

Technical Reference (Assessment System)

**MALAYSIAN CARBON REDUCTION AND
ENVIRONMENTAL SUSTAINABILITY TOOL
("MyCREST")**



For :



Prepared by:



**Our Ref.: ECSB/2017/80.32.0-3023/RA/pm
24 Oct 2017**

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Table of Contents

1.	GENERAL INFORMATION	1
1.1	System Overview	1
1.1.1	System Name.....	1
1.1.2	System Platform and Accessibility	1
1.1.3	System Overview	1
1.1.4	Access Control	2
1.2	Point of Contact.....	2
1.2.1	Operations and Services Related	2
1.2.2	Technical and Support Related.....	2
1.3	Authorization Use Permission System	3
1.4	Other Related Documentations/References.....	3
2.	GLOBAL CONFIGURATION AND SETUP.....	4
3.	CORE CONFIGURATION AND SETUP.....	5
4.	SERVER ENVIRONMENT	5
5.	PHP CONFIGURATION	6
6.	INSTALLATION OF MyCREST APPLICATION SYSTEM AND WEB PORTAL.....	7

1. GENERAL INFORMATION

MyCREST, or the **Malaysian Carbon Reduction and Environmental Sustainability Tool**, aims to guide, assist, quantify the built environment's impact in terms of reduced carbon emissions and environmental impact, thus reducing the influences, while taking into account a more holistic lifecycle view of the built environment. It also aims to integrate socioeconomic considerations relating to the built environment and urban development.

MyCREST aims to reduce the industry's carbon emission and impact to the environment, by guiding construction industry players and stakeholders to design, construct and operate buildings that integrate low carbon with sustainable practices.

1.1 System Overview

The primary objective for this portal development is to provide easy access and promote program certification. The portal will comprise of vital information such as Tools, Registration Procedure, Rating & Fee, Events, News, Online Payment, etc. Automating the business processes to become more effective and can be accessed from anywhere at anytime.

1.1.1 System Name

MyCREST Assessment System.

1.1.2 System Platform and Accessibility

Web-based and accessible from major/popular internet browser such as Google Chrome, Firefox Mozilla, Internet Explorer, Opera, etc.

1.1.3 System Overview

This MyCREST Assessment System consists of the following modules and functions:

- 1) Applicant Registration
 - 2) Project Registration
 - 3) Payment
 - 4) Submission
 - 5) Carbon Calculator
 - 6) Rating
-

- 7) Re-submit
- 8) Certification
- 9) Reminder, Extension and Renewal

1.1.4 *Access Control*

Functionalities that permitted for the **Support and Maintenance Team** to perform the addition and editing of the relevant content.

1.2 **Point of Contact**

Below is the point of organizational contact (POC) for informational and troubleshooting purposes.

1.2.1 *Operations and Services Related*

Name : Bahagian Pembinaan Mampan,
Level 11, Sunway Putra Tower,
Lot 100, Jalan Putra,
50350 Kuala Lumpur
Tel. No. : 03-4040 0040 / 03-4040 0032
Email : mycrest@cidb.gov.my

1.2.2 *Technical and Support Related*

Name : CIDB E-Construct Services Sdn. Bhd. (CIDBEC)
Department : Operations Unit (Helpdesk)
Tel. No. : 03-4040 0399
Email : support@cidbec.com.my

1.3 Authorization Use Permission System

- a) Developer (Applicant)
- b) Owner of building/project (Applicant)
- c) Registered and Approved Assessor
- d) Secretariat (CIDB Staff)
- e) Qualified Professional/Facilitator

1.4 Other Related Documentations/References

There are several types of documentations available including

- a) User Manual for MyCREST Assessment System – for Applicant
- b) User Manual for MyCREST Assessment System – for Assessor
- c) User Manual for MyCREST Assessment System – for Secretariat
- d) User Manual for MyCREST Assessment System – for System Administrator
- e) User Manual for MyCREST Assessment System – for Master Administrator
- f) Attachment on Score-card Reference Inputs
- g) Attachment on Total Score and Carbon Calculator
- h) Attachment on Full Workflow Assessment Process - Multi Roles
- i) Attachment on Reporting and Dashboard

2. GLOBAL CONFIGURATION AND SETUP

Host	mycrest.cidb.gov.my apps.mycrest.cidb.gov.my
PHP version	X-Powered-By PHP/5.4.16
Apache Environment	Apache/2.4.6 (CentOS) PHP/5.4.16 or equal
DOCUMENT_ROOT	/var/www/html
cURL Support	Enabled
Default Timezone	Asia/Kuala_Lumpur
Hashing Engines	sha512
MYSQL	Mysqli Driver Installed Client API library version 5.5.52-MariaDB Active Persistent Links 0 Inactive Persistent Links 0 Active Links 0 Client API header version 5.5.50-MariaDB MYSQLI_SOCKET /var/lib/mysql/mysql.sock

3. CORE CONFIGURATION AND SETUP

Apache + MySQL + PHP for LINUX

Apache PHPMyAdmin MySQL editor

PHP 5.4

MySQLi Driver for PHP/MySQL

MySQL with BLOB Support and hashing sha 512

PHP Source code Latest Backup from developer

MySQL Latest Database Backup from DB Administrator

4. SERVER ENVIRONMENT

High spec Linux server

Centos OS (7)

MySQL Server (MariaDB)

PHP 5.4 Minimum Requirement

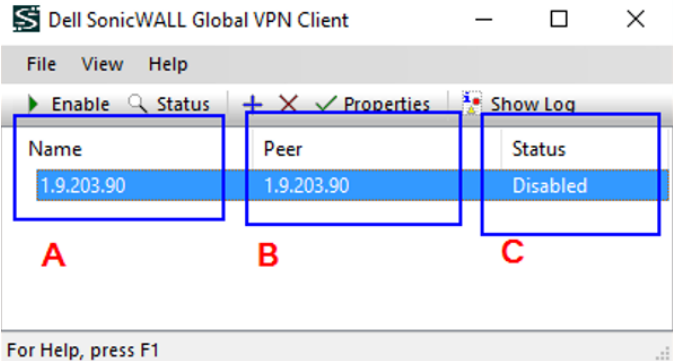
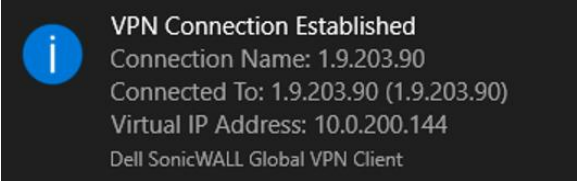
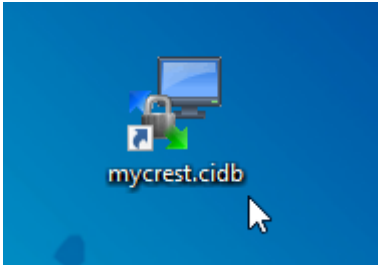
Email Server with SMTP

Cloud based / Dedicated / Co-location Preferable Server

5. PHP CONFIGURATION

Configuration & Setup (Core PHP Setting)	PHP Scripting (5.4.16)
allow_url_fopen	On
allow_url_include	Off
display_errors	Off
display_startup_errors	Off
file_uploads	On
html_errors	On
max_execution_time	300
max_file_uploads	20
max_input_nesting_level	64
max_input_time	600
max_input_vars	1000
memory_limit	128M
open_basedir	no value
output_buffering	4096
output_handler	no value
post_max_size	58M
smtp_port	25
sql.safe_mode	Off
track_errors	Off
unserialize_callback_func	no value
upload_max_filesize	50M

6. INSTALLATION OF MyCREST APPLICATION SYSTEM AND WEB PORTAL

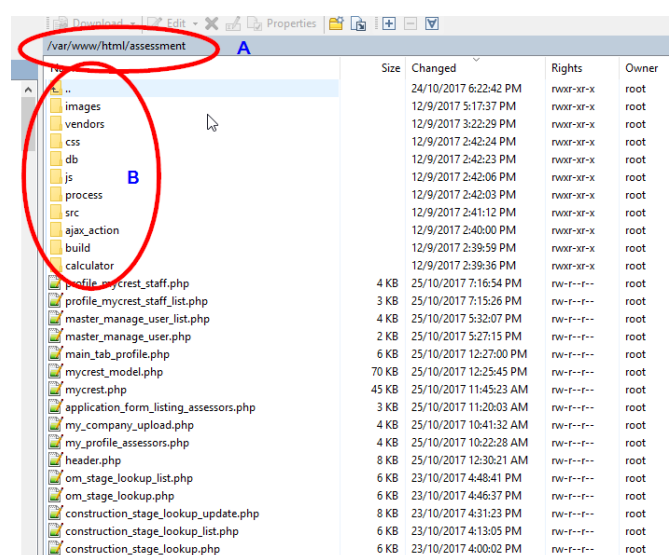
Configuration & Setup	PHP Scripting (5.4.16)
<p>SonicWALL Connection</p>	 <ul style="list-style-type: none"> ❖ A: IP Address to connect to CIDB VPN ❖ B: IP Address to connect to CIDB VPN ❖ C: Enabled = connected Disabled – Disconnected <p>To connect, double-click or right-click; and click Connect. Once connected, a notification will be appeared.</p>  <p>Continue to Access Server using WINSCP</p> 

WinSCP

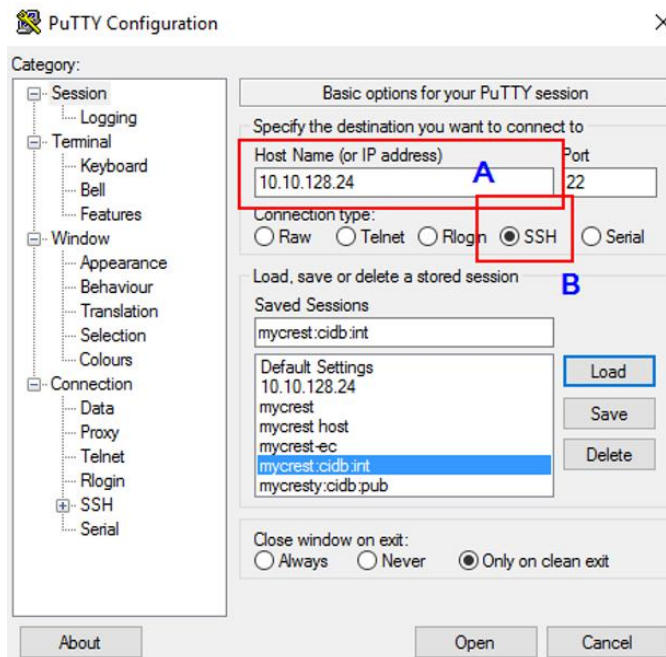
The image shows the WinSCP Session dialog box. It contains the following fields and buttons:

- File protocol:** SFTP (Annotation A)
- Host name:** 10.10.128.24 (Annotation B)
- Port number:** 22 (Annotation B)
- User name:** root (Annotation C)
- Password:** [masked with dots]
- Edit** button (Annotation C)
- Advanced...** button
- Login** button (Annotation D)
- Close** button
- Help** button

- ❖ **A:** File Protocol: **SFTP**
- ❖ **B:** Host Name – 10.10.128.124, Port: default
- ❖ **C:** Username: root
- ❖ **D:** Click LOGIN button to continue



- Folder for Web Portal :
`/var/www/html`

	<ul style="list-style-type: none"> Folder for MyCREST Assessment : /var/www/html/assessment
Putty	 <p>❖ A: Host Name</p> <p>❖ B: Method to connect</p>
Recommendation Application on windows client for MyCREST Development (File Transfer and Coding Editor)	<ol style="list-style-type: none"> 1) WINSCP 2) Putty 3) Notepad++ Editor 4) Firefox/Chrome Browser