



Silt, sand and other insoluble materials transported by the streams as suspended load, bed load and wash load, present problems of vital importance with regard to successful operation of many projects concerning flood control, soil conservation, irrigation, navigation, water power development etc. Different types of samplers like suspended sediment load samplers, bed load samplers, bed material samplers exist. Sediment samplers are used for collection and estimation of the quantity of suspended materials which remain in suspension for considerable periods of time and move with almost the same velocity as the stream.

This is the most common type of suspended sediment Sampler it consists of a metallic one litre capacity bottle held vertically in the metallic frame at one of an adequate length of pipe with lever attached to the lower end and a flexible wire running with the help of one spring and lever for opening and closing the mouth of bottle fitted with rubber cock during sampling. The sampler has advantages, of low cost, simplicity in design and operation. The frame provides arrangement for housing one litre bottle in vertical direction. It is attached to a spring cylinder (or lower pipe) and to upper pipe, through which a flexible metallic wire or rod is passed. At the lower end of the a strong rubber cork to suit the size of the mouth of bottle is fixed and at the upper end of the rod a lever arrangement for raising or lowering the rubber cork is fixed. The spring fitted inside the cylinder helps in keeping the rubber cork tightly pressed against the mouth of the bottle to keep it effectively closed. The lever is pressed for raising the cork and to open the mouth of the bottle for the requisite time determined earlier for the conditions under examination to fill the bottle with water sediment mixture. On release of the lever the cork again fits in the mouth of the bottle under the action of the spring

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**** Drawing / specifications are subjected to change at any time without prior notice as per manufacturing suitability.**