1. Assume that the EO% is 9%. Based on this assumption, formulate the problem as a linear programming problem to maximize the profit.

2. Solve the problem using excel or LINDO and answer the following questions:

1. What is the amount of AEO to be used in Glycol Section

**329.3503081**

1. What is the amount of AEO to be used in EO Purification

**5.43419E**

c. What is the quantity of water to be added to Glycol Section

D.How much of is MEG Produced in Glycol Section

**340.32**

e. How much of TEG is Produced in Glycol Section

**29.8605**

f. How much of DEG is Produced in Glycol Section

**22.9116**

g. How much of DEG is used for conversion to TEG in DTT Unit

**13.08**

h. What is the amount of DEG sold at Rs. 27,000 per ton

i. What is the amount of DEG Sold at Rs. 15,000 per ton