

Resolutions of the Third meeting of the
Panel for Glass and Glazing, CED 46:P20
held in Hybrid mode on 05 April 2024 from BIS HQ, New Delhi

Resolution No.	Resolution/Decision
1	<p>1) To seek the interest from the following and based on their response and inputs on the specific clauses, invite them to the next meeting and co-opt thereafter:</p> <p style="padding-left: 40px;">a) Hilti India Private Limited, New Delhi b) Fischer India Private Limited, New Delhi c) Blick System India Private Limited, Thane d) Teknal India Private Limited, New Delhi e) Alufit India Private Limited, Bengaluru f) The Energy and Resource Institute, New Delhi g) Federation of Safety Glass, Haryana</p> <p>2) AIGMF, New Delhi shall be represented by Shri Shailesh Ranjan and Shri Rupinder Shelly.</p> <p>3) Saint Gobain Glass India, Chennai shall be represented by Shri Anand Santhanam and Shri Avinash Gowra as per the revised nominations received from them.</p> <p>4) IIT Madras shall be represented also by their Dr. P. Alagappan as informed by Prof. Arul Jayachandran.</p> <p>5) UWDMA, New Delhi shall be represented by Shri Satish Kumar</p> <p>6) To withdraw the nominations of M/s AECOM India Pvt Ltd, Noida in view of their continued non-participation and no response.</p> <p>7) To retain the membership of Delhi Development Authority, New Delhi by their designation.</p> <p>8) As requested by Shri S. K. Dheri to have in his place M/s Pacific Fire Doors, New Delhi (Shri Rakesh Arora).</p> <p>9) To co-opt another Fire Services (say Telangana/West Bengal) on the Panel, in consultation with Shri S. K. Dheri, Convener, CED 46 : P2.</p> <p>10) To obtain the revised nominations of M/s Façade India Testing Inc, Thane in view of their Shri Pravin Gaikwad</p>

	<p>having left the organization.</p> <p>11) To obtain the revised nominations of M/s International Fenestration Forum, Noida in view of their Shri Nikhil Kant having left the organization.</p> <p>12) To obtain the revised nominations of The Institution of Engineers (India), Kolkata as they have done so for various other Panels under CED 46.</p> <p>13) To co-opt M/s BES Consultants Pvt. Ltd., Mumbai.</p> <p>Regarding the revised nominees/names as mentioned by their organizations during the meeting, the respective organizations should send the same formally through email to ced46@bis.gov.in for BIS' records.</p>								
2	<p>To consider and address in the revision, aspects like:</p> <ul style="list-style-type: none"> • Special loading/Security related such as blast resistance, bullet resistance, burglar/security glazing. • Update the provisions relating to energy and thermal performance. • Update the provisions relating to fire safety aspects including testing. • Review and update the provisions on structural design to cover all options of framing members and frameless glazing. • Review and update the provisions relating to performance and testing of glass used as a system. • Inclusion of a suitable informatory annex serving as a ready checklist for the municipal corporation/municipalities to verify the conformity to the relevant clauses of this chapter of NBC. • Provisions for disposing and recycling of dismantled glass may be introduced here or in Part 9/Sec 4. • Review of the provisions relating to structural design of glass in tall/super tall buildings. • Review w.r.t the provisions for use for Glass in design of railings and parapet walls, horizontal slabs and caution thereof. 								
3	<p>The following Expert Groups were constituted:</p> <p>a) Working Group for Energy, Thermal Performance <i>(particularly Clause 5)</i></p> <table border="1" data-bbox="416 1935 1316 2040"> <thead> <tr> <th>Organization</th> <th>Name</th> <th>Email Id</th> <th>Mobile No.</th> </tr> </thead> <tbody> <tr> <td>IIT Roorkee, Roorkee</td> <td>Dr E. Rajasekar - Group Convener</td> <td>raj@ar.iitr.ac.in</td> <td>9790828093</td> </tr> </tbody> </table>	Organization	Name	Email Id	Mobile No.	IIT Roorkee, Roorkee	Dr E. Rajasekar - Group Convener	raj@ar.iitr.ac.in	9790828093
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IIT Roorkee, Roorkee	Dr E. Rajasekar - Group Convener	raj@ar.iitr.ac.in	9790828093						

Bureau of Energy Efficiency, New Delhi	Shri Saurabh Diddi	sdiddi@beeindia.gov.in	9911105020
Larsen and Toubro Limited, Chennai	Shri Surya Prakash Karri	ksp@Intecc.com	94445046043
Schueco India Private Limited, Bengaluru	Shri Kushagra Awasthi	kawasthi@schueco.in	9694579878
Glazing Society of India, Chennai	Shri G. N. Gohul Deepak	gohul.deepak@glazingsociety.com	9994498795
International Fenestration Forum, New Delhi	Shri Arun Sharma	arunindia4@gmail.com	9811038807

b) Working Group for Special Glass (Blast / Bullet resistant, Burglary safe) – New Clause(s)

Organization	Name	Email Id	Mobile No.
Meinhardt Facade Technology India Private Limited, Chennai	Shri Mahesh Arumugam - Group Convener	mahesh.a@mfacade.com	9952041111
Schueco India Private Limited, Bengaluru	Shri Antony John V S	ajohn@schueco.in	9663501004
Larsen and Toubro Limited, Chennai	Shri Surya Prakash Karri	ksp@Intecc.com	94445046043
Saint-Gobain Glass India Private Limited, Chennai	Shri Avinash Gowra	avinash.g@saint-gobain.com	9176516138
International Fenestration Forum, New Delhi	Shri Arun Sharma	arunindia4@gmail.com	9811038807
Central Public Works Department, New Delhi	Shri Pradeep Garg	pradeepsecpwd@gmail.com	9420685651
DRDO Laboratory	Details to be provided by the Convener		

c) Working Group for Fire Safety Aspects (particularly Clause 6)

Organization	Name	Email Id	Mobile No.
IIT GandhiNagar	Prof. Gaurav Srivastava – Group Convener	gauravs@iitgn.ac.in	8141694724
CSIR - Central Building Research Institute, Roorkee	Dr. Shorab Jain	shorab122@cbri.res.in	9897062284
All India Glass Manufacturers Federation, New Delhi	Shri Nagendra Kumar	nagendra.kumar@aisglass.com	8657436526
BES Consultants Pvt Ltd, Mumbai	Shri Rajan Govind	rajan@besconsultants.net	9930080118
Indian Institute of Technology Tirupati	Dr. Jashnav Pancheti	jashnav@iittp.ac.in	7349211594
Afiti Global Fire Testing Pvt Ltd, Chennai	Shri Akhil Chacko	akhilvargees@gmail.com	7510886977

	<p>d) Working Group for Structural Design Aspects <i>(particularly Clauses 6 and 8)</i></p> <table border="1"> <thead> <tr> <th>Organization</th> <th>Name</th> <th>Email Id</th> <th>Mobile No.</th> </tr> </thead> <tbody> <tr> <td>BES Consultants Pvt Ltd, Mumbai</td> <td>Shri Rajan Govind – Group Convener</td> <td>rajan@besconsultants.net</td> <td>9930080118</td> </tr> <tr> <td>Larsen and Toubro Limited, Chennai</td> <td>Shri Surya Prakash Karri</td> <td>ksp@Intecc.com</td> <td>94445046043</td> </tr> <tr> <td>Schueco India Private Limited, Bengaluru</td> <td>Shri Antony John V S</td> <td>ajohn@schueco.in</td> <td>9663501004</td> </tr> <tr> <td>Indian Institute of Technology Madras, Chennai</td> <td>Dr Alagappan Ponnalagu</td> <td>alagappan@iitm.ac.in</td> <td>04422574320</td> </tr> <tr> <td>Indian Association of Structural Engineers, New Delhi</td> <td>Representative</td> <td></td> <td></td> </tr> </tbody> </table> <p>e) Working Group for Performance and Testing <i>(particularly Annexes E & F)</i></p> <table border="1"> <thead> <tr> <th>Organization</th> <th>Name</th> <th>Email Id</th> <th>Mobile No.</th> </tr> </thead> <tbody> <tr> <td>Schueco India Private Limited, Bengaluru</td> <td>Shri Antony John V S – Group Convener</td> <td>ajohn@schueco.in</td> <td>9663501004</td> </tr> <tr> <td>Winwall Technology India Private Limited, Chennai</td> <td>Shri P. Jothi Ramalingam</td> <td>jothi.r@winwallindia.com</td> <td>9841020620</td> </tr> <tr> <td>Façade India Testing Inc, Thane</td> <td>Shri V. S. Ravi</td> <td>vsravi@facade1.com</td> <td>9768135085</td> </tr> <tr> <td>Eminent International Testing Centre Private Limited, Hyderabad</td> <td>Shri Reji Bhami</td> <td>rejibhami@eminent-itc.com</td> <td>7025000043</td> </tr> </tbody> </table>	Organization	Name	Email Id	Mobile No.	BES Consultants Pvt Ltd, Mumbai	Shri Rajan Govind – Group Convener	rajan@besconsultants.net	9930080118	Larsen and Toubro Limited, Chennai	Shri Surya Prakash Karri	ksp@Intecc.com	94445046043	Schueco India Private Limited, Bengaluru	Shri Antony John V S	ajohn@schueco.in	9663501004	Indian Institute of Technology Madras, Chennai	Dr Alagappan Ponnalagu	alagappan@iitm.ac.in	04422574320	Indian Association of Structural Engineers, New Delhi	Representative			Organization	Name	Email Id	Mobile No.	Schueco India Private Limited, Bengaluru	Shri Antony John V S – Group Convener	ajohn@schueco.in	9663501004	Winwall Technology India Private Limited, Chennai	Shri P. Jothi Ramalingam	jothi.r@winwallindia.com	9841020620	Façade India Testing Inc, Thane	Shri V. S. Ravi	vsravi@facade1.com	9768135085	Eminent International Testing Centre Private Limited, Hyderabad	Shri Reji Bhami	rejibhami@eminent-itc.com	7025000043
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4	All the other members of the Panel were requested to send their return inputs on the working draft of the revision of Part 6/Section 8 sent by BIS on 28 March 2024, latest by 19 April 2024 .																																												
5	All the Sub Working Groups were requested to immediately initiate discussions within their Group and arrive at their recommendations on the respective clauses (and their Annexes) by 30 May 2024 .																																												
6	The next meeting of the Panel will be held in June 2024 .																																												

NOTE - The Group Conveners are requested to mark a copy of the communications (incl those of meetings) to the BIS' Secretariat (Shri Shubham Chaudhary / Shri Arunkumar S at ced46@bis.gov.in) and to the Convener of the Panel (Shri Pradeep Garg - pradeepsecpwd@gmail.com)

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Formal Minutes of the meeting will be sent separately.

**PS: All members are encouraged to visit the BIS' Standardization Portal,
<https://www.manakonline.in/MANAK/login>**

Click Standardization Tile,

Then click LOGIN

Username shall be: your registered email id (with BIS) OR mobile number

and reset their password (using FORGOT PASSWORD) before accessing the interactive portal.
