Section L: Monitoring Data from Stack sampling

To be filled by the Environmental Laboratory.

K1.1a	**Industry ID**	GJS|___|___|___|
	Industry Name	_____
	Stack Test Report ID/No.	_____
	Stack attached to:	☐ Boiler: _____TPH ☐ Thermopack: _____ U ☐ Boiler and Thermopack
K1.5	**Date of Sampling** *(DD/MM/2014)*	|__ __| / |__ __|/ 201__

				Unit of Measurement	Preferred Unit
1	**Barometric Pressure (P_{bar})**				mm Hg
2	**Dry Molecular Weight (M_d)** M_d = 0.44*(%CO_2)+0.32*(%O_2)+0.28*(%N_2+%CO)				
3	**Volume of condensate (V_c) in ml**				ml
4	**Suction at meter (P_m)**	Initial (P_{m0})			mm Hg
		Final (P_{m1})			mm Hg
5	**Equivalent Vapor of Condensate (V_v)** V_v = {(V_C *22.4)/18*1000)} × (T_m /273) × {760/(P_{bar} - P_m)}				m^3
6	**Moisture in flue gas (M%)** M% = { V_v / (V_v + V_m)} * 100				%
7	**Proportion of Water Vapor (B_{wo})** B_{wo} = {V_v / (V_v + V_m)}				
8	**Wet Molecular Weight (M_s)** M_s = M_d (1 – B_{wo}) + 18 B_{wo}				
9	**Stack Gas Velocity (U_s)** U_s = K_P * C_P * {(ΔP)$^{0.5}$} X {T_S /(P_S * M_S)} 0.5				m/s
10	**Dry stack gas volumetric flow rate (Q_s)** Q_s = {3600 * U_S * A_S * (1 – B_{wo})} * {(T_S /T_{STD}) * (P_S /P_{STD})				Nm^3/hr

Comments p1: