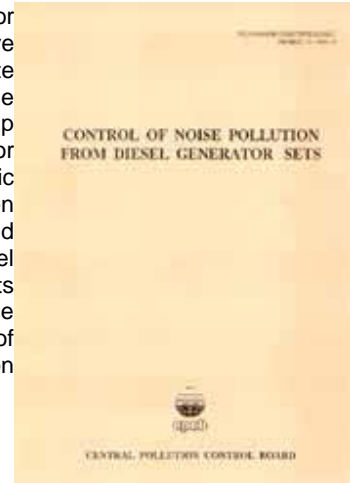


Control of Noise Pollution from Diesel Generator Sets

Foreword

In recent years the shortage of power coupled with unreliable and poor quality of the power supply has resulted in a proliferation of captive generator sets, run with either diesel, petrol or kerosine, as an alternate source of power. This is happening, particularly, in urban areas where the need is greater. Unfortunately, in most of these places there is an overlap of commercial, residential and industrial areas which together with poor planning for the installation of generator sets and absence of any acoustic treatment/enclosure, leads to excessive noise pollution. An effort has been made, here, to tackle this problem through prescribing noise standards and developing guidelines for providing acoustic enclosure/treatment for diesel run generator (DG) sets. The study includes the noise analysis of DG sets covering the power range of 15 -500 KV A (1500 RPM), prescribing noise standards at the manufacturing stage and at the user's end, design of acoustic enclosure and developing guidelines for control of noise pollution from DG sets.



The services of Prof. M.L.Munjal, Indian Institute of Science, Bangalore and M/S Lotus Energy Systems, Bangalore, in carrying out this study, are gratefully acknowledged.

The study was carried out under the guidance of Dr.B.Sengupta, Additional Director & I/C (PCI -II) and coordinated by Shri G.KMendiratta, Environmental Engineer. Typing services have been rendered by Shri Tara Singh, LDC.

It is expected that the document will be useful to the manufacturers and users of DG sets, regulatory agencies, consultants and others concerned with noise pollution and its control.

A handwritten signature in black ink, appearing to read 'Dilip Biswas', is written above the printed name.

Dilip Biswas
Chairman, CPCB