



Targeted Test for *Cracks & Leakages*

Tests Conducted : *Visual Inspection, Core Sampling, Water Penetration Test.*

- *Visual Inspection :*
 - To inspect *Verticality, Flatness* and Overall *Quality* of the *HCPS Monolithic Walls.*
- *Core Samples :*
 - To inspect the *effectiveness* of the *Cebex 100 Expendite grout admixture.* To check the *compressive strength* between the *monolithic joint* between concrete and *Cebex 100 Expendite grout admixture.* To inspect the *quality* of the *wet joint* casting for through *cracks* and *completeness* of concrete casting.
- *Water Penetration Test :*
 - To inspect the *penetration of liquids across the panel section.*

To confirm the *effectiveness* of the *monolithic joints* against *water leakages.*

Tests were conducted *Independently* by a *Reputable Developer* and jointly witnessed by *HCPS* at the sample unit at *HCPS* fabrication complex.

Industrialised Building System Provider

is one who knows the “*Way*”, goes the “*Way*” and shows the “*Way*”.

A Little About Us

HCPS was founded in year **2002** and specializes in *Precast Concrete Structure Construction* for *low to mid rise* buildings.

Our patented revolutionary “*shear key joint*” system have managed to resolve the very issue which have plagued the *precast industry, water leakages*.

HCPS currently holds **six (6) Intellectual Properties (IP)** encompassing this proprietary Precast technology. Among the highlights of the *HCPS's system* is the ability of the structure to withstand **earthquake forces** (test conducted in collaboration with UTM).

The *complete IBS* rather than IBS components is in full compliance with the recent *government's requirement*. The company can *undertake any design* and build in *fulfilling the architectural demand*, unlike most other system which often poses certain restrictions due to *structural limit* or *production/manufacturing impediment*.

Propose to Government and Private Developer

Invite industrialized building system provider with manufacturing facility (flexibility to suit all architectural demands) to participate to build the show unit with work below and superstructure without finishing for the Government & Private Developer to identify the system in terms of green, environment, quality and speed for supply in its development.

1. Architect




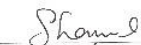
- **Appointed by the Government & Private Developer .**
- **Design of single storey bungalow of 1,000 ft² (affordable home), up to superstructure with out finishing.**
- **With M&E requirement.**
- **Wall finishing with plaster or skim coat only.**
- **Door and window frame opening.**
- **Ground floor without tiling.**



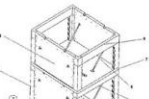
2. Industrialized building system manufacturer have formed their BQ for superstructure (in terms of wall area) and to submit work program with sequence of work for record purposes.

3. Proper record by the Government & Private representative during construction, in terms of labour and machinery involved per day up to completion (superstructure only).

4. Cost Comparison for each Industrialized Building System Manufacturer by the Government & Private Developer (for superstructure only). Cost will be fixed for the selected manufacturer and supply to its development .



<p>(12) United States Patent Bar</p> <p>(54) BUILDING METHODS</p> <p>(75) Inventor: Teow Beng Hui, Selangor (MY)</p> <p>(73) Assignor: HC Precast System Sdn Selangor Darul Ehsan (S)</p> <p>(*) Notice: Subject to any disclaimer patent is extended to 4 U.S.C. 154(b) by 16 day</p> <p>(21) Appl. No.: 10/285,548</p> <p>(22) Filed: Nov. 1, 2002</p> <p>(65) Prior Publication Data</p> <p>US 2004/0516199 A1 Jan. 29, 2004</p> <p>(31) Int. Cl.:</p> <p>(32) U.S. Cl.: 526/56.1</p> <p>(58) Field of Search</p> <p>249/27, 47, 191, 524/2</p> <p>(56) References Cited</p> <p>U.S. PATENT DOCUMENTS</p> <p>2,599,500 A * 6/1960 Grant</p>	<p></p> <p>CERTIFICATE OF GRANT OF A PATENT</p> <p>In accordance with Section 3 grant number MY - 124213 in respect of an invention in</p> <p>TITLE</p> <p>FILING DATE</p> <p>PRIORITY DATE</p> <p>NAME OF INVENTOR</p> <p>PATENT OWNER</p> <p>DATE OF GRANT</p> <p>Dated this 30 day of JUNE</p>	<p></p> <p></p> <p>MALAYSIA</p> <p>CERTIFICATE OF GRANT OF A PATENT</p> <p>In accordance with Section 3(2) of the Patents Act 1963 a patent for an invention having grant number MY - 199712 - A has been granted to HC PRECAST SYSTEM SDN. BHD. in respect of an invention having the following particulars</p> <p>TITLE : PANEL FORMWORK SYSTEM</p> <p>FILING DATE : 27 MAY 2003</p> <p>PRIORITY DATE : NONE</p> <p>NAME OF INVENTOR : TEOW BENG HUI</p> <p>PATENT OWNER : HC PRECAST SYSTEM SDN. BHD. NO. 1, (GRD. FLOOR) JALAN SINGA 20/E SEKSYEN 22 40000 SHAH ALAM SELANGOR DARUL EHSAN MALAYSIA</p> <p>DATE OF GRANT : 30 OCTOBER 2009</p> <p>Dated this 30 day of OCTOBER 2009</p> <p> (SHAMSHAH BINTI KAMARUDDIN) for Registrar of Patents MALAYSIA</p>
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<p>CE</p> <p>In accordance with Section 4 of the Patents Act 1984, I hereby certify that the above is a true and correct copy of the original as filed with me.</p> <p>TITLE</p> <p>FILING DATE</p> <p>PRIORITY DATE</p> <p>NAME OF INVENTOR</p> <p>PATENT OWNER</p> <p>DATE OF GRANT</p> <p>DURATION OF PATENT</p> <p>END OF PROTECTION</p> <p>Dated this 31 day of MAY 2011</p>	<p>CE</p> <p>In accordance with Section 4 of the Patents Act 1984, I hereby certify that the above is a true and correct copy of the original as filed with me.</p> <p>TITLE</p> <p>FILING DATE</p> <p>PRIORITY DATE</p> <p>NAME OF INVENTOR</p> <p>PATENT OWNER</p> <p>DATE OF GRANT</p> <p>DURATION OF PATENT</p> <p>END OF PROTECTION</p> <p>Dated this 15 day of JUL</p>	<p>KEMENTERIAN KESKUTAN INTELLEKTUAL</p> <p>Menteri Hakmuk dan Hak Asasi Manusia</p> <p>Undang-Undang Nomor 13 Tahun 2010</p> <p>Untuk Inovasi dengan Judul</p> <p>Inventor</p> <p>Tanggal Penerimaan</p> <p>Nomor Paten</p> <p>Tanggal Pemberian</p> <p>Perlindungan Paten untuk Tanggal Penerimaan (Pasal 21)</p> <p>Sertifikat Paten ini dilampirkan yang tidak terpisahkan dari sertifikat ini</p> <p></p> <p>09-0109-00000</p>	<p>(17) PATEN INDONESIA</p> <p>(18) DIREKTORAT JENDERAL KEMENTERIAN INTELLEKTUAL</p> <p>(19) Klasifikasi (IC) : E 04H 9/02</p> <p>(20) No. Pendaftaran Paten : P00001000003</p> <p>(21) Tanggal Pendaftaran : 20 Desember 2010</p> <p>(22) Data Prioritas : (23) Tanggal : 03 Jan 2012</p> <p>(24) Nomor : P.000000000</p> <p>(25) Tanggal Pengumuman : 26 Januari 2012</p> <p>(26) Dokumen Pendaftaran : US 5678272 A</p> <p>(27) 02 3730004 A</p> <p>(28) Nama dan Alamat Pemohon Paten : PT. Bina Dasa Resources, Kantor Teratai A-9, Unit A6 & A7 di 12, No. Arak Karyo Cile Karyo, Mega Karyo, Jakarta 12955 INDONESIA</p> <p>(29) Nama Inventor : Teane Beng Hui, MY</p> <p>(30) Nama dan Alamat Pemohon Paten : PT. Bina Dasa Resources, Kantor Teratai A-9, Unit A6 & A7 di 12, No. Arak Karyo Cile Karyo, Mega Karyo, Jakarta 12955 INDONESIA</p> <p>(31) Perencana Paten : Adika Melica Aulio, ST.</p> <p>(32) Jumlah Klaim : 5</p> <p>versi : PANEL DINDING YANG TAHAN TERHADAP GEMPA BUMAH</p> <p>versi : dalam bahasa dengan panel dinding praesit lebih banyak (1) yang memberikan elemen struktur dan struktur yang menggunakan sebagai dan menahan kuat, dengan menggunakan pengapungan modular. Pada panel (2) untuk satu (3) dan sejumlah bagian kuat beranak (4) yang menahan dengan secara bergantian dengan satu sama lain di satu sisi pada panel dinding yang beraturan dan kompartemen beraturan (5) yang beraturan dan sejumlah satu (3). Pada panel, panel dinding yang beraturan dengan sejumlah satu (3) dan sejumlah bagian kuat beranak (4) beraturan dengan satu (3) yang beraturan satu (3) dan sejumlah bagian kuat beranak (4) pada satu sisi dan kedua sisi pada panel dinding yang beraturan dengan sejumlah satu (3) dan sejumlah bagian kuat beranak (4) pada satu sisi dan kedua sisi pada panel dinding yang beraturan lainnya. Selanjutnya, kompartemen beraturan (5) membentuk dengan pinggir yang diberikan oleh menahan sejumlah satu (3).</p> <p></p> <p></p>
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UTM
UNIVERSITI TEKNOLOGI MALAYSIA

e-SEER
Engineering Seismology and
Earthquake Engineering Research



HC PRECAST SYSTEM SDN. BHD.

Earthquake Resistance System
Tested on
18 August 2011
@ Laboratory of Shake Table Testing
Faculty of Civil Engineering
Universiti Teknologi Malaysia
81310 Skudai, Johor



Earthquake Resistance Test of Scaled-Down Double Storey Building of HC PRECAST SYSTEM SDN. BHD.

Under 8 different real earthquake time histories over the world as follow:

Earthquake	Year	Scaled PGA (g)	Magnitude	Result
El-Centro, California	1940	0.96	7.1	
Tabas, Iran	1978	0.114	7.4	
Irpinia, Italy	1980	0.606	6.5	
Kobe, Japan	1995	1.035	6.9	
New Zealand	1987	0.165	5.6	
Taiwan SMART1	1983	0.117	6.8	
Duzce, Turkey	1999	0.075	7.1	
Malaysia Artificial	-	0.606	-	

*The **HC PRECAST SYSTEM** performed extremely well throughout all the earthquake tests without any visible cracks or damages*

Dr Azlan Adnan
Professor of Structural Earthquake Engineering
Faculty of Civil Engineering, Universiti Teknologi Malaysia

HC Precast System is a complete **IBS solution particularly** in a design and build precast system developed by **HC PRECAST SYSTEM SDN. BHD.**



HC Precast Slab Panel

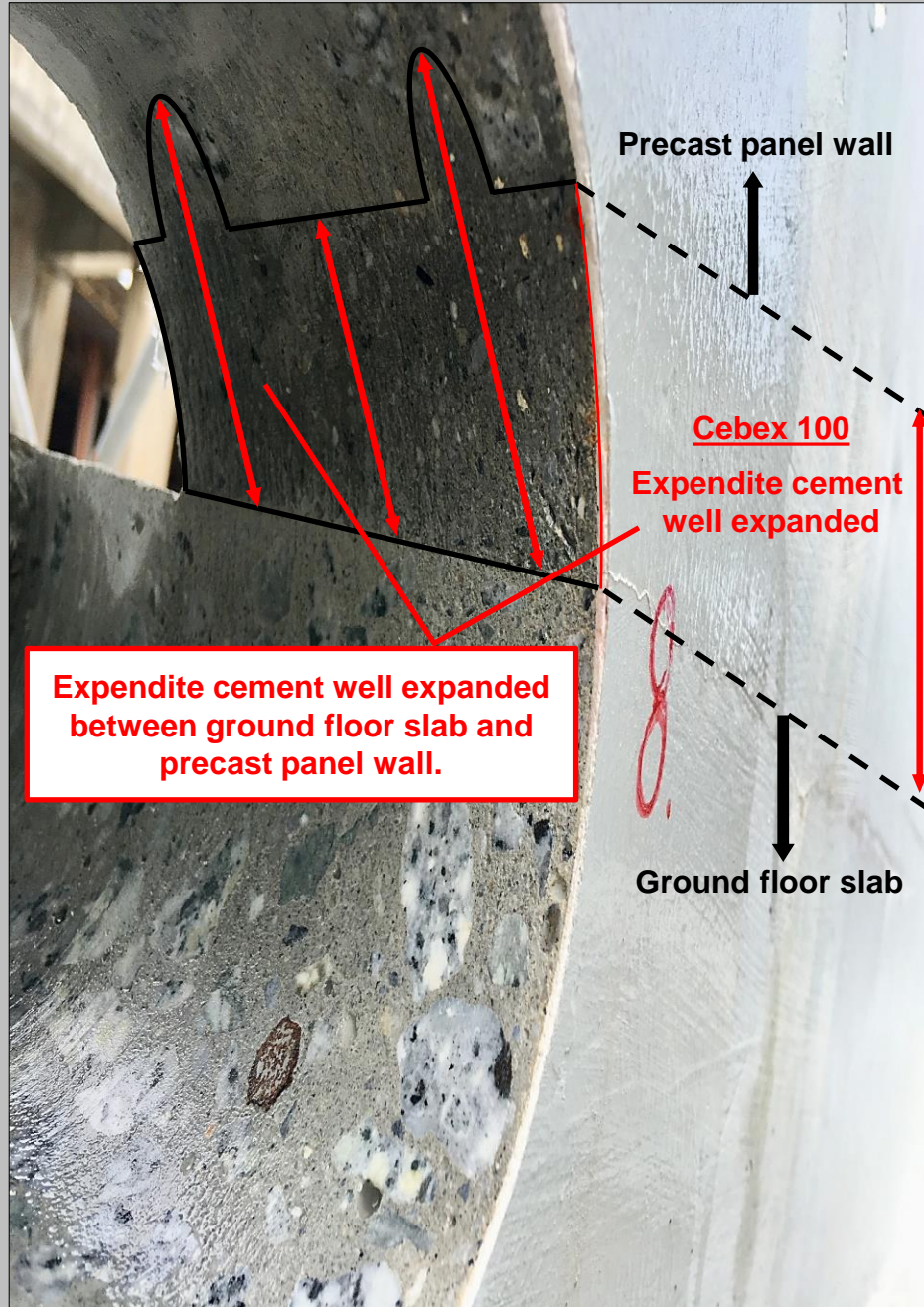
HC Precast Wall Panel

HC Precast Beam

HC Precast In-situ Column
(reusable modular mould system included)

HC Precast Staircase

- **Visual Inspection :** - To inspect *Verticality*, *Flatness* and *Overall Quality* of the **HCPS Monolithic Walls**.

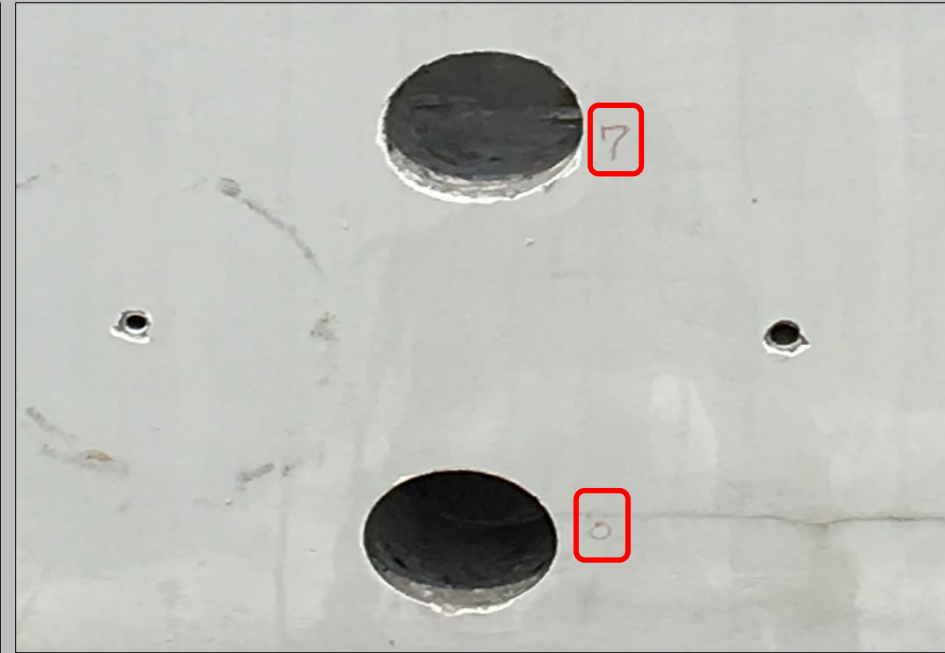
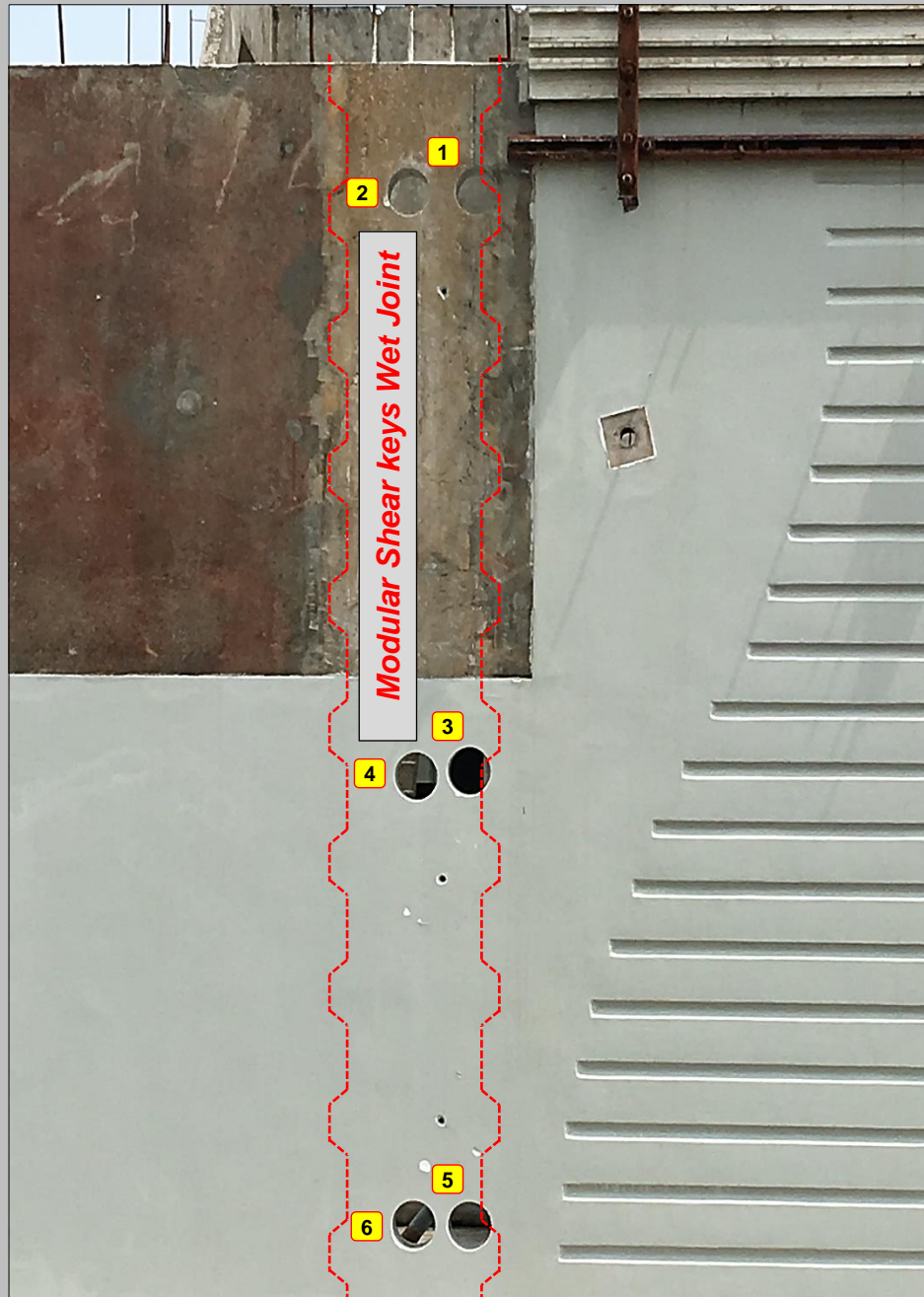


Standards compliance

Cebex 100 is a suitable pre-stressing Grout admixture when complying with BS 8110 Part 1, 1985, section 8.9.4.6.



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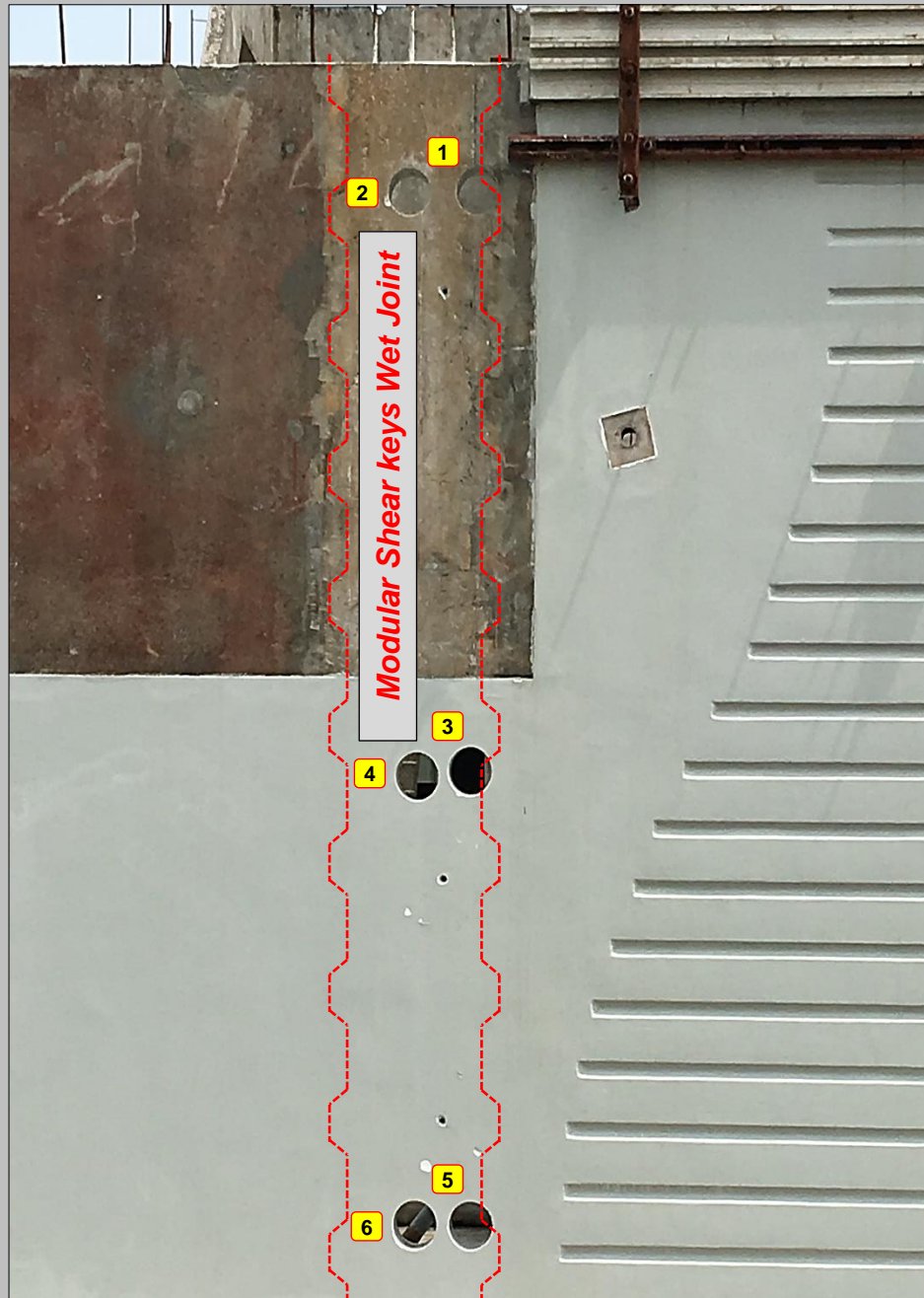
Our Patented
Revolutionary
“**shear key joint**”
system have
managed to resolve
the very issue which
have plagued the
precast industry,
water leakages.

This patented system has helped to eradicate the most common issue with Precast Concrete construction, *water leakages.*

- Wet joint
- Tongue and groove
- Seamless interfacing



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3. Water Penetration Test Sample Location



- **Visual Inspection** : - To inspect *Verticality*, *Flatness* and *Overall Quality* of the **HCPS Monolithic Walls**.

1. Water Penetration Test Samples (Preparation)



2. Water Penetration Test Set-up (Day 1: 15 Nov 2019 Time: 3pm)



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3. Water Penetration Test Result after 24hours (Day 2: 16 Nov 2019 Time: 3pm)



Test Sample	Day One	Day Two (After 24 hours)
Sample P1	25mm	26mm (Loss 1mm)
Sample P2	25mm	28mm(Loss 3mm)
Sample P3	25mm	31mm(Loss 6mm)
Benchmark (BM)	25mm	26mm (Loss 1mm)

Industrialised Building System *Provider*

is one who knows the “**Way**”, goes the “**Way**” and shows the “**Way**”.

IBS CONCEPT

Precast Elements requirements to complete a building is
sequence of work - 5 Steps

i) *Step 1* - Drawing conversion :

- *2D Architect* drawing to *3D IBS system drawing*
- *Original M&E* drawing to *M&E IBS system shop drawing*

ii) *Step 2/off-site* - **Mould** *fabrication*

iii) *Step 3/off-site* - **Production** (*advance casting*)

iv) *Step 4/off-site* - **Delivery** (*4 options*)

v) *Step 5/on-site* - **Installation** (*numbering*)

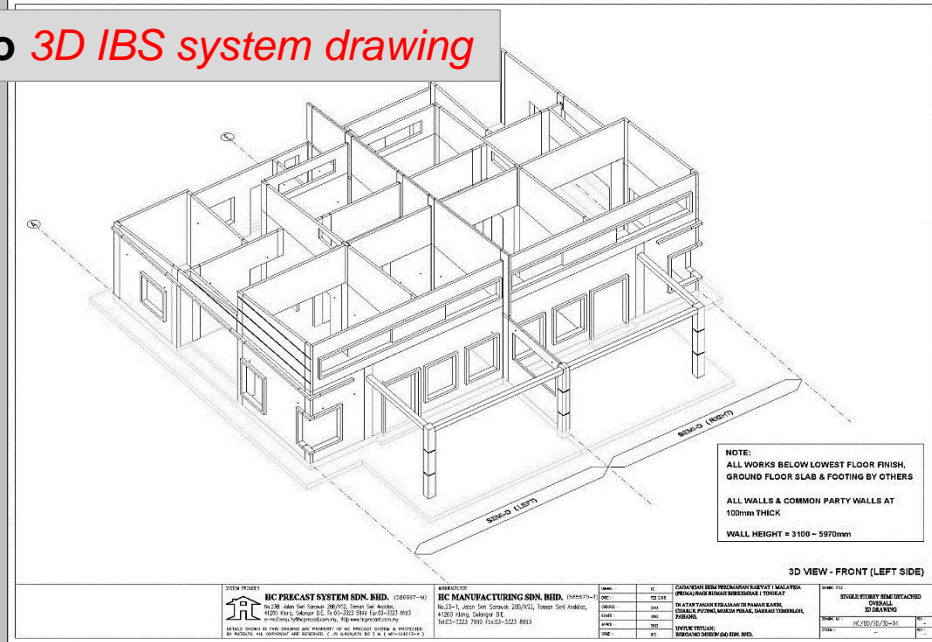
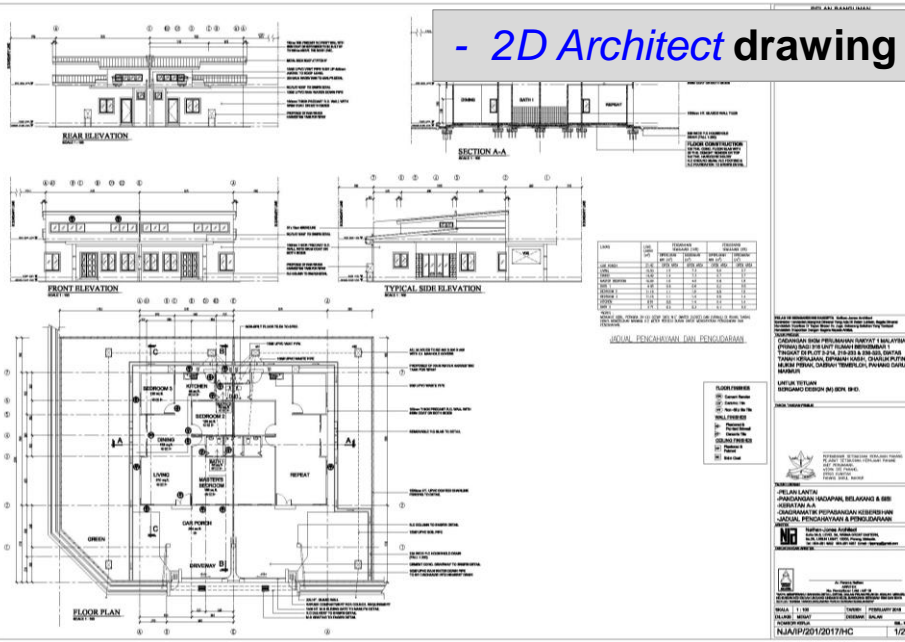
Speed

Decide by **Client**

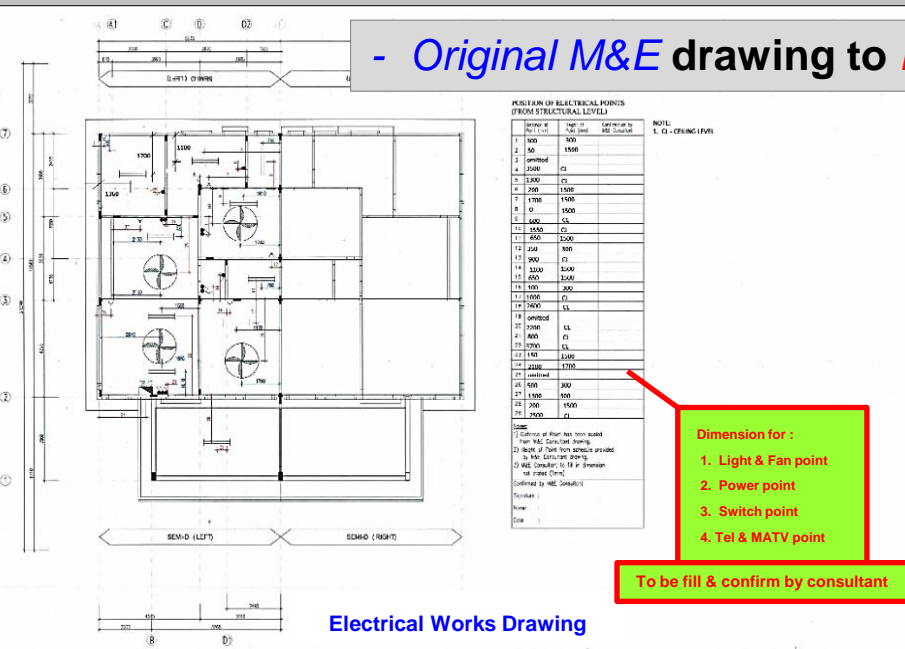
Precast element comply to the **Bsi code & Building by Law**

Step 1 - Drawing conversion

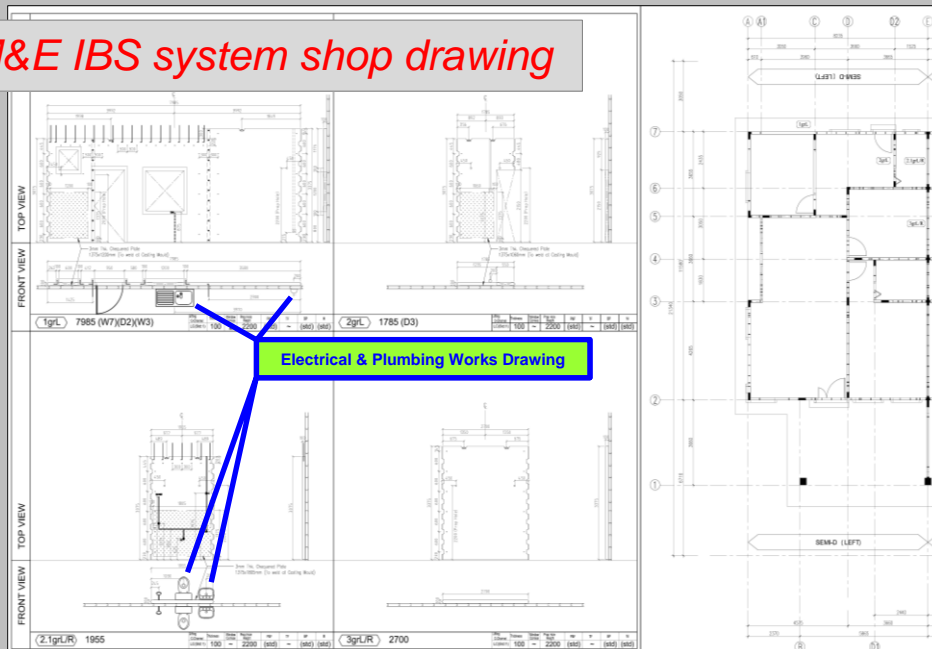
- 2D Architect drawing to 3D IBS system drawing



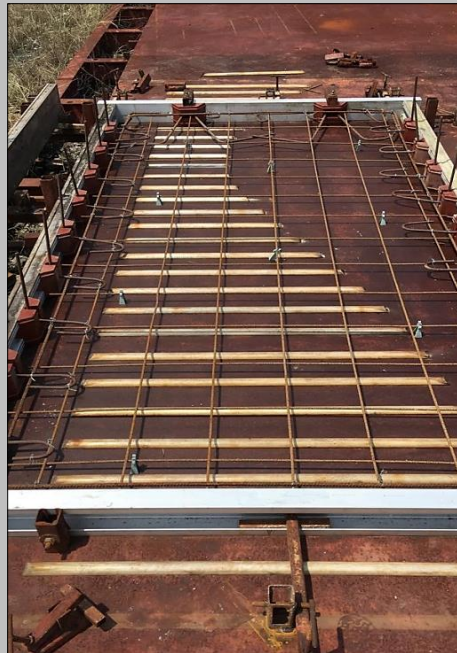
- Original M&E drawing to M&E IBS system shop drawing



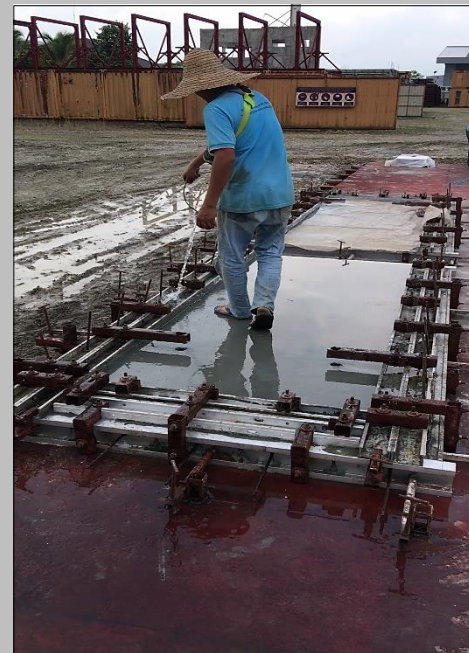
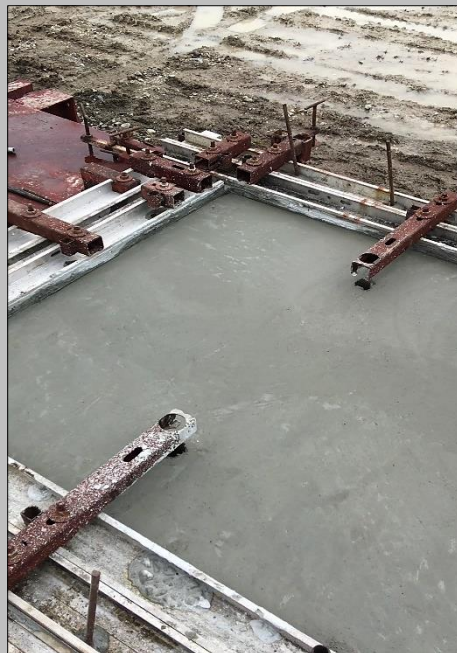
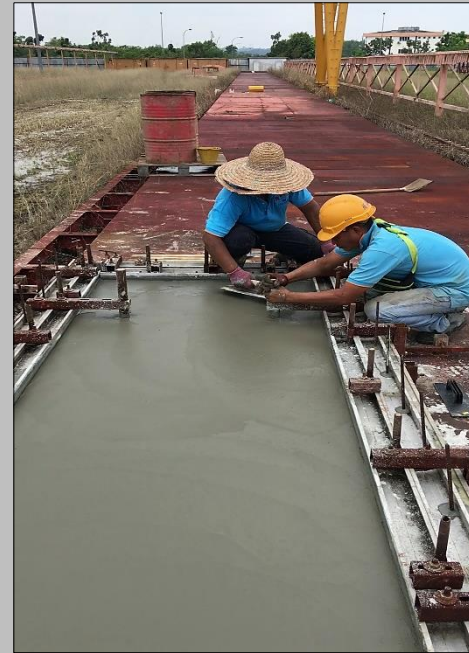
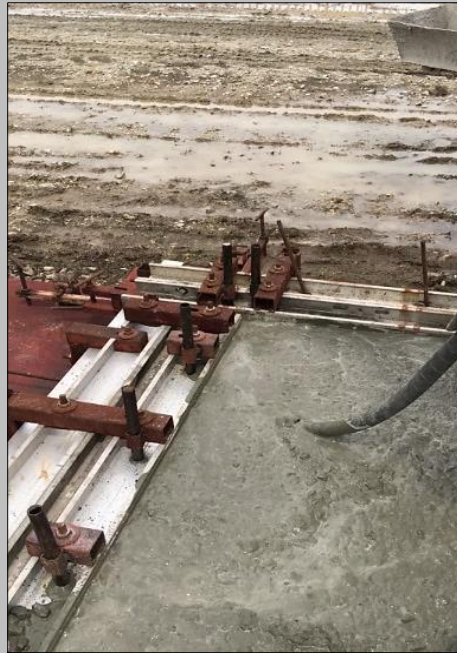
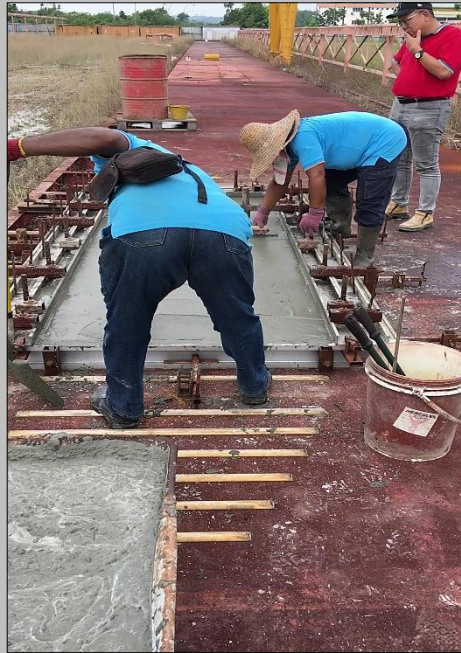
- Dimension for :
1. Light & Fan point
 2. Power point
 3. Switch point
 4. Tel & MATV point
- To be fill & confirm by consultant



Step 2/off-site - Mould fabrication



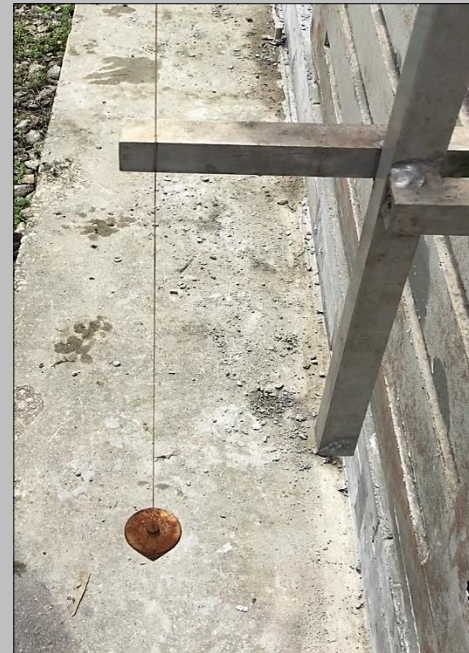
Step 3/off-site - Production (advance casting)



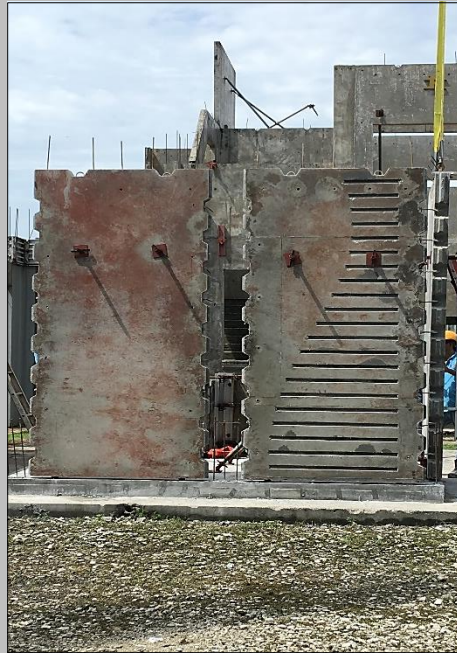
Step 4/off-site - Delivery (4 options)



Step 5/on-site - Setting-out & Installation (numbering)



Step 5/on-site - Installation (numbering)



HCPS *monolithic precast wall system*



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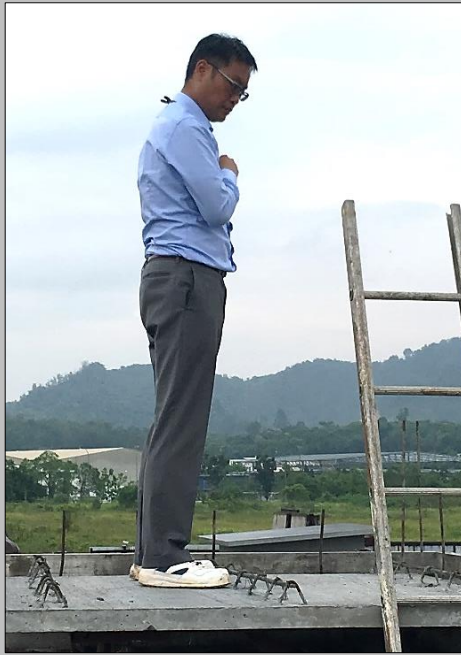
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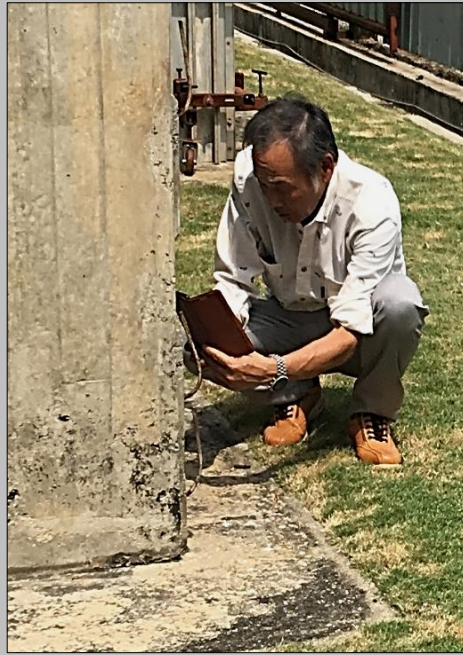
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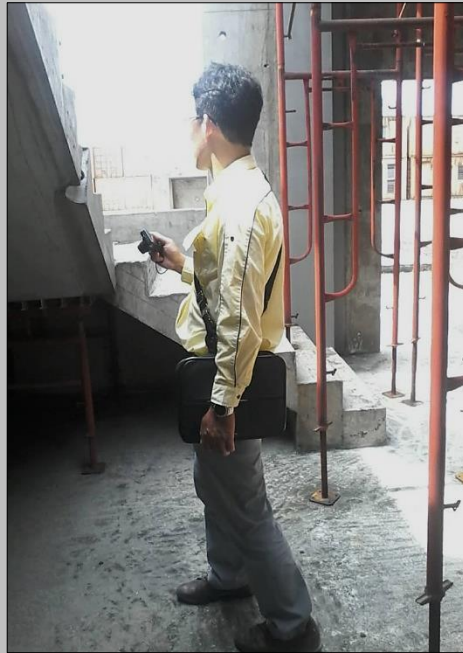
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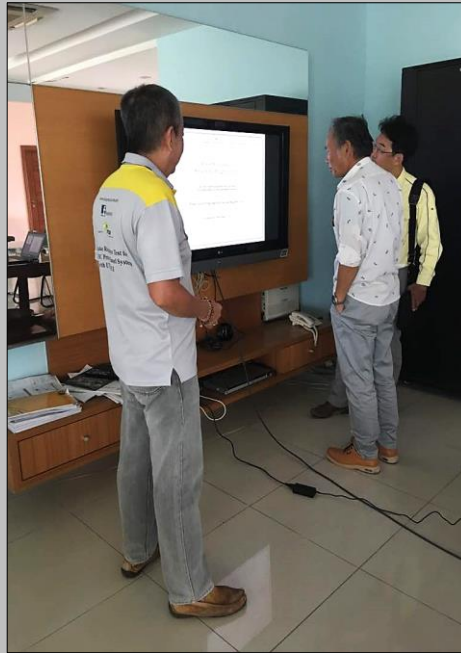
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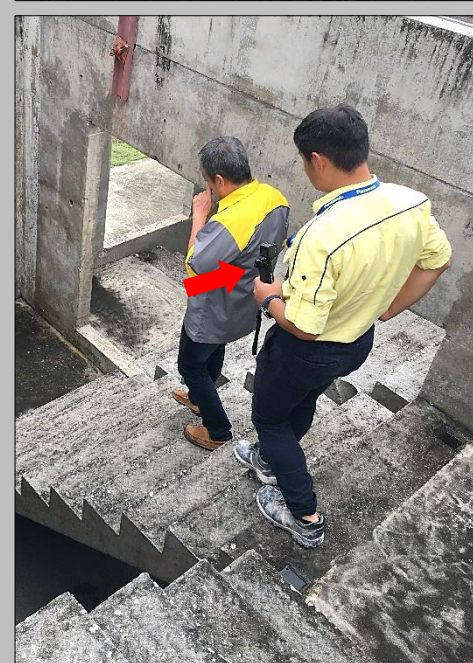
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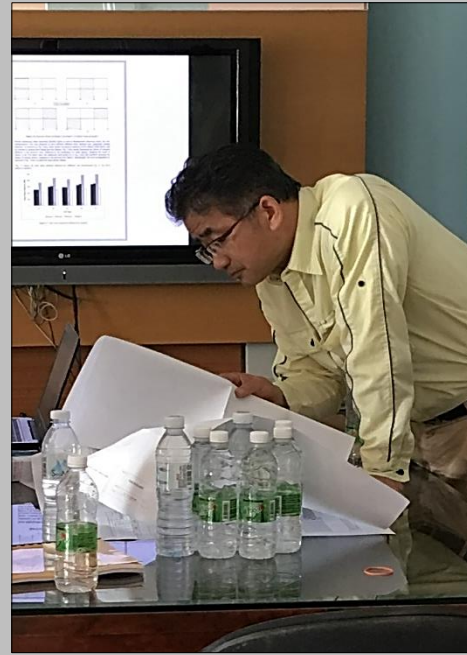
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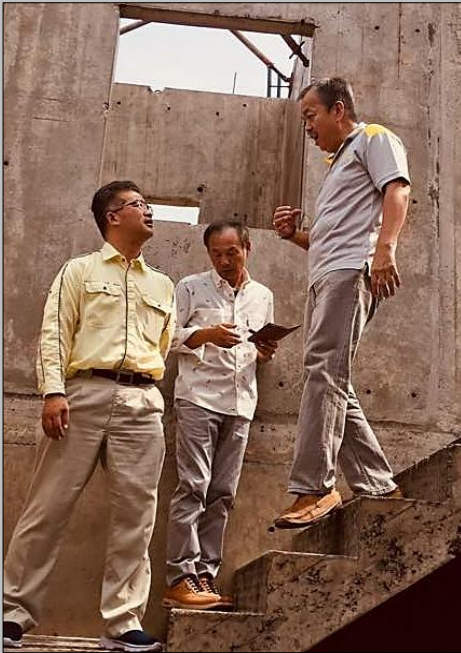
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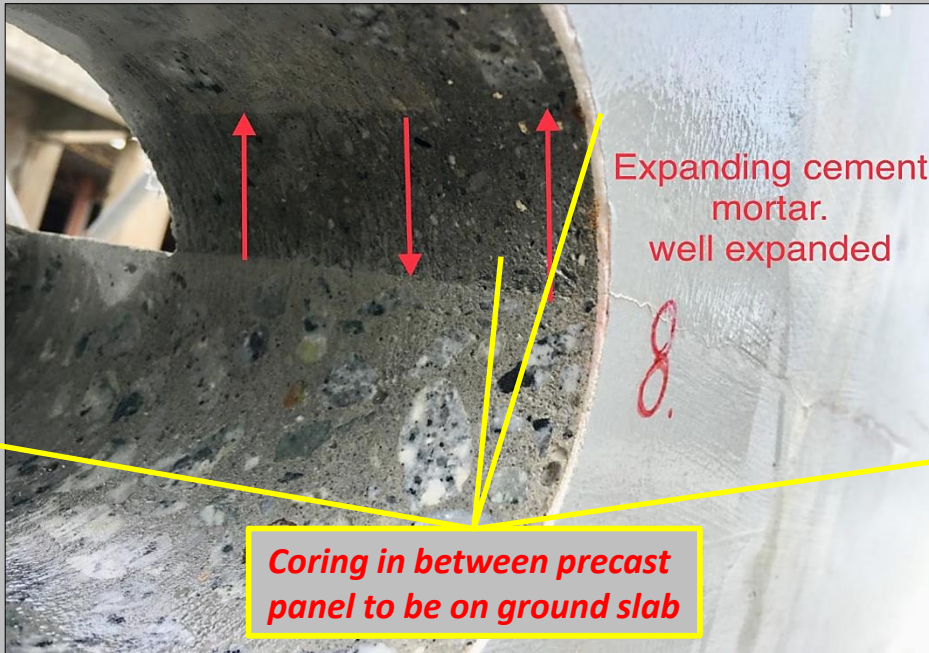
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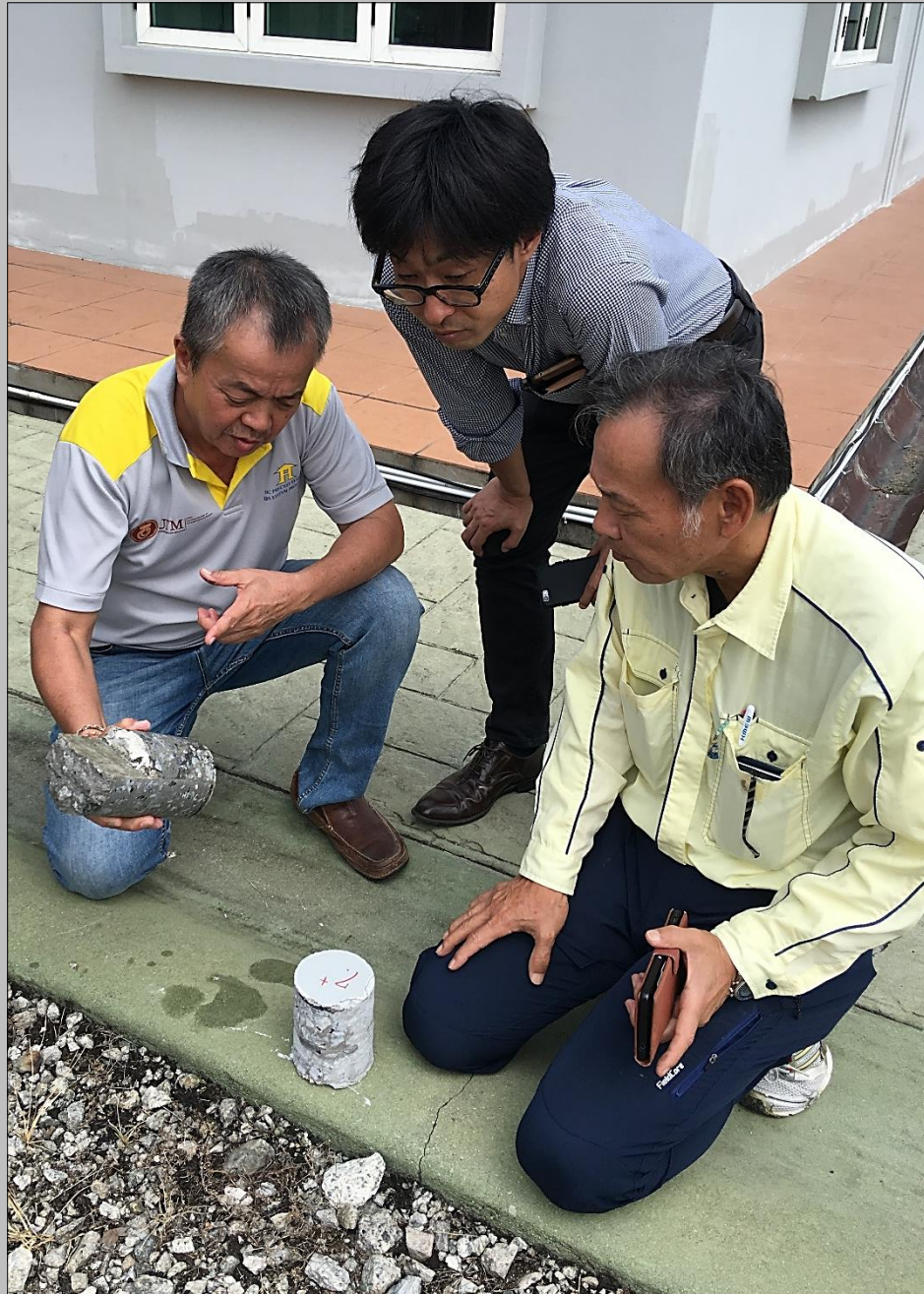
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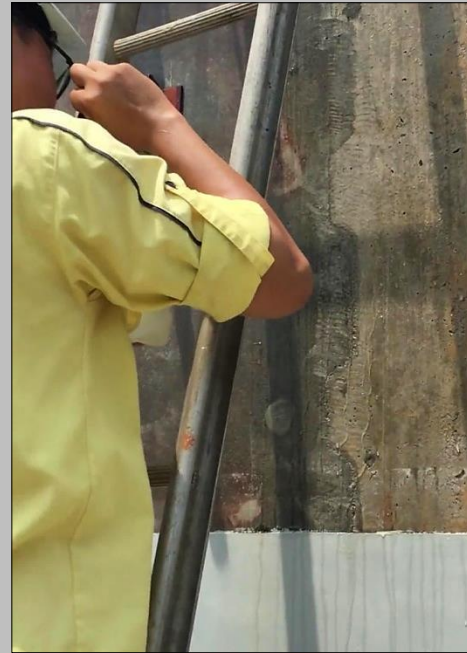
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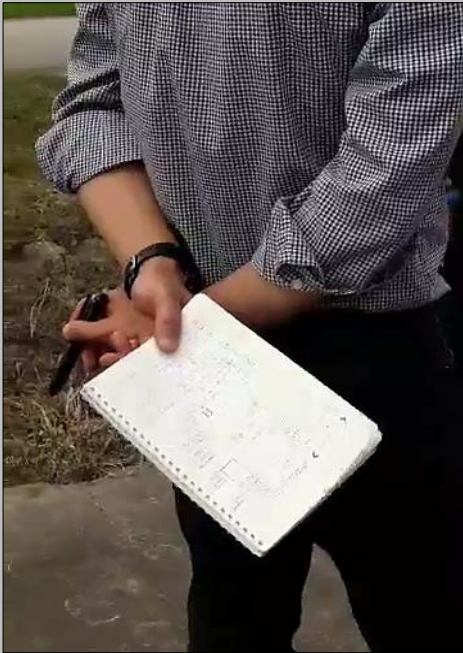
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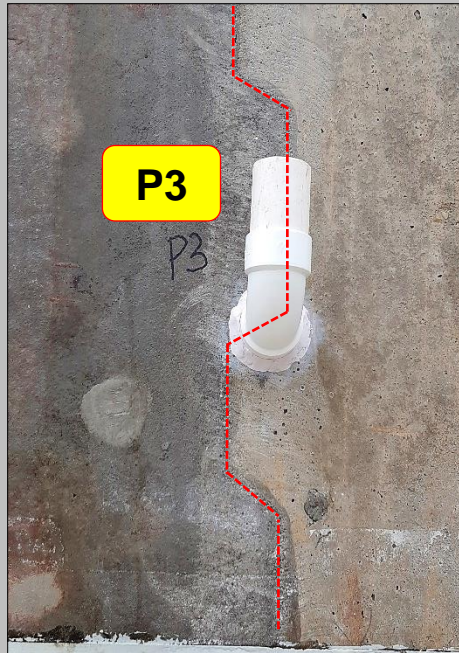
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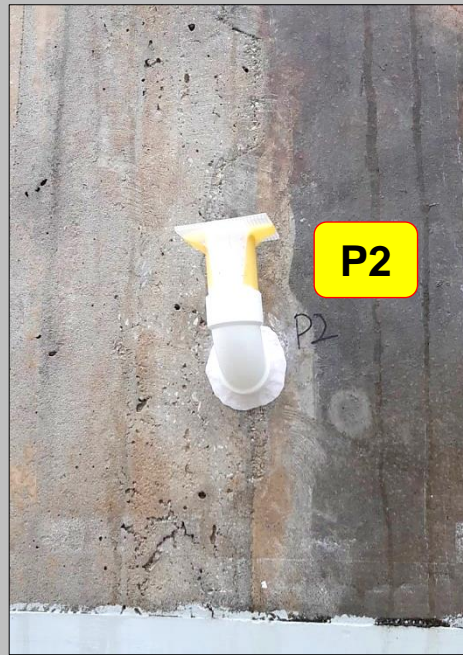
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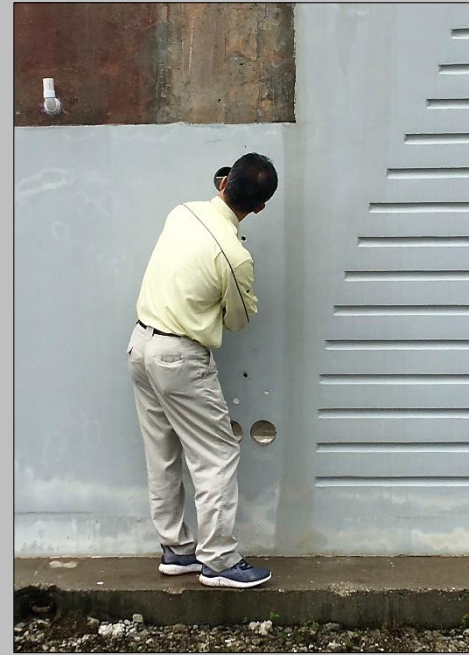
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WATER PENETRATION TEST

DATE: 15-16 NOVEMBER 2019



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THANK YOU

