



**ИЗПЪЛНИТЕЛНА АГЕНЦИЯ ПО ОКОЛНА СРЕДА - СОФИЯ**  
**РЕГИОНАЛНА ЛАБОРАТОРИЯ - ПЛОВДИВ**

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Sheet 1

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## **TESTING PROTOCOL**

**No. 1305/2010**

**Date: 08.10.2010**

Accredited testing laboratory

Certificate No 69LI/valid until 30.11.2012

Issued by the Bulgarian Accreditation Service -

Executive Agency at the Ministry of Economy, Energy and Tourism

**1. Air**

3344.10 - emissions, Kupel village (41°26,015'N ; 25°40,078' E)

7:00 PM hrs./01.10.2010÷7:00 PM hrs./02.10.2010

(name of product; type of component for testing and describing; sampling site)

**2. Company which requested the testing: BALKAN MINERAL AND MINING EAD, Contract No. 4/27.09.2010, Order No. 14/27.09.2010**

(name of the Company, No. and date of the sampling protocol )

**3. 3 Method of testing: ISO 4224, ISO 13694, ISO 10498, ISO 7996**

(name and no. of the standards or validated methods)

**4. Date of receiving of samples for testing in the laboratory: 27/09/2010**

**5. Quantity of tested samples: -**

(quantity of samples/ and their mass)

**6. Date/period of the testing: 27.10.2010**

**MANAGER OF THE INDEPENDENT  
LABORATORY**

**Eng. Stanka Chokova**

(family name, signature, seal)

## 7. TEST RESULTS:

Type of testing/characteristics	Carbon oxide (CO)	Ozone	Sulfur dioxide		Nitric oxide	Nitrogen dioxide
Standard/validated method	ISO 4224	ISO 13694	ISO 10498		ISO 7996	ISO 7996
Unit of measurement	mg/m <sup>3</sup>	μg <sup>3</sup> m3	μg <sup>3</sup> m3		μg <sup>3</sup> m3	μg <sup>3</sup> m3
Parameter value and tolerance parameter	10  /nlt. 8 krs./	120  /nlt. 8 krs./	350 Average Hourly Rate	125 Avera ge Daily Rate	-	200  Average Hourly Rate
Regulation No.	12/15.07.2010					
Flow Number	CO	O <sub>3</sub>	SO <sub>2</sub>		NO	NO <sub>2</sub>

### Test results (below detection) within the scope of accreditation

Year	Month	Day hours	Hour	CO	O <sub>3</sub>	SO <sub>2</sub>	NO	NO <sub>2</sub>
2010	10	01	2000	<0.3*	52 ±1	<9*	<9*	<9*
2010	10	01	2100	<0.3*	50 ±1	<9*	<9*	<9*
2010	10	01	2200	<0.3*	51 ±1	<9*	<9*	<9*
2010	10	01	2300	<0.3*	46 ±1	-	<9*	<9*
2010	10	01	2400	<0.3*	48 ±1	28 ± 2	<9*	<9*
2010	10	02	0100	<0.3*	45 ±1	35 ± 3	<9*	<9*
2010	10	02	0200	<0.3*	38 ±1	33 ± 3	<9*	<9*
2010	10	02	0300	<0.3*	31 ±1	42 ± 3	<9*	<9*
2010	10	02	0400	<0.3*	23 ±1	52 ± 4	<9*	<9*
2010	10	02	0500	<0.3*	22 ±1	62 ± 5	<9*	<9*
2010	10	02	0600	<0.3*	26 ±1	69 ± 5	<9*	<9*
2010	10	02	0700	<0.3*	26 ±1	69 ± 6	<9*	<9*
2010	10	02	0800	<0.3*	18 ±1	69 ± 6	<9*	<9*
2010	10	02	0900	<0.3*	23 ±1	69 ± 6	<9*	<9*
2010	10	02	1000	<0.3*	26 ±1	69 ± 6	<9*	<9*
2010	10	02	1100	0.3 ± 0.1	35 ±1	-	<9*	<9*
2010	10	02	1200	<0.3*	58 ±1	<9*	<9*	<9*
2010	10	02	1300	0.3 ± 0.1	72 ±1	<9*	<9*	<9*
2010	10	02	1400	0.5 ± 0.1	76 ±1	<9*	<9*	<9*
2010	10	02	1500	<0.3*	74 ±1	<9*	<9*	<9*
2010	10	02	1600	0.7 ± 0.1	79 ±1	<9*	<9*	<9*
2010	10	02	1700	0.3 ± 0.1	73 ±1	<9*	<9*	9 ± 1
2010	10	02	1800	0.3 ± 0.1	76 ±1	<9*	<9*	<9*
2010	10	02	1900	<0.3*	72 ±1	<9*	<9*	<9*

## 8. Additional Information

Meteorological parameters						
Type of testing/characteristics	Air temperature temperature	Air pressure	Wind direction	Wind speed	Relative humidity	Sunshine duration
Unit of measurement	°C	mBar	-	m/s	%	W/m <sup>2</sup>
Flow Number	Temp	Baro	WDIR	SPEED	Humid	Solar

Additional information - meteorological parameters

Year	Month	Day hours	Hour	Temp	Baro	WDIR	SPEED	Humid	Solar
2010	10	01	2000	18.6	976	7	0.00	66.6	11.2
2010	10	01	2100	13.1	977	7	0.00	69.0	11.3
2010	10	01	2200	12.4	977	8	0.00	70.8	11.5
2010	10	01	2300	11.6	977	7	0.30	76.1	10.6
2010	10	01	2400	10.4.	978	8	1.15	82.3	10.4.
2010	10	02	0100	9.6	978	8	0.00	86.6	11.0
2010	10	02	0200	8.4	978	8	0.70	92.8	10.7
2010	10	02	0300	7.9	979	8	0.45	93.8	10.6
2010	10	02	0400	6.8	979	6	0.15	96.7	10.7
2010	10	02	0500	6.6	979	8	0.20	100.0	11.2
2010	10	02	0600	6.4	979	7	0.00	100.0	11.8
2010	10	02	0700	6.3	979	8	0.35	100.0	11.2
2010	10	02	0800	6.4	979	4	0.00	100.0	14.9
2010	10	02	0900	6.8	980	7	0.00	100.0	88.4
2010	10	02	1000	8.4	981	6	0.15	95.8	197.4
2010	10	02	1100	10.7	982	4	0.00	85.0	292.9
2010	10	02	1200	13.5	981	5	0.10	73.8	583.1
2010	10	02	1300	15.9	981	2	0.10	65.2	769.1
2010	10	02	1400	17.0	980	1	0.20	59.8	747.4
2010	10	02	1500	17.2	979	6	0.15	57.9	257.9
2010	10	02	1600	16.8	979	5	0.00	59.3	236.5
2010	10	02	1700	16.5	979	5	0.00	61.3	145.6
2010	10	02	1800	16.0	980	6	0.00	61.7	118.9
2010	10	02	1900	15.2	980	7	0.00	65.3	83.5

**LEGEND:** \* the measured value is less than the limit for the determining of the method.

**NOTE :** The data from p. 8 are received by using non-calibrated methods for measurement and are beyond the scope for accreditation.

The test results refer only to the tested samples.

Excerpts of the protocol of testing should not be copied without the written consent of the testing laboratory.

**PERSONS WHO CARRIED OUT THE TESTING:**

**Eng. Hr. Angelov**  
 (family name, signature)

**MANAGER OF THE INDEPENDENT LABORATORY:**

**Eng. St. Chokova**  
 (family name, signature)