


ISOKINETIC TEST RESULTS

GESA

GESABOILER2

		REGULAR COAL		OUR ECO COAL	
	DATE:	17-May-19		15-May-19	
	START TIME	9:20 AM	10:28 AM	1:00 PM	2:05 PM
	STOP TIME	10:20 AM	11:28 AM	2:00 PM	3:05 PM
PARAMETER	TEST NUMBER	1	2	2	3
ISOKINETIC ACCURACY	%	95.39	93.27	90.53	95.22
CO ₂	%	8		8	
O ₂	%	15		15	
BAROMETRIC PRESSURE	mm Hg	650.3	650.3	650.3	650.3
STATIC PRESSURE	mm H ₂ O	-4		-4	
ABSOLUTE PRESSURE	mm Hg	650.0	650.0	650.0	650.0
MOISTURE CONTENT	%	4.8	4.6	3	4.8
GAS TEMPERATURE	Deg C	137	137	125	125
ROUND DUCT SIZE	m	0.125		0.125	
SQUARE DUCT SIZE	m	Width	0	0	Depth
DUCT AREA	m ²	0.01		0.01	
GAS DENSITY	g/g -mole	29.21	29.31	29.48	29.52
VELOCITY HEAD	mm H ₂ O	5.4	5.4	7.0	7.0
SAMPLE TIME	Sec	3600	3600	3600	3600
GAS VELOCITY	m/s	10.0	10.0	11.2	11.2
GAS VOLUME (actual)	m ³ /s (actual)	0.12	0.12	0.14	0.14
GAS VOLUME NTP (wet)	Nm ³ /s (wet)	0.08	0.08	0.09	0.09
GAS VOLUME NTP (dry)	Nm ³ /s (dry)	-0.88	-0.88	-0.88	-0.86
NOZZLE DIAMETER.	mm	5	5	5	5
SAMPLED VOLUME (dry)	m ³	0.46	0.45	0.53	0.56
SAMPLED VOL NTP (dry)	Nm ³	0.39	0.39	0.44	0.45
PARTICULATE COLLECTED	mg	113.6	105.2	64.8	73.6
PARTICULATE BURDEN NTP (dry)	mg/Nm ³ (dry)	287.68	271.97	147.63	161.86
PARTICULATE EMISSION RATE	mg/s	20.68	19.59	12.42	13.41
LEGAL LIMIT	mg/Nm ³ (dry)	120		120	
COMPLIANCE TO LEGAL LIMIT		NO	NO	NO	NO
GASEOUS SAMPLING RESULTS					
Sulphur Dioxide (SO₂)	TEST NUMBER	1	2	2	3
POLLUTANT COLLECTED	mg	740	605	458	482
POLLUTANT BURDEN NTP (dry)	mg/Nm ³ (dry)	1873.2	1532.0	932.3	981.2
LEGAL LIMIT	mg/Nm ³ (dry)	1000		1000	
COMPLIANCE TO LEGAL LIMIT		NO	NO	YES	YES
Nitrogen Dioxide (Nox)	TEST NUMBER	1	2	2	3
POLLUTANT COLLECTED	mg	2	2	3	2
POLLUTANT BURDEN NTP (dry)	mg/Nm ³ (dry)	5.6	5.6	6.0	4.5
LEGAL LIMIT	mg/Nm ³ (dry)	500		500	
COMPLIANCE TO LEGAL LIMIT		YES	YES	YES	YES
Volatile Organic Compounds (VOC)	TEST NUMBER	1	2	2	3
POLLUTANT COLLECTED	mg	0.0000	0.0000	0.0000	0.0000
POLLUTANT BURDEN NTP (dry)	mg/Nm ³ (dry)	0.0000	0.0000	0.0000	0.0000
LEGAL LIMIT	mg/Nm ³ (dry)	150		150	
COMPLIANCE TO LEGAL LIMIT		YES	YES	YES	YES