

TPS GREEN PRO SERIES

CEMENT ADDITIVE FOR BRICKLAYING & PLASTERING

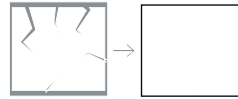


TECHNICAL DATA

Packing	10Kg per carton (100g x 100 Packets)
Colour	Grey
Mixing Ratio	1.5 Bags Cement + 60 Scoops Sand (360Kg) + 1 TPS Green (Trial mix should be conducted to determine optimum mix)
Grade	  
Item Code	A05
Shelf Life	12 Month



Excellent Workability



Reduce Shrinkage Crack



Increases Productivity



Ready For Mortar Pump

APPLICATION



MANUAL PLASTER



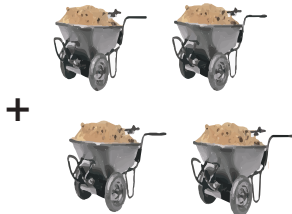
SPRAY PLASTER



BRICKLAYING



2 Bags Cement



40 Scoops Sand



1.5 Bags Cement



1 Packet TPS Green



60 Scoops Sand

VALUED CUSTOMER



TECHNICAL DATA



HOW TO USE





TECHNICAL DATA SHEET

TPS GREEN

PRODUCT DESCRIPTION

TPS Green is a top 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 Green 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	:	1.5 Bags Cement + 60 Scoops Sand
Mixing ratio	:	(360kg) + 1 TPS Green
Coverage	:	Min. 80 square feet for 1 inch plastering thickness
(According to mixing ratio above)	:	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



ENG SUB



ENG SUB



ISO 9001:2015





SIRIM QAS International Sdn. Bhd. (410334-X)
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 : 2019CB1131

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 : TPS Green

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 TPS Green + Portland-Composite Cement + Fine Sand) was received for testing.
Brand: TPS
Product description: Mortar Additives for Bricklaying, Rendering & Plastering.

Date Received of Complete Application : 26 March 2019

Job No. : J20191430585

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 : 13 June 2019

Approved Signatories;

(HANON NAZIR BIN MOHD BAKAR)
Senior Testing Executive



(RAJAH MORSIHA BINTI RAJA ABDUL HANAN)
Head
Civil & Construction Section
Testing Services Department

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TEST RESULTS:

Product : TPS Green
 Mix ratio : 2 g TPS Green + 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)	<p><u>Flexural Strength</u> 1) 1.7 N/mm² 2) 1.5 N/mm² 3) 1.6 N/mm² Mean: 1.6 N/mm²</p> <p><u>Compressive Strength</u> 1) 5.5 N/mm² 2) 5.6 N/mm² 3) 5.4 N/mm² 4) 5.4 N/mm² 5) 5.6 N/mm² 6) 5.6 N/mm² Mean: 5.5 N/mm²</p>

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3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Managing Director of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
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6. If such approval is obtained from the Managing Director of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International ... (Test Report No) ... (dated) (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Managing Director of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
 - a) Informing and placing a notice in the media;
 - 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

Cheang Kok Chung
Executive Director



**Singapore
Environment
Council**





VIVO RAISER SDN. BHD. (920807-P)

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PLASTERING METHOD STATEMENT FOR TPS XTRA GREEN

1. INTRODUCTION

TPS XTRA Green is an excellent 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 have to be removed prior to plastering.

3. SUBSTRATE PREPARATION

- a. On area of concrete surfaces, spatter dash coat using (TPS Bonding Agent with cement) is required for improving adhesion between the undercoat and substrate.



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4. APPLICATION

- a) Mix 1 packet of TPS XTRA Green (approximately 100g) into approximately 50-60 litres of clean tap water, followed by 75kg of cement (Ordinary Portland Cement or Portland Composite Cement) and 400-450kg of graded fine sand (depending on nature of sand).
- b) Ensure mixture is mixed thoroughly in a drum mixer until a homogeneous paste is achieved. Add extra water if necessary. 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.
- c) TPS XTRA Green 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.
- d) 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 25mm (1 inch) is not recommended.
- e) 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. Always pre-wet surface for overnight plaster finishing.

5. REMARK

- For best result, mix 1 packet of TPS XTRA Green (approximately 100g) with clean water and stir evenly until a creamy consistency is achieved before adding into cement and sand mixture.
- For optimum compressive strength, TPS XTRA Green 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 with different cement sand ratio can be provided upon request.
- TPS XTRA Green 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.



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Last Update: 21/04/2025



VIVO RAISER SDN. BHD.

RegNo: 201001036884 | TIN: C21294886050 | MSIC Code: 23959 | SST No: A10-2508-22200004
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08000 SUNGAI PETANI, KEDAH, MALAYSIA
☎ 04-4102148 ✉ sales@shijiru.com



VR2022-004

SAFETY DATA SHEET

1. PRODUCT & COMPANY INFORMATION

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

Shijiru Sdn Bhd

9 & 10, Jln PKNK, Kawasan Perusahaan Sungai Petani
08000 Sungai Petani, Kedah, Malaysia
Contact Numbers: +60124093200, +60124947600
Website: 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

United States (US)

According to OSHA 29CFR 1910.1200 (HCS)

GHS Classification of the substance or mixture

Not classified

GHS Label Elements

Pictogram None
Signal Word None
Hazard Statements None

Precautionary Statements

Prevention

Use engineering controls and wet methods to minimize dust.



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VR2022-004

Response

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if exposed or concerned.

Storage

Keep dry to preserve usefulness.

Disposal

Dispose of material in accordance with federal, state, and local 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemical, foam, water, or extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosion Hazards

Material poses no fire-related hazard.

Special hazards arising from the mixture

None known

Special Protective Equipment and Precautions for Firefighters

A SCBA is recommended to limit exposures to combustion products when fighting any fire.

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ISSUE DATE: 1.12.2022



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No special precautions required. General recommendations: Wear appropriate Personal Protective Equipment. (See Section 8)

Environmental precautions

This product does not present an ecological hazard to the environment. Dispose of in accordance with applicable federal, state, and local regulations.

Methods and materials for containment and cleaning up

No specific clean-up procedures necessary. Pick up unused product to prevent tripping hazard

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.

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.



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OTHER PROTECTIVE MEASURES:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder
Appearance: Brown
Odour: Odourless
PH @ 1.0% H₂O: 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 (H₂O=1): Not available.
Solubility in H₂O, % by Volume: Soluble
Evaporation Rate: Not available.
Viscosity: Not available.

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.



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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.

12. Ecological Information

This product is biodegradable.

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

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.

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

15. REGULATORY INFORMATION:

Product name : TPS XTRA Green

Danger symbol : Not applicable.



VIVO RAISER SDN. BHD.

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✉ sales@shijiru.com



VR2022-004

16. OTHER INFORMATION:

SDS Prepared by: Vivo Raiser Sdn Bhd

Phone Number: +6044102148

Date of Preparation: 1 January 2017

Revision indicators and Date

Effective Date Change: 9 May 2018 Supersedes: 5 May 2018

Format Changes: Conforms to OSHA 29CFR 1910.1200 (HCS)

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CERTIFICATE



This is to certify that

Shijiru Sdn. Bhd.
Vivo Raiser Sdn. Bhd.

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

Quality Management System has been assessed and registered as conforming with the requirements of the ISO 9001:2015.

Scope:

Shijiru Sdn. Bhd.

Supply and Labour for Plastering, Skim Coating and Plasterboard Ceiling

Vivo Raiser Sdn. Bhd.

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

Certificate Registration No. 000721-1-MY-1-QMS

Certified Since 12.04.2018

Valid from 17.06.2019

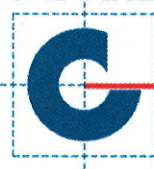
Valid until 11.04.2021

Managing Director



ISO 9001

JAS-ANZ



Business Systems Certification Pty, Ltd. (BCert) P.O. Box 75, St Marys NSW 1790, Australia

Certification is subject to satisfactory ongoing Surveillance Assessments.

The validity of this certificate can be verified at www.jas-anz.org/register

Issue No.1 Date. 17.06.2019

Certificate of Registration



This is to certify that the Environmental Management System of

VIVO RAISER SDN. BHD.

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

1st Surveillance Date : 18-Feb-2026

Next Due Date : 17-Mar-2026

Certificate Expiry Date : 17-Mar-2028

To verify certificate, visit at :

www.arscert.com

www.uafaccreditation.org

www.iafcertsearch.org

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

This certificate remains the property of ARS and must be returned to ARS on Cancellation or Suspension of the certificate. Validity of the certificate is subject to successful completion of surveillance audits. Further clarification regarding the scope of this certificate and the applicability of standard may be obtained by consulting the Organisation on info@arscert.com

Certificate of Registration



This is to certify that the Occupational Health and Safety Management System of

VIVO RAISER SDN. BHD.

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

st 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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Abhishek
Managing Director



CB-MS-3919



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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

1st Surveillance Date : 10-Oct-2026

Next Due Date : 10-Nov-2026

Certificate Expiry Date : 10-Nov-2028

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Abhishek
Managing Director



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