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# БАЯЖУУЛСАН НҮҮРСНИЙ ҮЗҮҮЛЭЛТ

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№ ETT\_SP\_CC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

<p><b>НИЙТ ЧИЙГ (ar)</b></p> <p><b>10.0%</b></p> <p>max</p>	<p><b>ҮНСЛЭГ (db)</b></p> <p><b>10.5%</b></p> <p>max</p>	<p><b>ДЭГДЭМХИЙ (daf)</b></p> <p><b>28.0%</b></p> <p>max</p>
<p><b>НИЙТ ХҮХЭР (db)</b></p> <p><b>0.8%</b></p> <p>max</p>	<p><b>БАРЬЦАЛДАХ ЧАНАР</b></p> <p><b>75.0</b></p> <p>min</p>	<p><b>НҮҮРСНИЙ ХЭМЖЭЭ</b></p> <p><b>64.0</b></p> <p>МЯН.ТН</p>

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

ALS GROUP LLC  
Mongol National Building, 2nd khoroo  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +976 70 007667



CERTIFICATE OF ANALYSIS  
24J99-24J143-TT

**CLIENT:** Erdenes Tavantolgoi JSC  
**ADDRESS:** Finance Center, Jigjidjav-8  
1st khoroo, Chingeltei District  
Ulaanbaatar, Mongolia  
**ATTN:** Jambaljamts.G  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 24J99-24J143-TT  
**NO. SAMPLES:** 18  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 10/10/2024 14/10/2024  
**INSTRUCTIONS RECEIVED:** 10/10/2024 14/10/2024  
**DATE OF REPORT:** 10/10/2024 14/10/2024  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 10/10/2024 14/10/2024  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** 1.1\_COOKING COAL  
1.2\_COOKING COAL  
2.1\_THERMAL COAL  
2.1\_URGENT  
TM, MOIS, ASH, VOL, TSA, GCV, CSM, OCVN  
**APPROVED BY:** Laboratory Manager  
Quality Manager  
**CHECKED BY:** Chief Chemist

These test results are representative only of the sample received in the laboratory.

LAB NO.	SAMPLE NO.	STANDARD METHOD				AS RECEIVED BASIS		AIR DRIED BASIS						
		GB/T 211	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	Moisture (MOIS)	Ash (ASH)	Volatle Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	
		Total Moisture (TM)	Ash (ASH)	Volatle Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	%						
		kcal/kg												
1	CHPP-CC 2024.10.10 14:00	11.13	9.37	20.41	59.09	0.52	6893	0.51	10.49	22.85	66.15	0.38	7717	
2	CHPP-CC 2024.10.10 16:00	10.17	9.66	20.36	59.81	0.51	6935	0.61	10.69	22.52	66.18	0.57	7673	
3	CHPP-CC 2024.10.10 18:00	11.59	9.61	19.71	59.09	0.52	6790	0.65	10.79	22.15	66.41	0.58	7631	
4	CHPP-CC 2024.10.10 20:00	9.55	10.23	20.04	60.18	0.55	6997	0.67	11.23	22.01	66.10	0.61	7684	
5	CHPP-CC 2024.10.11 12:00	14.46	7.59	19.68	58.28	0.48	6768	0.59	8.82	22.87	67.72	0.55	7865	
6	CHPP-CC 2024.10.11 14:00	9.63	9.24	20.00	61.13	0.52	7009	0.55	10.17	22.01	67.28	0.57	7713	
7	CHPP-CC 2024.10.11 16:00	14.08	8.59	18.66	58.48	0.51	6882	0.59	9.93	21.82	67.66	0.59	7731	
8	CHPP-CC 2024.10.11 18:00	11.44	8.87	19.87	59.81	0.51	6895	0.53	9.96	22.32	67.18	0.57	7790	
9	CHPP-CC 2024.10.11 20:00	16.38	7.81	18.63	57.17	0.48	6553	0.75	9.28	22.12	67.86	0.60	7655	
10	CHPP-CC 2024.10.12 12:00	13.04	9.26	19.38	58.32	0.53	6699	0.63	10.59	22.14	66.64	0.60	7622	
11	CHPP-CC 2024.10.12 16:00	12.21	9.72	19.40	58.68	0.52	6738	0.69	10.99	21.94	66.38	0.59	7622	
12	CHPP-CC 2024.10.13 12:00	12.20	8.95	19.80	59.04	0.51	6861	0.67	10.13	22.41	66.80	0.58	7762	
13	CHPP-CC 2024.10.13 14:00	10.29	9.27	19.92	60.53	0.56	6947	0.66	10.26	22.06	67.02	0.62	7693	
14	CHPP-CC 2024.10.13 16:00	10.83	9.37	19.99	59.81	0.54	6889	0.55	10.45	22.30	66.71	0.60	7683	
15	CHPP-CC 2024.10.13 20:00	9.83	9.32	20.37	60.48	0.54	6983	0.68	10.27	22.43	66.62	0.60	7692	

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16	CHPP-CC 2024.10.14 12:00	16.71	8.51	18.82	55.96	0.45	6436	0.49	10.16	22.49	66.86	0.54	7690
17	CHPP-CC 2024.10.14 14:00	15.60	8.49	18.71	57.19	0.47	4529	0.59	10.00	22.04	67.36	0.55	7690
18	CHPP-CC 2024.10.14 16:00	19.35	7.68	19.34	53.63	0.43	6281	0.58	9.47	23.84	66.11	0.53	7744

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDALSWS-40/23	ASH	VOL	GCV	TSUL
Certified Value	10.67	20.55	7696	0.620
Standard Deviation	0.056	0.137	24	0.0144
Unit	%	%	kcal/kg	%
Analyzed value	10.66	20.53	7704	0.621

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**NO. SAMPLES:** 18  
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**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 10/10/2024 14/10/2024  
**PREPARATION CODE:** CRUSH-01, G2; MILL-01  
**ANALYSIS CODE:** 1.1. COKING COAL  
1.3. COKING COAL  
2.1. THERMAL COAL  
3.1. URGENT  
TM, MOIS, ASH, VOL, TSUL, GCV,  
CSN, CEN

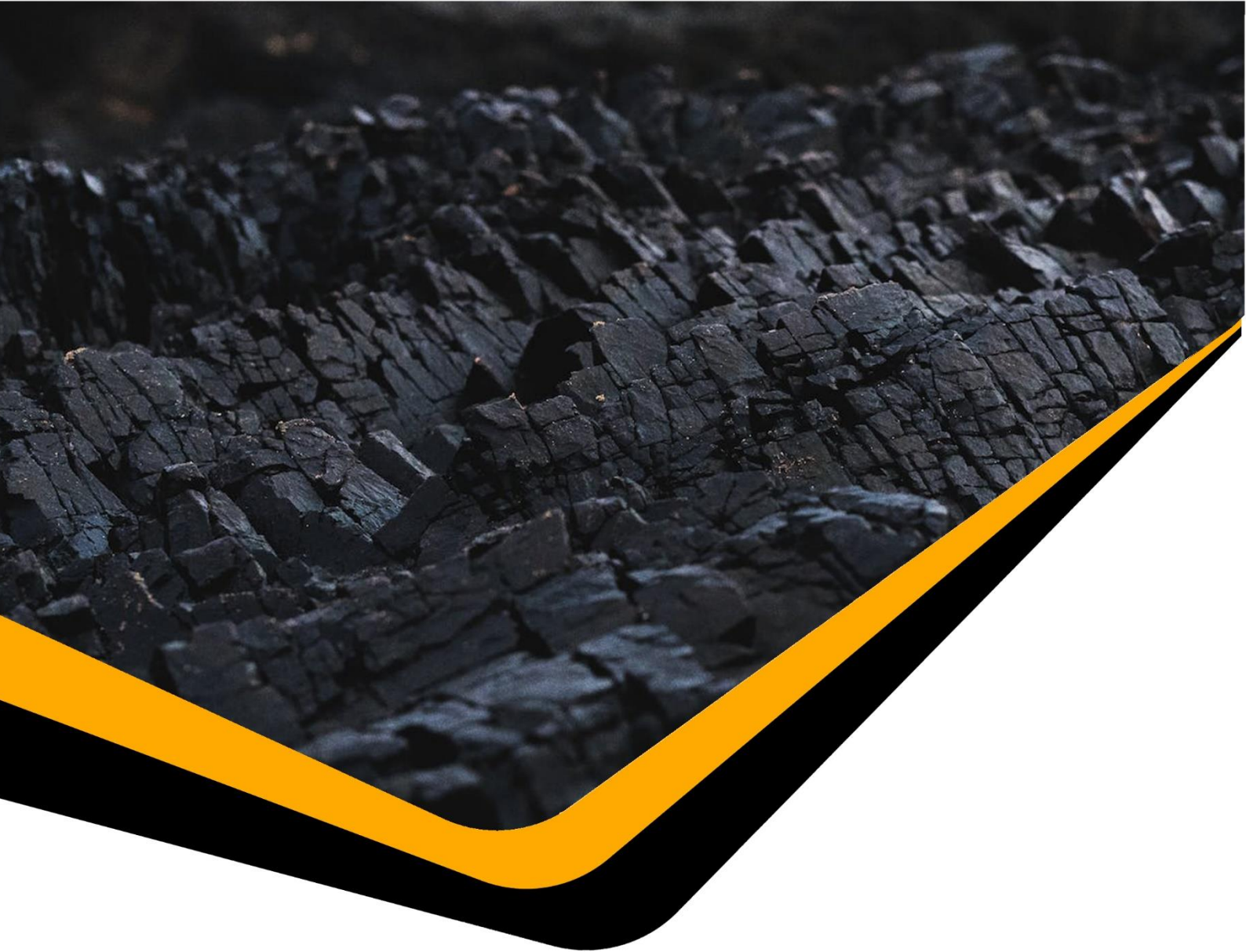
*These are results of a representative only of the sample received in the laboratory.*

LAB NO.	SAMPLE NO.	GB/T 212		GB/T 212		ISO 19579		GB/T 213		GB/T 212		ISO 19579		GB/T 213		GB/T 5448		GB/T 5447	
		Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)							
		%		%		kcal/kg		%		kcal/kg				5:1	3:3				
1	CHPP-CC 2024.10.10 14:00	10.54	22.97	66.49	0.59	7756	25.68	74.32	0.66	8670	7.0	82	-	-	-	-	-		
2	CHPP-CC 2024.10.10 16:00	10.75	22.66	66.58	0.57	7721	25.39	74.61	0.64	8651	6.5	79	-	-	-	-	-		
3	CHPP-CC 2024.10.10 18:00	10.86	22.30	66.84	0.58	7680	25.01	74.99	0.66	8617	6.5	79	-	-	-	-	-		
4	CHPP-CC 2024.10.10 20:00	11.31	22.16	66.54	0.61	7736	24.98	75.02	0.69	8722	6.5	77	-	-	-	-	-		
5	CHPP-CC 2024.10.11 12:00	8.87	23.01	68.12	0.56	7911	25.25	74.75	0.61	8681	7.0	86	-	-	-	-	-		
6	CHPP-CC 2024.10.11 14:00	10.22	22.13	67.65	0.57	7756	24.65	75.35	0.64	8639	6.5	81	-	-	-	-	-		
7	CHPP-CC 2024.10.11 16:00	9.99	21.95	68.06	0.59	7777	24.38	75.62	0.66	8640	6.5	82	-	-	-	-	-		
8	CHPP-CC 2024.10.11 18:00	10.01	22.44	67.54	0.57	7786	24.94	75.06	0.64	8653	7.0	82	-	-	-	-	-		
9	CHPP-CC 2024.10.11 20:00	9.35	22.28	68.37	0.57	7849	24.58	75.42	0.63	8658	7.0	83	-	-	-	-	-		
10	CHPP-CC 2024.10.12 12:00	10.65	22.28	67.06	0.61	7704	24.94	75.06	0.68	8622	6.5	80	-	-	-	-	-		
11	CHPP-CC 2024.10.12 16:00	11.07	22.09	66.84	0.59	7675	24.84	75.16	0.67	8630	6.5	78	-	-	-	-	-		
12	CHPP-CC 2024.10.13 12:00	10.19	22.56	67.25	0.58	7814	25.12	74.88	0.65	8701	7.0	81	-	-	-	-	-		
13	CHPP-CC 2024.10.13 14:00	10.33	22.20	67.46	0.62	7743	24.76	75.24	0.70	8636	7.0	78	-	-	-	-	-		
14	CHPP-CC 2024.10.13 16:00	10.50	22.42	67.07	0.60	7725	25.06	74.94	0.68	8632	7.0	78	-	-	-	-	-		
15	CHPP-CC 2024.10.13 20:00	10.34	22.58	67.08	0.60	7744	25.19	74.81	0.67	8638	6.5	80	-	-	-	-	-		

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16	CHPP-CC 2024.10.14 12:00	10.21	22.60	67.19	0.54	7728	25.17	74.83	0.61	8607	7.0	78	-
17	CHPP-CC 2024.10.14 14:00	10.06	22.17	67.77	0.56	7736	24.65	75.35	0.62	8602	7.0	78	-
18	CHPP-CC 2024.10.14 16:00	9.53	23.98	66.49	0.53	7789	26.50	73.50	0.59	8609	7.0	82	-

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Финанс төв, 1-р хороо,  
Чингэлтэй дүүрэг,  
Улаанбаатар хот

