





**Ministry of Culture**  
**Government of India**  
**National Council of Science Museums**  
**33 Block GN, Saltlake Sector V**  
**Bidhannagar, Kolkata 700 091**

TENDER NO. I-18013/2/22(35)

**Technical Specification**

**1) Specification for Rigid PVC Sheets (Colour Grey):-**

Sl.no	Name of the Items	Specifications	Quantity
1	<b>Rigid PVC sheets</b> (Smooth, glossy surface)	<ul style="list-style-type: none"> <li>• Homogeneous close cell structure</li> <li>• Highly durable</li> <li>• Excellent chemical and corrosion resistance</li> <li>• Highly resistant to chemical</li> <li>• Easy installation</li> <li>• Excellent impact strength</li> <li>• High rigidity and superior strength</li> <li>• Reliable electrical insulation</li> <li>• Excellent formability</li> <li>• Low flammability</li> <li>• Density-1.25g/cc</li> </ul> <p><b>Colour: Grey</b></p> <p>Size:  2000mm x 1000mm x 12mm thickness  2440mm x 1220mm x 6mm thickness  2440mm x 1220mm x 3mm thickness</p>	30 nos. 34 nos. 2 nos.

Dated

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## 2) Specification for Rigid PVC Foam Sheets :-

Surface Finish: Matt finish with hard surface coating

Sl. No.	Description	Colour	Quantity
01.	Size: 1220mm x 2440mm Thickness: <b>12mm (+- 0.2mm)</b>	White	100 nos.

Sl. No.	Description	Colour	Quantity
01.	Size: 1220mm x 2440mm Thickness: <b>6mm (+- 0.2mm)</b>	Black	20 nos.
02.		White	15 nos.
03.		Grey	10 nos.

<b>Mechanical</b>			
Tensile Strength	Mpa	DIN 53455	≥15
Elongation at break	%	DIN 53455	≥15
Modulus of Elasticity	Mpa	DIN 53457	900-1500
Impact Strength	KJ/m <sup>2</sup>	ISO 179	≥9.0
<b>Physical</b>			
Density	g/cc	DIN 53479	0.5 to 0.6
Hardness	Shore D	ASTM D 2240	≥55
Water Absorption	%	DIN 53495	≥1.0
Flammability			Self-Extinguishing
<b>Thermal</b>			
Vicat Softening	°C	DIN 53460	≥73
<b>Electrical</b>			
Dielectric Strength	KV/cm	DIN 53481	≥90

### **Salient Features**

Weather proof

Resistance to chemical, water, termite etc.

Excellent sound, thermal and electrical insulation

Light weight, high flexural strength and impact resistance

Decorative and fast colour

Fire retardant

Maintenance free

Dimensionally stable - does not warp or swell

Superior finish on both sides

Economic and space saving material

Easy bonding with any material as well as with itself

Easy fabrication

Outstanding printability

Dated

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