

Laboratory Coal Analysis Laboratory, NTPC-SAIL Power Company Ltd., NSPCL,  
Bhilai-Expansion Project, Bhilai-Dist: Durg, Chhattisgarh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5169 (In lieu of T-3262)

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Validity 24.04.2017 to 12.01.2019

Last Amended on --

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

**CHEMICAL TESTING**

| I. | SOLID FUELS |  |                   |                                 |
|----|-------------|--|-------------------|---------------------------------|
| 1. | Coal        | <b>Proximate Analysis.<br/>(Air Dry Basis)</b> |                   |                                 |
|    |             | Moisture                                       | ASTM D7582: 2012  | 2 % to 28 %                     |
|    |             | Ash  | ASTM D 7582: 2012 | 2.5 % to 45 %                   |
|    |             | Volatile Matter                                | ASTM D 7582: 2012 | 15.0 % to 50 %                  |
|    |             | Fixed Carbon                                   | ASTM D 7582: 2012 | By difference                   |
|    |             | <b>Gross Calorific Value</b>                   |                   |                                 |
|    |             | GCV  | ASTM D5865 : 2012 | 2000 kcal/kg to<br>8000 kcal/kg |

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