

## **PRODUCT LIST OF THE UNIT**

**(From its establishment till the present time)**

Name of the Unit: Institute of Glass and Ceramic Research and Testing

- **Name of the Product:** Black Iron Oxide Pigment



**Scan copy of Photograph (color):**

### **Short description of Product including:**

**Importance:** Black Iron Oxide Pigment is used as a pigment for magnetic applications, ceramics, polishing compounds, polymer & rubber filler, building & construction, appliances, and magnetic inks.

**Date of Invention:** 1998

**Name of the Inventors:** Dr. A J M TahuranNeger& Dr. AftabUddin Ahmed.

**Leased out? :** No

- **Name of the Product:** Prussian Blue



**Scan copy of Photograph (color):**

**Short description of Product including:**

**Importance:** Used as a pigment in black and bluish inks, basis for laundry bluing, additive for other pigments and paints, laboratory histopathology stain for iron, sequestering agent for certain heavy metal poisons and also used in analytical chemistry.

**Date of Invention:** 1998

**Name of the Inventors:** Dr. A J M TahuranNeger& Dr. AftabUddin Ahmed.

**Leased out? :** No

- **Name of the Product:** Low Cost Arsenic Removal Filter



**Scan copy of Photograph (color):**

**Short description of Product including:**

**Importance:** Arsenic contamination in ground water has been identified in Bangladesh, India, Taiwan, Thailand and China since 1991. Arsenic is known as carcinogen and people, who are poisoned by arsenic, develop severe skin problems and a type of gangrene. After identification, the immediate priority must be to find out a safe alternate source of drinking and cooking water for affected communities. Detection of high level of arsenic concentration in two third of the shallow tube-wells of the country has caused serious public health concerns. Therefore, this technology can impact a positive attitude to the health department.

**Date of Invention:** 2011

**Name of the Inventors:** Dr. A J M TahuranNeger& Dr. AftabUddin Ahmed.

**Leased out? :** No

- **Name of the Product:** Red Iron Oxide Pigment



**Scan copy of Photograph (color):**

**Short description of Product including:**

**Importance:**Current use is mostly in construction,cement/mosaic flooring, tiles, coatings, ceramics, paint, ink, rubber, plastics, cosmeticsetc. New applications include catalysts in petroleum industry, in oil drilling rigs, in compound pigments, copy machine powder, and magnetic differentiate materials.

**Date of Invention:** 2014

**Name of the Inventors:** Dr. A J M TahuranNeger& Dr. Abdul Gafur.

**Leased out? :** No

- **Name of the Product:** Yellow Iron Oxide Pigment



**Scan copy of Photograph (color):**

**Short description of Product including:**

**Importance:**Current use is mostly in construction, coatings, ceramics, paint, ink, rubber, plastics, cosmetics etc. New applications include catalysts in petroleum industry, in oil drilling rigs, in compound pigments, copy machine powder, and magnetic differentiate materials.

**Date of Invention:** 2002

**Name of the Inventors:** Dr. A J M Tahuran Neger & Dr. Aftab Uddin Ahmed.

**Leased out? :** No

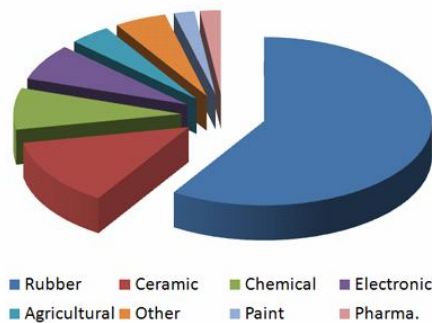


• **Name of the Product:** Zinc Oxide

**Scan copy of Photograph (color):**

**Short description of Product including:**

**Importance:** it is used as an additive for plastics, ceramics, glass, cement, rubber, lubricants, paints, ointments, adhesive, sealants, concrete manufacturing, pigments, foods,



batteries, ferrites, fire retardants, etc.

**Date of Invention:** 2014

**Name of the Inventors:** Dr. A J M TahuranNeger, Md. LutfurRahman& Md. SaifulQuddus.

**Leased out? :** No

- **Name of the product:** Copper Sulphate Detection Kit

Photograph of the Kit



Short description of the Product

- **Importance:** copper sulphate is being used in vegetables in order to keep the vegetables artificially green and fresh. Development of copper sulphate kit will help to detect the presence of copper sulphate in vegetables.

## 8. Name of the product: BIO-CERAMIC

ii. Photograph



- Bio-compatible materials are now finding wide spread application in the biomedical field. The objective of this work is to develop such bioceramic materials which can be used as bone substitute material in orthopedics and dentistry fields.

## 9. Name of the Product: Water Purification Filter

ii. Scan copy of Photograph

পানি বিশুদ্ধকরণ ফিল্টার  
(Water Purification Filter)



(color)

iii Short description of Product including:

Importance: Safe drinking water

Use: Purify the water for drinking

Date of Invention :2009- 2010

Name of the Inventor : Akhtar Hamid Dewan

MainulAhsan

- Leased out? : Yes

(if **No** then)

Approximate Project Evaluation Cost:20lacs

10. **Name of the Product:** Artificial Marble

ii.



Scan copy of Photograph (color)

iii Short description of Product including:

- Importance: Alternative of Natural Marble.
- Use: In Building Materials.
- Date of Invention: 2005
- Name of the Inventor: Dr. KaziNasreenFarooque,
- Leased out? : Yes/No: No

Approximate Project Evaluation Cost:2 lac

- Other information (if any)

**11. Name of the Product: Energy Saving Brick**



ii. Scan copy of Photograph (color)

iii Short description of Product including:

- Importance: Clay and Energy Saving.
- Use: In Building Materials.
- Date of Invention: 2011
- Name of the Inventor: Md. Sagirul Islam
- Leased out? : Yes/No: No

Approximate Project Evaluation Cost:3 Lac

- Other information (if any)

- **Name of the Product: Insulating Brick**



i.

ii.



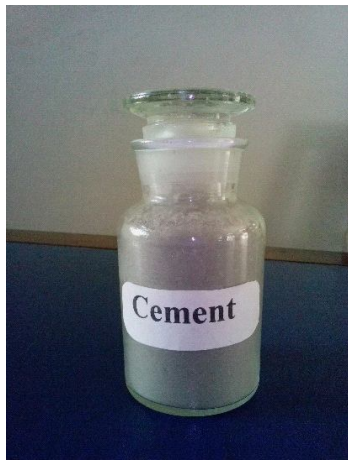
Scan copy of Photograph (color)

iii Short description of Product including:

- Importance: Withstand High Temperature.
- Use: Inner wall of high temperature furnace.
- Date of Invention: 2004
- Name of the Inventor: Nasreen Farooque
- Leased out? : Yes/No: No

Approximate Project Evaluation Cost: 3 Lac

**13. Name of the Product: Pozzolan Cement**



ii. Scan copy of Photograph (color)

iii Short description of Product including:

- Importance: Substitute of Cement
- Use: Development rural building.
- Date of Invention:2002
- Name of the Inventor: Dr. KaziNasreenFarooquee
- Leased out? : Yes/No: NO

Approximate Project Evaluation Cost: 2 Lac

**14. Name of the Product: Roof Tiles**

ii.



Scan copy of Photograph (color):

iii Short description of Product including:

- Importance: Development in rural building.
- Use: Roof tiles in rural building.
- Date of Invention: 2012
- Name of the Inventor: Md. Sagirul Islam
- Leased out? : Yes/No: No

Approximate Project Evaluation Cost: Three lac

**15. Name of the Product: Ceramic Stains**

**Scan copy of Photograph (color):**



**Red-brown ceramic stain**



**Pink ceramic stain**



**Royal blue ceramic stain**



**Low cost transparent glaze**



**White ceramic stain**

**Short description of Product including:**

**Importance:** Import substitute stains for ceramic wares

**Uses:** Used for the decoration of ceramic ware.

**Date of Invention:**

**Name of the Inventors:**ShahnajParveen, ShirinAkterJahan

**Leased out? :**No