105517234 PROPUED MARKING GUIDE BROTT MOCK MR. BUSULONA JULIUS as food enhances, food presovatives antioxidants, food thickness. - 62 Sores. Item 1 6 presorvatives Increase the shelf life of Ford enhancir improve on tasterand the viscocity nverice sweethers Item 100 food additives allelgies, thirsty; nauseg, asthma, moreage not of cardiovascular diseases to some people, making them bothe concentration, and this can be mitigated by using recomended food additives. oth natural food colditives and Artificial food addiver Increase the shelf life of food (any one) on the taute and aroma Defferences. Natural And additive Can be obtained from plant ar animal extracts. reaction. How less side verpects mbre side effects. - Less effective in action - More effective in action, TO LANCE TO THE POST OF THE WAY WE WAY TO SEE THE

tem 2 (9) The materials can be northwal and arthropicual Natural materials are made by God / exists in nature their formation is not influenced by man-forexample wood Artificial materials are materials which are made by man forexample plastics, glass among offices. Home utensils have different qualities based on their norture and they are made using the following. Aluminium: - Has a low density. - It is durable - How a high melting point - Has a high electrical / heat conductivity. Afleast CH) property del/Iron - Very strong on apyone material. - How ahigh tensile strength - Its ductive and malleable - Has orlying home thing point - Galvanised Iron result resting. - Man-made polymers which can undergo permanent deformation without breaking - They are flexible so can be bent early. - They are also good insulator. - They are wester proof. Iron is strong so it can be used for making sauce parts spoons, forty; among other. Alluminium has a high meeting point so it can be used for making source point among other. Any one material 1-tem and Iron is non-biodegradable so it can cause soil infortifity when left to accumulate in the roil and this can be mitigated by recycling thon into other products. Accept on

MANUFACTURE OF AMMONIUM NITRATE FERTILIZERS. - Nitragen gas (Rm) - Hydrogen gas. 3 Process of production Nitrogen from fractional distillation of liquid our is readed with hydrogen from natural gas in the ratio of 1:3 respectively to form ammonia by haber process. This reaction requires low temperatures (450-500)°C, high pressures (200 atm and finally divided Iron catalyst. N20 +3H20 = 2NH30 Ammonia produced is air (oxygen) in presence of platinum contally of forming nitrogen monoxide and water. All these in CP 4 NH300 +50200 +1000 + 6H200 Nitrogen monoxide is further exidised to nitrogendioxide 2.NOg + Og -> 2NO2 (g) Mitrogendioxide is in dissolved in worter in presence of oxygen forming nitric good. The acid formed is heated with ammonia gas to form ammonium nitrate. NH39 + HNO39 -> NH4NO3 Gg) The amonium nitrate fertilizer is further condition and converted into solid form. Side effects and mitigations. Some fortilizes when dissolved in water form acidic solution that after soil ptt, hence low crop production Kun off into wanter bodies promoting invesised algae growth thus oxygen supply is out off leading to sufficiation of aquatic animalls. these can be mitigated by using organic fertilizers and also proper dispossal of these tertilizer in piper which are far from water bodies. Social benefits. Social benefits.

Source of government revenue since reside the production plant is taxed and that revenue collected is used to improve on other sectors such as the medical sector.

Source 1 of configurent opportunites to some peo since some residents get salaries hence improving standards of living. Item 4 Raw materials; - Starch containing material eq. maire, cousava, or glucore. Sweet totato, milled corgulum MANUFACTURE OF ETHANOL - Malt, yeast farch containing material was crushed and roasted to extract starch. Maire is crushed to extract malt-Malt anterior an enzyme diastase that cortalyses hydrolyris Millet or Sorghum is then burried in the soil for about to 3 days, to obtain yeart which confains an enzyme mattace. That catalyses the hydrolypis of maltose to glucose Zymase enzyme also in yeart cartalyses the decomposition of glucose to crude ethanol and carbondroxide. C6 H12 O6(5) -> 2 C2 H50 Hay +2 CO2(9) Crucle esthanol is converted to the esthanol by fractional distillation. Side effect and mitigation. Ethanol epills on the surface leading to falls on Surface ... burns during, distillation. these can be mitigated putting on personal protective equipments. Sound beneats. Employment opportunites to people, making them earn calaries Source of revenue to the government through the taxes collected hence improved infrustructures.