Message from the President’s Desk:

9th February 2015

The 44th National Safety Day on 4th March 2015 is fast approaching. I am sure you must be preparing to observe this Day in a befitting manner. In this connection I wanted to add that this is also a very important day for ASSE India Chapter, as it started its journey on the same day in Chennai in 2012. Hence annual day celebration of ASSE India Chapter coincides with this event. However, subsequently in a meeting of leadership team of ASSE India Chapter held in 2013 it was decided to shift the annual day celebration to 28th April, coinciding with World day for Safety and Health at Work. Since such formal observance of an important day helps in creating, harnessing and sustaining awareness and interest in Safety, it is advisable to plan these events in such a manner so that best results are obtained, through detailed planning and sincere efforts.

On a different note, I would like to draw your kind attention on the first C (ref. My earlier communication on “3 Cs of Safety”) which is “Collaboration”. Collaboration is a key element in taking our safety journey to an accelerated path and to touch lives large number of people from various walks of life and profession. As we all know, today there are several professions and societal sections which are not under any effective coverage of safety and occupational health services (you may call it as preventive services) where we need to reach out and support. Though collaborative approach with various entities, be it a housing society, school committee, local bodies NGOs etc. We need to spread the OSH awareness at every professional and human level...

Let us do our bit and contribute in OSH collaborative initiative...

Best Wishes,

Krishna Nirmalya Sen,
President, ASSE India Chapter

Content:

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Article on Risk Assessment & Hazard Mitigation Model
Brief on forthcoming National Safety Day / Week
Brief on World Forestry Day and World Water Day
H1N1 (Swain Flu) Prevention Tips
HSE Quiz

Editor’s Corner:

Dear Reader,

We are presenting the 12th Issue of ASSE India Chapter Newsletter.

In this issue we are presenting a different technique of risk assessment and hazard mitigation process that should be useful in Construction related industries. Thanks to Mr. Lahiri for his pains taking effort for compiling a useful model.

National safety day / Week is at our door step. Trust you will enjoy the article that describing the background and objective of the event. Also as a HSE Professional, you will appreciate the information related to World Forestry Day and World Water Day.

Do share with us the report of spirited celebration moments of these days.

Recently several part of the country is affected with Swain Flu. On 12th February Government of Rajasthan declared a swine flu epidemic in the state with about 100 deaths estimated since the start of this calendar year. Hence we have decided to share few basic tips to prevent spreading of this disease (H1N1 Virus) at work place.

Again we are inviting interesting articles on OH&S for publication.

In the eve of forthcoming National Safety Day / Week, let us strive to make our work place free from all recognized hazard.

Warm Regards to all our Readers,

Sandip Mukherjee,
Chair – Newsletter (ASSE India Chapter)
An article on Risk Assessment and Hazard mitigation management model for typical Construction site

Risk Containment and Hazard Square-off

Compiled by – Amitava Lahiri
Manager HSE (L&T Hydrocarbon Engineering Ltd.)
Mail id: alahiri@lntecc.com
Mobile no.: +91-8511625354

Several time we are forgetting our role and responsibility as safety professional and getting confused due unplanned work schedule and most of the time we use to compromise basic safety requirements of the people and at the end we use to depend on our luck.

In general, what is the present trend of Safety Management System of a Company/ Organization in India:

Organization-Type-01: (Safety is being implemented)
Safety Department is available because of requirement of:

a. Client
b. Authority
c. Stringent rules of the local Government

Organization-Type-02: (Safety is being implemented)
Demand of Top Management:

a. When the audits (internal) are coming
b. Third party audit (Before)
c. Any Sr. Management visit at site

Organization-Type-03: (Safety is being implemented)

a. They are not bother about safety of workmen
b. All level of people is concern about the safety of the people.
c. Cost of an accident.

Organizational philosophy: Ask –

• Where we are?
• Which color of organizational philosophy we are being followed

Red value: Fully show based organization culture -NIL value of safety.

Yellow value: understanding the Value of safety but implementation depends on the customer requirements or demand of client.

Green Value: Value of Safety is well known and HSE is being driven by the all level of management equally.

• Whether we can achieve the 100% Green organizational philosophy – Zero Accident.
• Really is it possible??????????????????
• If it’s possible then only because of our luck!!!!!!!!!

What is the probable impact?

Organization-Type-01:

a) Fatality - Serious Injury
b) Hiding the statistics of safety.
c) Receiving the different award based on Severity Rate, Frequency Rate etc.

Organization-Type-02:

a) Skill of hiding the incidents (fully due to the pressure of society) and try to escape from the blaming charge.
b) Doing housekeeping by few workmen.
c) Organizing safety week/ month.
d) Attending client meeting etc.
e) Good in documentation.
f) Good communication skill.
g) All type of legal requirements meets as per the standards.
h) Banner & poster display.

Organization-Type-03:

a) Good in documentation.
b) Good communication skill.
c) All type of legal requirements meets as per the standards.
d) Banner & poster display.

Are we going to get success in Accident Prevention?

Problem description:

So far safety monitoring was depending on the wish of concern of HSE Officer/HSE Manager, Safety Steward, customer demand or physical capability of the concerned personnel and ensuring of safety was depends on concerned execution engineers/ site management wish.

In existing general project culture, how the specific hazard will be addressed for that particular day is not clear.

Whether the hazards are being addressed or not – that also is not sure.

There was no accountability for individual whether the jobs have been completed in safe or unsafe manner for that particular day.

It was very difficult to ensure the above aspects and achieving the project Goal – “Zero Incident!!!!”

Analysis:

The outcome of the thought process revealed that HSE department alone can’t ensure safety for all. It has been accepted that implementation & enhancing our work culture are lying with the front line engineer in support with of higher management. Following are the identical situation:

For the green philosophy of management

• Good systems are available but implementation & monitoring was not up to the level of requirements.
• Generic monthly activity plans are available but it’s not related to the day to day job being performed.
• Owing the responsibility by the front line engineer is a big challenge.
• Lack of inter disciplined communications.
• Sub- contractor management etc. Where the core issues for not able to achieve the excellent even though there was full support of management at every level.

Suggested Solution: “Risk containment and hazard square off philosophy”

The Risk containment and hazard square off concept launched and being followed at site. The main motto of the concept is to involve people and increasing participation of all level of our project people.
Risk Containment Theory
1. Micro Level Planning- Hazard Analysis- Supervision Strategy
2. CAD Area ownership and area certification- Daily Activity plan
3. DPR/DMR –UA/UC Analysis & communication
4. HSE credibility concept - Automated hazard analysis & communication

1. Micro Level Hazard Analysis and Planning
Sample Format

<table>
<thead>
<tr>
<th>SL No.</th>
<th>CAD Area</th>
<th>Scope of Work</th>
<th>Status Engaged</th>
<th>Engaged</th>
<th>S/C Engaged</th>
<th>Departmental Sup</th>
<th>S/C Sup</th>
<th>Available manpower</th>
<th>Work Involved</th>
<th>Hazard Involved</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

Prepared by: HSEO/Planning Engineer
Reviewed by: HSEM/CM
Approved by: CRCM/RCM

2. CAD Area Wise Hazard Analysis
Sample Format

Hazard severity through color coding on Plot Plan sample

HSE Monitoring Strategy
High Risk

<table>
<thead>
<tr>
<th>SL No.</th>
<th>Area/Location</th>
<th>Site Engineer</th>
<th>Name of Safety Person Deployed</th>
<th>Available Manpower</th>
</tr>
</thead>
<tbody>
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</table>

Supervising staff Vs Manpower
Discipline

Hazard Load (Sample format)

HSE Monitoring Strategy
High Risk

<table>
<thead>
<tr>
<th>SL No.</th>
<th>Area Location</th>
<th>Site Engineer</th>
<th>Name of Safety Person Deployed</th>
<th>Available Manpower</th>
<th>Spl. Instruct. If Any</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>
### Daily Activity Plan

<table>
<thead>
<tr>
<th>Name:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
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<td></td>
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</table>

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Activities</th>
<th>Time</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

### DPR/DMR – UA/UC Analysis & communication

**Sample UA / UC Ananysis format**

<table>
<thead>
<tr>
<th>LSTK-1</th>
<th>Site Engineer</th>
<th>Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Details of UA/UC**

**CATEGORY-1 (HIGH RISK)**

1. Safety belt not hooked
2. Safety Chin Strap not used/ Helmet not worn
3. Access ladder not provided
4. Hand railing not provided
5. Life line not provided
6. Body earthing not provided
7. Safety harness not worn
8. Induction card not available with workmen
9. Hook latch is not available in chain pulley block

**TOTAL of CATEGORY-1**

**Non-Compliance in percentage (%)**

**CATEGORY - 2 (MEDIUM RISK)**

1. Face shield not worn during grinding
2. Safety shoe not worn
3. Improper joint in power cable

**TOTAL of CATEGORY-2**

**Non-Compliance in percentage (%)**

**CATEGORY - 3 (LOW RISK)**

1. Hand gloves not worn
2. Goggles not worn
3. Damaged insulation in welding cable
4. Fire blanket not used during welding
5. Fire extinguisher not available in hot work area
6. Tagline not provided for materials handling

**TOTAL of CATEGORY - 3**

**Non-Compliance in percentage (%)**

### UA / UC Ananysis

<table>
<thead>
<tr>
<th>Area / Location</th>
<th>Category of Risk</th>
<th>Name of Eng</th>
<th>Name of Sub-Contractor</th>
<th>Non-Compliance (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA 1</td>
<td>High Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Moderate Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AREA 2</td>
<td>High Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Moderate Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Low Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HSE Statistics

<table>
<thead>
<tr>
<th>Description</th>
<th>AREA 1</th>
<th>AREA 2</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAC</td>
<td>Today</td>
<td>Current Month</td>
<td>Today</td>
</tr>
<tr>
<td>UA/UC High Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UA/UC Medium Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UA/UC Low Risk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No of Engg (STA absentees)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workmen inducted/trained</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No of HSE observation / Action taken</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any other incident</td>
<td></td>
<td></td>
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</tbody>
</table>

### First-aid & Sickness Analysis

<table>
<thead>
<tr>
<th>Types of FAC</th>
<th>AREA 1</th>
<th>AREA 2</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caught in Between</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Failure to follow safety norm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Failure to wear eye protection</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Hit by Object</td>
<td></td>
<td></td>
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<tr>
<td>Nail Prick Injury</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fall of Material</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
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<td></td>
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</tbody>
</table>

**TOTAL| 00 | 00 | 00**

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>Symptoms</th>
<th>No. of cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>RTI/ Fever/ Headache</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>G.I. Disturbance</td>
<td></td>
</tr>
<tr>
<td>03</td>
<td>General Sickness</td>
<td></td>
</tr>
<tr>
<td>04</td>
<td>Abscess/ Dermatitis</td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Oral Hygiene</td>
<td></td>
</tr>
<tr>
<td>06</td>
<td>Low back pain</td>
<td></td>
</tr>
<tr>
<td>07</td>
<td>Others</td>
<td></td>
</tr>
</tbody>
</table>

**Total =**
What is Safety Credibility?
Credibility: In line with the daily micro level planning and hazard analysis (jointly by the HSE & Execution planner) will identify the Zone in respect to severity of hazard involve in particular activity on the said day. The Safety credibility is if how the individual will contain the hazard (with respect to severity) and consequences risks by putting all the designed individual effort (as per OSHA, EMS & Project Specific Standard/Requirement) and change the day with owning the responsibility of all sub-ordinate in to a green / Safe day.

How the individual will accrue the Safety credential points?
100% achievement:
- Working in red hat area and completing the day without
  1. Without UA/UC
  2. Without any incidents
  3. Without any sort of violations
  4. Availability HIRA and STA

50% achievement:
- UA/UC complied after the observation by the Steward
- STA & HIRA availability.

25% achievement:
- Any First Aid Case nil
- In-case of violation memo issued nil.

How the individual will acquire the credential?
Percentage of the achievement (positive or negative credential) will carry forward to their superior account in pro-rata basis, as example: Suppose Mr. X (Section Head)
1. Mr. A (Red Zone Owner)- 80%
2. Mr. B (Yellow Zone Owner)-15%
3. Mr. C (Blue Zone Owner)- 5%

Distribution of credential will be RED ZONE -80%, YELLOW ZONE-15%, BLUE ZONE-5%
- If the risks are not coming in all specified zone, the percentage will be carry forward to the next upward higher potential zone. All together it will be 100%.
- It can be electronically stored data card (like ATM) will be issued to all individual & their individual credibility will be updated in every after certain interval of duration. The same unique credibility card can be used up to end of his service tenure. Whenever required the personal data can be fetched from the credibility card by swapping.

Credible point reduction criteria

<table>
<thead>
<tr>
<th>SL. No</th>
<th>No of Observation</th>
<th>Single Gang Red Hat Zone</th>
<th>Multiple Gang Red Hat Zone</th>
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<tr>
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<table>
<thead>
<tr>
<th>SL. No</th>
<th>No of Observation</th>
<th>Single Gang Yellow Hat Zone</th>
<th>Multiple Gang Yellow Hat Zone</th>
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<table>
<thead>
<tr>
<th>SL. No</th>
<th>No of Observation</th>
<th>Single Gang Blue Hat Zone</th>
<th>Multiple Gang Blue Hat Zone</th>
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| Note | In case of UA obervation if the number of observation is equals to or more than 5 the credential reduction will be 100%
HSE Proactive Philosophy developed based on project requirement

Learning:
It is little tedious but perfect solution of any construction project.
Confidently people can be developed and enhance the work culture by involving themselves at all level of project people from top to bottom.
This system will not be hindrance of the project activities as it is a proactive concept and a outcome of an integrated safety & project management system.

Implication consequences:
- There will lot of improvement observed in respect to unsafe act and unsafe conditions are prevailing at site.
- As the system DPR/DMR enable the site management to take actions against the common violation day to day basis.
- In a spread sheet it is clear to all concerned what are the hazard involved that particular day at their respective areas, accordingly they used to plan and equipped to address those issues to perform the job safely for achieving the satisfaction, confidence as well as safety credibility.
- This can be materialized in terms of safety system management service provider and can generate money in the concept brand name of “- Risk containment and Hazard Square off, philosophy and solution”

Recommended Practices:

Do’s:
- Should prepare the micro plan of hazard analysis daily basis.
- Should involve concerned execution/planning engineer.
- Daily activity plan should prepare by all the concerned HSE staff (Engineer and steward)
- Daily UA/UC observation and analysis
- Daily STA participation
- Daily distribution of safety credible marks.
- Communication of most credible man of the day
- Should reports all type of incidents.
- Enjoy the flow of positive energy through you by satisfaction of visible system improvement

Don’ts:
- Partiality or favoritism during distribution of credible points.
- Be fatigue or bored for preparing the required documents
- Forget to review daily the activity plan vs. micro Level plan at all level.

INDIA CELEBRATING
National Safety Day/Week in India

The National Safety Day/Week Campaign is celebrated in India every year (organized by the National Safety Council) to commemorate the establishment of this event, 4th of March as well as enhance the safety awareness among people. National Safety Council of India is a self-governing body (nonprofit and nongovernmental organization for public service) which was established on 4th of March in 1966 under the Societies Act in Mumbai, having over 8000 members. It is a national movement carried out on annual basis to prevent and lessen the loss of life including various human being problems and their financial loss through availing them with safety, health and environment related support services.

It is celebrated with great enthusiasm to make aware the people about how to get prevented from the industrial accidents by exhibiting widespread safety awareness programs in the public sectors which have not been covered by any safety legislation. During whole week campaign celebration, varieties of specific activities are displayed to the people as per the safety requirements.

National Safety Day/Week 2015

National Safety Day/Week is a whole week safety campaign which would be celebrated from 4th of March (Wednesday) to the 10th of March (Tuesday) in 2015.

National Safety Day/Week Celebration

It is celebrated by uniting together the governmental and nongovernmental organizations including the health organizations and industrial members. They are well supplied with all the centrally designed promotional materials and utilities (badge, stickers, banners, instruction card, poster, wallet, leather belt and bag) printed with SHE slogans and messages by the Council to fulfill the following objectives:
- For the convenience of the campaign organizing organizational members.
- For making sure about the quality materials which should reflect the national SHE issues.
- For generating support to the organizations in order to contribute to the economic self-reliance of the National Safety Council.

In order to organize this campaign, a national level and safe governmental support is given to the members. The campaign is well planned to make it highly visible among the people through the efficient use of an electronic media journals, newspapers and other industrial magazines.

Following national level activities for whole week such as variety of public functions including seminars, debates, poster of safety messages and slogans distribution, essay competitions, safety awards distribution, banner exhibition, play of drama and songs, training programs, workshops, display of films over SHE issues are held during the campaign celebration. Safety Pledge event is carried out by the organizational employees.
Safety activities based training programs are held for the industrial staffs over various topics to carry out their responsibilities very well. During training session they are taught about the testing and examination of pressure vessels, lifting machines, chemical and electrical safety, risk handling and assessment, fire control, first aid knowledge and etc.

**Objectives of Celebrating National Safety Day/Week**

- To take Safety, Health and Environment (SHE) movement to different parts of the country.
- To achieve participation of major players in different industrial sectors at different levels.
- To promote use of participative approach by employers by involving their employees in SHE activities.
- To promote development of need-based activities, self-compliance with statutory requirements and professional SHE management systems at work places.
- To bring into the fold of voluntary SHE movement sectors, which have not so far been statutorily covered.
- To remind employers, employees and others concerned of their responsibility in making the workplace safer.

In summary, the above objectives are part of an overall goal of creating and strengthening SHE culture in workplace and integrating the same with the work culture.

**THEME FOR NATIONAL SAFETY DAY / WEEK CAMPAIGN – 2015**

**ENGLISH**

**BUILD A SAFETY CULTURE FOR SUSTAINABLE SUPPLY CHAIN**

**HINDI**

**SAFETY PLEDGE**

**SAFETY AND HEALTH PLEDGE**

"On this Day, I solemnly affirm that I will rededicate myself to the cause of safety, health and protection of environment and will do my best to observe rules, regulations and procedures and develop attitudes and habits conducive for achieving these objectives.

I fully realise that accidents and diseases are a drain on the national economy and may lead to disabiliy and death, harm to health and damage to property, social suffering and general degradation of environment.

I will do everything possible for the prevention of accidents and occupational diseases and protection of environment in the interest of self, family, community, organisation and the nation at large."

"अब दिन, मैं सर्वश्रेष्ठ परम्परा से प्रत्यक्ष रूप से व्यक्त करता हूँ कि मैं पूरे अपने आप से सुसान, स्वास्थ्य तथा पर्यावरण के रास्ते के प्रति प्रतिकूल विश्वास और निर्मल में अपने तत्वावस्थाओं के पालन-पोषण से अभिवृत्त और उपनिषद का नया जन्म करने के लिए प्रेरित हूँ।"

"मैं सब भाव ग्नान, विश्वास, सत्य, कार्य के नियम तथा धर्म के लिए इस पर्याप्त परिप्रेक्ष्य से, स्वास्थ्य तथा पर्यावरण के अनुप्रयोग का रास्ता करता रहूँ।"

Two other important days is also quietly at our door step in March 2015

**World Forestry Day**

World Forestry Day or International Day of Forests is celebrated worldwide every year on 21st of March at the international level in order to increase the public awareness among communities about the values, significance and contributions of the forests to balance the life cycle on the earth.

**World Forestry Day 2015**

World forestry day 2015 would be celebrated on 21st of March, at Saturday.

**History of World Forestry Day**

The World Forestry Day was established in the year 1971 at the 23rd General Assembly of European Confederation of Agriculture. And it was decided to be celebrated as an annual event celebration on 21st of March by the United Nations Food and Agriculture Organization. World Forestry Day was established in the Conference of States members of Food and Agriculture Organization by voting to establish it. This event was originated in well planned manner to give support in contributing towards the public awareness about the importance of the forests.

International Day of Forests was first established in the year 2012 on 28th of November to be celebrated on 21st of March every year by the decision of the United Nations General Assembly by uniting the two international commemorations; the World Forestry Day and Forest Day.

Like other branches of the agriculture, forestry is also an important field which requires the public attention to be taken. It is very necessary for the common public to understand the forest value in our daily lives as a raw material source, local employment source as well as the national income source. Forests plays great role in gathering and releasing the water on the earth and maintain the flora and fauna habitat balance. Forests are the natural beauty on the earth which is very necessary to be conserved to go everything in balance.

**How World Forestry Day is celebrated**

World forestry day is celebrated every year by visiting the local forests in order to learn more about their contributions towards the well-being of people. The countries which are the forest-rich (occupying almost 2/3 of total forested area) includes Canada, the Russian Federation, Brazil, the United States, Democratic Republic of Congo, Australia, Indonesia, China, Peru and India.

Almost 1/3rd of all the forests are considered as the primary forests where no any human activities are seen and the ecological processes are balanced. Around 6 million hectares of the forests are getting lost due to deforestation on annual basis.

During the event celebration the tree plantation campaign is encouraged among the common people through many activities. People are the main target of this campaign to get
aware about the serious imbalance of food production and population explosion day by day including the contribution of forests in their lives. They get motivated towards the plantation in the nearby areas as well as stop the deforestation.

The theme of the 2015 International Day of Forests (IDF) is -

**Forests | Climate | Change**

**World Water Day 2015: Water and Sustainable Development**

World Water Day has been observed on 22 March since 1993 when the United Nations General Assembly declared 22 March as "World Day for Water". This day was first formally proposed in Agenda 21 of the 1992 United Nations Conference on Environment and Development (UNCED) in Rio de Janeiro, Brazil. Observance began in 1993 and has grown significantly ever since; for the general public to show support, it is encouraged for the public to not use their taps throughout the whole day. The day has also become a popular Facebook trend.

The UN and its member nations devote this day to implementing UN recommendations and promoting concrete activities within their countries regarding the world's water resources. Each year, one of various UN agencies involved in water issues takes the lead in promoting and coordinating international activities for World Water Day. Since its inception in 2003, UN-Water has been responsible for selecting the theme, messages and lead UN agency for the World Day for Water.

In addition to the UN member states, a number of NGOs promoting clean water and sustainable aquatic habitats have used World Day for Water as a time to focus public attention on the critical water issues of our era. Every three years since 1997, for instance, the World Water Council has drawn thousands to participate in its World Water Forum during the week of World Day for Water. Participating agencies and NGOs have highlighted issues such as a billion people being without access to safe water for drinking and the role of gender in family access to safe water. In 2003, 2006, 2009, and 2012 the UN World Water Development Report was launched on the occasion of the World Water Day.

**2015: Water and Sustainable Development**

Each year, World Water Day highlights a specific aspect of freshwater. Under the theme ‘Water and Sustainable Development’, the year 2015 provides an important opportunity to consolidate and build upon the previous World Water Days to highlight water’s role in the sustainable development agenda.

UN-Water supports the World Water Day campaign and sets the theme each year. At the World Water Week 2014, UN-Water presents the plan for the World Water Day 2015 campaign, which is coordinated by UNDP with the support of WWAP, UNESCO, HABITAT, UNEP, The World Bank and UN-DESA.

Participants will get an opportunity to learn more about the theme of World Water Day, get the latest update on how the international community perceives water’s role in the post-2015 framework and will be invited to get involved in the campaign. In addition, participants will also discover the logo of the World Water Day 2015.


**Share your experience of celebration of National Safety day / Week and other events**

**H1N1 (Swine Flu) Prevention Tips**

Compiled by – Sandip Mukherjee

Recently numerous Swine Flu cases are being reported from several states in India. Hence it has been felt to spread a basic awareness on this viral infection.

**What is H1N1 (swine flu)**

Swine influenza, also called H1N1, swine flu, hog flu and pig flu, is an infection caused by any one of several types of swine influenza viruses. Swine influenza virus (SIV) or swine-origin influenza virus (S-OIV) is any strain of the influenza family of viruses that is endemic in pigs.

**How does the H1N1 virus spread?**

Spread of the H1N1 virus is thought to occur in the same way that seasonal flu spreads. Flu viruses are spread mainly from person to person through coughing, sneezing or talking by people with influenza. Sometimes people may become infected by touching something – such as a surface or object – with flu viruses on it and then touching their mouth or nose.

**9 Steps to Prevent H1N1 at work**

1. Minimize mass gatherings, if possible.
2. Ensure the meeting areas are properly ventilated.
3. Try to avoid shanking hand (till the flu season passes.) Always wash your hands after physical contact with others.
4. Wash your hands frequently with soap and water (for 20 seconds) – or with hand sanitizer.
5. Try not to borrow your colleagues’ mobile phones or extensions, water bottles, pens, etc. Things one to touch frequently (like telephones, computer equipment, etc.) should be kept clean.
6. Avoid touching your nose, mouth and eyes.
7. If you feel like sneezing, immediately reach for a tissue to cover it. If you can’t find a tissue, sneeze into your upper sleeve. Boil your hand kerchiefs daily.
8. Adequate rest, diet, exercises and relaxation helps your body maintain adequate immunity, helping your physical and emotional health.
9. The vaccine used in the 2010 – 2011 flu season will also protect against swine (H1N1) flu.

- And if you happen to catch the bug, stay at home and get medical help. There’s no sense in spreading the virus.
**HSE Quiz**

1. How are entries in the Hazardous Materials Table displayed?
   - A. In order of risk
   - B. In order of quantities being shipped
   - C. In alphabetical order by proper shipping names
   - D. In alphabetical order by brand names

2. While transporting hazardous waste, we should?
   - A. Carry a Uniform Hazardous Waste Manifest in the truck
   - B. Have the word “WASTE” before the name of the material on the bills
   - C. Sign a uniform Hazardous Waste Manifest
   - D. All of the above

3. Hazard Class 3 is –
   - A. Corrosive
   - B. Infectious Substance
   - C. Flammable liquid
   - D. Radioactive

4. What does the yellow portion of a NFPA Diamond and HMIS label represent?
   - A. Flammability Hazard
   - B. Special Hazard Information
   - C. Instability Hazard
   - D. Health Hazard

5. Which of these can be found on a Material Safety Data Sheet (MSDS)?
   - A. Health Hazard Information
   - B. Special Protection Information
   - C. Spill and Leak Procedures
   - D. All of the Above

Watch out the next issue for correct answer

Answers from last issue’s (January / 2015) Quiz: 1 (D); 2 (B); 3 (C); 4 (D); 5 (A)

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Selected articles shall be published in next publication

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