INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

REQUEST FOR QUOTATION

Tender No. IITK/4i-Lab./2017-2018/01

Date: 24/07/2017

Tender Opening date: 24/07/2017

Tender Closing Date: 02/08/2017

Sealed two bid system type tender are invited Abrasive Sand Garnet of 80Mesh Size Qty (4+4=8) MT.

Average Chemical Composition (Typical)

SiO2 *	36%
AI2O3	
FeO	30%
Fe2O3	2%
TiO2	1%
MnO	1%
CaO	2%
MgO	6%

* Refers to SiO₂ bound within the lattice of the homogeneous garnet crystal (no free silica)

Physical Characteristics (Typical)

Bulk Density	2.3T/m ³
Specific Gravity	4.1
Hardness (moh)	7.50-8.0
Melting Point	1250ºC
Shape of natural grainssul	o-angular

Other Characteristics (Typical)

Conductivity	10-15ms/m (max 25ms/m)
Radioactivity Not dete	ectable above background
Moisture Absorption	Non-hydroscopic, Inert
Total Chlorides	10-15ppm (max 25ppm)
Free Iron	less than 0.01%*
Copper	less than 0.01%*
Other Heavy Metals	less than 0.01%*
Sulphur	less than 0.01%*
Lead	

* Generally below detectable levels.

Other Terms & Conditions.

1 –Hard copy of the tender must reach before date 02/08/2017 to the mentioned ADDRESS.

2 – Maximum Discount to be offered keeping in view IIT's being nonprofit making organizations.

3- Only OEM authorized dealers need to participate. Certificate submission with tender is mandatory.

4- Bidder must mention tender number on envelope.

All Quotation to be sent to:

Prof. Sameer Khandekar

Head Imagineering Laboratory, 4-I, Section

IIT Kanpur-208016

Mineral Composition (Typical)	
Garnet (Almandite)	97-98%
Ilmenite	1-3%
Zircon	0.20%

<0.5%

0.25%

Quartz (free silica).....

Others

...

Waterjet Grade Sizings (Typical)

	Grade:	50 Mesh	80 Mesh	120 Mesh
US Mesh	Microns	(Cumulative Wt% Retained)		
30	600	0		
35	500	1		
40	425	14	0	
45	355	40	2	
50	300	75	18	0
60	250	90	40	0.01
70	212	96	70	16
80	180	99	90	75
90	150	100	97	90
115	125		99	99
150	106		100	99.5
170	90			100