



QUALITY CERTIFICATE

P.O.No	: 04-2015(PI-292)/15-16	Certificate. No.	: 14642/15-16
Customer Name	: Unicom Power Ltd.,	Dated	: 14-08-2015
Product Name	: GARNET	Invoice. No.	: 427/15-16
Grade&Size	: E+(0.425-0.075 mm)	Sample Qty	: 100 gms
Qty for this Lot	: 54 M.Tons.	Marking	: <b>Grade : E+</b>
Date of shipment	: 14-08-2015	Packing	: 1 ton Loose bags.

We hereby Certify that the Garnet shipped for the P.O.No : 04-2015(PI-291)/15-16 is having the following results from our Lab Analysis.

**CHEMICAL ANALYSIS :**

ELEMENTS	%
SiO <sub>2</sub>	35.48
Al <sub>2</sub> O <sub>3</sub>	20.53
Fe <sub>2</sub> O <sub>3</sub>	31.18
MgO	6.75
CaO	2.62
TiO <sub>2</sub>	3.28

**SIEVE ANALYSIS REPORT :**

M.M	ASTM	Guaranteed %	ACTUAL%	CUM%
0.425	40	< 0.04	0.00	0.00
0.355	45	0.0 ~ 1.0	0.10	0.10
0.300	50	3.0 ~ 12.0	3.46	3.56
0.250	60	7.0 ~ 17.0	11.52	15.08
0.212	70	10.0 ~ 20.0	16.00	31.08
0.180	80	12.0 ~ 25.0	24.66	55.74
0.150	100	18.0 ~ 30.0	29.84	85.58
0.125	120	8.0 ~ 20.0	8.62	94.20
0.106	140	3.0 ~ 10.0	3.30	97.50
0.090	170	2.0 ~ 6.0	2.18	99.68
0.075	200	< 4.0	0.32	100

Mineral composition : % by Weight

Garnet : 99.17 %  
Ilmenite : 00.76 %  
Free Silica : 00.07 %



Physical Characteristics

Specific Gravity : 4.1  
Conductivity : 8.12 mS/m at 24.5<sup>0</sup>C  
Chloride : 17.57 ppm  
Hardness : > 7 moh scale  
Acid Solubility(Hcl) : < 1.0 %  
Colour : red - pink  
Grain Shape : Subangular  
Toxic substances : None  
Moisture : 0.18 %  
Bulk Density : 2.48 g/cm<sup>3</sup>

  
**CERTIFIED BY:**



  
**SIGNATURE**

\* "Sample taken and Sieve Analysis under the reference of ISO 11127-2"  
\* "Chemical Analysis have been determined by Lab XRF"

"Conductivity and Moisture Analyzed by Metler"  
\* "Chloride Content Analyze by Spectra Photometer"