The small pelagic in Jeneponto is highly potential, but since 2001-2004 years there are degradation indication of haul activity which marked by degradation of mini purse seine number. The objectives of the research are: 1) to estimate the level of MEY exploiting of small pelagis becoming target of mini purse seine, and 2) to determine production factors which is playing a part in improvement of productivity of mini purse seine. The production surplus method, Gordon Schaefer model and multiple regression analysis were used in this study. The result from bio-economic analysis showed that at actual condition have come near optimum level for exploiting of small pelagic. The optimum catch of small pelagic is 3.783,376,09 kilogram per year with standard effort of 8.723 trip per year. Specially far mini purse seine, optimum effort is 47% from standard effort or equivalent by 26 unit of gears. Production factors that give significant effect to fish production of mini purse seine are machine strength, mini purse seine length and number of lamp.