




Prüfbericht - Nr.: Test Report No.:		IND/BLR/CH/2016/0498 M		Seite 1 von 3 Page 1 of 3	
Auftraggeber: Client:		HEG LIMITED. Graphite Division - Office & Plant Mandideep - 462046, (Near Bhopal) District: Raisen Madhya Pradesh, India			
Gegenstand der Prüfung: Test item:		Graphite Speciality			
Bezeichnung: Identification:		Identification marked as Lot No: 4915-R193-977		Serien-Nr.: Serial No./ Document Submitted: Order No.:080001621 dated 05.06.2014 and Email Dated:04.06.2015	
Wareneingangs-Nr.: Receipt No.:		03122015		Eingangsdatum: Date of receipt: 29.01.2016	
Order No.:		1803039447-1200		Testing Period: 29.01.2016 to 29.01.2016	
Prüfart: Testing location:		HEG Limited. Mandideep - 462046 (Near Bhopal), District. Raisen, Madhya Pradesh, India by Representative from TUV Rheinland India Pvt. Ltd.,			
Prüfgrundlage: Test specification:		Customer's requirement : Analysis of Multi Elements			
Prüfergebnis: Test Result:		Refer to the following page (s). 2 of 3			
Prüflaboratorium/ Testing Laboratory:					
zusammengestellt/ compiled by:				kontrolliert/ checked by:	
 Ravikumar S R		01.02.2016		 Rajesh Jain B	
01.02.2016 Asst. Manager - Material Testing Laboratories, Industry Services		01.02.2016		Technical Head - Material Testing Laboratories, Industry Services	
Datum Date	Name Name	Unterschrift Signature	Datum Date	Name Name	Unterschrift Signature
Sonstiges/ Other Aspects: In addition to the report no IND/BLR/CH/2016/0498 we have done multielements for same sample and we reported as IND/BLR/CH/2016/0498M separate report for the same sample.					
Abkürzungen:		ok / P = entspricht Prüfgrundlage		Abbreviations:	
fail / F = entspricht nicht Prüfgrundlage		n.a. / N = nicht anwendbar		ok / P = passed	
				fail / F = failed	
				n.a. / N = not applicable	
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. <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.</i>					
TUV Rheinland (India) Pvt.Ltd., Plot NO. 17B, Electronic City Phase-II Industrial Area, Hosur Road, Bangalore – 560 100 Tel : +91-80-69001460/ 80-69001456 , Annexure 2,QMA 36.201.02 IND,Revision : 2008.03.17 CIN: U72501KA1996PTC020653					

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TEST RESULTS

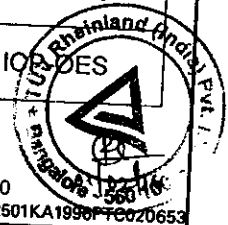
Sample Description:

Graphite Electrode, Identification marked as lot No.: 4915-R193-977

Sampling:

Sample drawn by the laboratory : HEG, LTD, (If yes please provide the sampling reference)

Sl. No.	Test /Parameter	Unit	Result	Test Method
1	Arsenic Content (As)	ppm	ND	ASTM C-561,ICP-OES
2	Boron Content (B)	ppm	ND	ASTM C-561,ICP-OES
3	Barium Content (Ba)	ppm	0.1	ASTM C-561,ICP-OES
4	Calcium Content (Ca)	ppm	3.6	ASTM C-561,ICP-OES
5	Cadmium Content (Cd)	ppm	ND	ASTM C-561,ICP-OES
6	Cobalt Content (Co)	ppm	ND	ASTM C-561,ICP-OES
7	Chromium Content (Cr)	ppm	ND	ASTM C-561,ICP-OES
8	Copper Content (Cu)	ppm	ND	ASTM C-561,ICP-OES
9	Iron Content (Fe)	ppm	25.3	ASTM C-561,ICP-OES
10	Potassium Content (K)	ppm	0.6	ASTM C-561,ICP-OES
11	Lanthanum Content (La)	ppm	ND	ASTM C-561,ICP-OES
12	Lithium Content (Li)	ppm	ND	ASTM C-561,ICP-OES
13	Magnesium Content (Mg)	ppm	ND	ASTM C-561,ICP-OES
14	Manganese Content (Mn)	ppm	ND	ASTM C-561,ICP-OES
15	Nickel Content (Ni)	ppm	ND	ASTM C-561,ICP-OES
16	Phosphorus Content (P)	ppm	ND	ASTM C-561,ICP-OES



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Sl. No.	Test /Parameter	Unit	Result	Test Method
17	Lead Content (Pb)	ppm	ND	ASTM C-561,ICP-OES
18	Selenium Content (Sb)	ppm	ND	ASTM C-561,ICP-OES
19	Silica Content (Si)	ppm	0.3	ASTM C-561,ICP-OES
20	Titanium Content (Ti)	ppm	0.3	ASTM C-561,ICP-OES
21	Vanadium Content (V)	ppm	0.1	ASTM C-561,ICP-OES
22	Zinc Content (Zn)	ppm	1.4	ASTM C-561,ICP-OES

Detection limit: 0.1 ppm

ICP-OES: Denotes 'Inductively Coupled Plasma Optical Emission Spectrometer'

--- End of Test Report ---

