

SUCCESS STORY ACHIEVED IN PANSHET DIVISION OFFICE

USE OF MODIFIED UPS USING SCRAP BATTERIES

- The work at Panshet HPS Division office was getting hampered due to load shedding problem. The old UPS system which was used to backup one computer had 24V, 18 AH battery had a backup of 15 minutes. This was replaced by old reconditioned scrap lead acid batteries of 24V, 300AH (of 2.2 V per cell with 12 Nos connected in series) to increase the backup time of the computer.
- This modified UPS system is now used to power up two computers and 2 printers with a backup time of at least 9 Hrs. In case of power failure, which is regular feature at Panshet HPS Division office either due to load shedding or forced outage, the modified UPS system functions as an inverter with 9 Hrs backup.
- This had lead to increased productivity in the office.
- This system was installed and commissioned in Aug 2007 and is working satisfactorily till date. The regular battery maintenance work is being carried out departmentally. The computer working time which was practically 0 % on load shedding days or on power failure days is increased to 100 % due to 100 % availability of power.
- It is one of the Kaizen principles to have continuous improvements.
- Kai" means change and "zen" means (for the better. Basically, *Kaizen* is for small improvements, but carried out on a continual basis and involve all people in the organization. *Kaizen* requires little or no investment. The principle behind is that a very large no. of small improvements are more effective in an organizational environment than a few improvements of large value. This pillar is aimed at reducing losses in the workplace that affect our efficiencies. These activities are not limited to production areas and can be implemented in administrative areas as well.
- The *Kaizen* policy practice concepts of zero losses I in every sphere of activity.
- AMOUNT SAVED BY USING BATTERY FOR

UPS AT PANSHET DIVISION OFFICE.

The UPS system was commissioned in Aug. 07

The total time since the date of commissioning till date is roughly 23 months.

During the year 2007-2008 the load shedding was for 2 working Hrs duration on Wednesdays and for 8 Hrs on Thursdays

- This means 10 Hrs per week or 40 Hrs in a month.
- Assuming no. of working employees are 4 from GAD, Accounts and Technical Section
- And considering average salary of Rs 20,000/= p.m. (Basic + D.A)
- Considering Rs 20,000 /= for 8 Hrs, the per Hour salary per employee works out to be $\text{Rs } 20,000/240 = \text{Rs } 83.3 / =$
- Considering 40 Hrs in a month salary per month per employee = $40 \times 83.3 = \text{Rs } 3322 / =$
- For 23 months per employee = $23 \times 3332 = \text{Rs } 76,636 / =$
- For 23 months for 4 employees = $76,636 \times 4 = \mathbf{3,06,544 / =}$

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