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Entering Bullet thru Manhole



Do let me know if you find any of the other workers who climbed in there last week



GOVERNMENT OF INDIA
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)
(FORMERLY KNOWN AS DEPARTMENT OF EXPLOSIVES)
FIFTH FLOOR, BLOCK 'A'
CGO COMPLEX, SEMINARY HILLS, NAGPUR - 440 006

M. Anbunathan,
Chief Controller of Explosives,
Tel:2510103

03 October 2006

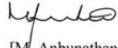
Dear Cdr. Oberoi,

I am immensely pleased to know that **Chetna**, your Safety News Letter is celebrating its first anniversary. Your child has become a toddler and it is indeed a joyous occasion for all of us who have been watching **Chetna** growing from strength to strength. By providing visible leadership through print, you have taken the message far and wide. I would like to say that the format and content of **Chetna** provide an exhilarating experience. My best wishes to the editor and his team for the propagation of safety knowledge and culture



M. Anbunathan
 Chief Controller of Explosives

Yours sincerely,



[M. Anbunathan]

From the Editor's desk...



Safety: A Business Value

You must have heard the famous story about a surgical team not noticing a missing instrument after an operation and sending the patient back home considering him to be on the recovery track, only to realize later when severe problems developed, as the missing instrument had been left behind inside the patient's body. Why such incidents happen even though there are well laid down procedures and checklists, for operative surgical counting? Perhaps it is time to revisit existing practices, and recognize the importance of not leaving procedures and practices to memory or reflexes. We need to learn and relate this incident to our business so that we can guarantee Safety of our LPG installations both internally and to our customers? Neeraj Parashar's article 'Safety Guaranteed' on the First Fill procedure, summarizes how if meticulously adopted, it helps in identifying and correcting defects at

Chetna was launched a year ago and I feel that it has very effectively strengthened our resolve to further improve Safety awareness through sharing, mentoring and coaching.

I must say that with its circulation having increased multifold, it now has much greater potential to create awareness and address multiple issues on Health and Safety

Safety is an important issue within our business unit. Our challenge is to convert this commitment and understanding into partnerships that will demonstrate better safety in the Industry

I thank you all for supporting this initiative and take this opportunity to wish you and your families a very Safe and Happy Deepawali !

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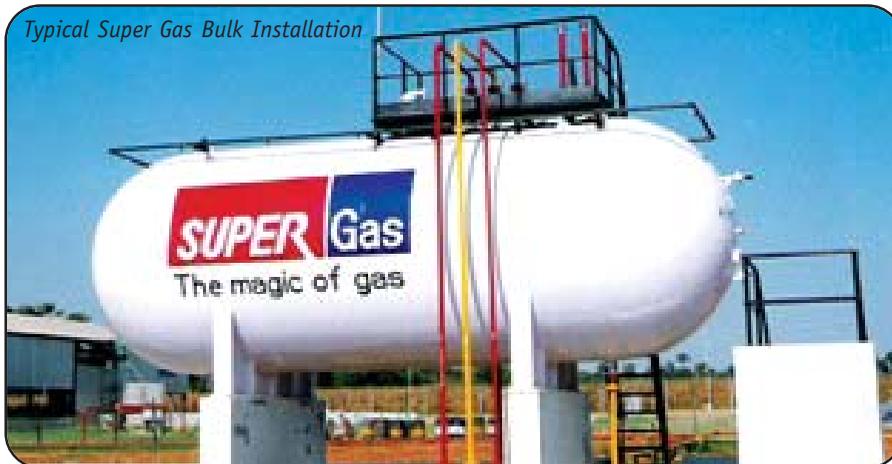
Ajay Kumar
 CEO

Safety v/s Cost of LPG Bullet – An analysis

Bulk Installations with LPG Bullets is a preferred option for large industrial consumers of LPG. While such installations offer a lot of

bullet to their customers. Additionally, the importance of going in for an approved and reputed 3rd party inspection agency, whose role

proliferate over a period of time jeopardizing the safety of the vessel



c) Radiography: The code prescribes 100% radiographic examination to detect any porosity or micro-cracks in weld joints. Although, this is a lengthy and elaborate exercise involving both time and cost, it must be followed entirely and even minor defects noted should be removed

d) Stress Relieving: Stress relieving of the bullets is required to be done, post radiography, to remove any residual stresses formed during the welding operation. If the stress relieving is not done, the residual stresses could lead to defects and ultimately result in the failure of the vessel

e) Hydro-testing: Post stress relieving, the bullets are to be hydro tested at pressure and duration as per code and inspected and approved by the third party approved agency

f) LPG Piping: Seamless LPG piping to SA-106 Grade 'B' is preferred over ERW- C Class due to higher allowable stress values

g) Safety Fittings: Care needs to be taken that proper safety devices like EFCV, Safety Relief Valves, etc of adequate capacity / size are provided on the vessel. Nozzle ends should be ASA 300# rating and flanged ball valves 300# rating are preferred over threaded types to minimize chances of subsequent leakage

The above and other requirements as per the code if fully taken into consideration, justify the initial higher costs and will more than pay back in the long run with increased vessel life and assured safe operations. Compromise on quality and use of improper material, will obviously be a cause for concern during operation and could have disastrous consequences. As users we need to choose between lower costs or a safe installation!

Malay Baiswar
Hyderabad

convenience in terms of ease of handling and operation, ensuring that they meet safety requirements, is very crucial owing to hazardous nature of LPG. Since higher safety is integral with cost, many a times, concerns are raised over the higher cost of installations. This article addresses the key safety features involved in manufacturing of LPG bullets.

involves stage inspection and includes adequate design, design calculations, and ensuring that the right grade of material is used; needs no emphasis.

Some key requirements of the codes are briefly explained below:

a) Plate material for the Bullets: The steel plates used for bullet fabrication should be of grade and quality specified in the code. The manufacturer's test certificate should accompany the supply and the same needs to be inspected and stamped by the third party inspection agency prior to start of fabrication

b) Welders Qualification: Welding is a highly specialized job requiring competent and skilled welders. Therefore such welders are required to pass the 'Welders Performance Qualifications Tests' conducted by third party inspection agency. Any compromise on welder's performance could reduce the quality of weld joints. This may not be obvious immediately but the defects could

LPG bullets constitute a major cost component contributing approximately 25-35% of the installation cost. While the overall requirement for bulk installations is defined by SMPV (UF), Rules 1981, the design code to be followed for the bullets is IS:2825, or other international codes such as PD-5500 (which has replaced BS-5500) or ASME-Sec VIII Div1. These codes specify the design parameters, raw material specifications, fabrication procedure and various inspections and testing required during and after the vessel fabrication stage to ensure a safe vessel. Fabricators need to strictly adhere to these procedures including stage wise inspection, testing, etc to deliver a safe LPG

Vehicle Tracking System

After a trial for almost six months we have recently placed order for a GPRS based system



on TACO MobiApps Telematics, Pune for supply of approximately 100 units for fitment on our cylinder trucks and bulk tankers together with

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the inception stage itself. Further, we especially in Sales sometimes wonder why some of our installations are more expensive than others in the market? Malay's review on 'Safety v/s Cost' unfolds this mystery and how shortcuts in material and testing specifications can impact installation quality and life. In October 2005, we released the first issue of Chetna. The objective was to disseminate important information on Safety internally and to our valued customers. In the last one year we have received overwhelming support and response from you all and would like to thank you for the encouragement. We hope you will enjoy reading this issue as well. As always we will be happy to receive your comments and feedback, to make Chetna the Safety beacon of our business

Cdr A S Oberoi

In today's competitive scenario, the need for improved and timely service has never been greater. Tracking of our bulk tankers and cylinder trucks for addressing the key concerns of logistics can add good value to both our and transporters businesses. In addition to service, Safety is a key concern when transporting LPG in bulk and cylinders. Introduction of restriction and penalties on night driving since mid of year 2005 has yielded good results. Year on year, there has already been a substantial reduction in transportation related accidents. With the introduction of the tracking system, the monitoring and control on safe driving will get reinforced and should further bring down the accident rate

Safety Guaranteed – The ‘First Fill’ Process

‘First Fill’ Check is a mandatory activity for all Super Gas installations that needs to be completed before clearing dispatches of either

concept to completion before its handover to the customer. In other words conduct of a proper ‘First Fill’ guarantees SAFETY at Customer’s

burden especially as others in the market were not so stringent about the norms. I wondered whether this would come in the way of our business and whether the customer will agree to the same. Why is SUPER Gas so strict about Safety? It has really taken us a good amount of time to understand that the beneficiaries of the ‘First Fill’ Safety initiative are both; our esteemed customers and us. It has not been easy but Safety has always won as customers understand that ultimately, adherence to the Safety norms will ensure safety of not only the installation but their entire Factory. From the customer’s point of view, it is important for us to appraise them at the prospecting stage itself, about the requirement of Safety measures. It would be very embarrassing if these requirements come to the fore only at the time of ‘First Fill’ process. This could at times even lead to avoidable stoppage/delay in supplying of LPG as also commissioning of the unit by the customer.

SUPER Gas values SAFETY at Customer’s premises and I am convinced that the ‘First Fill’ process is an activity which will benefit our customers. Let us ‘First Fill’ and be Safe!

Neeraj Parashar
Hyderabad



Cylinder Manifold after ‘First fill’

Bulk or cylinders to a customer for the first time. The objective of this detailed document cum checklist which addresses Safety, Technical, Operational and Statutory requirements is to ensure compliance and record the sequence of events that an installation undergoes from

location. During my early days in SHV, I clearly remember when the ‘First Fill’ process was introduced as one of the actions required for ensuring SAFETY at customer’s location. As more often than not, implementation of safety measures involves costs, I perceived it as a

“Safety Attitude in LPG Business”

Be it business or day to day life each one of us has an attitude on safety...which could be either conscious or careless. We carry this attitude to our work place, home and perhaps pass it on even to our family

Often younger generations misunderstand and equate risk taking ability to courage and bravery. Rash driving as an example puts this in the right perspective. Whilst racing on a track with safety gear, training etc. is with the objective of competition, driving fast on a highway or a city road without knowing when and from where the next vehicle is coming and that too without a safety belt or a helmet is nothing but simply foolishness. The choice is ours....do we wish to be safe or sorry!

Safety rates very high in SHV philosophy and we have made conscious efforts to strengthen our belief in it. As implementation of safety measures involves costs, more often than not it is perceived as a barrier especially if others are not following the norms. The easy path would be to choose between any one i.e. either Sales or Safety. However Safety and Sales compliment each other and the challenge is to secure sales and customers due to our safety standards

The first step is to develop confidence internally which can be made easy through sharing of

success stories in selling through Safety with team members at various forums. Many initiatives like conducting Safety clinics, audits, issuing bulletins and technical support help in creating safety awareness in market place and prospective customers. Whilst securing customers who believe in Safety is easy, most customers who believe price and not Safety is the primary consideration do come around after creation of the required awareness and explaining the benefits of following Safety norms. Customers feel assured and satisfied that they are running a Safe installation

Together with Safety in LPG business we should not loose focus on the personal front. Helmets and seat belts need to be made compulsory for all staff. We have enjoyed the benefits of such initiatives as a few of our employees have come out scathe free from road accidents, thanks to the Safety helmets and seat belts being used by them

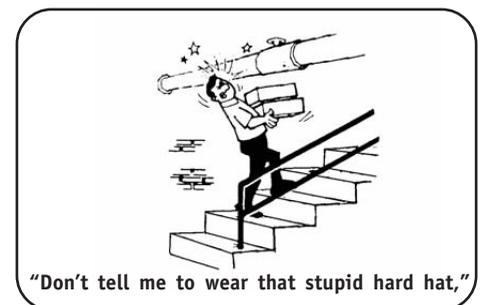
I can say with a fair amount of confidence that we have resolved to be safe than sorry. With the umbrella of such an attitude, competitive edge and success will never be too far away !

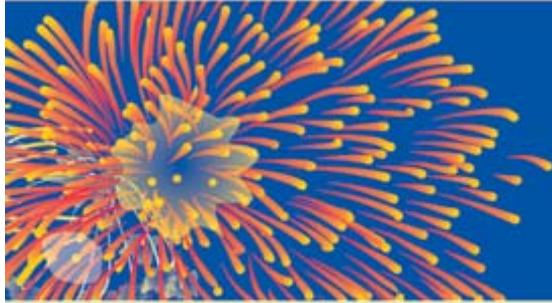
Santanu Guha
Ahmedabad

Helmets can save lives!

I would like to share a personal experience involving my 35 year co-brother who recently met with a two wheeler accident. He was not wearing a helmet and consequently suffered severe head injuries and required major surgery due to clotting of blood in the brain. He is presently recovering in hospital and our entire family is in a deep trauma, especially as even the doctors are unsure of the extent of recovery. Needless to mention that had a helmet been worn when driving, my co-brother would have come out of the incident with just minor injuries I hope we all learn from this experience. Please do not drive without the helmet and secure the same to the head properly

K Ramakrishna
Hyderabad





Feed Back from SHV Group...

'Chetna' has an atmosphere of professionalism and business oriented actions. You are building a virtuous circle with all this value you are creating. Congratulations and let us continue this way

Ivan Carrascal
Primagas

'Chetna' is an excellent initiative. The mix of safety information, reports on trainings and seminars and the occasional 'educational' cartoon is good. 'Chetna' is easy to read while being very informative.

Lesley Walker
SHV Holdings Netherlands

I look forward to receiving the October issue of 'Chetna', as it will probably have a special slant, being an anniversary issue. I am really pleased

with how well it is received in India and through Quest in the group

Aky Vente
SHV Gas Netherlands

Well done and congratulations! I do know how you all take safety seriously in the Company. But it is no dull reading at all, I enjoy reading it

Loic Driebeek
CEO SHV Gas

'Chetna' has brought alive the "Spirit of Safety" which is there in SHV India. A wonderful job of bringing together important safety events and moments!.

VN Diwakar
Hyderabad

Financial Safety – Security for the Family!

The benefits of good financial habits inculcated over the years get realised only in the unfortunate event of an accident and consequent injury. Whilst most of us carefully plan our finances for the post retirement period, we seldom maintain adequate documentation thinking that we may not need them. We do and should keep our spouses and family informed about one's assets and investments. A bit of focus on the following will result in better financial safety and security for you and your family:

- Take insurance cover for gold & jewelry, house hold items etc.
- Obtain the credit shield insurance for the loans availed for housing etc. This helps in loan repayments in case of disability or demise with out resorting to disposal of asset
- Be meticulous in maintaining documentation of one's investments
- Use the Bank lockers for safe stowage of gold, jewelry etc. and important papers
- Scan the important documents and share their location with trusted ones
- Invest your funds in various products with a better balance rather looking just for high return as these associate with an equal risk.
- Save bills for high value purchases for future reference
- Last but not the least make your '**Personal Will**' at an early opportunity

Be financially safe and secure your wealth, health and family!

Srinivas Rao
Hyderabad

Cylinder Handling

Handling of LPG cylinders especially at customer premises is a focus area to ensure their safe

a portable cylinder handling unit which can be carried easily with the truck. The unit gets fixed



A model of Cylinder Handling unit

loading/unloading and minimal wear of paintwork. Bavla Filling Plant Team has designed

at the back of the truck & has rollers for cylinder sliding. The dimensions of the unit are such that weight & space required is minimized without compromising on the operational features like elimination of impact on foot ring, easy cylinder movement, minimal paint damage of cylinders etc. This is one more step towards cylinder health improvement!

Hiren Mehta
Bavla

Safety at Project Sites

As a Company we are today involved in many Project activities vis-à-vis Cylinder and Bulk Installations, Filling Plants etc. Projects small or big require active management participation in creating the safest possible working environment. Injuries are preventable; safety is everyone's responsibility; and good health and safety requires awareness, involvement and commitment by all.

A single workplace injury can have devastating effect on our business. In addition to pain and suffering for victim and family, injuries could result in lower morale and higher project costs due to delays and lost production and possible prosecution by the enforcing authorities. The first step to prevent accidents is, knowing the causes

of accidents and injury in the Project construction phase. It is our responsibility to ensure that workers at Site are made aware of possible hazards in the course of their work and about the safety procedures to avoid them.

This is especially important with new workers who don't know how to recognize and control hazards. Some of the obvious hazards at project Sites that need to be guarded against include; entering and working in confined spaces, working around live equipment and overhead power lines, excavating and working in trenches and working on swing stages and suspended scaffolding

One of the basic principles of ensuring safety is by setting examples. In the process of overseeing

Project implementation, one has line up jobs, supervise workers, and sometimes lend a hand yourself. What you do on site affects the way your employees work. Always wear helmets and safety boots. When the job requires other protective clothing or equipment, be the first to wear it and don't take chances! It is also important to persuade your employees to report hazards immediately to prevent their recurrence.

The success of any Project requires a strong commitment of all involved. Let us through our Safety culture; make a difference in our work, and to the workers who depend on it

Cdr A S Oberoi
Hyderabad

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Vehicle Tracking...

a Fleet Management System. In addition to addressing the above concerns the system provides the following advantages:

- Vehicles can be tracked from control rooms through internet
- 2-way voice call with driver is possible
- Availability of Updated ETA dynamically considering night driving restrictions
- Availability of vehicle performance reports for efficient transport management

The above system is expected to be commissioned in two month's time. With this we hope to further improve Safety in transportation of LPG, higher level of service and provide online information on vehicle location and ETA to our esteemed customers

CJ Daniel
Hyderabad

"Deepavali Celebrations: Better 'Safe than Sorry'"

All mishaps due to fireworks occur as a result of carelessness, negligence and ignorance. Simple precautions can help avoid these mishaps!

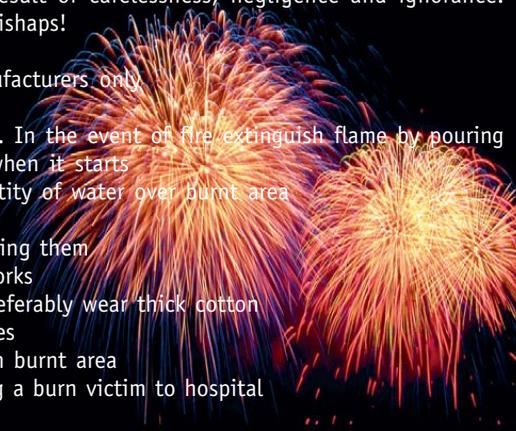
Do's

- Buy fireworks from reputed manufacturers only
- Light only one firework at a time
- Keep two buckets of water handy. In the event of fire extinguish flame by pouring water. Every major fire is small when it starts
- In case of burns pour large quantity of water over burnt area

Don'ts

- Don't ignite fire works while holding them
- Don't tamper with misfired fireworks
- Don't wear synthetic clothing; preferably wear thick cotton
- Don't wear loosely hanging clothes
- Don't apply cream or ointment on burnt area
- Don't drive recklessly while taking a burn victim to hospital

Safety is one investment that never fails! Happy Deepavali!



Safety Training at HBL NIFE

With the rapid growth in industrial sector and use of LPG as a fuel, we need to be aware of



Safety training at HBL NIFE Power systems Ltd. the various hazards associated with LPG. Correct handling of LPG is one of them. Awareness of right procedures helps in handling emergencies in efficient manner. Keeping the adage 'Prevention is better than cure' in mind, a training program in coordination with Super Gas Team was organized in August at our Nandigaon Plant.

Precautions involved in handling of LPG & related equipments, mock drill, procedure to tackle any emergency arising during unloading of LPG were the main items of this program. The training program was undoubtedly useful for our employees, as it has helped them enrich their knowledge and level of efficiency to handle the emergencies. The efforts taken by Super Gas Team, in conducting the program are certainly appreciated. We look forward to more

informative programs in future also, as it will greatly help in improving our efficiency on handling emergencies

Our sincere thanks to Super Gas for extending their valuable services!

A.R.Sridharan

Chairman, Safety Committee
HBL NIFE POWER SYSTEMS LTD.

Safety Online!

Currently our Safety Systems & Procedures get monitored and reported manually as per the annually promulgated Safety Management System. Safety being a core area of SHV business, it was decided to further improve its control and compliance by building it in SAP, the ERP package recently implemented in SHV.

After moving into SAP from August 2006, Safety in SHV across India now gets covered through the PMCS module. With this initiative Safety Committee Meetings, Training Programs, Mock Drills & Audits have become online as a part of SAP. The set parameters against each are being planned, scheduled, and thereafter monitored/recorded/analyzed in SAP. Additionally, near misses & accidents also have the provision of getting reported & recorded in SAP.

With the above, the key issues related to Safety management can be derived online for instantaneous decision & implementation of corrective actions/measures. This is one more step towards strengthening our focus on Safety!

Ediga Srihari

Hyderabad

Safety Clinics at Tirupathi & Nellore

A five days safety clinic from 18th to 22nd August, 2006 was conducted at franchisee & cylinders customer points at Tirupathi and Nellore by Kondapally Filling Plant Engineer & Operator. Total twenty seven end customers attended the safety clinic. They were trained on the correct & safe use of LPG, emergency handling, correct uses of standardized equipments e.g., burner, Adaptor, rubber tube etc.

The end customers were explained about the seriousness & abuses of non standard equipments related to LPG. The maintenance of burners & manifolds was also explained to customers. It is planned to periodically conduct such programs

Arun Bhaduri

Kondapally



Safety Clinic at Vishay Components Pvt.Ltd.

Customer Speak



We are exclusively procuring Super Gas commercial cylinders for all our 7 units in Chennai. The total nos. of cylinders procured from SHV is around 2700 cylinders per month. We sincerely appreciate the service

rendered by you and your Franchisee in delivering the cylinders everyday on time and for conducting safety training for our staff to make them aware about various safety aspects of LPG. We expect the same level of service from you in coming months also

V. Ravi

Managing Director
Vasanta Bhavan, Chennai



We really appreciate your concern & continuous efforts to maintain safety in our LPG installation. You & your people are always charged up & shown urgency in delivering safety. You have conducted programs on

safety & trained many batches. Thank you for all the efforts taken by SHV

Pramod Deshpande

Kalyani Lemmerz Ltd., Pune



We are procuring LPG cylinder of 33 Kg from your organization exclusively for more than two years. We take the pleasure to inform you that we sincerely appreciate service and

support we are receiving from you and expect the same in the years to come

Rajbir Sharma

Taj Madras Flight Kitchen Pvt. Ltd., Chennai



Super Gas has created very good business relation which has helped me greatly in business development. I have received support and cooperation not only for sales but also "SAFETY".

Thank you and look forward to your continued support

Jagdish Vora

Cookwell Marketing Pvt Ltd., Silvasa

Our Company Krupa Trading Co Pvt. Ltd. situated at Killa Pardi Dist Valsad is customer of SHV Energy Pvt. Ltd. and used Super Gas 17kg LPG cylinders in our manufacturing process

We have recently installed 5 MT LPG tank at our plant premises. We specially thank Mr Ashraf Munera who looked after the commissioning process and training after the completion of installation

We thank all Super Gas team once again for the cooperation and suitable advice to our staff. We hope, in future the same helping attitude will be continued from your side

Bhushan Bhai

Krupa Trading Co Pvt. Ltd., Mumbai



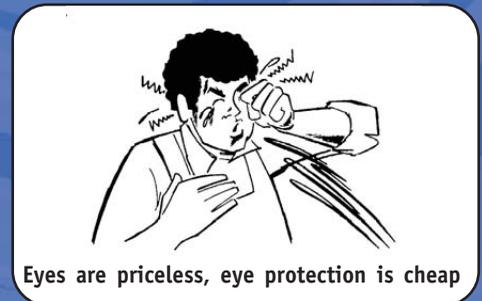
We have been associated with Super Gas almost a decade which speaks a lot good about Super Gas. Coming to services, Super Gas has been a prompt and responsible LPG supplier, caring and

concerning both for the manufacturer and the environment. Suggestions given have been taken in the right spirit by Super Gas. The team has undertaken training programs for educating down the line upto the end operator

We look forward to this very fruitful relation with Super Gas in the years to come, which involves exchange of support, safety and concern for each other

Sheikh Sulaiman

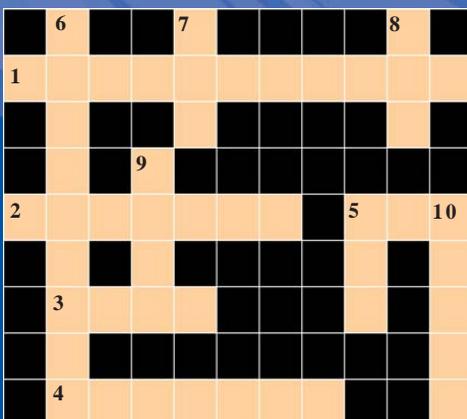
Director
Little Star Foods Pvt. Ltd., Hyderabad



Eyes are priceless, eye protection is cheap



Safety Crossword



ACROSS

1. Type of valve used in LPG Cylinders
2. Hazardous chemical (Acronym)
3. This card is used in bulk tankers
4. Not man made
5. Report prepared on a monthly basis

DOWN

6. Chemical mixed in LPG to provide odour
7. The most suitable extinguisher for LPG Fires
8. Another gas confused with LPG
9. Approving authority before setting up any LPG Installation
10. Heat source for ignition of fire

Answers

Down: 6. Mercaptan 7. DCP 8. LNG 9. CCOE 10. Spark
Across: 1. Self closing 2. Hazchem 3. Trem 4. Natural 5. MIS

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