




# TPS ORANGE ECO SERIES

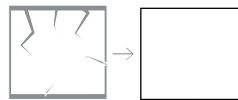
## CEMENT ADDITIVE FOR BRICKLAYING & PLASTERING



TECHNICAL DATA	
Packing	10Kg per carton (100g x 100 Packets)
Colour	Grey
Mixing Ratio	2 Bags Cement + 40 Scoops Sand (240Kg) + 2 TPS Orange  (Trial mix should be conducted to determine optimum mix)
Grade	  
Item Code	A04A
Shelf Life	12 Month



Excellent Workability



Reduce Shrinkage Crack



Increases Productivity



Ready For Mortar Pump

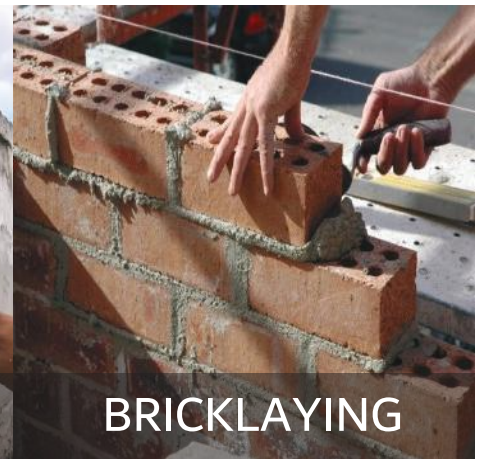
### APPLICATION



MANUAL PLASTER



SPRAY PLASTER



BRICKLAYING



2 Bags Cement



2 Packets TPS Orange



40 Scoops Sand

#### VALUED CUSTOMER



#### TECHNICAL DATA



#### HOW TO USE





# TECHNICAL DATA SHEET

## TPS ORANGE

### PRODUCT DESCRIPTION

TPS Orange is a high quality highly concentrated water based cellulose polymer plasticiser. Due of its excellent water retention and air-entraining properties, remarkable improvement can be seen in workability and consistency during application. The combined properties of excellent water retention and consistency make TPS Orange one of the best plasticiser.

### USES

Application on internal & external plastering.

### ADVANTAGES

- ✓ Good crack bridging capability
- ✓ Mixes and applies easily
- ✓ Very good adhesion to substrates
- ✓ Non-toxic, same as cement
- ✓ Cost saving on cement
- ✓ Improve bond strength
- ✓ Improve productivity

### PRODUCT DATA

Form	: Powder
Appearance / Colours	: White
Packaging	: 20 kg (200 packets in 100g packing)
Storage Conditions / Shelf Life	: 60 months from the date of production if stored properly in original, unopened and undamaged sealed packaging, in cool, dry conditions. Keep away from direct sunlight.

### TECHNICAL DATA

Chemical Base	: Polymer modified plasticiser
Filler	: Graded Silica Sand / Limestone powder
Aggregate Size	: 0.10-1.00mm

### HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage, and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological toxicological and other safety-related data



### SYSTEM INFORMATION

Application Details	: 2 Bags Cement + 40 Scoops Sand (240kg) + 2 TPS Orange.
Mixing ratio	: (According to mixing ratio above)
Coverage	: Min. 80 square feet for 1 inch plastering thickness Min. 160 square feet for ½ inch plastering thickness
Substrate Quality	: Concrete and brick surfaces must be clean, free from grease, oil and loosely adhering particles.
Substrate Preparation	: On area of concrete surfaces, spatter dash coat is required for improving adhesion between the undercoat and substrate surfaces.

### APPLICATION INSTRUCTIONS

Application Method / Tools	: Refer Method Statement.
Cleaning of Tools	: Clean all tools and application equipment with water immediately after use.
Pot Life (maximum)	: 120 ~ 180 minutes (at room temperature). Pot life is shorter at higher temperatures.
Notes on Application / Limitations	: Due to variation of sand, trial mix is strongly recommended to determine optimum mix.

### LEGAL NOTES

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Neither Shijiru Sdn Bhd nor any of its parent's companies assumes any liability what so ever for the accuracy or completeness of the information contained herein.

**VIVO RAISER SDN. BHD. (920807-P)**

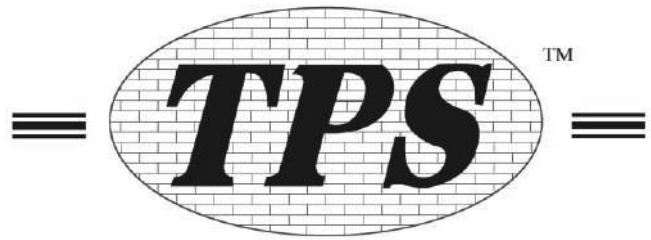
9 & 10, JLN PKNK 3/7, KAWASAN PERUSAHAAN SUNGAI PETANI  
08000 SUNGAI PETANI, KEDAH, MALAYSIA

Phone: 04-4102148 Email: sales@shijiru.com Website: www.shijiru.com



ISO 9001:2015





**TPS ORANGE**



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No.1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 03-55445872  
Fax: 03-55445886  
www.sirim-qas.com.my

### TEST REPORT

REPORT NO : 2019CB1513

PAGE : 1 OF 2

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#### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : VIVO RAISER SDN BHD  
No: 9 & 10, Jalan PKNK 3/7,  
Kawasan Perindustrian Sungai Petani,  
08000 Sungai Petani  
Kedah.

Manufacturer : VIVO RAISER SDN BHD

Product : Walplast 200 / TPS Orange

Reference Standard / Method of Test : BS EN 1015-11: 1999,  
Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar.

Description of sample / Description of Test Specimen : One (1) bag of 5 kg sample (mixed with Walplast 200 / TPS Orange + Portland-Composite Cement + Fine Sand) was received for testing.  
Brand: TPS  
Product description: Mortar Additives for Bricklaying, Rendering & Plastering.


Date Received of Complete Application : 07 October 2019

Job No. : J20191431321

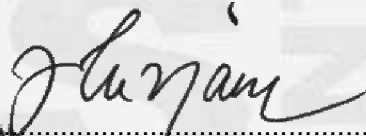
Description of Test Results / Overall Test Result : The test results of the submitted test sample are described in Page 2 of this test report.

Issued Date : 14 October 2019

Approved Signatories;

  
.....  
(HANON NAZIR BIN MOHD BASIR)  
Senior Testing Executive



  
.....  
(RAJA NOR SIHA BINTI RAJA ABDUL HANAN)  
Head  
Civil & Construction Section  
Testing Services Department

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**TEST RESULTS:**

Product : Walplast 200 / TPS Orange  
 Mix ratio : 2 g Walplast 200 / TPS Orange + 1 kg Portland-Composite Cement + 4 kg Fine Sand + 1.25 litre of water  
 Method of test : BS EN 1015-11: 1999,  
 Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar

NO.	TYPE OF TEST METHOD	TEST RESULTS
1.	Determination of Flexural & Compressive Strength (28 days)	<u>Flexural Strength</u> 1) 0.8 N/mm <sup>2</sup> 2) 0.6 N/mm <sup>2</sup> 3) 0.6 N/mm <sup>2</sup> Mean: 0.7 N/mm <sup>2</sup>  <u>Compressive Strength</u> 1) 2.0 N/mm <sup>2</sup> 2) 2.3 N/mm <sup>2</sup> 3) 2.1 N/mm <sup>2</sup> 4) 2.1 N/mm <sup>2</sup> 5) 2.2 N/mm <sup>2</sup> 6) 2.2 N/mm <sup>2</sup> Mean: 2.1 N/mm <sup>2</sup>

(The remainder of this page is intentionally left blank)



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  - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
  - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
  - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
  - a) Misprints and typo errors
  - b) Missing technical information
  - c) Test data not reported
  - d) Mistake in reporting of test data



The Singapore Environment Council hereby grant

**Vivo Raiser Sdn Bhd**

No 9 & 10, Jalan PKNK 3/7, Kawasan Perusahaan Sungai Petani  
08000, Kedah, Malaysia

the right to use the Singapore Green Label for

**PLASTICISER ADDITIVE SERIES**

022-145-3313

**Environmentally Preferred Cement / Concrete Product**

(In accordance to SEC Green Label Category 22: Cement and Concrete Products)

Validity: 21 August 2025 to 8 November 2026

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Cheang Kok Chung  
Executive Director



Singapore  
Environment  
Council





**VIVO RAISER SDN. BHD.** (920807-P)  
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Phone: 04-4102148      Email: [sales@shijiru.com](mailto:sales@shijiru.com)



# **METHOD STATEMENT FOR TPS ORANGE**

## **1. INTRODUCTION**

TPS Orange is a competitively priced water based cellulose polymer plasticiser for application on plastering. Due of its excellent water retention and air-entraining properties, remarkable improvement can be seen in workability and consistency during application.

## **2. SUBSTRATE EXAMINATION**

Before carrying out plastering works, ensure that: -

- a. All surfaces must be clean, free from dust, oil or traces of foreign materials that can affects adhesion. Protrusions such as wood peels and nails must be removed prior to plastering.

## **3. SUBSTRATE PREPARATION**

- a. On area of concrete surfaces, spatter dash coat is required for improving adhesion between the undercoat and substrate.



#### **4. APPLICATION**

- a) Mix 1 packet of TPS Orange (approximately 100g) with 200-250kg of graded sand (depending on nature of sand) and 50kg of cement (Ordinary Portland Cement or Portland Composite Cement) and mix thoroughly in a drum mixer with approximately 50-70 litres of clean tap water until a homogeneous paste is achieved. A mixing time of minimum 3 minutes and maximum time of 10 minutes is recommended for best consistency. Due to variation of sand, trial mix is strongly recommended to determine optimum mix.
- b) TPS Orange mortar is applied using a steel trowel. As a good practice, a maximum thickness of approximately 12mm per application is recommended. For plaster application more than 12mm, it is recommended to have multiple applications.
- c) The undercoat should act as textured key for the subsequent coat to improve adhesion and reduce shrinkage crack. For optimum plasticity adhesion and shrinkage crack control, plastering of more than 1 inch is not recommended.
- d) Once the second coat is touch dry, finishing coat are advised to applied using TPS Minyak 338 with a steel spatula to a thickness of 1-2mm. Pre-wet surface for overnight plaster finishing.

#### **5. REMARK**

- For best result, mix 2 packet of TPS Orange (approximately 100g) with clean water and stir evenly until a creamy consistency is achieved before adding into cement sand mixture.
- For optimum compressive strength, TPS Orange is recommended to be mixed with Ordinary Portland Cement or Portland Composite Cement (Complied with Malaysian Standard MS 522 : Part 1: 1989 Specifications for Ordinary Portland Cement ).
- A detailed compressive test can be provided upon request.
- TPS Orange is suitable for interior and exterior usage; however, it should not be applied on painted surfaces.
- Clean river sand is recommended for optimum plasticity.
- Additional illustration for application can be obtained from our website and flyer.



**VIVO RAISER SDN. BHD.** (920807-P)

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Phone: 04-4102148

Email: [sales@shijiru.com](mailto:sales@shijiru.com)



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**Last Update: 21/04/2025**



**VIVO RAISER SDN. BHD.** (920807-P)  
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 08000 SUNGAI PETANI, KEDAH, MALAYSIA  
 Phone: 04-4102148 Email: [sales@shijiru.com](mailto:sales@shijiru.com)



## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY INFORMATION

General Product Name : **TPS Orange**  
 Product Description : **Water based cellulose polymer plasticiser for plastering**

**Vivo Raiser Sdn Bhd**

9 & 10, Jln PKNK, Kawasan Perusahaan Sungai Petani  
 08000 Sungai Petani, Kedah, Malaysia  
 Contact Numbers: +60124093200, +60124947600  
 Website: [www.shijiru.com](http://www.shijiru.com)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	Description
Cement Mortar Additives	9084-06-4	A preparation of cellulose polymer based on a significant portion of plasticiser, graded powders and other chemicals. Detail information on content is confidential.

### 3. HAZARDS IDENTIFICATION

Product does not contain any substances classified as hazardous under current regulations.

### 4. FIRST AID MEASURES

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area and get medical aid.

**EYES:** Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. Occasionally lifting the upper and lower eyelids with fingers and roll eyes in circular motion. Get medical aid if needed.

**SKIN:** Wash exposed areas of the body with soap and water. Get medical aid if irritation develops or persists

**INHALATION:** Remove from area of exposure and move to fresh air immediately; seek medical attention if symptoms persist.

**INGESTION:** Never give anything by mouth to an unconscious person. Get medical aid. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups or milk or water.

**Note to Physician:** Treat symptomatically and supportively.



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## 5. FIRE FIGHTING MEASURES

**Ignition temperature: 285 C**

### **EXTINGUISHING MEDIA:**

Use water spray, dry chemical or foam. Carbon dioxide may be ineffective on a larger fires due to lack of cooling capacity which may result in re-ignition. Avoid hose streams or any method which will create dust clouds.

### **SPECIAL FIRE FIGHTING PROCEDURES:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

All carbohydrates and dry chemical exhibits a potential dust explosion hazards if dust concentration in air is too high. Good housekeeping procedures are required to reduce this hazard.

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## 6. ACCIDENTAL RELEASE MEASURES

### **Containment Techniques:**

Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Do not sweep or flush spilled product into public sewer, streams or other water system.

### **Clean-up Techniques:**

Wear proper personal protective clothing and equipment. Spillage may case SLIPPERY CONDITIONS (especially when wet)

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## 7. HANDLING AND STORAGE

### **Handling:**

Keep away from heat. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid drinking, tasting, swallowing or ingesting this product. Provide eyewash fountains and safety showers in the work area.

### **Storage:**

No special packaging required. Not classified as dangerous goods under the United Nations Transport Recommendations.

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## 8. EXPOSURE CONTROL /PERSONAL PROTECTION



### **Engineering Controls:**

Facilities storing or utilizing this materials should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Always provide effective general and when necessary local exhaust ventilation to draw spray, aerosol, fume, mist, and vapour away from workers to prevent routine inhalation.

### **RESPIRATORY PROTECTION:**

In case of insufficient ventilation, wear suitable respiratory equipment

### **PERSONAL PROTECTIVE EQUIPMENT EYES:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### **OTHER PROTECTIVE MEASURES:**

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Powder

**Appearance:** Brown

**Odour:** Odourless

**PH @ 1.0% H<sub>2</sub>O:** 6.0 – 8.0

**Vapour Pressure:** Not available.

**Vapour Density,** Not available.

**Boiling Point:** Not available.

**Freezing/ Melting Point:** Not available.

**Decomposition Temperature:** Not available.

**Volatiles, % by weight:** Not available.

**Specific Gravity (H<sub>2</sub>O=1):** Not available.

**Solubility in H<sub>2</sub>O, % by Volume:** Soluble

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

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## **10. STABILITY AND REACTIVITY**

**GENERAL:** This product is stable.

**CONDITIONS TO AVOID:** Incompatible materials, dust generation, excess heat

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:** Strong oxidizing agents HAZARDOUS

**DECOMPOSITION PRODUCTS:** Combustion produces carbon monoxide, carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Has not been reported.



## 11. Toxicological Information

### Potential Health Effects:

CAUTION! Repeated inhalation of dust can cause sensitization to susceptible individuals & may cause eye irritation. Pre-existing skin problem may be aggravated by prolonged or repeated contact.

**INHALATION:** Dust inhalation may cause coughing, mucous production and shortness of breath.

**EYE CONTACT:** Direct contact may cause irritation.

**SKIN CONTACT:** Prolonged or repeated contact is no expected to create acute health effects.

**INGESTION:** No ingestion effect known.

**Chronic health effects:** None known

**Symptoms / Sign of exposure:** Irritation

**Routes of exposure:** Eye contact, Inhalation

**Carcinogenic status:** The components of this mixture are not known to be listed or regulated by IARC, NTP, OSHA, ACGIH.

As with all chemicals for which test data are limited or non-exist, caution must be exercised through the prudent use of protective equipment and handling procedure to minimise exposure.

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## 12. Ecological Information

This product is biodegradable.

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## 13. DISPOSAL CONSIDERATIONS

Incinerate or landfill waste a properly permitted facility in accordance with local regulations. Land disposal should be in closed containers.

**US RQ:** Not applicable

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## 14. TRANSPORT INFORMATION

**Cement Additives is not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID) and no classification is required.**



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Phone: 04-4102148      Email: [sales@shijiru.com](mailto:sales@shijiru.com)



No special precautions are needed apart from those mentioned under heading 8.

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## 15. REGULATORY INFORMATION:

Product name : TPS Orange  
Danger symbol : Not applicable.

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## 16. OTHER INFORMATION:

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. Neither Shijiru Sdn Bhd nor any of its parents' companies assumes any liability what so ever for the accuracy or completeness of the information contained herein.

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9 & 10, Jln Pknk 3/7, Kawasan Perindustrian Sungai Petani, 08000 Sungai Petani, Kedah, Malaysia.

is in accordance with the requirements of the following standard

**ISO 14001:2015**  
(Environmental Management System)

## SCOPE

**Manufacture for Plaster Additive, Skim Coat, Tile-Adhesive and  
Cementitious Waterproofing**

(IAF Code: 12)

Certificate Number : 180325026036

Initial Registration Date : 18-Mar-2025

1<sup>st</sup> Surveillance Date : 18-Feb-2026

Next Due Date : 17-Mar-2026

Certificate Expiry Date : 17-Mar-2028

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Issued by ARS Assessment Private Limited

  
Managing Director



CB-MS-3926



UAF Address : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America

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# Certificate of Registration



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9 & 10, Jln Pknk 3/7, Kawasan Perindustrian Sungai Petani, 08000 Sungai Petani, Kedah, Malaysia.

is in accordance with the requirements of the following standard

**ISO 45001:2018**

(Occupational Health and Safety Management System)

## SCOPE

Manufacture for Plaster Additive, Skim Coat, Tile-Adhesive and  
Cementitious Waterproofing

(IAF Code: 12)

Certificate Number : 270225036005

Initial Registration Date : 27-Feb-2025

<sup>st</sup> Surveillance Date : 27-Jan-2026

Next Due Date : 26-Feb-2026

Certificate Expiry Date : 26-Feb-2028

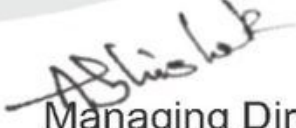
**To verify certificate, visit at :**

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CB-MS-3919



UAF Address : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America

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# Certificate of Registration



This is to certify that the Quality Management System of

**VIVO RAISER SDN. BHD.**

**SHIJIRU SDN. BHD.**

HQ: No. 9 & 10, Jalan PKNK 3/7, Kawasan Perusahaan Sungai Petani, 08000 Sungai Petani, Kedah Darul Aman, Malaysia.

Branch: No 27 & 29, Laluan Industri Lahat 1, Kawasan Perindustrian Lahat, 31450 Ipoh, Perak, Malaysia.

is in accordance with the requirements of the following standard

## ISO 9001:2015

(Quality Management System)

### SCOPE

Supply of Materials and Labour for Plastering, Skim Coating and Plasterboard Ceiling and Manufacture for Plaster Additive, Skim Coat, Render, Tile-Adhesive and Cementitious Waterproofing Chemical

(IAF Code: 29,35,12)

Certificate Number : 111125016018

Initial Registration Date : 11-Nov-2025

1<sup>st</sup> Surveillance Date : 10-Oct-2026

Next Due Date : 10-Nov-2026

Certificate Expiry Date : 10-Nov-2028

**To verify certificate, visit at :**

[www.arscert.com](http://www.arscert.com)

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