

<b>Prüfbericht - Nr.:</b> <i>Test Report No.:</i>	<b>IND/BLR/CH/2019/0391</b>	<b>Seite 1 von 2</b> <i>Page 1 of 2</i>
<b>Auftraggeber:</b> <i>Client:</i>	<b>HEG LIMITED.</b> Graphite Division, Office & Plant-Mandideep(Near Bhopal) , District: Raisen - 462046, Madhya Pradesh, India	
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>	Graphite Electrode Sample	
<b>Bezeichnung:</b> <i>Identification:</i>	Item Code/Indent Tag No.:WRCGRH04150002, CES000014,041-041-STC-C	<b>Serien-Nr.:</b> <i>Serial No./ Document</i> Submitted: WO NO: 1753/WRC004001 WO dated : 11.01.2019
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	19012019	<b>Eingangsdatum:</b> <i>Date of receipt:</i> 19.01.2019
<b>Order No.:</b>	166102573	<b>Testing Period:</b> 25.01.2019 to 28.01.2019
<b>Prüfört:</b> <i>Testing location:</i>	TÜV Rheinland India Pvt Ltd, Plot No.27B, Electronic City Phase I Industrial Area, Hosur Road, Bangalore - 560 100, Karnataka, India.	
<b>Prüfgrundlage:</b> <i>Test specification:</i>	Customer's requirement : For specified parameter	
<b>Prüfergebnis:</b> <i>Test Result:</i>	Refer Page No.2 to 2	
<b>Prüflaboratorium/ Testing Laboratory:</b>		
<b>zusammengestellt/ compiled by:</b>		<b>kontrolliert/ checked by:</b>
29.01.2019	Vijetha CSE, Material Testing Laboratories, Industry Services	29.01.2019 Rajesh Jain B Technical Head, Material Testing Laboratories, Industry Services
<b>Datum</b> <i>Date</i>	<b>Name</b> <i>Name</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Datum</b> <i>Date</i>	<b>Name</b> <i>Name</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges/ Other Aspects: NIL</b>		
<b>Abkürzungen:</b> ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar		
<b>Abbreviations:</b> ok / P = passed fail / F = failed n.a. / N = not applicable		
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. Sampling not done by TUVRI. Test item submitted by Client</i>		

**TEST RESULTS**

<b>Sample Description</b>	Graphite Electrode Sample
Sampling : 1. Submitted Sample drawn by the laboratory : No (If yes please provide the sampling reference)	

**Chemical Composition:**

Sl. No.	Parameter	Unit	Results	Test Method
1	Fixed Carbon Content	%	99.88	Guidelines of ASTM D 7582
2	Gross Calorific value	Kcal/Kg	6461	Guidelines of ASTM D5865
3	Sulphur Content	mg/Kg	235	Guidelines of ASTM C -816/ ICP OES
4	Ash Content	%	0.016	Guidelines of ASTM D 3174
5	Moisture Content	%	< 0.01	Guidelines of ASTM D3172 - 13
6	Volatile Matter	%	0.10	Guidelines of ASTM D3172 - 13
7	Total Carbon	%	99.98	ASTM C 562

**Note:**

1. The reported results are valid only for the items tested.
2. '%' denotes percent by weight
3. mg/kg denotes milligram per kilogram
4. Kcal/Kg Denotes Kilocalories per Kilogram

----- End of Report -----