

**Laboratory** TSPL Coal Laboratory, Talwandi Sabo Power Limited, Village Banawala, Mansa-Talwandi Sabo Road , Dist. Mansa, Punjab

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5217 (in lieu of T-4368)

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**Validity** 13.01.2017 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 FUEL |                       |   |                 |
|----|------------|-----------------------|---|-----------------|
| 1. | Coal       | Total Moisture        | IS 1350 (Part-1) (E)<br>ASTM D3302/D 3302 M-15                          | 0.5 % to 30 %   |
|    |            | Inherent moisture     | IS: 1350 (Part 1)-1984<br>(RA 2001) clause no.6.3.2.3<br>ASTM D 3173-03 | 1 % to 25 %     |
|    |            | Ash                   | IS: 1350 (Part 1)-1984<br>(RA 2001) clause no.8<br>ASTM D 3174-12       | 1 % to 70 %     |
|    |            | Volatile matter       | IS: 1350 (Part 1)-1984<br>(RA 2001) clause no.7<br>ASTM D3175-07        | 5 % to 60 %     |
|    |            | Fixed Carbon          | IS: 1350 (Part 1)-1984<br>(RA 2001) clause no.9.1.3                     | 10 % to 70%     |
|    |            | Gross Calorific Value | IS: 1350 (Part 11)-1970<br>(RA 2000)<br>ASTM D5865-12                   | 1500 to 6500    |
|    |            | Sulphur               | ASTM D4239-12   | 0.1 % to 1.50 % |

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