries are well equipped with resources

- **Discussion**

- Need for Permanent Office for MARG

**Together We
Succeed**

Case Study 1: Participation in Mutual Aid response for Turbine Failure & Fire at Tata Power Ltd.



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Unit: 250 MW BHEL unit

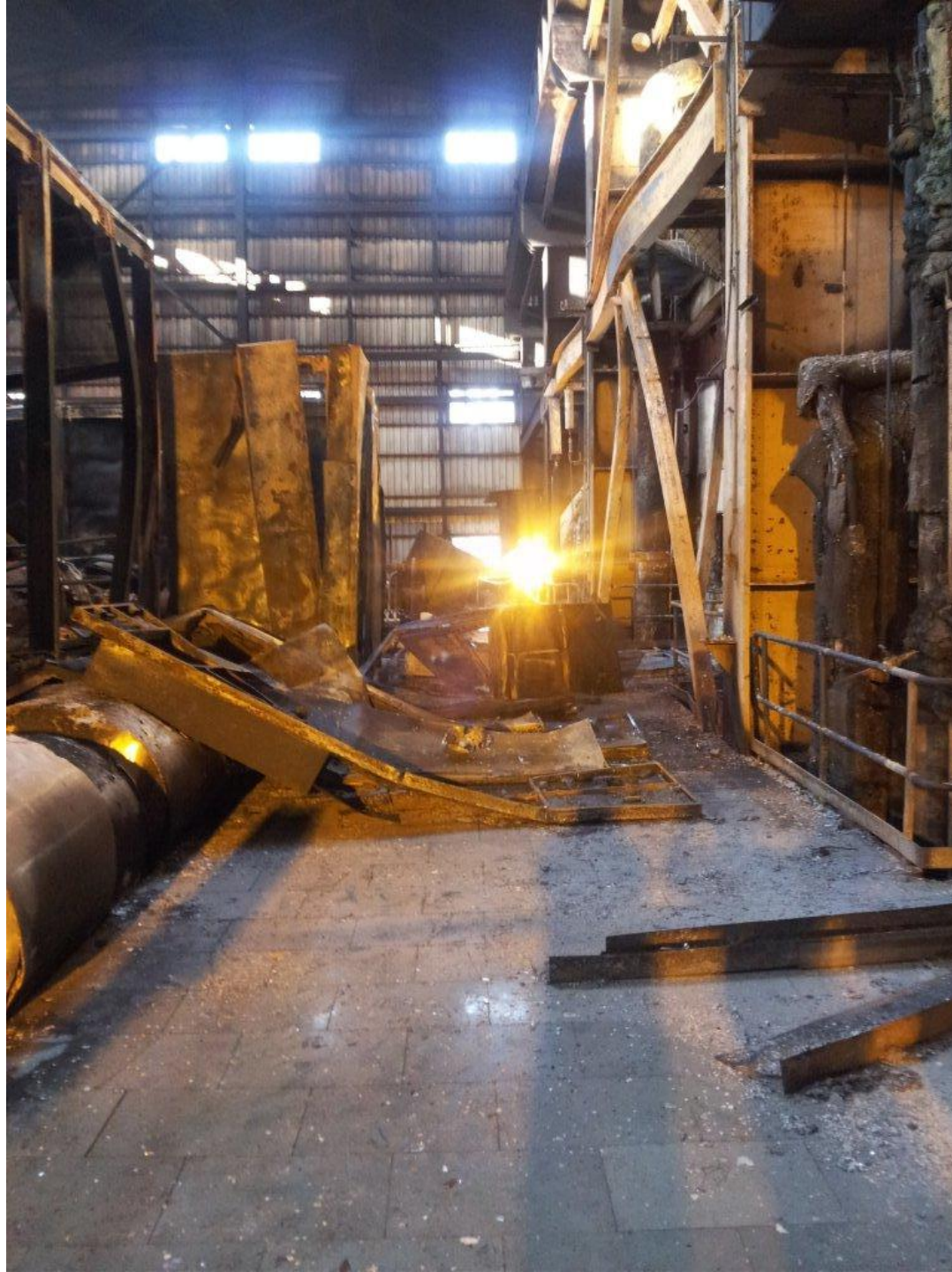
Casualty: Nil

Date: 8 Jan 2014

Time: 22.55 hrs

At one of the Power Stations LP turbine blade failure occurred followed by Hydrogen leak from generator casing and major fire. This led to extensive damage and long outage of the unit. The brief description of the incident based on initial analysis is given in the following slides.







Incident Description

At 22:56:06 LP turbine blade/ blades broke and pierced the casing towards generator end (This was the initial sound as H2 pressure was normal at that time). This led to severe unbalance of the rotor train causing its dislocation eccentrically and towards the generator .

This actuated the over speed protection strikers though speed was normal leading to turbine trip (manual actuation of Turbine trip push buttons was done almost simultaneously). Turbine vibration alarm also appeared. Successively generator and boiler tripped. Turbine came to standstill within 30 sec due to rubbing and loss of lube/ jacking oil.

Incident Description....continued

Dislocation of the rotor caused heavy rubbing in turbine glands and generator seals. Generator seal (towards LPT) got severely damaged and H₂ escaped through the seals. As sparks were already present due to seal rubbing it initiated heavy fire. The explosion thus caused created large opening in TG roof, above HP turbine. Oil leakage caused fire and heavy damage at the bottom of turbine.

Subsequently fire tenders arrived from station and mutual aid members and started firefighting. The area was cordoned off. Fire could be controlled in about 3 hours.

Response of RCF Fire Crew

- RCF Fire station received the call from Tata Power at 23.09 hrs. Dy. Manager (Fire), S/I and fire crew rushed the site.
- RCF Fire crew reached the site at 23.30 hrs .
- Because of Explosion spot fire observed at various location surrounding the TG 3rd Floor.
- As per guidance of Chief Manager (Fire and Safety) Mr. S.V.Kale . RCF fire team took position quickly at the 3rd Floor of TG section.
- RCF Team members were the second to take position after Tata Team at the spot.
- equipped with emergency torch. The fire was controlled by isolation followed by controlled water spray. The situation came under control at around 1.30 hrs.
- Our fire team returned back to RCF Fire station at 02.10 hrs.



TRBGM/RCF-EXT/APPRI/2014/3/RO.
10th January 2014.

*Recd
11/1/14
GM (Technical)*

To.
Mr. Abir Banerjee.
ED (O), RCF
Priyadarshini Building,
Eastern Express Highway
Sion, Mumbai-400 022

*Please convey my
Appreciation to all the
members of fire team for this
prompt and excellent support.
Keep it up.*

*Mr. J. J. Joshi
11/1/14*

Subject: Appreciation for the extended co-operation & support on 09th Jan'2014

Dear Sir,

Major Fire Incidence occurred at TG deck of our U#8 plant on the night of 9th January 2014. Fire was brought under control within shortest possible time only due to your fire team support and cooperation.

We place on record your Fire team's Yeomen contribution in extending their good cooperation during firefighting to mitigate the fire. No injury was reported at site.

Kindly convey our sincere thanks to all your fire team members for their wholeheartedly support our teams.

Thanks for your cooperation & support.

*Heartiest Congratulation to all Fireteam
members for excellent job done. Keep it up.*

*By P. L. Manjrekar (F&S)
Excellent job done.
Keep it up!*

*PLM
11/01/14*

PLM
Mr. P L Manjrekar.
(Head - Trombay Station)

*Recd
11/1/14*

TATA POWER

The Tata Power Company Limited
Trombay Thermal Power Station, Mahul Road, Chembur, Mumbai-400 074
Tel: 91 22 6717 1000 Fax: 91 22 6668 7066 6668 7067
Registered Office: Bombay House, 24 Hornby Road, Mumbai-400 001



राष्ट्रीय केमिकल्स एण्ड फर्टिलाइजर्स लिमिटेड

(भारत सरकार का उपकार्य)

करना सबसे सामर्थ्य की ओर

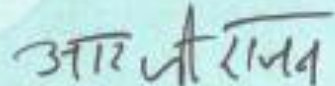
प्रशंसा पत्र

दिनांक 9 जनवरी 2014 को रात 11:45 बजे टाटा पॉवर कंपनी ट्राम्बे के यूनिट-8 संयंत्र में आग की दुर्घटना घटी। इस दुर्घटना की खबर मिलते ही आर.सी.एफ. ट्राम्बे इकाई के सात सदस्यीय अग्निशमन दल ने श्री एस.एस. भोवर, उप प्रबंधक, अग्निशमन विभाग के नेतृत्व में फायर टेंडर एम-03/एएच-3982 के सहित टाटा पॉवर कंपनी के प्रभावित क्षेत्र में तुरंत पहुँचकर अपने अतुलनीय धैर्य और समयोचित कार्रवाई का प्रदर्शन करते हुए आग को पूरी तरह से काबू में लाया।

इस उल्लेखनीय कार्य हेतु अग्निशमन विभाग के श्री प्रशांत सिंह, उप प्रबंधक, श्री डी.सी. गवळी, अग्निशमन अधिकारी, श्री एस.आर.डोगे, वरिष्ठ अग्निशमन प्रचालक, श्री एन.एम. राजपूत, वरिष्ठ अग्निशमन प्रचालक, श्री एस.डी. भट्ट, चालक प्रचालक, श्री एस.जी. तांजणे, कनिष्ठ फायरमन, श्री वाय.एस. ठाकूर, कनिष्ठ फायरमन इस दल को यह प्रशंसा पत्र प्रदान किया जाता है।

प्रबंधन, अग्निशमन दल द्वारा किए गए कार्य का सम्मान करती है। हमारा विश्वास है कि, कंपनी की उन्नति के लिए आपका इस तरह का बहुमूल्य योगदान भविष्य में भी मिलता रहेगा।

26 जनवरी, 2014


(आर. जी. राजन)

अध्यक्ष एवं प्रबंध निदेशक

Case Study 2: Emergency Handling Assistance provided at M/s Kranthi Fire Works, Alibag

On 27.02.14 Major Fire and Explosion occurred at M/s. Kranti Fire Works, Bhaymala, Alibag



Statistics as reported in Maharashtra Times news paper:

- Death Toll-12 persons., Injured- 20 Persons.
- Fire Tenders For Fire Fighting -08 Nos.

Within 10 minutes all factory area covered with fire



Rescue operation & Fire Fighting



- RCF Thal deployed 2 fire tenders along with 12 staff
- RCF Fire tenders were the first to respond and reach the emergency site.
- Under the leadership of RCF Thal rescue operation and fire fighting operations were carried out
- The services offered by RCF Thal Fire brigade were appreciated by District Authorities.

Causes Behind Incident (CBI)

- Workers Residence in factory area
- Manufacturing & Storage is very close.
- Wild vegetation surrounding the Factory
- No Emergency Escape
- Lack of knowledge / proper safety attitude
- Non observance of Safety Rules.

Fire Handling Assistance provided at Maharashtra Govt. Fisheries Office , Alibag

On 11.04.14 early morning 01:00 Hrs Major Fire occurred at Maharashtra State Govt. Fisheries Office, Alibag.



ख.नि. के. वर्ये. म. म. १२
२५/११/१५

जा.क्र. सआम/राय/आस्था/१८६/२०१४
सहाय्यक आयुक्त मत्स्यव्यवसाय,
रायगड अलिबाग यांचे कार्यालय
दि.११/०४/२०१४.

प्रति,
मा.श्री.आर.के.जीन साहेब
कार्यकारी संचालक,
अग्नी.एफ.थळ (अलिबाग)
जि.रायगड

विषय :- अग्नी.एफ. कंपनीच्या अग्निशमन दलाकडून मिळालेल्या सहकार्या बाबत.

महाराज,

अलिबाग येथे सहाय्यक आयुक्त मत्स्यव्यवसाय रायगड अलिबाग कार्यालयास
दि.११.०४.२०१४ रोजी रात्री १.०० वाजताच्या सुमारास शॉर्ट सर्किटमुळे अचानक आग
लागली होती. सदर घटनेची माहिती मिळताच आपल्या अधिपत्त्याखालील आर.सी.एफ.
कंपनीच्या अग्निशमन दलातील जवानांनी तात्काळ घटनास्थळी पोहोचून आग
विझविण्यासाठी शर्तीचे प्रयत्न करून आग नियंत्रणात आणली. त्यामुळे पुढील अनर्थ टळला.

आपण दिलेल्या मौलिक सहकार्याबद्दल आपले व अग्निशमन दलातील जवानांचे
हार्दिक आभार व्यक्त करतो. "धन्यवाद"

आपना

सहाय्यक आयुक्त मत्स्यव्यवसाय,
रायगड - अलिबाग

- The services offered by RCF Thal Fire brigade were appreciated by Commissioner of Fisheries department.
- Appreciation letter to RCF Thal for helping to handle Fire is provided.

→ CM(F/S)
५/११/१५

SCBA training



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Civil Defence Training



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Various Training in 2013-14



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Glimpses of training programmes on PSM, BBS, First Aider, Disaster Mitigation conducted by external faculties.

Promotional Activities



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Road Safety Week- To promote Road Safety week and to inculcate safety culture among our employees, Road Safety week was observed from 1st January to 7th January 2014 in Trombay Unit.

- Inauguration and Pledge on Road Safety on 1st January 2014 at “Suraksha Bhavan” at the hands of ED (Tr).





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Promotional Activities

- To create awareness amongst employees, a safety Skit contest (one act play) for the group of employees emphasizing on the topics of Road Safety/ plant Safety will be arranged on 03.01.2014 at Assembly hall, Training Centre.
- A talk on “Defensive driving” by an eminent faculty was organised on 06.01.2014 at Training Centre



Road Safety Week is celebrated every year in the first week of January. Various road safety promotional programmes are organised during the week.

Promotional Activities



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Fire Service Week – Fire Service Week was observed from 14th to 19th April 2014.

- On 14th April, 2014, GM (M) hoisted the Fire Service flag & administered the Fire pledge to all the employees present on the occasion.
- Various programs and competitions for plants, CISF, Ladies staff and Fire personnel were organized which included Quiz contest, Equipment identification, Rescue drill, Hose running drill, Ladder drill, Hydrant drill, Target Hitting drill, B.A. Set drill and Fire extinguisher drill etc.
- Lecture on “Fire Protection System in AN Melt, Methanol and Ammonia Storage Tank” was conducted by eminent faculty on 17th April 2014 at training centre.
- Closing ceremony and prize distribution programme was held on 19th April, 2014 at Fire Station in the presence of D (T),ED(Tr) & other senior managers.



Fire Service Week 2014 was observed from 14th Apr'14 to 19th Apr'14

Thank You