Present Inspection System
For High-Rise And Public Building Projects

By

Prof: Dr. Aung Kyaw Myat
Chairman
High-Rise And Public Building Projects Committee

HPBC

4th July 2020
(Founded 2003 as CQHP)

High-Rise and Public Building Projects Committee

HPBC

(Under the Patronage of Ministry of Construction)

Yangon, Myanmar
Brief History

- The committee for Quality Control of High-Rise Building Construction Projects (CQHP) was formed by the State Peace and Development Council on 11\textsuperscript{st} August 2003.
- Initially it was constituted with (9) expert members.
- Reforms and reorganizations took place throughout the years 2004, 2007, 2015 and 2016.
- It was restructured and formed as new organization on 2\textsuperscript{nd} August 2019 by Ministry of Construction.
- According to restructuring, Committee has 33 members and led by external professional engineers and architects.
- In 2019 November, it was renamed as High-Rise and Public Building Projects Committee as HPBC.
Vision of HPBC

- To safeguard the lives and properties of the people and public infrastructures in Myanmar.
- To enhance the progress of Construction Industry Development (CID) in promoting the national economy of Myanmar.

Mission of HPBC

- To lay down the guidelines and code of practices for the high-rise and public building projects in the Republic of the Union of Myanmar.
- To specify guidelines for the quality control of the high-rise and public building projects that are bound to be observed by Architects, Structural Engineers, Geotechnical Engineers, M&E Engineers, Project Superintendents and Site Engineers.
Mission of HPBC (Continued)

- To access the design calculations such as: Architectural, Structural, Geotechnical, Mechanical and Electrical Appliances, Water Supply and Sanitation Works etc., of the proposed projects ensuring that these calculations strictly follow the guidelines and code of practices of HPBC.

- To pay visit to the construction sites and check whether they are implemented in accordance with design specifications and standards, HPBC’s guidelines or not and give necessary advices on quality control and safety.

- To cooperate with all other relevant departments and organizations to achieve high ranking Construction Industry Development in Myanmar.
Chairmen of HPBC

Prof. Dr. Nyi Hla Nge 2003-2004
Engr. U Khin Maung Tint 2015-2019
Prof. Dr. Aung Kyaw Myat 2019- Now
## Members of HPBC

### Expert Teams From External Field

#### Civil Engineers (9 Nos)

1. Prof. Dr. Aung Kyaw Myat (Chairman)
2. Dr. Thein Tan (Member)
3. U Khin Maung Sai (Member)
4. Dr. Khin Than Yu (Member)
5. U Kyi Lwin (Member)
6. U Myint Thein (Member)
7. Daw Mya Mya Win (Member)
8. U Win Naing (Member)
9. Daw Than Than Soe (Member)

#### Mechanical Engineers (3 Nos)

1. Daw Mya Win (Secretary)
2. U Shwe Yu Kyaw (Member)
3. U Yin Htwe Thet (Member)
## Expert Teams From External Field

### Electrical Engineers  
(1 Nos)
1. U Aye Win  
   (Joint Secretary)

### Architects  
(4 Nos)
1. U San Oo  
2. U Maung Taw  
3. U Aung Myint  
4. U Ko Ko Naing

### Expertise from Ministry of Education

1. Dr. Nilar Aye  
   (Member- Civil)
2. Dr. Thinzar Khaing  
   (Member- Civil)
3. Dr. Nyi Nyi Aung  
   (Member- Civil)
Expertise from Ministry of Construction

1. U Aye Ko (Member-Civil)
2. U Than Htike Aung (Member-Civil)
3. Daw Pyone Pyone Khine (Member-Mechanical)
4. U Myint Thein (Member-Electrical)
5. Daw L Nang Ing (Member-Architect)

Expertise from City Development Council

1. U Nay Win, YCDC (Member)
2. U Zaw Win, MCDC (Member)
3. U Thaung Tun, NCDC (Member)
4. U Zaw Tun, NCDC (Member)
5. U Saw Win Maung, YCDC (Member)
6. U Hla Myo, MCDC (Member)

Expertise From Fire Security Department

1. U Thein Tun Oo (Member)
Responsibility of the Committee (HPBC)

- Laying down the Code of Practice, Code of Conduct and Guidelines of HPBC.
- Assessing the design calculations of the High-Rise Buildings submitted by the various projects according to the prescribed codes.
- Checking the plan and layout of Architectural Drawings, M&E and ACMV installations, Electrical system of the project, Water and Sanitation works of the project.
- Issue recommendation letters for the whole project to YCDC, MCDC upon requests.
- Issue recommendation letters to YCDC, MCDC etc., delivering permits for Pile Company, Tower Crane Company, Soil Lab Company.

- **Regular Site Inspections of High-Rise Projects. (Quality Assurance Work)**
### Monthly Site Inspection 2019 – 2020

<table>
<thead>
<tr>
<th>Period</th>
<th>Aug-Dec 2019</th>
<th>Project</th>
<th>Jan-Jun 2020</th>
<th>Site Inspection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project</td>
<td>22</td>
<td></td>
<td>17</td>
<td>52</td>
</tr>
<tr>
<td>Site Inspection</td>
<td>52</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2019 ➔ 2020
Present Inspection System Being Implemented

HPBC — EI ET Organization Companies — Internal Q.C Team — Owner Or Developer

Closed & Continuous Inspection (Q.A) (Sites)

Co-operation

Daily Engagement

Coordination

Note: EIET: External Inspection Expert Team
HPBC: High-Rise And Public Building Projects Committee
This is to certify that the following organization/ company is duly recognized as "External Inspection Expert Team" assigned to do the Inspection Works of the High-Rise and Public Buildings Construction Projects on behalf of HPBC.

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Innovate Myanmar Forward

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Note: The Inspection works are to be done in accordance with HPBC Manual and Guidelines.

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Prof. Dr. Aung Kyaw Myat
Chairman
HPBC

VANGON, MYANMAR

1 APR 2020
## Recognition of EIET

<table>
<thead>
<tr>
<th>No</th>
<th>Company Name</th>
<th>CEO Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>APAVE MYANMAR Co.Ltd</td>
<td>Dr. Nyuyen Cong Phu</td>
</tr>
<tr>
<td>2</td>
<td>Ayer Hein Construction Co.Ltd</td>
<td>U Myat Khine Swe</td>
</tr>
<tr>
<td>3</td>
<td>BCPM Co.Ltd</td>
<td>Daw San San</td>
</tr>
<tr>
<td>4</td>
<td>Best Link Construction &amp; Management</td>
<td>U Tin Myaing</td>
</tr>
<tr>
<td>5</td>
<td>Bo Minn Bo Co.Ltd</td>
<td>U Soe Win</td>
</tr>
<tr>
<td>6</td>
<td>Bureau Veritar (Thailand) Ltd</td>
<td>Mr. Lidomdej Kangtaveelert</td>
</tr>
<tr>
<td>7</td>
<td>Dynamic Engineering and General Trading Co.Ltd</td>
<td>U Nyein Aung</td>
</tr>
<tr>
<td>8</td>
<td>Great Creator Co.Ltd</td>
<td>U Soe Thein</td>
</tr>
<tr>
<td>9</td>
<td>Great Quality First Consulting Engineering Group Co.Ltd</td>
<td>U Than Naing</td>
</tr>
<tr>
<td>10</td>
<td>Innovate Myanmar Forward</td>
<td>U Bo Bo Kyaw</td>
</tr>
<tr>
<td>11</td>
<td>INTEG Services Co.Ltd</td>
<td>U Aung Phyo</td>
</tr>
<tr>
<td>12</td>
<td>KTS Construction &amp; IT Services Co.Ltd</td>
<td>U Kyaw Thar Sein</td>
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<td>13</td>
<td>Mandalay Strength Construction Co.Ltd</td>
<td>U Soe Hlaing</td>
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<tr>
<td>14</td>
<td>Matrix Power Engineering Co.Ltd</td>
<td>U Myo Lwin</td>
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<td>15</td>
<td>Monsoon Engineering Myanmar Co.,Ltd</td>
<td>U Saw Than Oo</td>
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<tr>
<td>16</td>
<td>Myanmar United Engineering Group Co.Ltd</td>
<td>U Win Maung</td>
</tr>
</tbody>
</table>

Continued:
<table>
<thead>
<tr>
<th>No</th>
<th>Company Name</th>
<th>CEO Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>New Pyae Sone Group Co.Ltd</td>
<td>U Pyae sone Hein</td>
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<tr>
<td>18</td>
<td>Perfect System Co.Ltd</td>
<td>U Pyae Sone Win</td>
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<tr>
<td>19</td>
<td>Surbana International consultants (Myanmar) Co.Ltd</td>
<td>Mr. Lee Leong Seng</td>
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<tr>
<td>20</td>
<td>Top Engineering Consultants</td>
<td>U Khin Maung Sai</td>
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<td></td>
<td></td>
<td>U Nay Soe Naing</td>
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<td>21</td>
<td>TTW Structural Design, Inspection Group</td>
<td>Dr. Tin Tin Win</td>
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<td>22</td>
<td>Tun And Tun Construction Co.Ltd</td>
<td>U Maung Maung Myint</td>
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<td>United Win Engineering Co.Ltd</td>
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<td>24</td>
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<td>Daw Su Su Hlaing</td>
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<td>Zay Minn Co.Ltd</td>
<td>U Zayar Soe Min</td>
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<td>26</td>
<td>ZEC Limited</td>
<td>U Zaw Myo Chit</td>
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<td>27</td>
<td>MAA Consultants (Myanmar) Co.,Ltd</td>
<td>Mr. Richard Jen-Chuen Moh</td>
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<tr>
<td>28</td>
<td>K-Experts Limited</td>
<td>Mr. Kim Toe Woon</td>
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<td>29</td>
<td>San Kyu and Associates Limited</td>
<td>U San Kyu</td>
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<tr>
<td>30</td>
<td>Hein Man Pyae Co.,Ltd</td>
<td>Daw Chaw Su Thein</td>
</tr>
<tr>
<td>31</td>
<td>Boston Co.,Ltd</td>
<td>U Aye Kyaw</td>
</tr>
</tbody>
</table>
### Summary of Work Done by CQHP/HPBC

#### From 2003-2013
- Registered Projects – 93 Nos
- Completely Recommended by CQHP/HPBC - 86 Nos
- Cancelled Projects - 4 Nos
- Not Submitted Projects- 3 Nos

#### From 2014-2019 August
- Registered Projects – 140 Nos
- Completely Recommended by CQHP/HPBC- 101 Nos
- Foundation Recommended by CQHP/HPBC- 2 Nos
- Piling Recommended by CQHP/HPBC - 5 Nos
- Pile Load Test Recommended by CQHP/HPBC - 13 Nos
- Cancelled Projects – 2 Nos
- Company Delay Projects- 4 Nos
- Not Submitted Projects - 13 Nos

#### From 2019 August- Now
- Registered Projects- 5 Numbers of Approve in Principal projects are submitted.
### Performance Indicator Chart of CQHP/HPBC

<table>
<thead>
<tr>
<th>Year</th>
<th>Registered Projects</th>
<th>Complete Recommended Projects</th>
<th>Partially Recommended Projects</th>
<th>Cancelled Projects</th>
<th>Delayed Projects</th>
<th>Not Submitted Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>2003-2013</td>
<td>93</td>
<td>86</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>2014-2019 (August)</td>
<td>140</td>
<td>101</td>
<td>20</td>
<td>2</td>
<td>4</td>
<td>13</td>
</tr>
</tbody>
</table>
Discussion & Conclusion

- In every sector of Construction Industry, the Code of Practice, Code of Conduct, Manual and Guidelines are essential.

- It should be at least Standard Operating Procedure (S.O.P) are needed to implement the responsibility and accountability in a Construction Project to achieve the successful ones without Conflict of Interest (C.O.I).

- Guidelines for Bidding and Tendering procedure of a Construction Project has been adopted in 2012 and modifications has been made in 2016, issued by the President Office of Myanmar.
Discussion & Conclusion (Continued)

- In that procedure, avoiding processes for C.O.I are also included.

- Therefore all the stakeholders in Construction Industries must be followed and stuck to the above mention procedure to enhance the practical application of responsibility and accountability.

- Last but not the least, the most important fact in our Engineering Profession is the “Ethic”, therefore each and everyone of our engineers, technologists and technicians have to keep the respective ethics firmly for upgrading the status of responsibilities and accountabilities in Construction Industry.
THANK YOU