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|--|--------------------------------|----|---|
|  <b>ADVANCE<br/>PRECISION</b> | <b>CALIBRATION CERTIFICATE</b> |    |   |
| CERTIFICATE NO. 1982   | REVISION NO.                   | 00 | Page 1 of 3   |

|                  |                                |
|------------------|--------------------------------|
| <b>CUSTOMER:</b> | Al-Fanar                       |
| <b>ADDRESS:</b>  | Tabuk, Kingdom of Saudi Arabia |

This certificate has been issued after the completion of all tests & calibrations of the equipment listed below. The standards used for testing and / or calibration are traceable to national and international standards having accuracies derived from the accepted values of natural physical constant or by ratio-type of self-calibration techniques. The test results of the equipment are followed on the continuation sheet(s) of this certificate




Validity of this certificate is considered null and void without the signature of the respected authorized personnel(s)

This calibration certificate applies only to the following items mentioned below

| ITEM UNDER CALIBRATION (IUC) DETAILS |                     |
|--------------------------------------|---------------------|
| UUC DESCRIPTION                      | Total Station       |
| MANUFACTURER                         | Leica Geosystems AG |
| MODEL NO.                            | TS06 Plus           |
| SERIAL NO.                           | 1381555             |
| TAG NO.                              | -                   |
| Capacity / Range                     | Various             |
| Resolution                           | Various             |
| DATE OF RECEIPT                      | 30 October 2024     |
| CALIBRATION DATE                     | 03 November 2024    |
| SUGGESTED DUE DATE                   | 02 May 2025         |
| CALIBRATION LOCATION                 | Offsite             |

| STANDARD EQUIPMENT USED |             |                      |
|-------------------------|-------------|----------------------|
| EQUIPMENT               | CONTROL NO. | CALIBRATION DUE DATE |
| Measuring Tape          | AP-ASSET-35 | 01 July 2025         |
| Distance Meter          | AP-ASSET-37 | 01 July 2025         |
| Digital Spirit Level    | AP-ASSET-36 | 01 July 2025         |
| Digital Protractor      | AP-ASSET-38 | 01 July 2025         |



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#### TRACEABILITY OF STANDARD EQUIPMENT USED:

The above measurements have been made using Advance Precision Measurement standards which are traceable through unbroken chain of calibration traceable to the international standards in line with the requirements of ISO/IEC 17025:2017

#### REFERENCE STANDARDS:

1. Calibration Procedure AP-SOP-12

#### CALIBRATION RESULTS




| Function Test  | Old Adjustment                                 | New Adjustment                                       | Remarks |
|--|--|--|---------|
| Horizontal Collimation   | +0° 00' 02"                                    | +0° 00' 01"  | Passed  |
| Vertical Index   | -0° 00' 03"                                    | -0° 00' 02"  | Passed  |
| Tilt Axis  | +0° 00' 00"                                    | +0° 00' 02"  | Passed  |
| Compensator Index @L   | +0° 00' 02"                                    | +0° 00' 02"  | Passed  |
| Compensator Index @T   | +0° 00' 02"                                    | +0° 00' 01"  | Passed  |
| <i>*Horizontal Distance From total station to prism @ 99.9m @ (0mm) prism Constant</i> |  |  |         |
| <b>Function Test</b>   | Compensator                                    | Quadruple axis is visible & Fully Operational        |         |
|  | EDM  | Fully Operational                                    |         |
|  | Plate level, Circular & Elec.Level sensitivity | Levels are synchronized @ Center & Fully Operational |         |
|  | Magnification @ 30x                            | Telescopic & Focusing @ 30x & Fully Operational      |         |

#### MEASUREMENT UNCERTAINTY:

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor K=2 at a level of confidence of approximately 95%



#### ENVIRONMENTAL CONDITION DURING CALIBRATION:

|             |         |
|-------------|---------|
| HUMIDITY    | 21% RH  |
| TEMPERATURE | 25.5 °C |

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**CALIBRATION METHOD:**

Item under calibration (IUC) was calibrated by measuring and comparing its indication with APM Master Equipment. All Calibrations performed conform to ISO 17025:2017 and Customer Requirements.

|                   |   |                |  |
|-------------------|---|----------------|--|
| CALIBRATED<br>BY: | <br>Waqas Azam | AUTHORIZED BY: | <br>Abdul Wahid |
|-------------------|---|----------------|--|

Advance Precision Measurement Est.

P.O. Box 4535, 3893 Dhahran Jubail Highway, An Nabiyah 8552, Kingdom of Saudi Arabia

T: +966-50-762-1159 | Email: [info@ap-ksa.com](mailto:info@ap-ksa.com) | Website: [www.ap-ksa.com](http://www.ap-ksa.com)

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