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**MESSAGE FROM CMD**

During last four years of operation, we have added substantial transmission capacity in the State Transmission System to cater to ever increasing load. The 400 KV ring main have helped system stabilization. Our main focus will now be on the efficient operation of the system with more thrust on IT Intervention.

Though we have introduced IT in selected areas, a total IT solution of our entire operation is the need of the hour. We have taken a decision to implement ERP covering all the areas of operation. It is really a challenging task as we have to streamline our processes and systems to a desired level which will contribute to value addition. I call upon all our employees to work as a team for its successful implementation.



Anurag Agarwal, IAS.

**400 KV SUB-STATION NAKODAR**



**Waste of Electricity can cut your income**

## Enterprise Resource Planning (ERP)

Information Technology is playing vital role in modern management systems world over. In India most of the power utilities are in the process of switching over to complete computerisation to reduce overheads and to have efficient management information system to achieve the objectives of the organization. Enterprise Resource Planning (ERP) implementation has changed the work landscape in business organizations. An ERP package monitors the work flow business process of the entire organization and it also connects the people to each other. Earlier only large multinational companies preferred to go for ERP implementation due to high costs involved but now most of the companies are opting for ERP package implementation to gain the competitive edge over others. PSTCL is also in the process of implementing this ERP for better time management, increasing transparency in the organization and increasing the efficiency of its employees. The following business functions are being considered to implement in PSTCL:-

### FINANCIAL ACCOUNTING AND CONTROLLING

1. Human Resource Management including Employee Self Service and Payroll
2. Inventory Management, Procurement & Contracts Management
3. Maintenance Management
4. Project Management

Enterprise resource planning (ERP) is business management software—usually a suite of integrated applications—that an organization can use to collect, store, manage and interpret data from many business activities, integrates varied organizational systems and facilitates error-free transactions and production. However, ERP system development is different from traditional systems development. ERP systems run on a variety of computer hardware and network configurations, using centralised database as an information repository. ERP systems can track business functions like Finance, Inventory, Projects, O&M, Purchase, HR data—and the status of commitments: orders, purchase orders, and payroll. The applications that make up the system share data across the various departments ( Planning, purchasing, stores , accounting, etc.) that provide the data. ERP facilitates information flow between all business functions, and manages connections to outside stakeholders.

SE /IT

### RETIREMENTS

PSTCL Wishes the following a Good Luck and Healthy Life

1. Er. Rajinder Singh retired as AE on 31.5.2014
2. Er. Kulwant Singh retired as AE on 30.6.2014

Think twice before speak, because words and influence will plant the seed of either success or failure in the mind of others.

The Price of success is hard work, dedication to the job at hand and the determination that whether one win or loose we have applied the best of ourselves to the task at hand.

By: Company Secy. PSTCL

## QUARTERLY PROGRESS OF PSTCL ( APRIL - JUNE 2014) ( As per data received from CE/TS)

| Sr.no | Description                    | Net progress during the quarter |
|-------|--------------------------------|---------------------------------|
| 1     | Sub- Stations                  |                                 |
| A     | 400 KV                         | 1                               |
| B     | 220 KV                         | 1                               |
| C     | 132 KV                         | 0                               |
|       | <b>Total</b>                   | <b>2</b>                        |
| 2.    | Capacity (Transformers)        |                                 |
| A     | 400 KV MVA                     | 630                             |
| B     | 220 KV MVA                     | 482.50                          |
| C     | 132 KV MVA                     | 67.50                           |
|       | <b>Total MVA</b>               | <b>1180.00</b>                  |
| 3.    | Transmission Lines (Ckt. Kms.) |                                 |
| A     | 400 KV                         | 53.124 Ckt.Kms.                 |
| B     | 220 KV                         | 155.296 Ckt.Kms.                |
| C     | 132 KV                         | 0.000 Ckt.Kms.                  |
|       | <b>Total</b>                   | <b>208.420 Ckt.Kms.</b>         |

## FAMILY ACHIEVEMENTS

### Mr. Keshav Kaplush

S/o Er. Anil Kaplush, Chief Engineer/ TS, B.Tech from NSIT, New-Delhi, working as System Analyst in RBS with present posting at Gurgaon cleared Civil Services Exam conducted by USPC, New Delhi in 2013 and obtained 676 rank.

**Congratulations !**



### Ms. Diksha Pahuja D/o

Sh. Khem Chand, AO/ WAD & Broadsheet has secured 97.8% marks in 10+2 commerce and stood first in District Patiala and got admission in B.Com (Hons.) in one of the reputed college of Commerce- Sri Ram College of Commerce, New Delhi.

**Congratulations !**



Hon'able, Sh RN Prashar, IAS(Retd.), Chairman; Sh MS Puri, Member; Sh Jagjeet Singh, Member and Sh SR Vashist, Secretary of Haryana Electricity Regulatory Commission (HERC) along with their team, visited State Load Dispatch Centre, Ablawal on 19.06.2014 to have first hand experience of the Systems and Procedures which have been adopted by Punjab SLDC. A detailed presentation on the existing systems as well as state of the art monitoring & control systems & innovations being adopted for Load Dispatch activities at SLDC was given.

**Save Electricity and Help the Nation**

## A STUDY OF RATE OF CHANGE OF FREQUENCY AT DIFFERENT LOCATIONS IN AN INTERCONNECTED POWER SYSTEM

Two major grid failure incidents occurred on 30<sup>th</sup> and 31<sup>st</sup> July, 2012 affecting a large area of power network covering states namely Punjab, Haryana, Uttar Pradesh, Uttarakhand, Rajasthan, Himachal Pradesh, Delhi falling under Northern Region beside other states of Eastern (ER) & North- Eastern (NER) regions during grid failure on 31.7.2012. As per the MOP directive, all states must ascertain preparedness of power system defence plans and protection system in accordance with the Indian Electricity Grid Code (IEGC), which shall include islanding schemes, Under Frequency Relays (UFR), rate of change frequency relays (df/dt), special protection schemes (SPS) and automatic demand management schemes.

PSTCL has already installed various schemes along with rate of change frequency (df/dt) relays at various 220 KV and 132 KV substations as under:-

| df/dt Stages | Settings             | No. of Substations | Total avg. Load Relief(MW) |
|--------------|----------------------|--------------------|----------------------------|
| Stage 1      | 0.1Hz/sec at 49.9 Hz | 15                 | 424                        |
| Stage 2      | 0.2Hz/sec at 49.9 Hz | 09                 | 484                        |
| Stage 3      | 0.3Hz/sec at 49.9 Hz | 10                 | 496                        |

It has been seen that following a system disturbance, df/dt relays of same make, configured with same settings and fed through respective PT secondary voltages of same voltage level for frequency measurements do not operate simultaneously and trip at different events independent of each other. This was confusing as frequency of power system is construed as same throughout the interconnected grid. The reason was investigated in different technical papers on this subject and various aspects of rate of change of frequency (ROCOF) in power system are discussed.

### Estimation of rate of change of frequency (df/dt):

Power system frequency drops when the power supply in the system becomes insufficient due to loss of generation or tie line support. Overloading of the generators is followed by considerable change in system voltages, causing a fluctuation in load power Pelec. In addition, the generator's governing system utilizes the spinning reserve (if available), changing Pmech. Thus Pmech and Pelec change in time, altering frequency 'f' and its rate of change df/dt. While the low frequency 'f' is the final result of the power deficiency, its rate of change df/dt is an instantaneous indicator of power deficiency and can enable recognition of the MW imbalance. However, the change in machine speed is oscillatory in nature. These oscillations depend on the response of the generators and are seen differently at different locations. If the amount of frequency drop is large, protection systems for the low frequency may be activated in the power plants and the consequent shutdown of plant may lead to the separation of the interconnected system or black-out of the power system. The time taken by the system to settle to a low frequency would depend upon the inertia of the system. Higher the inertia of the system larger would be the time and vice versa. However, before frequency settles to lower level, there are oscillations and these could lead to the higher line loading and consequently tripping of the generators/tie lines. Therefore it is important to grasp the characteristics of the frequency response of the power system to loss of generation in order to stabilize the system faster and avoid catastrophe.

Two major incidents of loss of generation when df/dt was more than 0.06 Hz/sec were taken for inertia constant calculation.

1. Units tripping at Suratgarh (1250 MW Generation Loss) on 04-10-2006 at 1822 hrs.
2. Units tripping at Anpara (1450 MW Generation Loss) on 15-11-2006 at 1119 hrs.

On none of the occasion loss of generation up to 1500MW in the interconnected system, df/dt of more than 0.1 Hz/sec was observed. However, on one of the occasion of system split on 28th Feb 2007, 1311 hrs rate of change of more than 0.1 Hz/sec was observed.

**Available minimum df/dt relay settings:** The minimum df/dt relay setting available is 0.1 Hz/sec. Many df/dt relays have a minimum setting of 0.2 Hz/sec only. Further error of +/- 5% or +/- m Hz (whichever is greater) is expected.

**Conclusion:** Main results of the previous works in the use of df/dt in the Under Frequency Load Shedding schemes are:

- 1) The initial rate of frequency change following a disturbance is proportional to the power imbalance.
- 2) The df/dt depends on the electric power system inertia.
- 3) The closest generator to a source of disturbance has the fastest response and the largest initial slope df/dt (therefore, the df/dt can be used as an index for indicating the distance from disturbances). The df/dt must be considered as an important index to predict the contingencies and manage an appropriate emergency control plan.
- 4) Different values of df/dt are observed at different locations for the same loss of generation.

**Further work:** - Further work is required to be done in the area of employing Phasor Measurement Units (PMUs) to detect loss of generation & activating load shedding in neighbouring nodes.

**Er. Munish Datta**, AEE, Protection Division, PSTCL Mohali.  
**Er. Sanjeev Kumar**, AEE, Protection Division, PSTCL Mohali.

## HAVE THE WILL TO WIN...

Life is not always smooth. If it gives you happiness & it also brings a lot of miseries. One needs mental strength to face them. A weak mind that is unable to withstand suffering invites only more miseries.

To put it in plain words, enhance your energies by healing yourself and others

- Love yourself and others
- Trust yourself and others
- Forgive yourself and others
- Have peace and trans-quality
- Develop positive thinking

What happened to Dronacharya when he heard the news of his son Ashwathama's death? He lost his confidence on account of grief and lost his life.

Anger, grief, hatred, jealousy, ego, fear and inferiority complex are some of the obstacles which make a person weak and bereft of confidence

Success and failure are inevitable in life. Such a rare human birth is not meant for committing suicide. We have no right to destroy this body. It is a precious gift of God given to us to make the best use of it to achieve great things.

Failures in examinations, a little scolding from parents, a petty quarrel with friends, a temporary financial problem, inferiority complex and unemployment are some of the common problems we all face at some point.

We should remember that for every problem, there is solution. We need patience, hard work and confidence. Let us develop mental strength and courage to face problems and they will disappear.

ASE/Training Cell

**Sun Light is free, Use it**

## BRIEF OF 400KV NAKODAR SUB-STATION

The commissioning of 400/220 KV Grid Station Chak Vendal Nakodar on 23.5.2014 opens a new chapter in the Transmission system of Punjab. It is an important Grid Station that was planned to be taken in service with the commissioning of Thermal Power Plants i.e. Rajpura Thermal Plant and Talwandi Sabo Thermal Plant. It evacuates the power generated at these both the plants and is directly connected with them through 400 KV D/c Transmission Lines. Two transformers of 400/220 KV, 315 MVA capacity each are installed here. Grid station is connected with PGCIL 765 KV Grid Station Moga, 400 KV Grid Station Makhu. Another 400 KV line is likely to be commissioned by the end of year 2014 from Kurkushetra to Nakodar and further connecting with PGCIL 400 KV Grid Station at Kartarpur. There is provision for extension of another 5 Bays of 400 KV, in future. A 400 KV Bus Bar reactor of 80 MVA capacity has also been installed. On the 220 KV side this grid station feeds 220 KV Sub Station Noor Mehal, Kartarpur and Rehana Jattan. Another 220 KV Sub-station at Dholewal is planned to come up in near future that will be fed from here. There is provision of extension of another 4 no. 220 KV Bays.

Overall design of this Grid Station is most modern and of international standard. The latest Sub-station automation systems have been installed. Supervisory control and Data acquisition system has been installed for accurate monitoring of the operations. Modern relays and Bay Control units and disturbance recorders have been provided for protection, control and fault analysis.

Besides this from safety point of view, High velocity water pumps and very efficient fire fighting system have been installed. There is provision of Hot Line maintenance without interrupting supply. Automotive D.G. set back up is available in case of emergencies.

Along with this, there is fully air conditioned control room building on Corporate office styles which houses, Xen's office, laboratory, Library, Conference Room, staff Cabins and SCADA Room. There is one Transit Camp and colony for officers and staff beautifully planned with horticulture and other facilities.

**Sr. Xen/ P&M  
400 KV S/s Nakodar**

**Note :** All the employees of PSTCL are requested to contribute in the Newsletter of PSTCL in following fields:

- Achievements made by the employees, their family members and children in different areas,
- Phrases/quotes etc.

**ਗੰਭੀਰ ਬਿਮਾਰੀਆਂ ਦੇ ਕੁਝ ਚੇਤਾਵਨੀ ਲੱਛਣ ਜੋ ਕੈਂਸਰ ਦਾ ਵੀ ਸੰਕੇਤ ਹੋ ਸਕਦੇ ਹਨ**  
ਜੇਕਰ ਕੋਈ ਲੱਛਣ ਨਜ਼ਰ ਆਉਣ ਤਾਂ ਤੁਰੰਤ ਡਾਕਟਰ ਕੋਲੋਂ ਜਾਂਚ ਕਰਵਾਉ।

| ਆਮ ਤਕਲੀਫ/ਲੱਛਣ   | ਅੰਗ ਜਿਸ ਬਾਬਤ ਲੱਛਣ ਹੈ              |
|---|-----------------------------------|
| 1. ਛਾਤੀ/ਦੁੱਧੀ ਵਿੱਚ ਗਟੋਲੀ/ਗੰਢ/ਹਾਲ ਹੀ ਵਿੱਚ ਨਿਪਲ ਦਾ ਅੰਦਰ ਧਸਣਾ/ਨਿਪਲ ਵਿੱਚੋਂ ਖੂਨ ਮਵਾਦ ਵਗਣਾ।   | ਛਾਤੀ/ਦੁੱਧੀ                        |
| 2. ਸੰਭੋਗ ਤੋਂ ਬਾਅਦ ਖੂਨ ਵਗਣਾ/ਗੁਪਤ ਅੰਗ ਵਿੱਚੋਂ ਪੀਕ ਵਗਣਾ/ਮਹਾਵਾਰੀ ਦੌਰਾਨ ਬੇਹੱਦ ਖੂਨ ਪੈਣਾ/ਮਹਾਵਾਰੀ ਦੇ ਵਿੱਚ ਵਿਚਾਲੇ ਖੂਨ ਪੈਣਾ, ਸੰਭੋਗ ਵੇਲੇ ਦਰਦ। | ਬੱਚੇਦਾਨੀ/ਬੱਚੇਦਾਨੀ ਮੂੰਹ (ਸਰਵਿਕਸ)   |
| 3. ਮੂੰਹ/ਮਸੂੜੇ/ਤਾਲੂਏ ਜਾਂ ਜੀਭ ਤੋਂ ਨਾ ਠੀਕ ਹੋਣ ਵਾਲਾ ਜਖਮ/ਪੁਰਾਣੇ ਜਖਮ ਵਿੱਚੋਂ ਖੂਨ ਵਗਣਾ/ਜੀਭ ਤੋਂ ਗਟੋਲੀ/ਗੰਢ।                                 | ਮੂੰਹ/ਮਸੂੜਾ/ ਤਾਲੂਆਂ/ਜੀਭ            |
| 4. ਭੋਜਨ ਨਿਗਲਣ ਵਿੱਚ ਥੋੜ੍ਹੇ ਸਮੇਂ ਤੋਂ ਰੁਕਾਵਟ/ਆਵਾਜ਼ ਦਾ ਲੰਮੇ ਸਮੇਂ ਲਈ ਬੇਠ/ਬਦਲ ਜਾਣਾ/ਲਗਾਤਾਰ ਲੰਮੀ ਖਾਂਸੀ/ਬਲਗਮ ਵਿੱਚ ਖੂਨ।                     | ਫੁਫ ਪਾਈਪ (ਨਿਗਲਣ ਨਲੀ) / ਆਵਾਜ਼ ਯੰਤਰ |
| 5. ਪੇਟ ਵਿੱਚ ਗੋਲੇ ਨਾਲ ਭੁੱਖ ਤੇ ਵਜ਼ਨ ਘਟਣ ਦੇ ਨਾਲ-ਨਾਲ ਖਾਰਸ਼ ਅਤੇ ਨਾ ਠੀਕ ਹੋਣ ਵਾਲਾ ਪੀਲੀਆ  | ਜਿਗਰ / ਪਿਤਾ                       |
| 6. ਟੱਟੀ ਵਿੱਚ ਬਿਨਾਂ ਦਰਦ ਖੂਨ ਆਉਣਾ/ਬਿਨਾਂ ਕਾਰਣ ਇੱਕ ਲਖਤ ਵਜ਼ਨ ਘੱਟ ਜਾਣਾ/ਖੂਨ ਦੀ ਕਮੀ (ਅਨੀਮੀਆ) ਟੱਟੀ ਆਦਿ ਵਿੱਚ ਇੱਕ ਲਖਤ ਬਦਲਾਅ                  | ਅੰਤੜੀ / ਗੁਦਾ                      |
| 7. ਕਿਸੇ ਕੁਦਰਤੀ ਛੇਦ ਵਿੱਚੋਂ ਬਿਨਾਂ ਵਜ਼ੂ ਖੂਨ ਵਗਣਾ/ਬਿਨਾਂ ਵਜ਼ੂ ਤਿੰਨ ਮਹੀਨਿਆਂ ਤੋਂ ਵੱਧ ਬੁਖਾਰ   | ਖੂਨ / ਲਿਸ਼ਕਾ ਗੁੰਥੀ                |
| 8. ਦਰਦ ਬਿਨਾਂ ਪਿਸ਼ਾਬ ਵਿੱਚ ਖੂਨ/ਪਿਸ਼ਾਬ ਵਿੱਚ ਰੁਕਾਵਟ/50 ਸਾਲ ਤੋਂ ਵੱਡੇ ਪੁਰਸ਼ ਨੂੰ ਗਤ ਨੂੰ ਵਾਰ-ਵਾਰ ਪਿਸ਼ਾਬ ਆਉਣਾ।                             | ਗੁਰਦਾ / ਮਸਾਨਾ / ਗੁਦੂਦ (ਪ੍ਰੋਸਟੇਟ)  |
| 9. ਸੌਂਦੇ ਜਾਂ ਤਿਲ ਦੇ ਆਕਾਰ/ਗੰਗ ਵਿੱਚ ਇੱਕ ਲਖਤ ਬਦਲਾਅ ਜਾਂ ਉਸ ਵਿੱਚੋਂ ਆਪਣੇ ਆਪ ਖੂਨ ਵਗਣਾ ਸ਼ੁਰੂ ਹੋ ਜਾਣਾ।                                     | ਚਮੜੀ                              |
| 10. ਪਤਾਲੂ ਵਿੱਚ ਸਖਤ ਗਟੋਲੀ  | ਪਤਾਲੂ                             |
| 11. ਬਿਨਾਂ ਕਾਰਣ ਸਿਰ ਦਰਦ ਅਤੇ ਦੌਰੇ   | ਸਿਰ/ਦਿਮਾਗ                         |
| 12. ਸਰੀਰ ਵਿੱਚ ਕਿਤੇ ਵੀ ਗੰਢ ਜਾਂ ਗਟੋਲੀ/ਨਾ ਠੀਕ ਹੋਣ ਵਾਲਾ ਜਖਮ   | ਕੋਈ ਵੀ ਅੰਗ                        |

**ਕੀ ਨੇ ਕਾਰਨ ਕੈਂਸਰ ਦੇ?**

- ਬੱਚਿਆਂ ਨੂੰ ਆਪਣਾ ਦੁੱਧ ਨਾ ਚੁੰਘਾਉਣਾ
- ਦੂੱਧ ਵਾਲੇ ਤੰਬਾਕੂ ਬੀੜੀ, ਸਿਗਰਟ/ਹੁੱਕਾ/ਚਿਲਮ ਆਦਿ ਦਾ ਸੇਵਨ
- ਦੂੱਧੀ ਰਹਿਤ ਤੰਬਾਕੂ ਜਰਦਾ/ਗੁੱਟਕਾ/ਪਾਨ ਮਸਾਲਾ ਆਦਿ ਦਾ ਸੇਵਨ
- ਪਰਿਵਾਰ ਵਿੱਚ ਕਿਸੇ ਜੀਅ ਨੂੰ ਕੈਂਸਰ ਹੋਣਾ
- ਗਰਭ ਰੋਕੂ ਗੋਲੀਆਂ 45 ਸਾਲ ਦੀ ਉਮਰ ਤੋਂ ਉਪਰ ਲੈਣਾ
- ਸ਼ਰਾਬ ਪੀਣਾ

### ਕੈਂਸਰ ਤੋਂ ਬਚਾਅ ਲਈ ਕੀ ਕਰਨਾ ਚਾਹੀਦਾ ਹੈ :

- ਕੈਂਸਰ ਤੋਂ ਡਰਨ ਦੀ ਲੋੜ ਨਹੀਂ।
- ਜ਼ਰੂਰਤ ਹੈ ਕੈਂਸਰ ਬਾਰੇ ਸਹੀ ਜਾਣਕਾਰੀ ਚੱਖਣ ਦੀ
- ਜੇਕਰ ਸ਼ੁਰੂਆਤੀ ਦੌਰ ਵਿੱਚ ਕੈਂਸਰ ਦਾ ਪਤਾ ਲਗ ਜਾਵੇ ਤਾਂ ਜਿੰਦਗੀ ਬਚ ਸਕਦੀ ਹੈ।
- ਆਈ ਮਿਲ-ਜੁਲ ਕੇ ਸਾਫ ਤੇ ਸਵੱਸਥ ਜੀਵਨ ਅਪਣਾਈਏ
- ਤੰਬਾਕੂ, ਗੁੱਟਕਾ ਸ਼ਰਾਬ ਆਦਿ ਨਸ਼ਿਆਂ ਤੋਂ ਪਰਹੇਜ਼ ਕਰੀਏ।
- ਕਿਸੇ ਵੀ ਤਰਾਂ ਦਾ ਕੈਂਸਰ ਦਾ ਸ਼ੱਕ ਹੋਣ ਤੇ ਤੁਰੰਤ ਨਜ਼ਦੀਕ ਦੇ ਸਿਹਤ ਕੇਂਦਰਾਂ ਵਿੱਚ ਜਾ ਕੇ ਮਾਹਿਰ ਡਾਕਟਰਾਂ ਨਾਲ ਰਾਇ ਕਰੀਏ।
- ਸਰਕਾਰੀ ਹਸਪਤਾਲਾਂ ਵਿੱਚ ਕੈਂਸਰ ਦੀ ਜਾਂਚ, ਪੈਪ ਸਮੀਅਰ (ਸਰਵਿਕਸ ਦੇ ਕੈਂਸਰ ਦੀ ਜਾਂਚ), ਕਿਸੇ ਵੀ ਗੱਠ ਦੀ ਜਾਂਚ, ਅਲਟਰਾਸਾਊਂਡ ਆਦਿ

**ਪਰ ਯਾਦ ਰੱਖੋ ਕੈਂਸਰ ਲਈ ਮੂਲ ਮੰਤਰ ਹੈ ਪਰਹੇਜ਼ ਜਾਣਕਾਰੀ ਤੇ ਜਲਦੀ ਜਾਂਚ।**

**Er. J.S Zafar**

ASE/Procurement, P & M Ludhiana 96461-18209

**ਖੂਨ ਪਸੀਨਾ ਸਿਆਹੀ**

ਮਜ਼ਦੂਰ ਇੰਟੋ ਵੱਟੇ ਚੋਅ ਰਹੇ ਰਾਜ ਚਿਣ ਰਹੇ ਮੇਰਾ ਸਿਆਹੀ ਦੀ ਕਮਾਈ ਨਾਲ ਮਕਾਨ ਬਣ ਰਿਹਾ ਹੋਲੀ ਹੋਲੀ ਨਾਲ ਨਾਲ ਮੈਂ ਵੀ ਬਣ ਰਿਹਾ ਬਣਕੇ ਮਕਾਨ ਬੰਦੇ ਨੂੰ ਨਵਾਂ ਜਹਾਨ ਦਿੰਦਾ ਬਣਦਾ ਮਕਾਨ ਬੰਦੇ ਨੂੰ ਨਵਾਂ ਗਿਆਨ ਦਿੰਦਾ ਸਿਆਹੀ ਦੀ ਕਮਾਈ ਨਾਲ ਬਣਦੇ ਮਕਾਨ ਨੇ ਮੈਨੂੰ ਦੱਸਿਆ ਕਿ ਕਿਰਾਏ ਦੇ ਮਕਾਨ ਦੀ ਕੰਧ ਵਿੱਚ ਕਿੱਲ ਨੋਕਣ ਤੇ ਮਾਲਕ ਮਕਾਨ ਦਾ ਸੀਨਾ ਕਿਉਂ ਪਾਟਦਾ ਸੀ ਉਸ ਦਾ ਮਕਾਨ ਪਸੀਨੇ ਦੀ ਕਮਾਈ ਦਾ ਸੀ ਮੇਰੇ ਬੰਦੇ ਦੇ ਮਾਮੂਲੀ ਸੱਟ ਲਗਣ ਤੇ ਪਤਨੀ ਦੀਆਂ ਅੱਖਾਂ ਚੋਂ ਪਰਲ ਪਰਲ ਅੱਥਰੂ ਵਗਦੇ ਤਾਂ ਮੈਂ ਖਿੜਦਾ ਕਿ ਰੋਣ ਦੀ ਕਿਹੜੀ ਗੱਲ ਹੋਈ ਹੁਣ ਮੈਂ ਖਿੜਦਾ ਤਾਂ ਮੈਨੂੰ ਸਮਝਾਉਂਦਾ ਸਿਆਹੀ ਦੀ ਕਮਾਈ ਨਾਲ ਬਣਦਾ ਇਹ ਮਕਾਨ ਕਿ ਖਿੜ ਨਾ ਭੱਲਿਆ ਮਾਣਸਾ ਬੰਦੇ ਮਾਵਾਂ ਦੇ ਖੂਨ ਦੀ ਕਮਾਈ ਨਾਲ ਬਣੇ ਹਨ ਬਣਕੇ ਮਕਾਨ ਬੰਦੇ ਨੂੰ ਨਵਾਂ ਜਹਾਨ ਦਿੰਦਾ ਬਣਦਾ ਮਕਾਨ ਬੰਦੇ ਨੂੰ ਬੜਾ ਗਿਆਨ ਦਿੰਦਾ

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**Energy is Life, conserve it**

Chief Editor-Chief Engineer/HR, Planning & IT