Safety month inaugural function

Safety precautions in workmen habitat

First AID Measures at workplace

Accident Prevention

Housekeeping - A Step Towards Excellence
Focus

The inaugural function of the Safety Month gets a prime coverage in this issue of Hemet. This issue also covers and compiles important EHS related events from each IC including inputs from Water and Effluent Treatment Business Unit.

Interesting articles on accident prevention and housekeeping provide useful insights on how to provide a positive and safe work environment that would in-turn usher in a safe work culture. There is also an article that deals with the safety of workmen in their habitat and tips on how to prevent incidents by ensuring and implementing simple aspects.

Happy reading

A warm welcome to L&T family

Mr. M. Kamarajan - a seasoned professional in Environment, Health & Safety has joined as the Head of EHS for B&F IC.

MK is a Graduate in Mechanical engineering from Madras University, Chennai and brings with him 35 years of vast experience in the field of EHS in L&T and ETA Ascon group. During his earlier stint with L&T he was instrumental in setting up the safety department in the erstwhile ECC Division. The Helmet Magazine welcomes and wishes him all the very best in taking the safety standards to newer heights.

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Accident Prevention

Editor : V. S. Ramana
Editorial team : V. Ramesh Kumar | Gopi Kannan. S
| Ashwin Chand | Mayura. K
| Subha Anand | Shamala Nadendla
Content by : R.N.Tripathy | Mathivanan Palaniappan
| P. Nagarajan | M. Nachiappan
| Shailendra Kumar | Md Quaisar Imam
| Sathyanarayana Seelamanthula
| Murali Krishnan | P.V. Kaliappan
Photography : V. S. Natanavelu
Design & layout : Global Print Design, Chennai
The safety month celebration was inaugurated at HQ on 3rd January 2013 with a flag hoisting function. During the welcome address, Mr. K N Sen, Head HSE HCP, highlighted “target zero” the bottom line in EHS and emphasized the need to travel from “compliance” mode to “excellence” mode as we aspire to be among the top 10 in the Engineering News Record (ENR) list. Relating the association of Safety with CSR he stressed on the improvement of “on-the job” training and competence development at project locations, in parallel with our current efforts in CSTIs. He urged all to reaffirm “Safety as our core value” to take forward the “Safety Cultural Transformation”. Mr. S. Sathyanarayana Head EHS Infra IC administered the safety pledge.

During his inaugural speech, Mr. M.V. Satish Executive Vice President & HEAD - B&F IC, highlighted that safety played a significant role in our business. He mentioned that everyone should develop a positive attitude towards safety, by being the main contributor for our safety cultural transformation.

While sharing the developments of “SurakshaJeet”, he highlighted some of the recent EHS initiatives such as the phasing out of Hydra cranes, Guidelines on worker’s habitat, Online EHS observations, Standard Operating Procedures etc. He emphasized the need for improvement in our safety performance and urged all concerned to put their best efforts for the same. While on the subject, he also advised to exercise “Stop Work Authority” to restrict unsafe practices and mentioned that all concerned should feel empowered to stop such activities.

MVS also highlighted names of major project sites that have achieved significant Loss Time
Injury (LTI) free safe million man-hours and also congratulated various project teams in achieving International awards such as “RoSPA”, British Safety Council, as well as National awards such as “PrashansaPatra” etc. He also mentioned that road safety is a major area of concern in our country and suggested to organize road safety campaigns in L&T and in nearby localities.

In a special note, Mr. S.N. Subrahmanyan Member of the Board & Senior Executive Vice President (Infrastructure & Construction), highlighted the paramount importance of safety in our eco-system and urged business leaders to integrate safety practices in our operations. He highlighted that EHS Engineers cannot be held responsible for safety and it is the responsibility of the team leaders and they must understand this fact and act accordingly. He opined that unsafe practices being observed at sites as well as at offices should ideally be questioned by each and every one. The feeling of safety should be realized by all concerned involved in our operations. SNS mentioned that as a part of “SurakshaJeet” a “Safety Innovation School” is being set up at Kanchipuram to take forward the EHS Initiatives.

Mr. Kumar Shailendra Chief – Environment Health & Safety (EHS) Manager, PT&D announced the events for the month long celebration which includes Road Safety Campaigns, Road Safety Poster Competition among Children, Emergency Response Plan, EHS Quiz Competition, First-aid and CPR, Safety Slogan Competition, Housekeeping Campaign, Fire Drill etc.

While delivering the vote of thanks, Mr. Kumar Narayanan Head HSE TPPC thanked the senior leadership team and all the participants for taking part in this important event. On behalf of all concerned, he reaffirmed the commitment to take the journey forward towards safety cultural transformation.
Message from B&F IC

Seawood overpass project, Mumbai has received the appreciation certificate from the National Safety Council – India (NSCI) under the Construction Awards Scheme 2011.

More than 50 projects of B&F IC have achieved 3 million and more safe man-hours which is phenomenal in the construction sector. Many of our customers have appreciated the EHS performance and implementation at projects and issued appreciation certificates to projects for significant milestones in safe man-hour achievement.

2 days Construction Safety Training programs

A massive drive on training the staff through two days construction safety programme is being carried out in all clusters with a special focus on lateral recruits. We were able to cover more than 1000 staff in these programs since April 2012 and also the feedback of participants is encouraging. Thanks to all concerned HR & EHS team members in organizing these programs. Further effort is being put to cover all the remaining staff in B&F IC.

Scaffolding training

On-job training for workmen on scaffolding has been started and implemented across all projects and more than 5000 workmen were covered in these programs since June 2012. We appreciate the efforts of Mr. B. Mrurugesan, Head - BSBC & team in conducting these programs.

More than 135 certified scaffold inspectors have been trained to inspect the scaffolds. We appreciate Mr. K N Sen, Head EHS, HCP & team for extending their support as faculties & organizing programs for certified scaffold inspectors.

Standardization of Workmen Habitat Facilities

A detailed guideline titled “Workmen Habitat Facilities – Specifications & Minimum Requirements” has been developed and implemented at projects.

The main objectives of this guideline is to,

- Ensure basic requirements are provided in the workmen habitat facilities.
- Standardization of facilities in terms of minimum area requirements, design & construction.
- Drawings, specifications, vendor details along with cost estimates made readily available for facilitating easy implementation.

Restriction in hiring of Old crane & equipment

Cranes & equipment deployed at projects which have crossed their economic life are more prone to accidents. Plant & machinery department has released a detailed equipment age - hiring criteria to restrict hiring and using of old equipment at projects. No hiring can be done in case the cranes or equipment have crossed their economic life as per the guidelines.

Reward system for implementation of SOPs

Cross functional audits are being regularly conducted to monitor the implementation of the Standard Operating Procedures (SOP) developed on the five critical areas based on accident analysis. Various clusters such as Ahmedabad, Hyderabad, Kolkata and Gurgaon have initiated a quarterly EHS Rolling Trophy scheme in order to motivate the project teams for 100% SOP implementation.

Also to ensure that the SOPs are implemented without fail, a daily compliance process has been initiated. A confirmation on compliance of SOPs is being obtained from all projects on a daily basis.

Request all concerned to put joint efforts in implementing the above points for improving the safety standards and performance of B&F IC.

P. Nagarajan
DGM - EHS, Buildings & Factories IC
Here is a telephonic discussion between a Safety Officer (SO) and his boss, the Safety Manager (SM). Hope you enjoy reading this and possibly learn something from the conversation! Don't try to read between the lines and don't start thinking about who could have been the poor SO in the story!

SO: Good Morning sir, I want to tell you about a small incident which happened in our site yesterday.

SM: Yes Mr ........, tell me what happened?

SO: Nothing serious sir, we have taken care of the situation! It was a very minor incident.

SM: I see..

SO: One person slipped from the scaffold plank and he is alright now.

SM: OK

SO: This is just for your information sir.

SM: Fine, anything else?

SO: Nothing sir, everything is going on fine!

SM: So, where was the scaffolding plank?

SO: It was on a duct and the worker need not have used the plank at all sir, he could have used a ladder actually!

SM: On a duct?

SO: Yes sir, a cable duct at 2 m level

SM: You mean he FELL down from that height?

SO: Yes, in fact I called for a meeting of all workmen and told them that if it was from a higher elevation, the injury could have been severe.

SM: That’s very good, but why did he fall down at all? Did the plank topple?

SO: No! He slipped when the scaffolding plank failed!!

SM: You mean the plank BROKE?

SO: Yeah, these subcontractors bring all sorts of materials!

SM: But why should it fail?

SO: It was a damaged one and so it failed

SM: I see, but why should a damaged plank be there at site?

SO: It was kept in a place from where it was not supposed to have been taken by the workers. In fact, I told the workers that they should check the condition of the planks before using the planks (during the meeting which was held after the incident).

SM: My dear friend! The plank should not have been there at all! Either it should have been sent out of the site or should have been cut into pieces, considering the damages! How many more such scaffold planks may be there at site? What is the mechanism we have at site to check the condition of the planks when it is brought into the site? Today it is a scaffold plank, tomorrow something else can also fail; for example, a power tool, if it fails while working and if it causes a shock, people could event loose their lives.

SO: Yes sir (cursing himself for calling his boss)

SM: By the way, what was the thickness of the plank?

SO: It is a standard plank of 270 mm.

SM: 270 mm is its width. I am asking about the thickness.

SO: I will check and confirm sir

SM: What was the length of the plank?

SO: I think it was 4 m.

SM: Where was the plank supported? On both the ends only?

SO: Yes sir
SM: And where was the person standing?
SO: In the middle (wondering why is he being asked such stupid questions??!!)

SM: Do you know what the maximum allowable span for scaffolding plank is?
SO: .................. (puzzled!)

SM: It varies depending on the thickness of the plank!
SO: (Fed up of hearing any more from the boss) Ok sir, I will call you later with all the details.

SM: .......... ?????
SO: Thank you sir and bye!
SM: Okay bye! bye!!

Here ends the story! This is a completely imaginary dialogue and I hope you believe this statement; if this dialogue reminds anybody about any specific discussion you had, please do not ask me how I came to know about that discussion; let me repeat that this is an imaginary discussion!

If it is an imaginary discussion, you may ask what is the purpose of sharing it.

It is only to generate some discussions among our employees! Please think about some answers for the following questions:

- What is your opinion about the safety officer?
- What is your opinion about the safety manager?
- What would you do if you were the safety officer?
- What would you do if you were the safety manager?
- According to you what went wrong?
- What are the learning points / take away from this case study?
- What should be done in order to prevent similar accidents in the future?

You may send your replies to hqsed@intecc.com;
Some of your replies may be published in the next issue of “The Helmet”

I am aware that in our project sites, we are not using wooden scaffolding planks and hence the above situation may not arise! But, remove the wooden scaffold plank from the scene and replace it with the metallic scaffold jolly and instead of “plank failure”, replace it with “jolly tilting”; it will become applicable to us!

In general, we all have a tendency to underplay the seriousness of incidents and we try to give an impression to our managers that everything was/is/ will be under control and it is the workmen who are ALWAYS out to cause accidents!

It is this attitude, which makes us to hide things, cover our failures and to push the truth under the carpet! Let us remember that all incidents (irrespective of the severity of injury) are indicators that something is wrong in the way we manage safety at site and incidents are an opportunity for improvement; hence, let us ENCOURAGE people to report incidents/ near misses, so that we can investigate the same to learn the ROOT CAUSES and take appropriate corrective and preventive actions

Author
M. Kamarajan
Head - EHS, B&F IC
Helmet Congratulates the following sites for achieving THREE Million and more LTI Free Safe Man-Hours

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<tr>
<th>Rank</th>
<th>Project Name</th>
<th>Safe Man-Hours Details</th>
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<td>The Address - Wadhwa Housing Project, Ghatkopar</td>
<td>Million Safe Man Hours, January 2010 to December 2012</td>
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<td>18</td>
<td>Heidelberg Project, Damoh</td>
<td>Million Safe Man Hours, July 2010 to December 2012</td>
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<td>BARC Phase-I Project, Mysore</td>
<td>Million Safe Man Hours, August 2009 to December 2012</td>
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<td>16</td>
<td>Kohinoor Square Project, Mumbai</td>
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<td>Vicat Sagar Project</td>
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<td>JIPMER Ph – II Project, Pondicherry</td>
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<td>14</td>
<td>Vedanta Housing Project, Jharsuguda</td>
<td>Million Safe Man Hours, June 2010 to December 2012</td>
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<td>14</td>
<td>Aneshree cement plant Project, Makhed</td>
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<td>12</td>
<td>Bengal NRI Housing Project, Kolkata</td>
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<td>10</td>
<td>Godrej Housing Project, Kolkata</td>
<td>Million Safe Man Hours, July 2009 to December 2012</td>
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<td>NISER Project, Bhubaneswar</td>
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<td>9</td>
<td>ESIC Hospital Project, Joka</td>
<td>Million Safe Man Hours, November 2009 to December 2012</td>
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<td>9</td>
<td>Manikgarh cement Plant Project, Chandrapur</td>
<td>Million Safe Man Hours, March 2011 to December 2012</td>
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<td>9</td>
<td>ITC Sonar Hotel Project, Kolkata</td>
<td>Million Safe Man Hours, November 2009 to December 2012</td>
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<td>Delhi ONE Project</td>
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<td>Oberoi Exquisite phase-I Project, Goregaon</td>
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<td>9</td>
<td>ESIC Hospital Project, Kollam</td>
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<td>GIFT CITY Project, Gandhinagar</td>
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<td>River View Apartments ph-II Project, Lucknow</td>
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<td>MIOT Hospital, Chennai</td>
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<td>Torrent Pharmaceuticals Project, Dahej</td>
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<td>Mall of India Project, Noida</td>
<td>Million Safe Man Hours, September 2011 to December 2012</td>
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<td>8</td>
<td>Boeing MRO Project, Nagpur</td>
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<td>Million Safe Man Hours, October 2011 to December 2012</td>
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<td>7</td>
<td>Grasim project, Bharuch</td>
<td>Million Safe Man Hours, October 2011 to December 2012</td>
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<tr>
<td>7</td>
<td>BMRCL R3-P1 Project, Bangalore</td>
<td>Million Safe Man Hours, July 2009 to December 2012</td>
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</table>
CESC shopping Mall project, Kolkata
Million Safe Man Hours, July 2010 to December 2012

AIIMS Project, Bhubaneswar –
Million Safe Man Hours, October 2011 to December 2012

Formwork Factory, Pondicherry
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Seawoods project, Mumbai
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DLF Capital Green Project, Gurgaon
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Victory Valley Project, Gurgaon
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DLF-Mico project, Egmore
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Wadhwa project, BKC Mumbai
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CMRL Depot project, Koyambedu
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BMRC R4 Project, Bangalore
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TCS Customer Care Centre, Siruseri
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Million Safe Man Hours, July 2011 to December 2012

Construction of MSIL Proving Ground project, Rohtak
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Renault Nissan project, Oragadam
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COD project, Jabalpur
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IREO Rise project, Mohali
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The Grand Arch Project
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HONDA Ph-II Extension Project, Bhiwadi
Million Safe Man Hours, April 2012 to December 2012

Sahara Star Hotel Project, Mumbai
Million Safe Man Hours, April 2011 to December 2012

Salalah Airport Project
Million Safe Man Hours, November 2012 to December 2012

Buildings & Factories
B&F IC Bagged Prashansa Patra Safety Award & appreciation certificate from National Safety Council, India

Buildings & Factories Independent Company’s South city project, Bangalore has bagged the Prashansa Patra Safety Award and Seawood Overpass project has received appreciation certificate from the National Safety Council – India (NSCI*) under the Construction Awards Scheme 2011. Mr. Kodikunnil Suresh, Honorable Minister (Labour & Employment Govt. of India) presented the award to Mr. C P Prasanna Kumar, Project manager and Mr. Chethan Kumar S, EHS Officer, South City project, Bangalore. The awards were presented in a glittering function at Delhi on 7th July 2012.

*National Safety Council is a tripartite body set up by Ministry of labour, Govt of India in 1966 constituting members from employees, employers & government.

Mr. Kodikunnil Suresh, Honorable Minister (Labour & Employment Govt. of India) presented the award to Mr. C P Prasanna Kumar, Project manager and Mr. Chethan Kumar S, EHS Officer, South City project, Bangalore. The awards were presented in a glittering function at Delhi on 7th July 2012.

National Safety Council’s Appreciation Certificate of Seawood Overpass project, Mumbai

National Safety Council’s Prashansa Purva Certificate of South City Project, Bangalore
The Address Project, Wadhwa Group – Mumbai Cluster

B&F’s The Address Project - Mumbai Cluster has received a certificate of appreciation from client M/s The Wadhwa Group for achieving 18 million safe man-hours during the period January 2010 to December 2012.

Kohinoor Project

B&F’s Kohinoor Project – Mumbai CB&A Cluster has received a certificate of appreciation from client for achieving 15 million safe man-hours.

Vicat Sagar Project

B&F’s Vicat Sagar Project – Hyderabad Cluster has received a certificate of appreciation from client M/s. Vicat Sagar for achieving 15 million safe man-hours during the period July 2010 to December 2012.
ITC Sonar Hotel Project

B&F’s ITC Sonar Hotel Project - Mumbai Cluster has received a certificate of appreciation from client M/s ITC for achieving 9 million safe man-hours during the period December 2009 to December 2012.

Grasim Project – Ahmedabad Cluster

B&F’s Grasim Project – Ahmedabad Cluster has received a certificate of appreciation from client M/s Grasim for achieving 7 million safe man-hours during the period September 2011 to December 2012.

NISER Project, Bhubaneswar – Kolkata Cluster

B&F’s NISER Project, Bhubaneswar – Kolkata Cluster has received a certificate of appreciation from client for achieving 9 million safe man-hours during the period July 2011 to November 2012.

Manikgarh Cement Plant Project

B&F’s Manikgarh Cement Plant Project– Hyderabad Cluster has received a certificate of appreciation from client M/s. Manikgarh for achieving 7 million safe man-hours during the period April 2011 to October 2012.
Imperial Heights Project

B&F’s Imperial Heights Project – Mumbai Cluster has received a certificate of appreciation from client M/s Wadhwa Group Holding Pvt Ltd. for achieving 5 million safe man-hours during the period August 2010 to January 2013.

SNU Dadri Project

B&F’s SNU Dadri Project – Delhi Cluster has received a certificate of appreciation from client M/s. Shiv Nadar Foundation for achieving 5 million safe man-hours.

AIIMS Bhubaneswar

B&F’s AIIMS Bhubaneswar project – Kolkata cluster has received a certificate of appreciation from client for achieving 7 million safe man-hours.

Minerva Project

B&F’s Minerva Project – Mumbai RB&F cluster has received a certificate of appreciation from client M/s Lokhandwala Kataria Constructions pvt ltd for achieving 3 million safe man-hours during the period July 2011 to October 2012.
Two day Construction Safety Programs were conducted between October - December 2012 across various locations and about 368 staff have benefitted from this programme.

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<thead>
<tr>
<th>Date</th>
<th>Name / Subject of the Training Programme</th>
<th>Faculty Coordinator</th>
<th>Duration (days/hours)</th>
<th>No. of Participants</th>
<th>Location</th>
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</thead>
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<td>9-10, Oct 2012</td>
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<td>Mr. R.V. Sudhakar, CEHSM, CNCL</td>
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<td>Chennai</td>
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<td>30-31, Oct 2012</td>
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<td>22-23, Oct 2012</td>
<td>Construction Safety Program</td>
<td>Mr. Hemant Kadu, CEHSM, MBCL RB&amp;F &amp; Mr. V. Bhavani Shankar, CEHSM, MBCL - CB&amp;A</td>
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<td>Chennai</td>
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<td>28-29, Nov 2012</td>
<td>Construction Safety Program</td>
<td>Mr. R.V. Sudhakar, CEHSM, CNCL</td>
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<td>29-30, Nov 2012</td>
<td>Construction Safety Program</td>
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<td>Construction Safety Program</td>
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<td>13-14, Dec 2012</td>
<td>Construction Safety Program</td>
<td>Mr. Sujit Saha, CEHSM, KKCL</td>
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<td>14-15, Dec 2012</td>
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<td>27-28, Dec 2012</td>
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<td>Delhi</td>
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<td>Panvel</td>
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Buildings & Factories

Ahmedabad

Bangalore

Delhi

Kolkata

Chennai

4 Day Certified Scaffold Training programme - Panvel
Health and Safety concerns outweigh religious rights, Court rules!

The European Court of Human Rights (ECHR) has ruled in favour of a hospital employer, who ordered a nurse to remove a Christian Cross she was wearing, on the grounds that it posed a health and safety risk to herself and the patients, she may be handling!

The case in question attracted the media attention last month in UK. In June 2007, after the issue of new hospital uniform with V-necks, Ms. Chaplin was asked by her manager, to remove the crucifix on the chain around her neck. The hospital argued that it may cause harm to her, if a patient pulls on it or it may harm the patient, if it comes in contact with an open wound! Her refusal to comply with the instruction of the manager and her appeal with the Employment Tribunal was rejected, because the hospital’s decision was based on health and safety grounds.

After a failed appeal, Chaplain took the case to ECHR and the judges ruled that health and safety on the wards was of much greater importance and judged that hospital managers to be best placed to make the final decision about clinical safety.

Promoting positive EHS culture-Change in attitude

At the time of my training, I was posted at the DIAL project and was involved in the construction of ASB (Airport Service Building). In the construction team we had an engineer’s team comprising 7 staff including Safety and Quality personnel. While most staff in the team were conforming to safety norms, one engineer used to slight it often by saying “KUCH NAHI HOGA” (Nothing will happen). As a safety person, this attitude was worrying me as the engineer was in-charge for one of the critical activities in the project which is external cladding & façade works. This matter was taken up to the EHS manager who suggested that we present this engineer an award named “MOST SAFETY CONCIOUS PERSON”.

The next day a motivational function was organized and the engineer was awarded in the presence of all Project Managers, Staff and workmen. From the very next day onwards, we could see great changes in his attitude and the manner in which he was assigning jobs to the workmen. The engineer had started to voluntarily take all necessary safety precautions in all his activities. This positive change in attitude came to be true due to the excellent and positive approach of the Safety Manager who instead of simply escalating the violation issue tried to make the engineer realise his responsibility towards a safe work culture. Finally, the issue was also resolved and the construction of ASB Building got completed successfully without causing any injury.

Shivakumar R
EHS Engg, DIAL-ATC Tower Project
National Crime Records Bureau reports reveal that about 77 deaths per day are attributable to Railway accidents in India. Getting hit by a train is almost certain to end life. This underlines the seriousness and emphasizes the necessity to have a safer working environment while working on / near railway tracks.

Analysis of past incidents in Railway construction projects concludes that workers hit by running train while walking on/ crossing railway track as a major contributory cause. Also, it is observed that staff and workmen walking on the track is common violation in Railway projects, which shall be avoided through appropriate safety measures, spreading awareness and strict vigilance.

Let us ensure that:

- All workers are briefed about the potential hazards prior to commencement of work.
- No worker is allowed to stand or walk on track.
- High visibility reflective jackets are used to enhance visibility.
- Flagman is assigned exclusively to check approaching train and to caution.
- No work on track when there is no daylight.
- No shifting of materials across the track.

Safety instructions shall address the psychological factors of workers as well as making the workers understand the train speed Vs reaction time characteristics. It is worthwhile to note that the braking distance of passenger trains is about 1 km, while for freight trains it is about 1.4 kms. Also, workmen shall be made aware that:

- No one should attempt to cross the track when approaching train is in visible range. A number of incidents have occurred wherein the worker trying to cross the track to escape approaching train in UP line got hit by another train coming in opposite direction in DOWN line.
- When workers are nearby railway track and the train is passing by, they have to sit (close to ground) instead of standing. Otherwise the person may be pulled / pushed because of the sudden gust.

Open the Door to Safety: Awareness is the Key!

S. Sathyanarayana
Head - EHS, Infrastructure IC

(Pocket Cards shall be distributed to the workforce after explaining to them about the safety rules)
Helmet Congratulates the following sites for achieving THREE Million and more LTI Free Safe Man-Hours

1. **Kakrapar Atomic Power Project**
   - Million Safe Man Hours, February 2010 to December 2012

2. **Nashik Elevated Corridor Project**
   - Million Safe Man Hours, January 2010 to December 2012

3. **Tapovan Vishnugad Hydel Project**
   - Million Safe Man Hours, May 2010 to December 2012

4. **Punatsangchhu HEP**
   - Million Safe Man Hours, February 2012 to December 2012

5. **Chennai Metro Elevated**
   - Million Safe Man Hours, March 2012 to December 2012

6. **Singoli Bhatwari Hydel Project**
   - Million Safe Man Hours, June 2011 to December 2012

7. **Beawar-Pali-Pindwara Road Project**
   - Million Safe Man Hours, December 2011 to December 2012

8. **Subansiri Hydel Project**
   - Million Safe Man Hours, May 2011 to December 2012

9. **Kattupalli Shipyards Project**
   - Million Safe Man Hours, October 2011 to December 2012

10. **Shrinagar HEP**
    - Million Safe Man Hours, April 2012 to December 2012

11. **Krishnagiri Walaja Road Project**
    - Million Safe Man Hours, December 2011 to December 2012

12. **DMRC – CMC1 Project**
    - Million Safe Man Hours, July 2010 to December 2012

13. **Vizag Vessels Project**
    - Million Safe Man Hours, November 2011 to December 2012

14. **Bharuch Dahej RC Project**
    - Million Safe Man Hours, June 2009 to December 2012

15. **Panskura-Kharagpur RC Project**
    - Million Safe Man Hours, September 2009 to December 2012

16. **BMRC - R3A - Yeshwant to Peenya Elev.**
    - Million Safe Man Hours, April 2011 to December 2012

17. **Ganjbasoda Sanchi RC Project**
    - Million Safe Man Hours, March 2010 to December 2012

18. **Kandla Mundra Road Project**
    - Million Safe Man Hours, April 2011 to December 2012

19. **Forecourt**
    - Million Safe Man Hours, February 2012 to December 2012

20. **Badarpur Faridabad DMRC**
    - Million Safe Man Hours, February 2012 to December 2012

21. **Ahmedabad-Viramgam-Maliya Road Project**
    - Million Safe Man Hours, March 2012 to December 2012

22. **Hosur Krishnagiri Road Project**
    - Million Safe Man Hours, April 2012 to December 2012
One day Behaviour Based Safety (BBS) workshop was organized on 22nd November 2012 at KUA-III & IV ROAD PROJECT to develop Mentors of Behaviour Based safety for working towards enhancing the safety culture. This program organized by Mr. Ramakrishna Rajeev (CEHSM - Jaipur) also included activities involving observing UA / UC at workplace by participants.

Intensive Safety awareness programmes involving Railway Safety officials organized at Panskura Railway project at all locations covering all workers. The awareness programme, co-ordinated by Mr. Kanchan Ghosh, CEHSM – Kolkata, was organized in a professional way by site management and the sessions were interactive. Workmen expressed their keen interest about the proceedings.
Scaffolding Competency Training at Chennai Metro Tunneling project

Scaffolding Competency training was conducted on 26.12.2012 to 31.12.2012 (6 days) for Inspector & Erector categories by third party (Coatsman offshore services Pvt. Ltd., Mumbai). The training session covered Introduction on different components, Use of Scaffold / Handling, Procedure for setup, dismantling or moving the system, Design criteria, material calculation, maximum intended load and load carrying capabilities of scaffold, Nature of scaffold hazards & methods for dealing with electrical hazards and fall protection system, Do’s & Don’ts related to scaffolding and Case studies. The course, based on OSHA standards, comprised of theory & practical sessions followed by written assessment at the end.

Defensive driving training by external agency from SGRP

Since the concept of Defensive driving is significant in road projects, external agencies are deployed across all road projects to spread the awareness among the workforce.

In line with the above, Defensive driving training was organised on 25th Nov ’12 at Samakhiali Gandhidham Road project through external agency – M/s Mishri Road Safety Trainers. All Drivers and operators from SGRP were benefitted by the training program.
Two-day “Construction EHS Requirements” training programme

To raise EHS awareness among execution staff, two-day training programmes on “Construction EHS Requirements” for Line management were organized at different locations.

Participants were exposed to topics like EHS management system, P&M safety, Fire prevention, Material handling, Excavation, Work at height, Formwork, Electrical safety, Traffic management, Environment requirements, Welding, Grinding and Case studies.

<table>
<thead>
<tr>
<th>S No.</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HQ-Chennai</td>
<td>December 11th &amp; 12th</td>
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<tr>
<td>2</td>
<td>Ahmedabad Cluster office</td>
<td>November 2nd &amp; 3rd</td>
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<td>3</td>
<td>Manmad Daund RC project</td>
<td>November 26th &amp; 27th</td>
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<tr>
<td>4</td>
<td>Hyderabad metro rail project</td>
<td>November 5th &amp; 6th</td>
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<tr>
<td>5</td>
<td>Vizag Vessels project</td>
<td>December 20th &amp; 21st</td>
</tr>
</tbody>
</table>
APPRECIATION

Kakrapar Atomic Power Project

Singoli Bhatwari HEP
Annual EHS Trophies were presented by Mr. S.N.Subrahmanyan to motivate the project teams, who are the frontrunners in implementing high standards of Environment, Health & Safety. These awards were presented in the presence of Core Group Members on 10.12.12.

- Mr. I.Chandran receiving the EHS Excellence Award for Kakrapar Atomic Power Project
- Mr. Y.V.N.Sarma receiving the Annual EHS Trophy for DMRC – CMC1 Project
- Mr. Chandrasekhara Rao receiving the Annual EHS Trophy for Kandla Mundra Road Project Team
- KandlaMundra Road Project Team
Mr. M. Pardhasaradhi receiving the Annual EHS Trophy for 10 MTPA TATA RC Project

Mr. M.V. Srinivasa Rao receiving the EHS Excellence Award for Nashik Elevated Corridor

Mr. Annaji Rao and Mr. Chandrasekhara Rao receiving the EHS Excellence Award for AVM Road project

Mr. V. Mahadevan receiving the EHS Excellence Award for Punatsangchu HEP project

10 MTPA TATA Jamshedpur RC Project Team

Ahmedabad Viramgam Maliya Road Project Team

Nashik Elevated Corridor Project Team

Punatsangchu HEP, Bhutan Project Team
Energy Conservation week celebration at Singoli Bhatwari Hydel project

Singoli Bhatwari Hydel project celebrated Energy Conservation week during 14th – 20th Dec ’12. Various awareness programs were organized by the Project Manager Mr. Vinod Kumar and other senior staff to emphasize on maximum utilization of non-conventional energy, to stop idle running of machineries, Electricity saving tips, Fuel saving tips etc.

Infrastructure IC bagged National Safety Council Awards

Prashansa Patra for Tapovan Vishnugad Hydro Electric Power Project

Hon’ble Minister for Labour & Employment, Govt. of India, Shri Kodikunnil Suresh presented the “Prashansa Patra” award to Tapovan Vishnugad Hydro Electric Power Project in a function organized on 7th Nov ’12 at New Delhi. The award was received by Mr. S.D.Vats, Project Manager and Mr. D.N.Singh, EHS Manager of Tapovan Hydel Project Site. This Award is conferred for developing and implementing effective occupational safety and health management systems and procedures and for achieving good safety performance during the assessment period.

Appreciation Certificate for three Infra projects

Three of our projects – Kudankulam Nuclear Power Project, Nashik Elevated Corridor project and 10MTPA Electrified Corridor Project received “Certificate of Appreciation” from National Safety Council in recognition of appreciable achievement in Occupational Safety & Health.
Prohibition of cooking inside the Rooms:

Liquefied Petroleum Gas for cooking: The fuel of the new Generation. Liquefied Petroleum Gas is fast gaining popularity for various uses and mostly used for cooking purpose. LPG is twice as heavy as air and half as heavy as water. It is colourless and odourless; hence an odorant is used to detect leaks and can be smelt by the users. Due to the following advantages the LPG cooking gas has become more popular:

Advantage of LPG Compared to other fuels:

Clean Burning, no soot, burners have a longer life - so maintenance is low, no spillage as it vaporises at atmospheric temperature and pressure, effects of corrosion are greatly reduced, instantly controllable flame temperature, avoids scaling and de-carburising of parts, environmental friendly, fuel with minimal sulphur content and sulphur-free emissions, very high efficiency with direct firing system, instant heat for faster warm-up and cool-down. It is a mixture of Butane & propane.

1) Since all our project sites and staff residences are accessible, domestic cooking LPG gas (14.2kg) BIS approved should be used. Other than the cooking LPG cylinder, no other gas cylinders are allowed inside the workmen habitat and for the domestic usage for staff residences also.

The gas cylinders shall be procured from the authorised dealers only.

2) Hoses, burners and regulators should conform to BIS standard only.

3) Cooking either by cooking gas / electric heater/ pressurised kerosene stoves should be restricted inside the rooms of the workmen habitat.

4) Common mess facilities and kitchen shall be arranged for all the workmen in the workmen habitat.

5) Coke Briquettes can be used for cooking in the common kitchen outside the workmen habitat as an alternative of LPG Cooking Gas.

6) Safety precautions to be taken to prevent electrical hazards:

a) RCBO should be installed with the distribution boards and to be tested by the testing kits once in 15days.

b) No power plug sockets will be provided inside the rooms to avoid cooking by electric heaters.

c) Power plug points (5Amps.) should be provided on the veranda on each room for cell phone charging OR cell charging cord terminals will be provided inside the rooms.

d) No electric heater will be allowed inside the rooms.

e) Additional wiring will not be allowed inside the room.

f) Double earthing shall be ensured for the metallic parts of electrical power distribution system.

7) Fencing shall be provided around the workmen habitat to restrict the unauthorised entry of gas cylinders / electric heaters & electrical cables.

8) Weekly Inspection of the workmen habitat shall be conducted by an inspection team lead by the Project Manager.

9) Daily Inspection of the workmen habitat shall be conducted by the safety stewards.

R.N.Tripathy
Head – EHS, MMH IC
Helmet Congratulates the following sites for achieving THREE Million and more LTI Free Safe Man-Hours

1. Vizag Steel Plant Expansion Project - BF # 3
   Million Safe Man Hours, April 2009 to December 2012
2. Mahan Aluminum Plant (HINDALCO) - Singrauli
   Million Safe Man Hours, December 2010 to December 2012
3. UAIL – Rayagada
   Million Safe Man Hours, July 2011 to December 2012
4. Bhushan Steel Limited Site – Angul (BMH)
   Million Safe Man Hours, July 2011 to December 2012
5. Dhamra Port Project
   Million Safe Man Hours, April 2007 to December 2012
6. Bhushan Steel Limited Site - Angul (M&M)
   Million Safe Man Hours, August 2012 to December 2012
7. Wheel Manufacturing plant at Chhapra
   Million Safe Man Hours, February 2009 to December 2012
8. Can Mill Project Hirakud Site
   Million Safe Man Hours, July 2010 to December 2012
9. Coal Handling Plant for NTPC - Barh
   Million Safe Man Hours, August 2006 to December 2012
10. SAIL-Burnpur Site
    Million Safe Man Hours, February 2010 to December 2012
11. Coal Handling Plant, DVC – Koderma
    Million Safe Man Hours, March 2008 to December 2012
12. NTPC – Simhadri (Vizag) Coal Handling Plant
    Million Safe Man Hours, May 2009 to December 2012
13. CHP-Mahan (HINDALCO), Singrauli
    Million Safe Man Hours, January 2011 to December 2012
14. Civil and Structural works for BALCO, Korba
    Million Safe Man Hours, November 2011 to December 2012
15. NLC Thermal Plant Site, Tuticorin
    Million Safe Man Hours, September 2009 to December 2012
16. Engineering Workshop Limited, Kanchipuram
    Million Safe Man Hours, September 2011 to December 2012
17. JSW - Bellary Site
    Million Safe Man Hours, March 2012 to December 2012
18. Aditya Alumina Lapanga
    Million Safe Man Hours, April 2011 to December 2012
19. Bhilai Steel Plant Expansion Project - BF # 8
    Million Safe Man Hours, August 2010 to December 2012
20. Bhilai Steel Plant Expansion Project - SP # 3
    Million Safe Man Hours, August 2010 to December 2012
21. Pot Super Structure (HINDALCO), Mahan, Singrauli
    Million Safe Man Hours, March 2010 to December 2012
22. HZL (Roaster-V), Dariba
    Million Safe Man Hours, July 2011 to December 2012
23. NTPC- Barh, Phase-II
    Million Safe Man Hours, August 2010 to December 2012
24. JSPL Angul
    Million Safe Man Hours, August 2010 to December 2012
25. DB Power CHP Project, Raigarh
    Million Safe Man Hours, December 2010 to December 2012
BBS Training

Behaviour Based Safety (BBS) and Safety Observation and Safety Contact workshops were organized at CHP - DB power site on 07.11.2012 to develop mentors of behavior based safety for working towards enhancing the safety culture. These programs were organized through expert faculties. A total of 28 staff members from CHP – DB power site and GMR CHP site were participated.

Mock Drill conducted for work at height at Bhilai Steel Plant Site

As part of EHS implementation at site, a mock Drill on work at height and rescue system was organized at Bhilai Steel plant site on 29.11.2012. The mock drill was conducted to check the awareness level among the workmen and the emergency preparedness of the rescue team. Response from the workmen and the rescue team was good & it was appreciated. This type of mock drills will help the entire project team to face any type of real time emergencies.
MMH’s BALCO Korba Project – Hyderabad Cluster has received a certificate of appreciation from the client Bharat Aluminium Company Limited for achieving 8.4 million safe man hours from 03.11.2011 to 03.11.2012.

GMR CHP Project site, Raipur – MMH IC Hyderabad Cluster received the “GCEL Best House Keeping Award” from the Client.

MMH’s BALCO Korba Project – Hyderabad Cluster has received a certificate of appreciation from the client Bharat Aluminium Company Limited for the successful & safe completion of 16000 Mt storage steel alumina silo.
GMR CHP Project site, Raipur – MMH IC Hyderabad Cluster received the “GCEL Best House Keeping Award” from the Client

MMH’s JSPL Angul site – Kolkata cluster bagged the best presentation award in mega leadership Safety summit 2012 organised by the client Jindal Steel & Power Limited on 05.10.12

Mr. A.K. Patnaik – EHS Supervisor at BALCO-KORBA project site received the PRAISE reward for his contribution in safe completion of highly critical dismantling works.

MMH’s JSPL Angul site – Kolkata cluster bagged the safety award from the client, Jindal Steel & Power Limited for best Safety conscious agency.
Safety Exhibition

A two day safety exhibition was organized during the 50th Annual Mines Safety Week at EOL Noamundi Site on 12th and 13th November 2012. L&T EOL Noamundi team exhibited the various Personal Protective Equipments (PPE), safety gadgets and rescue devices. The usage of the PPE’s and other safety devices was effectively displayed and also briefed to all the visitors and the workmen.

New initiatives

Online EHS Observation Module

The main objective of this Online EHS Observation Module is to ensure timely mitigation of the risk identified by the EHS personnel at a particular site and monitor the mitigation efforts so taken.

With the help of EHS Observation Module launched on-line, The BU heads, The Segment Heads & The Cluster Heads can monitor the efforts put in by the project teams in MMH IC jobs in creating a hazard-free working environment.

EHS personnel would be in a position to measure the incident potential as well as analyze the trend of at-risk behaviours at sites and keep the management informed.
On spot appreciation to reinforce positive safety culture

“Green card system to reinforce the positive safety culture”
Started in all the clusters

During the daily site safety inspections the safety conscious workers are given a green card and after the end of every month the workers having five green cards or more will be suitably rewarded.
First AID Measures at workplace

This article is about the provision of immediate care. First aid is the initial care for an illness or injury. It is usually performed by non-expert at site. Certain self-limiting illnesses or minor injuries may not require further medical care past the first aid intervention. It generally consists of potentially life-saving techniques that an individual can be trained to perform with minimal equipment.

Importance of First aid:
- Establish breathing, Circulation & control bleeding

Do's of First aid
- Attend the casualty immediately
- Make the casualty comfortable
- Stop bleeding first
- When there is vomiting turn the victim’s face towards one side
- Transport an unconscious casualty in ¾ face down position

Don'ts of First aid
- Do not waste time-act quickly efficiently and tactfully
- Do not shift patient needlessly, try to give first aid on spot
- Do not give water to an unconscious patient
- Do not allow person to walk if suspected leg or spine fracture
- Do not allow bleeding to go unchecked
- Do not allow people to crowd around the injured person-allow fresh air
- Do not rub the eyes into which something has fallen, splash plenty of clean water
- Do not hesitate to ask for help if you are alone

First Aid is required in case of Burn, Bleeding and Fracture

First aid for Electrical Burn:
- Do not touch the “electrified person” with your hands
- Unplug the appliance or turn off the main power switch
- Try to remove the person from the electrical source
- If it is not a serious burn, rinse the burns with water, and apply a bandage
- Call a doctor immediately and discuss

First aid for Chemical Burn:
- Wash burn area quickly and remove clothing from all chemical burns
- Cover the burn with a thick, dry, sterile dressing and bandage
- Get medical help immediately

First aid for Bleeding (Internal):
- Lay the casualty down with head low
- Keep him/her calm and relaxed
- Do not allow him to move
- Don't give anything to eat or drink
- Don't apply hot water bottles or ice bags to chest
- Shift to hospital as quickly as possible

First aid for Bleeding (External):
- Direct Pressure: Apply pressure directly on wound with hands
- Compress Pressure: Fold a Bandage into thick padding, place it on wound and tie.

First aid for Fracture:
- Rest the injured part
- Compress with thick layer of cotton wool
- Don’t replace if bone fragmented
- Remove clothing over the wound
- Shift to hospital as quickly as possible

Cardio-pulmonary Resuscitation (CPR):
- It is a life saving procedure where every second matters
- It should be done within 3-5 minutes of stoppage of heart and respiration
- Shift the victim to the nearest medical center
- Continue the CPR till the patient is handed over to medical personnel

How to apply CPR?
Patient is lying on hard surface. Apply pressure to the lower half of the chest bone only and not to the ribs of either side. Apply pressure vertically downwards against the vertebral column and not obliquely.

Kumar Shailendra
Head-EHS, Power Transmission & Distribution (Domestic)
Helmet Congratulates the following sites for achieving ONE Million and more LTI Free Safe Man-Hours

1. OMPL MARC, Mangalore
   Million Safe Man Hours, June 2011 to Oct 2012

2. ITC Grand Chola Hotel Project Electrification works
   Million Safe Man Hours, Mar 2009 to Nov 2012

2. 66 kV & 33 kV GIS Substation for NDMC, Delhi
   Million Safe Man Hours, Jan 2009 to April 2012

1. 765 kV D/C Jabalpur Bina Transmission Line
   Million Safe Man Hours, Oct 2011 to Oct 2012

4. IE- Bhushan Steel Limited, Angul, Odisha
   Million Safe Man Hours, Jun 2008 to Nov 2012

4. 4 - RE-Projects, Jalpaiguri
   Million Safe Man Hours, Aug 2009 to Oct 2012

4. 4- MVPDS & SCADA, RSP, SAIL, Odisha
   Million Safe Man Hours, Apr 2010 to Aug 2012

3. 3 - BTTL-Tezpur, Assam (PGCIL) Project
   Million Safe Man Hours, Feb 2010 to Sep 2012

Fire drill

A fire drill was conducted at 2 x 600 MW TPP DB Power project at Champa. 50 persons participated during the program
Environment Health and Safety Passport released by PT&D IC: EHS is journey and it requires continual improvement. In order to maintain the alertness and awareness among staffs and workmen on Environment Health and Safety (EHS) Mr. J.S. Sudarsan Executive Vice President & Head PT&D IC released an EHS Passport during ICMC meet on December 10, at TC-III, HQ Chennai. This passport is a new initiative in EHS & is prepared exclusively for Industrial Electrification & Substation Projects. This booklet contains EHS Policy, Pledge, Personal Protective equipment (PPEs), Welding & Gas cutting, Grinding, Work at Height, Scaffold, Ladder Safety, Working in confined space, Lifting, Cranes, Excavation, Electrical Safety, Fire protection, Hand & Power tools, Vehicle, Plant & Equipment Safety, Material Handling, Hazardous Substances, Housekeeping, Code of conduct, 5 things need to do, Emergency contact No, General Safety Instruction etc. This is completely in pictorial representation and is developed by Mr. Kumar Shailendra, Mr. NRR Kanna and Md. Quaisar Imam.

Site Safety Training Program was conducted at VVTL Project on 03/10/12 by Mr. Joydeep Saha.

Dharamjaygarh SS Jobsite conducted live demonstration on rescue operation in TL by Gotcha Shark Rescue kit & Horizontal life line on 22nd Nov 2012. The demonstration was imparted by M/S- Udyogi. Fitters practiced the rescue operation by using the rescue kit. The training was a successful executed and workmen given hands on practice.
APPRECIATION

6 x 600 MW TPP, Nariyara (C.G) site has received One Million Safe Man hour certificate from Zhang Yutian HSE – Head, SEPCO client

NPCIL, KKNPP Kudankulam (PT&D IC) won Shreshtha Suraksha Puraskar (Silver Shield and Certificate) from NSC-2011 for high standard of Safety performance. Awards were presented by the Hon’ble Minister for Labour & Employment, Govt. of India Shri Kodikunnil Suresh in a function held at New Delhi on 7th November, 2012. Shri Kodikunnil Suresh, Honorable Minister (Labour & Employment Govt. of India) along with Shri V.B. Sant, (Director General – NSC) Presented the awards to Shri R. Banerjee Project Director of NPCIL Kudankulam & to Shri G. Gurujanarathanan (Project Manager) of L&T. Shri R. Balasubramanian Chennai Cluster operations head, Shri Ravikamath of NPCIL, Kudankulam; Shri A. Subramanian - EHS Engineer (KKNPP Project) were present in the award ceremony.
Offsite Electrical Job MRPL Phase-III extension Project received appreciation Certificate for achieving 1.6 million safe man-hours from 04.10.2010 to 30.11.2012. The certificate was received by Mr Ganapathy.G, Project incharge from Shri. V.G.Joshi Group General Manager projects, Shri. B.Sudharshan General Manager projects and Shri. G.A.Swamy RCM-EIL.

On spot Monthly Motivational Programme was organised by Sasan site On 25.12.12 & attractive prize were distributed by Mr. Yogiraj Bharadwaj (PM-Sasan) along with other staff member.

E&I works, NFL Bathinda received a certificate of merit from client M/s National Fertilizers Limited (NFL) for the achievement of 1 Million safe man hours during August 2011 to November 2012. Mr. Sanjay Kumar, Construction Manager received the award from Mr. Ravi Kumar Chopra, DGM (NFL).
Shandong Electric Power Construction No.1 Company (SEPCO) has awarded to L&T (PT&D) the champion award for the safety performance for the 3rd Quarter from July to September 2012. SEPCO has also awarded L&T (PT&D) for the excellent contribution for safety performance 2012. All the awards were given by Mr. Wang Hong, Project Manager, SEPCO TSPL site.

### Training Programme

<table>
<thead>
<tr>
<th>Date</th>
<th>Name / Subject of the Training Programme</th>
<th>Trainer Name</th>
<th>Duration (Days/Hours)</th>
<th>No. of Participants</th>
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<tbody>
<tr>
<td>4-5 Dec 2012</td>
<td>Safety in APDRP Project</td>
<td>Kumar Shailendra, Alok Chatterjee</td>
<td>2 days</td>
<td>26</td>
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<td>8-13 Oct 2012</td>
<td>EHS Capacity Building Training Program</td>
<td>Kumar Shailendra, Krishna Kumar, Alok Chatterjee, Soundarraj GR, Johnson David, Kunal Banerjee, R S Bhadoria (Head EHS- PGCIL), Anud Koul (Head Business Intiative)</td>
<td>6 days</td>
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<td>28-29 Nov 2012</td>
<td>Safety in Industrial Electrification</td>
<td>Kumar Shailendra, Soundarraj GR</td>
<td>2 days</td>
<td>18</td>
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<tr>
<td>20-21 Dec 2012</td>
<td>Safety in Transmission Line</td>
<td>Kumar Shailendra, Krishna Kumar,</td>
<td>2 days</td>
<td>21</td>
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</table>
Accident is the result of any hazards left unattended in any type of industry. Accident is defined as ‘Any unplanned event that results in injury or ill health of people, or damage or loss to property, plant, materials or the environment or a loss of a business opportunity’

Our philosophy is inculcate

All accidents are preventable

No task is so important that the risk of illness and injury to the people or the damage to the environment is justified

L&T Construction has a strong commitment to its philosophy and believes Accidents do not happen but they are caused.

**Systems to Prevent Accidents:**

L&T has implemented IMS Management system in line with the International Standards ISO 9001; ISO 14001 and OHSAS 18001 series. The system has well established procedures on

1. Training
2. Reporting of Hazards
3. Hazard Identification and Risk Assessment
4. Inspection of Equipments, Tools & Tackles
5. Inspection of Workplaces and Camps
6. Compliance with Statutory and Legal Requirements
7. Emergency Response Plan
8. Management Review
9. Corrective & Preventive Actions

The above procedures are the leading indicators for any accidents and are good enough for preventing accidents.

L&T focuses on the Incidental Potential Rate (IPR). The IPR is arrived as follows

\[
\text{Incident Potential Rate} = \frac{\text{Number of Unsafe Acts & Conditions}}{\text{Man-hours Worked}} \times 1,000,000
\]

This IPR value is directly proportional to the number of unsafe acts and conditions. This clearly shows we have to target on the elimination of unsafe acts and conditions. The unsafe acts and conditions are the beginning of any accident.

Now the technology has been developed to register the unsafe acts and conditions through online portal by any of the L&T employees. The online monitoring will give the clear indication and faster action at all levels.

Even though systems are in place the behavioral safety plays an important role in an organization. The attitudinal change to imbibe safety as a habitual way in each of the employee is the foremost task for any organisation. Once the behavioral change takes shape – the success and ‘zero accidents’ follow through

L&T understood this well ahead and to in-built the safety culture among all, it has started ‘Suraksha Jeet’ – a successful mission on the Go. Also it has incorporated ‘Behavior Based Safety’ in its training Curriculum of ‘Safety in Construction’. Now it’s with each one of us to take a self-commitment and make our L&T an accident free company.

S. Anantha Prasanna Venkatesh, CEHSM

*Water & Effluent Treatment BU*
<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Safety Roll of Honour</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Sri Sathya Sai Water Supply Scheme (O&amp;M) - Ananthapur</td>
<td>Million Safe Man Hours, March 2000 to December 2012</td>
</tr>
<tr>
<td>12</td>
<td>Bisalpur Water Supply Project - Jaipur</td>
<td>Million Safe Man Hours, June 2006 to November 2011</td>
</tr>
<tr>
<td>6</td>
<td>Storm Water Drainage Project, Jabalpur</td>
<td>Million Safe Man Hours, October 2010 to December 2012</td>
</tr>
<tr>
<td>6</td>
<td>Barmeer Lift Water Supply Project, SPR-I, Jaisalmeer</td>
<td>Million Safe Man Hours, April 2008 to December 2012</td>
</tr>
<tr>
<td>6</td>
<td>Sri Satya Sai Water Supply Scheme (O&amp;M) – Medak</td>
<td>Million Safe Man Hours, September 2005 to December 2012</td>
</tr>
<tr>
<td>5</td>
<td>KWSP – Kozhikode</td>
<td>Million Safe Man Hours, December 2006 to December 2012</td>
</tr>
<tr>
<td>5</td>
<td>Storm Water Drainage &amp; Reservoir - Paradip Refinery Project IOCL</td>
<td>Million Safe Man Hours, June 2010 to December 2012</td>
</tr>
<tr>
<td>5</td>
<td>Sri Satya Sai Water Supply Scheme (O&amp;M) – Mehboobnagar</td>
<td>Million Safe Man Hours, September 2005 to December 2012</td>
</tr>
<tr>
<td>4</td>
<td>BWSSB - UGD Packages 7A,B,C &amp; 3B, Bangalore</td>
<td>Million Safe Man Hours, December 2011 to December 2012</td>
</tr>
<tr>
<td>4</td>
<td>Underground Drainage &amp; Water Supply Improvement Scheme - Nizamabad</td>
<td>Million Safe Man Hours, March 2008 to December 2012</td>
</tr>
<tr>
<td>4</td>
<td>GNSS – Tadipatri Lift Irrigation Scheme</td>
<td>Million Safe Man Hours, August 2007 to December 2012</td>
</tr>
<tr>
<td>4</td>
<td>BWSSB- W5C, Harohalli</td>
<td>Million Safe Man Hours, January 2009 to December 2012</td>
</tr>
<tr>
<td>4</td>
<td>Hogenikal Water Supply &amp; Flurosis - Mitigation Project Package 5, Krishnagiri</td>
<td>Million Safe Man Hours, July 2011 to December 2012</td>
</tr>
<tr>
<td>3</td>
<td>Nellore Water Supply Improvement Scheme - Nellore</td>
<td>Million Safe Man Hours, February 2008 to December 2012</td>
</tr>
<tr>
<td>3</td>
<td>Nalgonda Underground Drainage &amp; Water Supply Scheme - Nalgonda</td>
<td>Million Safe Man Hours, July 2007 to December 2012</td>
</tr>
</tbody>
</table>
## TRAINING PROGRAMMES

<table>
<thead>
<tr>
<th>Date</th>
<th>Name / Subject of the Training Programme</th>
<th>Trainer Name</th>
<th>Duration (Days/Hours)</th>
<th>No. of Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Oct, 2012</td>
<td>EHS Awareness @ UGD Sites For Workmen</td>
<td>Mr. Venugopal sunkara</td>
<td>3 Hours</td>
<td>210</td>
</tr>
<tr>
<td>12 Oct, 2012</td>
<td>First Aid Training Program For Staff &amp; Supervisors</td>
<td>Mr. N Suresh Kumar - St Johns Ambulance Authorised Lecturer, Hosur</td>
<td>6 Hours</td>
<td>25</td>
</tr>
<tr>
<td>13 Oct, 2012</td>
<td>First Aid Training Program For Staff &amp; Supervisors</td>
<td>Mr. N Suresh Kumar - St Johns Ambulance Authorised Lecturer, Hosur</td>
<td>6 Hours</td>
<td>25</td>
</tr>
<tr>
<td>22 Nov, 2012</td>
<td>AIDS Awareness Program</td>
<td>Mr. Kanda Swamy, Honble Secretary of Red Cross Society - Krishnagiri</td>
<td>3 Hours</td>
<td>430</td>
</tr>
<tr>
<td>26 Nov, 2012</td>
<td>AIDS Awareness Program</td>
<td>Dr. Ravichdran &amp; Mr. Kanda Swamy, Honble Secretary of Red cross</td>
<td>3 Hours</td>
<td>380</td>
</tr>
<tr>
<td>18-19 Dec 2012</td>
<td>2 Days Training Program in Safety In Construction</td>
<td>Mathivanan Palaniappan, S. Anantha Prasanna Venkatesh, Saravan Sarangapani, J Dhayalan</td>
<td>2 Days</td>
<td>23</td>
</tr>
</tbody>
</table>
Storm Water Drainage & Reservoir Project receives trophy for “Best House Keeping” from IOCL – Paradip Refinery Project.

Storm Water Drainage and Reservoir project - L&T WET-BU, Kolkata Cluster has received trophy for “Best House Keeping” from IOCL – Paradip Refinery Project at a function held at IOCL Project office in Paradip, Orissa for the period Q2(2012-13). The award was received by Mr. G. Somasundaram (Project Manager, L&T WET-BU) and Mr.B.K.Sinha (Safety Incharge – Paradip Site) from Mr.M.Vijaywargiya (Executive Director – IOCL Refinery). This is the fifth consecutive time that the site is winning this trophy. The site has won trophies consistently earlier for the contests held in the previous four quarters.
Housekeeping- A Step Towards Excellence

The Storm Water Drainage and Reservoir project site won Best Housekeeping awards consecutively for five times from IOCL- Paradip Refinery Project starting from the quarter July’11- Sep’11 to August 12 October 12. It is an outcome of commitment and consistent effort from EHS Dept, and execution team to keep the workplace clean and safe attracting customers rewards and touching excellence in EHS activities. Since the drainage sites are short tenured and well spread throughout the IOCL premises where a number of interface construction activities by other agencies are also carried out. Work sites just near the roads cause space constraint for material stacking and risk of collision with vehicles during movement of site personnels. Providing hard barricading system and quick disposal of excavated soil, safe access and egress in the excavation pits, cautionary safety signs like road closure and diversion, Deep Excavation along the excavations were implemented religiously to overcome such hindrances.

Following strategies were adopted to achieve the goal:

- Before start and end of the job, housekeeping is done and materials are stacked safely at designated places daily.
- Mass housekeeping is carried out weekly at different sites with the involvement of EHS personnel.
- Material stacking, cleaning of garbage bins, water tanks, disinfection activities at office areas, labor camps and construction sites are inspected and documented in the daily housekeeping register.
- EHS Management Walkthrough at sites is conducted weekly involving clients and site management.
- Maintaining cordial relation with the clients, meeting their expectations and site EHS requirements.
- Weekly EHS meeting is conducted involving section in-charges and site engineers with power point presentation of safe and unsafe activities carried out at sites with follow-up for ensuring its compliance.
- Reward is given to best EHS conscious workers/supervisors/site engineers for their safe and best housekeeping performance in monthly safety day celebration.
- Housekeeping banners with photos of housekeeping activities and slogans are displayed at sites.
- Housekeeping team constituted for labour camp, office areas and different sites inspected by EHS Dept. along with time office personnel and site engineers with checklist.
- A good garden with flowers and Tulasi in front of site office.
- Diesel storage with secondary containment and providing drip trays at the D.G. setsto arrest the leakage oil.
- Storage of compressed gas cylinders and usage of cylinder trolleys at sites.
- Preparing waste disposal plan and it’s implementation through disposal of food, garbage, P&M waste and scraps (Tor Rod, HDPE, Empty Cement Bags etc), through approved vendors.
CROSSWORD PUZZLE

CLUES

Left - Right

1  Taking _______ shall result in accidents. Clue – u take this to reach faster
2
3  _______ all tools and tackles prior to using the same
4  This miss is not quite an accident
5  _______ is the first process in risk assessment (word in plural)
6  This is prepared after investigation of an incident
7  A missing guard/handrail is classified as an unsafe _________
8  Leaving material on the ________ could become a trip hazard
9
10

Top - Down

1  Who will you notify immediately in case of a near miss
2  ________ employees shall only be engaged in high-risk work areas
3  Hazardous areas are indicated by using these
4  88 % of accidents are caused by unsafe _________

Please send your answers to HQSED@LNTECC.COM. Winners will be rewarded with attractive prizes.
Answers will be published in the next issue

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