

Project # 4 :- COMPANY NAME:- Vinayak Paints and chemicals

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1. Brief description of project:-

Company works in the field of manufacturing paints, poly urethane, industrial paints etc. Several problems are being faced by the company, which are to be solved. Which are listed below:-

☒ Synthetic enamel reacts with water to produce Carbon di-oxide. This production of Carbon di-oxide is to be stopped by adding appropriate reagents or by providing the environment that can stop this reaction.

☒ Paint solution on being left for longer periods of time gets converted to alkaline solution. Reason for this is to be found out and needs to be prevented.

☒ Available water that is used in manufacturing paints is alkaline, which degrades the quality of the paint. pH of this water is to be controlled and at the same time it has to be made sure that this water can be used for the desired purpose.

☒ Viscosity of the paint is very important for its applicability. Paints when stored for longer periods of time loose viscosity and therefore loose applicability. A method is to be suggested for preventing this decrease in viscosity.

☒ Problems in identifying the proper identity of given material is being faced. A cheap and accurate method needs to be devised.

2. Tentative time line 6-8 months.

3. Required background:

☒ Material Sciences and Engineering

☒ Chemistry

☒ Chemical Engineering