

**ANNEXURE-VII**  
**EMISSION CALCULATIONS**

**Emission Calculations**

• **DG set (3x750 kVA)**

**SO<sub>2</sub>**

Fuel consumption (HSD)	=	900 l/day = 37.5 l/hr
Sulphur Content in fuel	=	2%
Sulphur dioxide emission factor	=	$(2/100) \times (64/32) = 0.04$
SO <sub>2</sub> emission rate	=	37.5 x 0.04
	=	1.5 kg/ hr = 0.41 g/s
	=	0.41*3 = 1.25

**NO<sub>x</sub>**

Fuel consumption (HSD)	=	900 l/day = 37.5 l/hr
Emission Factor	=	4.8 g/l
	=	$4.8 \times 37.5 / 3600 = 0.5 \text{ g/s}$
	=	$0.5 \times 3 = 0.15 \text{ g/s}$