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TEST REPORT

REPORT NO : 2022CE1204	PAGE : 1 OF 6
This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer to the last page of this Test Report for Conditions Relating to the Use of Test Report.	

THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : LEC HOME SOLUTION SDN. BHD.
NO. 5, JALAN PP 2/5, TAMAN PUTRA PRIMA,
47130 PUCHONG, SELANGOR, MALAYSIA.

Manufacturer : LEC HOME SOLUTION SDN. BHD.
NO. 5, JALAN PP 2/5, TAMAN PUTRA PRIMA,
47130 PUCHONG, SELANGOR, MALAYSIA.

Product : LEC DRINKING WATER IK SERIES

Reference Standard / Method of Test : 1) Malaysia Food Act 1983 (Act 281) and Regulations
2) Standard Method for the Examination of Water and Wastewater 2005, 21st Edition Jointly Published by APHA, AWWA and WEF.

Description of sample : Received one (1) sample for testing. The sample was identified as :
Product: LEC DRINKING WATER IK SERIES
Brands: LEC
Model: IK
Product description: LEC DRINKING WATER IK SERIES

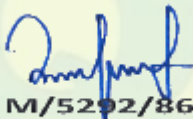
Date Received of Complete Application : 21 April 2022

Job No. : J20223670878


Description of Test Results : The test results of the submitted test sample are described in Page 2 to Page 5 of this test report.

Issued Date : 23 May 2022

Approved Signatory;


IKM M/5292/8660/20
(MUHAMMAD ZUHAIRI BIN BORHAN)
Testing Executive




(HAHNAS BINTI MAHBUT)
Head
Chemical, Polymer and Composite Section
Testing Services Department

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TEST RESULTS

Product : LEC DRINKING WATER IK SERIES

Brands : LEC

Model : IK

Product description : LEC DRINKING WATER IK SERIES

1. Physical Standard

No.	Type of Test	Method Used	Requirement under Malaysian Food Act 1983 for Drinking Water ^(a)	Test Result	Remarks
1.	pH at 25°C	pH meter	6.5 – 8.5	7.64	Pass
2.	Residual Chlorine (as free Cl ₂), mg/L	APHA 4500 – Cl G	Not less than 0.2	Less than 0.01 ^(b)	Pass

2. Chemical Standard

No.	Type of Tests	Method Used	Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ^(a)	Test Results	Remarks
1.	Colour (True colour unit)	APHA 2120 B	15	Less than 5 ^(b)	Pass
2.	Turbidity (NTU)	APHA 2130 B	2	0.07	Pass
3.	Total dissolved solids (TDS), mg/L	APHA 2540 C	-	71.3	Pass
4.	Hardness (EDTA) (as CaCO ₃), mg/L	APHA 2340 C	500	86.36	Pass
5.	Ammonia (as N), mg/L	APHA 4500 – NH ₃ C	0.5	0.10	Pass
6.	Fluoride (as F ⁻), mg/L	APHA 4110 – B	0.6	0.134	Pass



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TEST RESULTS

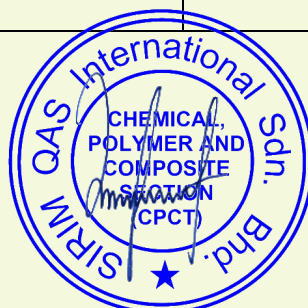
Product : LEC DRINKING WATER IK SERIES

Brands : LEC

Model : IK

Product description : LEC DRINKING WATER IK SERIES

No.	Type of Tests	Method Used	Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ^(a)	Test Results	Remarks
7.	Chloride (as Cl ⁻), mg/L	APHA 4110 B	250	0.349	Pass
8.	Nitrite (as NO ₂ ⁻), mg/L	APHA 4110 B	0.2	Less than 0.01 ^(b)	Pass
9.	Nitrate (as NO ₃ ⁻), mg/L	APHA 4110 B	50	Less than 0.01 ^(b)	Pass
10.	Phosphate (as PO ₄ ³⁻), mg/L	APHA 4110 B	-	Less than 0.01 ^(b)	Pass
11.	Sulphate (as SO ₄ ²⁻), mg/L	APHA 4110 B	250	12.167	Pass
12.	Calcium (as Ca), mg/L	APHA 3120 B	-	29.973	Pass
13.	Magnesium (as Mg), mg/L	APHA 3120 B	150	2.461	Pass
14.	Potassium (as K), mg/L	APHA 3120 B	-	2.203	Pass
15.	Sodium (as Na), mg/L	APHA 3120 B	200	6.393	Pass
16.	Aluminium (as Al), mg/L	APHA 3125 B	0.2	0.0262	Pass
17.	Arsenic (as As), mg/L	APHA 3125 B	0.01	0.0016	Pass
18.	Barium (as Ba), mg/L	APHA 3125 B	0.7	0.0070	Pass
19.	Cadmium (as Cd), mg/L	APHA 3125 B	0.003	Less than 0.0001 ^(b)	Pass



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TEST RESULTS

Product : LEC DRINKING WATER IK SERIES

Brands : LEC

Model : IK

Product description : LEC DRINKING WATER IK SERIES

No.	Type of Tests	Method Used	Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ^(a)	Test Results	Remarks
20.	Chromium (as Cr), mg/L	APHA 3125 B	0.05	Less than 0.0001 ^(b)	Pass
21.	Copper (as Cu), mg/L	APHA 3125 B	1.0	0.0007	Pass
22.	Iron (as Fe), mg/L	APHA 3125 B	0.3	0.0068	Pass
23.	Lead (as Pb), mg/L	APHA 3125 B	0.01	0.0007	Pass
24.	Manganese (as Mn), mg/L	APHA 3125 B	0.1	0.0009	Pass
25.	Mercury (as Hg), mg/L	APHA 3125 B	0.001	Less than 0.0001 ^(b)	Pass
26.	Selenium (as Se), mg/L	APHA 3125 B	0.01	Less than 0.0001 ^(b)	Pass
27.	Silver (as Ag), mg/L	APHA 3125 B	0.03	0.0006	Pass
28.	Zinc (as Zn), mg/L	APHA 3125 B	3	0.0057	Pass
29.	Boron (as B), mg/L	APHA 3125 B	0.5	0.0153	Pass
30.	Nickel (as Ni), mg/L	APHA 3125 B	0.02	0.0007	Pass
31.	Antimony (as Sb), mg/L	APHA 3125 B	0.005	0.0001	Pass



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TEST RESULTS

Product : LEC DRINKING WATER IK SERIES
Brands : LEC
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Product description : LEC DRINKING WATER IK SERIES

3. Bacteriological standard

No.	Type of Tests	Method Used	Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ^(a)	Test Results	Remarks
1.	Total coliform count per 100 ml (MPN) ^(c)	Multiple Tube Method	10	Less than 1.1	Pass
2.	<i>Escherichia coli</i> count per 100 ml (MPN)	Multiple Tube Method	Nil	Nil	Pass

- Note :
- (1) : (a) Standard for Water, 25th A Schedule [Sub regulations 394(1)]
(b) Limit of reporting
(c) MPN : Most Probable Number
 - (2) : Testing period: 27 April – 20 May 2022
 - (3) : Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%
 - (4) : - no limit given



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CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule with Guard Band is used.
2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
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 Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory,etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.
6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory,etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall 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/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.
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. 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.
9. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
10. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
 - a) Changes in details of the Applicant name and/or address;
 - b) Changes in details of the Manufacturer's name and/or address;
 - c) Changes in details of the Factory location name and/or address;
 - d) Changes in details of the model and/or type designation
11. However, issuance of Supplementary Report due to the following reasons are FOC :
 - a) Mispprints and typo errors;
 - b) Missing technical information as agreed in PP1 form;
 - c) Test data not reported;
 - d) Mistake in reporting of test data
12. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.