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Large cities in developing countries suffer from heavy air pollution problems generated mainly by industries and public transportation. The problem becomes more intense in the winter as a consequence of thermal inversion. Several techniques have been tried without significant results. Incineration of wastes is used without the proper disposal of the contaminated smoke generated. High chimneys are also used but that procedure only moves the air pollution to far away places. The technique here proposed deals with equipments like bag filters and eletrostatic precipitators. Bag filters can be used when the particle size is bigger than 1 micron. For particles smaller than that the eletrostatic precipitator is recommended. These devices are already in use and the results are very encouraging. It is the purpose of this paper to present the design of the equipments above referred and discuss its efficiency. The final conclusion of the publication is that bag filters and eletrostatic filters are viable for the pollution problem in large urban areas of developing countries.