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		VOLUME - II B	
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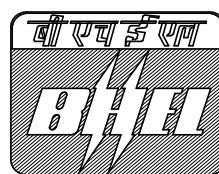
VOLUME – II B
CIVIL, STRUCTURAL & ARCHITECTURAL WORKS

SPECIFICATION NO. PE-TS-999-600-C015

SECTION - D

GENERAL TECHNICAL SPECIFICATION

GLASS AND GLAZING



Bharat Heavy Electricals Limited
Project Engineering Management
PPEI Building, Power Sector,
Plot No. 25, Sector 16A,
Noida (U.P.)-201301

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**TECHNICAL SPECIFICATION
FOR
GLASS AND GLAZING**

1.0.0 SCOPE

The work in general shall consist of supplying and fixing all glass and glazing including all clips, putty, mastic cement etc. wherever required as shown on drawings and specifications, supply of metal glazing beads and neoprene gaskets shall not be included in this scope.

This shall also include the fixing of all glass and glazing supplied by the Owner at his site stores.

2.0.0 INSTALLATION

2.1.0 General

The Contractor shall supply and install all glass and glazing as required for various doors, windows, sashes, ventilators and fixed louvres, miscellaneous glazing and partitions, unless otherwise stated from approved manufacturer having uniform refractive index and free from flaws, specks and bubbles. The glass shall be brought to site in the original packing from the manufacturer and cut to size at site.

2.2.0 Materials

- a) Glare reducing or heat absorbing glass shall be of approved manufacturer and special care shall be taken to grind smooth and round off the edges before fixing.
- b) Glass shall be float glass of required thickness and shall be clear or tinted as indicated.
- c) Wired glass shall be thick rolled glass with centrally embedded 42g. wire mesh of Georgian type. This may be of clear or coloured glass, as shown on drawings.
- d) Obscure glass shall have a cast surface in one side.
- e) Coloured and figured glass shall be as per approved sample.
- f) In general, the putty shall conform to IS : 400 and be of best quality from approved manufacturer. It shall be brought to site in the manufacturer's original packing. Quick setting putty glass is used where it shall be non-setting type.
- g) EPDM gaskets with snap-fit glazing beads shall be fixed as per

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<p>manufacturer's instructions and shall sit snugly against glass to give a leakproof installation.</p>		
<p>h) Float glass i) Double glazing</p>		
<p>2.3.0 Glazing, Setting and Finish</p>		
<p>All glazing clips, bolts, nuts, putty, mastic cement etc. as required shall be supplied by the Contractor.</p>		
<p>All glass shall be thoroughly cleaned before putting in position. Each glass pane shall be held in place by special glazing clips of approved type. As specified in relevant I.S. Codes, four glazing chips shall be provided per glasspane, except for large panes were six or more clips shall be used as per Engineer's instructions. All holes that may be necessary for holding the clips glazing heads and all other attachments shall be drilled by the Contractor.</p>		
<p>Glass panes shall be set without springing, and shall be bedded in putty and back puttied, except where moulding or gasket are specified, putty, mastic cement etc. shall be smoothly finished to the even line and figured glass shall be set with smooth side out.</p>		
<p>After completion of glazing work, the Contractor shall remove all dirt stains, excess putty etc. clean the glass panes and leave the work in perfectly acceptable condition. All broken cracked or damaged glass shall be replaced by new ones.</p>		
<p>3.0.0 ACCEPTANCE CRITERIA</p>		
<p>a) All installation shall be free from cracked, broken or damaged glass. Edges of large panes of thicker glass and heat absorbing glass shall be inspected carefully for chipped, cracked or underground edges.</p> <p>b) Glazing shall be carefully done to avoid direct contact with metal frames.</p> <p>c) All glass shall be embedded in mastic or fixed by neoprene gaskets to give a leakproof installation.</p> <p>d) At completion, the panes shall be free from dirt, stains, excess putty etc. to the complete satisfaction of the Engineer.</p>		
<p>4.0.0 I.S. CODES</p>		

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Following are some of the important I.S.Codes relevant to this Section :

IS : 3548 - Code of practice for glazing in building.

IS : 1083 - Code of practice for fixing and glazing metal doors, windows & ventilators.