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| Intervening Technology/Technique | Increasing Chiller's Set Point, reduces running hrs of EO Bullet Scrubber Pump, Provision of VFD in Chiller's Secondary Pump at Manufacturing Process. | |
| About the industry | M/s. Galaxy Surfactants Limited located at Taloja, Tarapur (Maharashtra) and Jhagadia (Gujarat) and a depot outlet at Delhi, India. The Company is engaged in manufacturing and marketing surfactants and specialty chemicals for the personal and home Care Industry. | |
| Implemented Techniques/Technology | <p>Before</p> <ol style="list-style-type: none"> 1. Earlier the Chiller set point was 7⁰C. 2. Earlier the running hrs of EO bullet scrubber pump was 1013 hr. 3. Earlier chiller secondary pump was running on DOL (Department of Labor) starter. <p>After</p> <ol style="list-style-type: none"> 1. Chiller set point has been increased to 10⁰C. 2. The running hrs of EO bullet scrubber pump is reduce to 902. 3. Provision of VFD (Variable Frequency Drive) in chiller secondary pump. | |
| Benefits | Before CP | After CP |
| Economical | <ol style="list-style-type: none"> 1. Running hrs =1013 2. Total Hours of Run =24 2.1 Energy Consumed (kWh) =48 3. Power taken Pump (kWh) =7 3.1 Energy Consumed (kWh)=168 | <ol style="list-style-type: none"> 1.1 Running Hrs = 902 1.2 Energy Savings = 1.78 kWh 2.1 Energy saving = 1.41 kWh 2.2 Total time of run=7.08 hrs. 2.3 Energy Consumed (kWh)=14.17 3. Power Taken (kWh) with VFD=3.38 3.1 Energy Consumed (kWh) = 81 3.2 Savings per day (kWh)=86.88 |

