

CHAPTER 9

RECOMMENDATIONS

CHAPTER 9 RECOMMENDATIONS

Further research can be carried out on the following possibilities:

- i. Regeneration of spent granular activated carbon or recycling it for other filtration/bleaching purpose i.e. process wastewater bleaching prior to discharge into public water-ways.
- ii. Usage of waste filter cake or biological sludge to neutralize waste from other industries.
- iii. Composting of glycerine pitch or converting it into a more combustible form i.e. as boiler's fuel medium.
- iv. Using waste from other industries to extract retained oil from spent bleaching earth instead of hexane, which will be more economical. Research on saponification or boiling-off method can be carried out to find out the effectiveness on oil extraction from spent bleaching earth.
- v. Effective segregation method of spent nickel catalyst from fatty acid mixture for more optimised spent nickel consumption during its recycling.
- vi. Recycling of treated process wastewater.