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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

|   |   |  |
|---|---|--|
| <b>НИЙТ ЧИЙГ (ar)</b><br><b>≤10.0%</b>  | <b>ҮНСЛЭГ (db)</b><br><b>≤10.5%</b>     | <b>ДЭГДЭМХИЙ (daf)</b><br><b>≤28.0%</b>                |
| <b>НИЙТ ХҮХЭР (db)</b><br><b>≤0.85%</b> | <b>БАРЬЦАЛДАХ ЧАНАР</b><br><b>≥80.0</b> | <b>НҮҮРСНИЙ ХЭМЖЭЭ</b><br><b>19.2</b><br><b>МЯН.ТН</b> |

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

ALS GROUP LLC  
Mongol National Building, 19nd khoroо  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +974 70 007467



CERTIFICATE OF ANALYSIS  
25G61,G74,G85,G98,G115,G320,G347,G360,G374,G403,H21,H43-TT

**CLIENT:** Erdenes Tavantolgoi JSC  
**ADDRESS:** Finance Center, Jigjidjav-8  
1st khoroо, Chingeltei District  
Ulaanbaatar, Mongolia  
**ATTN:** Jambaljamts.G  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 25G61,G74,G85,G98,G115,G320,G347,G360,G374,G403,H21,H43-TT  
**NO. SAMPLES:** 13  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 5/07/2025 2/08/2025  
**INSTRUCTIONS RECEIVED:** 5/07/2025 2/08/2025  
**DATE OF REPORT:** 5/07/2025 2/08/2025  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 5/07/2025 2/08/2025  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** 1.3\_COKING COAL  
TM, MOIS, ASH, VOL, TSUL  
GCV, CSN, COKIN

APPROVED BY: Laboratory Manager  
B.BofteErdene



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

| LAB NO. | SAMPLE NO.               | STANDARD METHOD     |           |                       |                   |                      |                             |                 |           |                       |                   |                      |                             |
|---------|--------------------------|---------------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|-----------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|
|         |                          | GB/T 211            | GB/T 212  | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    | GB/T 212        | GB/T 212  | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    |
|         |                          | AS RECEIVED BASIS   |           |                       |                   |                      | AIR DRIED BASIS             |                 |           |                       |                   |                      |                             |
|         |                          | Total Moisture (TM) | Ash (ASH) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) | Moisture (MOIS) | Ash (ASH) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) |
|         |                          | %                   |           |                       |                   |                      | kcal/kg                     | %               |           |                       |                   |                      | kcal/kg                     |
| 1       | CHPP-CC 2025.07.05_com   | 11.10               | 8.97      | 21.69                 | 58.24             | 0.57                 | 6907                        | 0.79            | 10.01     | 24.21                 | 65.00             | 0.63                 | 7709                        |
| 2       | CHPP-CC 2025.07.06_com   | 8.10                | 9.75      | 22.27                 | 59.88             | 0.61                 | 7071                        | 0.71            | 10.53     | 24.06                 | 64.70             | 0.66                 | 7640                        |
| 3       | CHPP-CC 2025.07.07_com   | 9.41                | 9.54      | 21.90                 | 59.15             | 0.62                 | 6970                        | 0.62            | 10.46     | 24.03                 | 64.89             | 0.69                 | 7646                        |
| 4       | CHPP-CC 2025.07.08_com   | 6.57                | 9.99      | 22.49                 | 60.94             | 0.61                 | 7194                        | 0.64            | 10.62     | 23.92                 | 64.81             | 0.65                 | 7651                        |
| 5       | CHPP-CC 2025.07.09_com-1 | 9.95                | 9.07      | 21.83                 | 59.16             | 0.59                 | 6967                        | 0.65            | 10.00     | 24.09                 | 65.26             | 0.65                 | 7686                        |
| 6       | CHPP-CC 2025.07.09_com-2 | 9.51                | 10.67     | 25.07                 | 54.75             | 0.55                 | 6902                        | 0.80            | 11.69     | 27.48                 | 60.02             | 0.60                 | 7566                        |
| 7       | CHPP-CC 2025.07.25_com   | 9.49                | 9.19      | 22.15                 | 59.17             | 0.61                 | 6970                        | 0.70            | 10.09     | 24.30                 | 64.92             | 0.67                 | 7647                        |
| 8       | CHPP-CC 2025.07.27_com   | 9.25                | 9.40      | 22.26                 | 59.09             | 0.64                 | 7012                        | 0.65            | 10.29     | 24.37                 | 64.69             | 0.70                 | 7676                        |
| 9       | CHPP-CC 2025.07.28_com   | 10.24               | 9.82      | 21.26                 | 58.68             | 0.60                 | 6877                        | 0.70            | 10.86     | 23.52                 | 64.92             | 0.67                 | 7608                        |
| 10      | CHPP-CC 2025.07.29_com   | 9.65                | 9.12      | 22.19                 | 59.04             | 0.67                 | 7025                        | 0.68            | 10.02     | 24.39                 | 64.90             | 0.74                 | 7722                        |
| 11      | CHPP-CC 2025.07.31_com   | 9.45                | 9.13      | 21.99                 | 59.42             | 0.60                 | 7019                        | 0.83            | 10.00     | 24.09                 | 65.08             | 0.66                 | 7687                        |
| 12      | CHPP-CC 2025.08.01_com   | 7.75                | 9.88      | 22.83                 | 59.53             | 0.64                 | 7100                        | 0.77            | 10.63     | 24.56                 | 64.04             | 0.69                 | 7637                        |
| 13      | CHPP-CC 2025.08.02_com   | 9.29                | 9.19      | 22.31                 | 59.21             | 0.61                 | 7048                        | 0.74            | 10.05     | 24.42                 | 64.79             | 0.67                 | 7712                        |

QUALITY ASSURANCE/QUALITY CONTROL DATA

| STDAWS-41/28       | ASH   | VOL   | GCV     | TSUL  |
|--------------------|-------|-------|---------|-------|
| Certified Value    | 10.93 | 20.61 | 7691    | 0.680 |
| Standard Deviation | 0.049 | 0.076 | 12      | 0.007 |
| Unit               | %     | %     | kcal/kg | %     |
| Analyzed value     | 10.93 | 20.66 | 7689    | 0.678 |

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release. COPY RIGHT PROTECTED DOCUMENT

ALS GROUP LLC  
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25G61,G74,G85,G98,G115,G320,G347,G360,G374,G403,H21,H43-TT

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**PROJECT NO.** xxx

**LAB. JOB NO.** 25G61,G74,G85,G98,G115,G320,G347,G360,G374,G403,H21,H43-TT

**NO. SAMPLES:** 13

**Notes/Comments:** xxx

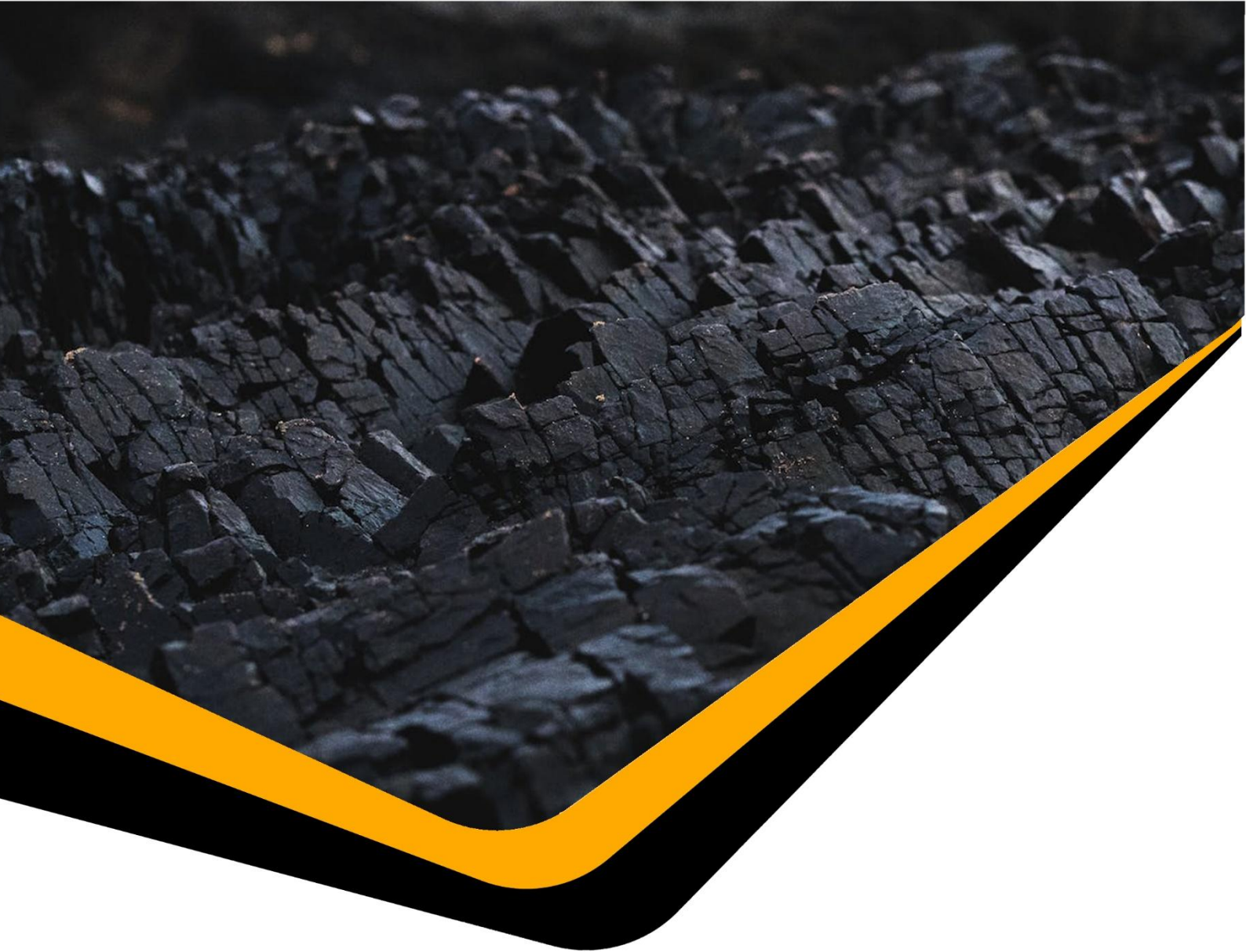
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**ANALYSIS CODE:** 1.3\_COKING\_COAL  
TM, MOIS, ASH, VOL,  
TSUL, GCV, CSN, CKIN

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

| LAB NO. | SAMPLE NO.               | STANDARD METHOD |                       | GB/T 212            | GB/T 212             | GB/T 212                    | ISO 19579             | GB/T 213            | GB/T 212             | GB/T 212                    | ISO 19579 | GB/T 213                       | GB/T 5448                | GB/T 5447 |   |
|---------|--------------------------|-----------------|-----------------------|---------------------|----------------------|-----------------------------|-----------------------|---------------------|----------------------|-----------------------------|-----------|--------------------------------|--------------------------|-----------|---|
|         |                          | DRY BASIS       |                       | DRY, ASH-FREE BASIS |                      | DRY, ASH-FREE BASIS         |                       | DRY, ASH-FREE BASIS |                      | DRY, ASH-FREE BASIS         |           | Crucible Swelling Number (CSN) | Coal Caking Index (CKIN) |           |   |
|         |                          | 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) | 5:1       |                                | 3:3                      |           |   |
|         |                          |                 |                       | %                   |                      | kcal/kg                     |                       | %                   |                      | kcal/kg                     |           |                                |                          |           |   |
| 1       | CHPP-CC 2025.07.05_com   | 10.09           | 24.40                 | 65.51               | 0.64                 | 7770                        | 27.14                 | 72.86               | 0.71                 | 8642                        | 7.0       | 83                             | -                        | -         | - |
| 2       | CHPP-CC 2025.07.06_com   | 10.61           | 24.23                 | 65.16               | 0.67                 | 7694                        | 27.11                 | 72.89               | 0.75                 | 8607                        | 7.0       | 84                             | -                        | -         | - |
| 3       | CHPP-CC 2025.07.07_com   | 10.53           | 24.17                 | 65.30               | 0.69                 | 7694                        | 27.02                 | 72.98               | 0.77                 | 8599                        | 7.0       | 86                             | -                        | -         | - |
| 4       | CHPP-CC 2025.07.08_com   | 10.69           | 24.08                 | 65.23               | 0.65                 | 7700                        | 26.96                 | 73.04               | 0.73                 | 8622                        | 7.0       | 86                             | -                        | -         | - |
| 5       | CHPP-CC 2025.07.09_com-1 | 10.07           | 24.24                 | 65.69               | 0.65                 | 7736                        | 26.96                 | 73.04               | 0.73                 | 8602                        | 7.0       | 87                             | -                        | -         | - |
| 6       | CHPP-CC 2025.07.09_com-2 | 11.79           | 27.70                 | 60.51               | 0.61                 | 7627                        | 31.40                 | 68.60               | 0.69                 | 8646                        | 7.0       | 92                             | -                        | -         | - |
| 7       | CHPP-CC 2025.07.25_com   | 10.16           | 24.47                 | 65.37               | 0.67                 | 7701                        | 27.23                 | 72.77               | 0.75                 | 8571                        | 6.5       | 82                             | -                        | -         | - |
| 8       | CHPP-CC 2025.07.27_com   | 10.35           | 24.53                 | 65.12               | 0.67                 | 7727                        | 27.36                 | 72.64               | 0.79                 | 8619                        | 6.5       | 82                             | -                        | -         | - |
| 9       | CHPP-CC 2025.07.28_com   | 10.94           | 23.69                 | 65.38               | 0.67                 | 7662                        | 26.60                 | 73.40               | 0.75                 | 8602                        | 6.5       | 79                             | -                        | -         | - |
| 10      | CHPP-CC 2025.07.29_com   | 10.09           | 24.56                 | 65.35               | 0.74                 | 7775                        | 27.32                 | 72.68               | 0.82                 | 8648                        | 6.5       | 81                             | -                        | -         | - |
| 11      | CHPP-CC 2025.07.31_com   | 10.09           | 24.29                 | 65.42               | 0.67                 | 7752                        | 27.01                 | 72.99               | 0.74                 | 8622                        | 7.5       | 87                             | -                        | -         | - |
| 12      | CHPP-CC 2025.08.01_com   | 10.71           | 24.75                 | 64.54               | 0.70                 | 7697                        | 27.72                 | 72.28               | 0.78                 | 8620                        | 7.0       | 84                             | -                        | -         | - |
| 13      | CHPP-CC 2025.08.02_com   | 10.13           | 24.60                 | 65.27               | 0.67                 | 7770                        | 27.37                 | 72.63               | 0.75                 | 8646                        | 7.0       | 86                             | -                        | -         | - |

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Чингэлтэй дүүрэг,  
Улаанбаатар хот

