## **Environmental Impact Assessment**

Document Stage: Updated Project Number: 51077-003

July 2020

MLD: Greater Malé Waste-to-Energy ProjectWaste to Energy Plant PART F

Prepared by Ministry of Environment of the Republic of Maldives for the Asian Development Bank.

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### Male' Water & Sewerage Company Pvt Ltd

Water Quality Assurance Laboratory
FEN Building 5th Floor, Machangoalhi, Ameenee Magu, Male', Maldives
Tel. +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv





#### WATER QUALITY TEST REPORT Report No: 500181970

Customer Information: Water Solutions Pvt Ltd

lonuziyaaraiy magu Male' 20063 Report date: 09/04/2019
Test Requisition Form No: 900187119
Sample(s) Recieved Date: 03/04/2019
Date of Analysis: 03/04/2019 - 04/04/2019

	77.71.7.11.0144	Thilafushi GW2	Thilafushi GW3			
Sample Description	Thilafushi GW1	Inilatushi Gvvz	I I I I I I I I I I I I I I I I I I I			
Sample Type	Ground Water	Ground Water	Ground Water			
Sample No	83203941	83203942	83203943			
Sampled Date	02/04/2019	02/04/2019	02/04/2019	TEST METHOD	UNIT	
PARAMETER	METER ANALYSIS RESULT					
Physical Appearance	Clear	Pale brown with particles	Pale yellow with particles			
Chloride	183	1715	7200	In-house Test method (Adapted from M926 Chloride analyzer Operation Manual)	mg/L	
Nitrate *	1.7	6.1	5.0	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	
Phosphate *	0.07	0.23	0.21	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L	
Total Coliforms	>2420	291	>2420	Colilert®-18/Quanti-Tray®2000	MPN/100s	

Keys: mg/L: Milligram Per Liter, MPN/100ml: Most Probable Number

Checked by

Oy.

Aminath Sofa Laboratory Executive Approved by

Mohamed Eyman Assistant Manager, Quality

**Notes: Sampling Authority:** Sampling was not done by MWSC Laboratory This report shall not be reproduced except in full, without written approval of MWSC This test report is ONLY FOR THE SAMPLES TESTED.

- Information provided by the customer

\*Parametres accredited by DAC under ISO / IEC 17025:2005

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## WATER QUALITY TEST REPORT Report No: 500181970

**Customer Information:** Water Solutions Pvt Ltd

lonuziyaaraiy magu Male' 20063

Report date: 09/04/2019 Test Requisition Form No: 900187119 Sample(s) Recieved Date: 03/04/2019 Date of Analysis: 03/04/2019 - 04/04/2019

Sample Description	Thilafushi GW4	Thilafushi GW5	Thilafushi GW6		
Sample Type	Ground Water	Ground Water	Ground Water		
Sample No	83203944	83203945	B3203946		
Sampled Date	02/04/2019	02/04/2019	02/04/2019	TEST METHOD	UNIT
PARAMETER	ANALYSIS RESULT		•		
Physical Appearance	Pale yellow with particles	Olive green with particles	Olive green with particles		
Chloride	470	3125	6325	In-house Test method (Adapted from M925 Chloride analyzer Operation Manual)	mg/L
Nitrate *	7,5	25,5	34,5	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Phosphate *	<0.05 (LoQ 0.05 mg/L )	0.46	0.57	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Coliforms	1986	>2420	10	Colilert®-18/Quanti-Tray®2000	MPN/100ml

Keys: mg/L: Milligram Per Liter, MPN/100ml: Most Probable Number

Checked by

Aminath Sofa Laboratory Executive

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Approved by

Mohamed Eyman Assistant Manager, Quality

# Male' Water & Sewerage Company Pvt Ltd Water Quality Assurance Laboratory FEN 3wilding 5th Floor, Machangoalhi, Ameenee Magu, Male', Maldives Tel: +9603323209, Fax: +9603324306, Email: wqa@mwsc.com.mv





#### WATER QUALITY TEST REPORT Report No: 500181970

**Customer Information:** Water Solutions Pvt Ltd

Jonuziyaaraiy magu Male' 20063

Report date: 09/04/2019 Test Requisition Form No: 900187119 Sample(s) Recieved Date: 03/04/2019

Date of Analysis: 03/04/2019 - 04/04/2019

Sample Description	Thilafushi GW7	Thilafushi GW8		
Sample Type	Ground Water	Ground Water		
Sample No	83203947	83203948		
Sampled Date	02/04/2019	02/04/2019	TEŞT METHOD	UNIT
PARAMETER	ANALYSI	S RESULT		
Physical Appearance	Yellow with particles	Cloudy and opaque		
Chloride	6125	1005	In-house Test method (Adapted from M926 Chloride analyzer Operation Manual)	mg/L
Nitrate *	12,2	3.4	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Phosphate *	2.27	0.72	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Coliforms	>2420	4	Collert®-18/Quanti-Tray®2000	MPN/100m

Keys: mg/L: Milligram Per Liter, MPN/100ml: Most Probable Number

Checked by

Aminath Sofa Laboratory Executive Approved by

Mohamed Eyman Assistant Manager, Quality

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Report No:

(7418)144-0214A(SL)

Jul 14, 2018

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Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW1

Date & time Sampled: 03/07/2018 at 07.30 a.m

Date of Sample Received:

Jul 06, 2018

**Date of Testing Started:** 

Jul 06, 2018

**Date of Testing Completed:** 

Jul 13, 2018

**Date of Report Issued:** 

Jul 14, 2018

### Photo of the Samples submitted



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### **CPS CONDITIONS OF SERVICE**

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- 1. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights; (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the sample(s) upon which the Report is based; and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability or the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.
- 2. Report. (a) The Report shall (i) constitute the sole deliverable for the Services, (ii) relate solely to the facts and circumstances as observed and recorded by Company at the time of performance of the Services within the limits of written information and instructions received from Client; Company shall have no obligation to update the Report after its issuance. Where the Services include testing or inspection: (i) the Report will set forth the findings of Company solely with respect to the product samples identified therein and (ii) the results set forth in the Report are not to be construed as indicative or representative of the quality or characteristics of the lot from which a product sample was taken for Company's performance of Services. (b) The Report is issued solely by Company, is intended for the exclusive use of Client and its affiliates and, except as required by a regulatory body, shall not be published, used for advertising purposes, copied or replicated for distribution or publicly disclosed without Company's prior written consent. Company is not responsible for any third party's interpretation of the Report. (c) Client shall not request a Report for purposes of litigation, nor shall it list Company, its affiliates or employees as an expert in any proceeding without Company's prior written consent. If Client anticipates producing or otherwise using the Report in any legal proceedings, it shall so notify Company prior to submitting the Report in such proceeding.
- 3. Representations and Warranties. (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment. Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.
- 5. Intellectual Property. The names, service marks, trademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the sole property of Company and shall not be used by Client. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of Company or its affiliates. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.
- 6. Relationship. (a) Nothing herein creates a partnership, agency or joint venture between the Parties. (b) The failure to require strict observance or performance of any provision of these Conditions shall not be construed to be a waiver of a Party's right to later require strict observance and performance of the same. If any provision of these Conditions is held to be invalid or unenforceable, such invalidity shall not invalidate the remainder of the Conditions. (c) For a period of two years after the commencement of this Agreement, Client shall not directly or indirectly try to solicit for employment any of Company's employees.
- 7. INDEMNITY. CLIENT SHALL HOLD HARMLESS AND INDEMNIFY COMPANY, ITS AFFILIATES, AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS, DAMAGE, INJURY, DEATH, OR EXPENSE OF WHATEVER NATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ARISING FROM OR RELATING TO (I) THE PERFORMANCE OF ANY SERVICES BY COMPANY, (II) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY OF CLIENT'S GOODS OR (III) BREACH OF CLIENT'S OBLIGATIONS OR WARRANTIES HEREIN.
- 8. LIMITATIONS OF LIABILITY. (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT, THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY, REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.
- 9. Force Majeure. If any event of force majeure or any event outside the control of Company occurs, Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 10. Governing Law. These Conditions shall be governed by the laws of the country as follows: for Services performed in (i) the Americas: the laws of New York, (ii) Asia Pacific, South Asia, Middle East and Africa: the laws of Hong Kong (except for China where PRC laws govern), and (iii) Europe: the laws of England.
- 11. Dispute Resolution. (a) If Client desires to assert a claim relating to the Services, it must submit the same to Company in writing setting forth with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of issuance of the Report. Client waives any and all claims without limitation that it does not submit within such time periods. (b) If a dispute arises under this Agreement, the Parties shall first attempt good faith negotiations, failing which, the Parties (i) agree that the courts of the country of governing law shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) irrevocably waive their right to trial by jury in any such action or proceeding.
- 12. These Conditions, the applicable order form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Client's terms and conditions attached to, enclosed with or referred to in any order form, purchase order or other document shall not apply.



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### **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2		°C	APHA 20th Edition – 2550B
2	Turbidity	0.3	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.3		mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	0.05	-	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36		ppt	APHA 2520
	Heavy Metals		•		
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)

NOTE:

mg/l: milligrams per liter, ppt: parts per thousand, APHA: American Public Health Association ND: Not Detected, LOQ: Limit of Quantification, NTU: Nephelometric Turbidity Units, °C: Celcius,

ICP-MS: Inductively Coupled Plasma - Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		***
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:	· ·	
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

INDRAJETH HATHURUSINGHA

MANAGER-

FOOD LABORATORY



Report No:

(7418)144-0214A(SL)

Jul 14, 2018

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#### CPS CONDITIONS OF SERVICE

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- 4. Payment, Payment in full shall be due 30 days after the date of invoice, felling which Company may revoke any credit extended to Client Shall rearburse Company for (i) litterest on overdue amounts from the due date until part at an interest rate of 1.5% per month and (ii) any other court Company incurs in collecting past due amounts, including court, alterneys and collection agencies fees.
- 5 Intellectual Property. The names, service marks, trademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the side property of Company and shall not be used by Cfient. Client shall not contest the validity of the Marks or rate any action that might impair the value or goodwill associated with the Marks or the image or reputation of Company or dis affiliates. Client understands that any information or samples submitted to Company is a ticense for Company to use the same in the performance of Services.
- 6. Relationship (a) Nothing herein creates a partnership, agency or joint venture between the Parties. (b) The faisure to require strict observance or partnership and provision of these Conditions shall not be conditioned to be a warver of a Party's right to later require strict observance and performance of the same. It any provision of these Conditions is held to be invaled or prentoceable, such industry shall not invalidate the remainder of the Conditions (c) held prentoceable. Such industry shall not invalidate the remainder of the Conditions (c) here period of two years effect the commencement of this Agreement. Client shall not directly or indirectly by to solicit for employment any of Company's employees.
- 7. INDEMNITY CLIENT SHALL HOLD HARMLESS AND INDEMNIFY COMPANY. ITS AFFILIATES, AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS, DAMAGE, INJURY, DEATH, OR EXPENSE OF WHATEVER NATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ARISING FROM OR RELATING TO (I) THE PERFORMANCE OF ANY SERVICES BY COMPANY (II) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY OF CLIENTS GOODS OR (III) BREACH OF CLIENTS OBLIGATIONS OR WARRANTIES HEREIN
- ELIMITATIONS OF LIABILITY. (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT THE PRODUCT FOR WHICH SERVICES WERE PERFORMED. OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY. REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSDEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (S) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAYE RISE TO SUCH CLAIM.
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  (ii) Asia Pacific, South Asia, Middle East and Ainca; the laws of Hong Kong (except for China where PRC tiers govern), and (iii) Europe, the laws of England.
- 11. Dispute Resolution: (a) If Cient desires to essert a claim relating to the Services, it must submit the same to Company in writing setting forth with perticulantly the basis for such claim within 80 days from discovery of the claim and not more than aix months after the date of issuance of the Report. Clean waives any and all claims without inhibition that it does not submit within such time periods, (b) if a dapute artises under this Agreement, the Parties that the courts of the country of governing law shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) arrevocably waive their right to that by jury in any such action or proceeding.
  - 12. These Conditions the applicable cross form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Chant's terms and conditions attached to, enclosed with or referred to an any order form, purchase order or other document shall not apply.

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END OF THE REPORT.







Report No:

(7418)144-0214B(SL)

Jul 14, 2018

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Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male. Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW2

Date & time Sampled: 03/07/2018 at 07.45 a.m

Date of Sample Received:

Jul 06, 2018

**Date of Testing Started:** 

Jul 06, 2018

**Date of Testing Completed:** 

Jul 13, 2018

Date of Report Issued:

Jul 14, 2018

### Photo of the Submitted Sample



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No. 570, Galle Road, Katubedda, Sri Lanka. Tel: (9411) 2350111 Fax: (9411) 2622198 / 9 E-mail: bvcps.lanka@lk.bureauveritas.com

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- 3. Representations and Warranties. (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment. Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.
- 5. Intellectual Property. The names, service marks, trademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the sole property of Company and shall not be used by Client. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of Company or its affiliates. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.
- 6. Relationship. (a) Nothing herein creates a partnership, agency or joint venture between the Parties. (b) The failure to require strict observance or performance of any provision of these Conditions shall not be construed to be a waiver of a Party's right to later require strict observance and performance of the same. If any provision of these Conditions is held to be invalid or unenforceable, such invalidity shall not invalidate the remainder of the Conditions. (c) For a period of two years after the commencement of this Agreement, Client shall not directly or indirectly try to solicit for employment any of Company's employees.
- 7. INDEMNITY. CLIENT SHALL HOLD HARMLESS AND INDEMNIFY COMPANY, ITS AFFILIATES, AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS, DAMAGE, INJURY, DEATH, OR EXPENSE OF WHATEVER NATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ARISING FROM OR RELATING TO (I) THE PERFORMANCE OF ANY SERVICES BY COMPANY, (II) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY OF CLIENT'S GOODS OR (III) BREACH OF CLIENT'S OBLIGATIONS OR WARRANTIES HEREIN.
- 8. LIMITATIONS OF LIABILITY. (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTIO. WITH THE REPORT, THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY, REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.
- 9. Force Majeure. If any event of force majeure or any event outside the control of Company occurs, Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 10. Governing Law. These Conditions shall be governed by the laws of the country as follows: for Services performed in (i) the Americas: the laws of New York, (ii) Asia Pacific, South Asia, Middle East and Africa: the laws of Hong Kong (except for China where PRC laws govern), and (iii) Europe: the laws of England.
- 11. Dispute Resolution. (a) If Client desires to assert a claim relating to the Services, it must submit the same to Company in writing setting forth with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of issuance of the Report. Client waives any and all claims without limitation that it does not submit within such time periods. (b) If a dispute arises under this Agreement, the Parties shall first attempt good faith negotiations, failing which, the Parties (i) agree that the courts of the country of governing law shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) irrevocably waive their right to trial by jury in any such action or proceeding.
- 12. These Conditions, the applicable order form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Client's terms and conditions attached to, enclosed with or referred to in any order form, purchase order or other document shall not apply.

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Report No:

(7418)144-0214B(SL)

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### **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.2	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	8=1	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.4	+	mg/l	APHA 4500 -NO <sub>3</sub> E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	< 0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	37	-	ppt	APHA 2520
	Heavy Metals				
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.003	-	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)

NOTE:

mg/l: milligrams per liter, ppt: parts per thousand, APHA: American Public Health Association ND: Not Detected, LOQ: Limit of Quantification, NTU: Nephelometric Turbidity Units, °C: Celcius,

ICP-MS: Inductively Coupled Plasma - Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:	**	
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

INDRAJITH HATHURUSINGHA

MANAGER-FOOD LABORATORY



Report No:

(7418)144-0214B(SL)

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Page 4 of 4

### CPS CONDITIONS OF SERVICE

The party that submits a completed service request form to Company or signs a quotation issued by the Company for its performance of services il Services' its the "Client" under these Conditions of Service and issuing the Report documenting the results of those Services is the "Company" under these Conditions of Service. Company and Otentians, together, the "Parties" and each its a "Party". A request to Service so entitles a legacy boding agreement on both Parties when such a request is accepted by the Company ("Agreement") under the following terms and combines (collectively, "Conditions").

- 5. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Céent a written report setting forth the results of the Services based upon the property accepted request, applicable protocols, writen information, and where applicable, the product sample provided by Client to Company (Report'). Company may delegate/assign the performance of all or a portion of the Services to an artifact of Company or to an agent or subcontrator. Client shall provide to Company to an all focuments and information necessary to enable Company to property netform the Services. Company are in its sole information, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company after the product describe the samples shall were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company after product describe product samples that the samples shall pastly a includual property rights, (u) Client for any specific product describes properties offer from the samples shall pastly a includual property rights. (u) Client and rely upon Company after product describes properties offer from the samples shall pastly a including young conditions of the samples shall prove the accuracy of documents submitted to government or other regulatory bodies including certificates of completes gauged under the US Consumer Product Safety improvement Act and &U requirements under REACH regulations. Others responsibility and kability for accuracy shall apply even where Company has provided assistance to Céent in preparation of such documentation.
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- 3. Representations and Warrantiles, (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Chent agrees that Companying heither an insurer nor alguaranter and does not take the place of Chent or the third parties that it retains, including designers, manufacturers, agents, curvers, distributors, and transportation or shipping companies. Company disclaims at liability in such agreeates. Other understands that lift is seeks to protect itself from curving of loss, change or injury, it should obtain appropriate insurance (c) Company does not werrant or guarantee Clear's products, and Company's Report does not vertain or guarantee Clear's products, and Company's Report does not represent a warranty of interchantability, a warranty of fitness for a gardicular purpose, or any other wereanty or guarantee.
- 4. Payment. Payment in full shall be due 37 days after the date of invoice, falling which Company may revoke any credit extended to Cheni. Cheni shall reimblise Company for (t) interest on overdue emounts from the due date until paid at an interest raile of 1.5% per month and (n) any other costs Company incurs in collecting past due smouths, including court, alterneys and collection agencies. Idea:
- 5 Intellectual Property. The names service marks, trademarks and copyrights of Company and 4s affiliates (collectively, the "Marks") are and remain the sole property of Company and shad not be used by Clent. Client shall not context the validy of the Marks or take any action that might impair the valide or goodwill associated with the Marks or the timege or equilation of Company or its afficiency. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.
- 6. Relationship (a) historing herein creates a partnership, agency or joint venture between the Parties. (b) The fature to require strict observance or renformance of any provision of these Confidence shall not be construed to be a waver of a Party's right to talest require strict observance and performance of the same if any provision of these Confidence is the observance and performance of the same if any provision of these Confidence is performed or the Confidence is performed or the Confidence is period of two years after the commencement of this Agraement, Client shall not directly or indirectly try to solicit for employment any of Company's employees.
- 7. INDEMNITY CLIENT SHALL HOLD HARMLESS AND INDEMNIFY COMPANY ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS OFFICERS EMPLOYEES AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS DAMAGE, INJURY DEATH OR EXPENSE OF WHATEVER NATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ARISING FROM OR RELATING TO IT THE PERFORMANCE OF ANY SERVICES BY COMPANY (II) THE SALE, RESALE MANUFACTURE DISTRIBUTION OR USE OF ANY OF CLIENTS GOODS OR IND BREACH OF CLIENTS OBLIGATIONS OR WARRANTIES HEREIN
- & LIMITATIONS OF LIABILITY, (A) COMPANY SHALL NOT BE LIABLE FOR ANY HIDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT. THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETICH LISTIMATED BY COMPANY, REDARDLESS OF THE CAUSE OF THE DELAY OR FAILURE (B) THE SHIRE FINANCIAL AND LEGAL LIABLITY OF COMPANY IN RESPECT OF ANY CALM FOR LOSS LINDE WHITY, CONTRIBUTION OR DAMAGE OF WHATEVER HATURE OR HOWSDEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE 15) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCILIZE.
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- 10. Governing Law. Those Conditions shall be governed by the laws of the country as follows for Sorvices performed to (it the Americas) the laws of New York (ii) Asia Pacific, South Asia, Middle East and Africa; the laws of Hong Kong (except for China where PRC laws govern), and (iii) Europa, the laws of England.
- 11. Dispute Resolution (a) if Crent desires to assert a claim retailing to the Services, it must submit the same to Company in writing setting form with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of issuance of the Report Coent waives any and all claims without entition that if does not submit within such time periods (b) if a dispute exists using the Agreement, the Parties that first all first good faith registrations likeling which. The Parties if the courts of the country of governing have shad have exclusive jurisdiction to sellle any such dispute related to this Agreement and (in previously waive their right to this toy) in any such action of proceeding.
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END OF THE REPORT.







Report No:

(7418)144-0214C(SL)

Jul 14, 2018

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Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW3

Date & time Sampled: 03/07/2018 at 08.00 a.m

Date of Sample Received:

Jul 06, 2018

Date of Testing Started:

Jul 06, 2018

**Date of Testing Completed:** 

Jul 13, 2018

Date of Report Issued:

Jul 14, 2018

### Photo of the Submitted Sample



The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the company.

### CPS CONDITIONS OF SERVICE

The party that submits a completed service request form to Company or signs a quotation issued by the Company for its performance of services ("Services") is the "Client" under these Conditions of Service. The entity within the Bureau Veritas Consumer Products Services division accepting the service request form and issuing the Report documenting the results of those Services is the "Company" under these Conditions of Service. Company and Client are, together, the "Parties" and each is a "Party". A request for Services constitutes a legally binding agreement on both Parties when such a request is accepted by the Company ("Agreement") under the following terms and conditions (collectively, "Conditions"):

- 1. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights; (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the sample(s) upon which the Report is based; and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability for the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.
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### **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.1	-	NTU	АРНА 2130 В
3	pH at 24°C*	8.4	-		FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> -)	0.4	-	mg/l	APHA 4500 -NO₃− E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	< 0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	37	_	ppt	APHA 2520
	Heavy Metals				
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.004	-	mg/1	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

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ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		- Colonia - Colo
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY: INDRAJITH HATHURUSINGHA

MANAGER -FOOD LABORATORY



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#### CPS CONDITIONS OF SERVICE

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- 1. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting torth the results of the Services based upon the property accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services Company or to an agent or succontration. Client settle provide to Company or no at invest bases, all documents and information in necessary (to a network to company or to an agent or succontrator. Client settle provide to Company or a limit by bases, all documents and information in necessary to a network to provide services. Services Company has been described to Company to proposely to provide a service of product samples surnished to Company to the Services that were not dostroyed in the course of performance of the Services (b) Client interestents and warrants to Company that the section product samples and the provided and applied to Company surnished to Company surnished to Company the product sample and the sample of product whose proceeds and the sample of product whose proceeds of the from the sample of product whose proceeds of the specified data and (c) Client accepts some responsibility for the accuracy of documents submitted to government or other regulatory bodies including cartricates of completes required under the US Consulter Product Salley Improvement Act and EU requirements under REACH regulations. Client's responsibility for accuracy shall apply seen where Company has provided assistance to Caent in preparation of such documentation.
- 2. Report, (a) The Report shall (i) consistute the sole deliverable for the Services, (ii) felate solely to the (acts and circumstances as observed and recorded by Company at the time of performance of the Services within the finite of written information and instructions received from Oten, Company shall have no obligation to update the Report after the issuance. Where the Services include teating or inspection, (i) the Report will set toth the findings of Company soles, with respect to the product samples identified therein and (ii) the results set toth in the Report are not to be construed as indicative or representative of the called the original solely by Company, is intended for the exclusive oue of Client and 4s efficiels and except an equired by a required by a required by the Company is not responsible for any bind party interpretation of the Report (ii) the stabilistic or jubilisty decisioned without company; is prior written consent. Company is not responsible for any bind party is interpretation of the Report (ii) Oten shall not request a Report for purposes of largetion, nor shall it time the production of the Report (iii) and proceeding without company, prior written consent. I other shall not request a Report for purposes of largetion, nor shall it time the proceedings, it shall so notify Company, because the Report in any proceeding without company, prior written consent. I other shall not request a Report for purposes of largetion, nor shall it time the proceedings, it shall so notify Company from the submitting (the Report in such proceeding).
- 3. Representations and Warranties. (a) Company undertakes due care and ordinary stall in the performance of its Services. (b) Obent agrees that Company is neither an insurer not a guestantor and does not take the place of Cuent or the filled parties that it retains, including designers, manufacturers, agents, buyers, distributions, and transportation or shipping companies. Company decisions all basely in such expectives. Client understands that if it seeks to protect seem from stamps of long-transportation and purpose in appropriate insurance. (c) Company does not warrant or guarantee. Client a products, and Company's Report upons not represent a warranty of merchanisticity, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment, Payment in full shall be due 30 days after the date of invoice, falling which Company may revoke any credit extended to Client, Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest raile of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, altomays and collection agencies' fees.
- 5 intellectual Property. The names, service marks, bademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the sole property of Company and shall not be used by Cfent. Client shall not contest the validity of the Marks or take any action that might impair the valid or good-values with the Marks of the image or reputation of Company or its affinites. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.
- 6. Relationship (a) Nothing herein creates a partnership, agency or joint venture between the Parties (b) The fature to require stind observance or pollomance of any provision of these Complians shall not be construed to be a warver of a Party's right to later require stind observance and performance of the same. If any provision of these Complians is held to be invalid or unenforceable, such invalidate that continued the remainder of the Complians. (c) For a period of two years after the commencement of this Agreement, Clentistal not decity or indirectly by to solicit for employment any of Complany's employees
- 7. MIDEMNITY CLIENT SHALL HOLD HARMLESS AND INDEMNITY COMPANY, ITS AFFILIATES, AND THEIR RESPECTIVE ORECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS, DAMAGE, INJURY, DEATH, OR EXPENSE OF WHATEVER HATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ANISING FROM OR RELATING TO IN THE PERFORMANCE OF ANY SERVICES BY COMPANY, UIL THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY OF CLIENT'S GOODS OR (III) BREACH OF CLIENT'S OBLIGATIONS OR WARRANTIES HEREIN
- B. LIMITATIONS OF LIABILITY, (A) COMPARY SHALL NOT BE LIABLE FOR ANY INDIRECT. CONSEQUENTIAL OR SPECIAL LOSS IN CONTECTION WITH THE REPORT. THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS CBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDES WITHIN ANY TIME PERIOD FOR COMPLETCH ESTIMATED BY COMPANY IN REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE (B) THE ENTIRE FINANCIAL AND LEGAL LIABLITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS. INDEMINITY, CONTRIBUTION OR DAMAGE OF WHATEVER HATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (S) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCIL CLAIM.
- 8. Force Majeure, if any event of force majeure or any event bulside the control of Company occurs, Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client
- 10, Governing Law. These Conditions shall be governed by the taws of the country as follows, for Sendous performed in (i) the Americas, the laws of New York (ii) Asia Pacific, South Asia, Middle East and Anoal the taws of Hong Kong (except for China where PRC taws govern), and (ii) Europe. The taws of England
- 11. Dispute Resolution. (a) If Ckent desires to essert a claim relating to the Services, it must submit the same to Company in writing setting forth with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of Issuance of the Report. Client waives any and all claims without limitation that a does not submit within such time periods, (4) if a dispute estises under this Agreement, the Parties shall this allermor good faith negotiations (afting which. The Parties is the courts of the country of governing laws shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) irrevocably waive their right to that by jury in any such action or proceeding.
  - 12. These Conditions the applicable bright form entitor quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is brighting unless in writing. Any of Client's ferms and conditions attached to enclosed with or referred to in any order form, purchase order or other document shall not apply.

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END OF THE REPORT.







Report No:

(7418)144-0214D(SL)

Jul 14, 2018

Page 1 of 4

Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW4

Date & time Sampled: 03/07/2018 at 08.15 a.m

Date of Sample Received:

Jul 06, 2018

Date of Testing Started:

Jul 06, 2018

**Date of Testing Completed:** 

Jul 13, 2018

Date of Report Issued:

Jul 14, 2018

### Photo of the Submitted Sample



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- 1. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights; (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the sample(s) upon which the Report is based; and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability for the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.
- 2. Report. (a) The Report shall (i) constitute the sole deliverable for the Services, (ii) relate solely to the facts and circumstances as observed and recorded by Company at the time of performance of the Services within the limits of written information and instructions received from Client; Company shall have no obligation to update the Report after its issuance. Where the Services include testing or inspection: (i) the Report will set forth the findings of Company solely with respect to the product samples identified therein and (ii) the results set forth in the Report are not to be construed as indicative or representative of the quality or characteristics of the lot from which a product sample was taken for Company's performance of Services. (b) The Report is issued solely by Company, is intended for the exclusive use of Client and its affiliates and, except as required by a regulatory body, shall not be published, used for advertising purposes, copied or replicated for distribution or publicly disclosed without Company's prior written consent. Company is not responsible for any third party's interpretation of the Report. (c) Client shall not request a Report for purposes of litigation, nor shall it list Company, its affiliates or employees as an expert in any proceeding without Company's prior written consent. If Client anticipates producing or otherwise using the Report in any legal proceedings, it shall so notify Company prior to submitting the Report in such proceeding.
- 3. Representations and Warrantles. (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment. Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.
- 5. Intellectual Property. The names, service marks, trademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the sole property of Company and shall not be used by Client. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of Company or its affiliates. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.
- 6. Relationship. (a) Nothing herein creates a partnership, agency or joint venture between the Parties. (b) The failure to require strict observance or performance of any provision of these Conditions shall not be construed to be a waiver of a Party's right to later require strict observance and performance of the same. If any provision of these Conditions is held to be invalid or unenforceable, such invalidity shall not invalidate the remainder of the Conditions. (c) For a period of two years after the commencement of this Agreement, Client shall not directly or indirectly try to solicit for employment any of Company's employees.
- 7. INDEMNITY. CLIENT SHALL HOLD HARMLESS AND INDEMNIFY COMPANY, ITS AFFILIATES, AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST ALL THIRD-PARTY CLAIMS FOR LOSS, DAMAGE, INJURY, DEATH, OR EXPENSE OF WHATEVER NATURE, INCLUDING BUT NOT LIMITED TO CLAIMS ARISING FROM OR RELATING TO (I) THE PERFORMANCE OF ANY SERVICES BY COMPANY, (II) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY OF CLIENT'S GOODS OR (III) BREACH OF CLIENT'S OBLIGATIONS OR WARRANTIES HEREIN.
- 8. LIMITATIONS OF LIABILITY. (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT, THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDE' COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY, REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.
- 9. Force Majeure. If any event of force majeure or any event outside the control of Company occurs, Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.
- 10. Governing Law. These Conditions shall be governed by the laws of the country as follows: for Services performed in (i) the Americas: the laws of New York, (ii) Asia Pacific, South Asia, Middle East and Africa: the laws of Hong Kong (except for China where PRC laws govern), and (iii) Europe: the laws of England.
- 11. Dispute Resolution. (a) If Client desires to assert a claim relating to the Services, it must submit the same to Company in writing setting forth with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of issuance of the Report. Client waives any and all claims without limitation that it does not submit within such time periods. (b) If a dispute arises under this Agreement, the Parties shall first attempt good faith negotiations, failing which, the Parties (i) agree that the courts of the country of governing law shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) irrevocably waive their right to trial by jury in any such action or proceeding.
- 12. These Conditions, the applicable order form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Client's terms and conditions attached to, enclosed with or referred to in any order form, purchase order or other document shall not apply.

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### **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.2	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> -)	0.4	-	mg/l	APHA 4500 -NO₃− E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	<0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	37	_	ppt	APHA 2520
	Heavy Metals				
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
)11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/I	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)

NOTE:

mg/l: milligrams per liter, ppt: parts per thousand, APIIA: American Public Health Association ND: Not Detected, LOQ: Limit of Quantification, NTU: Nephelometric Turbidity Units, °C: Celcius,

ICP-MS: Inductively Coupled Plasma - Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		146.4
IROSHA UĐUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

INDRAJATH HATHURUSINGHA

MANAGER-

FOOD LABORATORY



Report No:

(7418)144-0214D(SL)

Jul 14, 2018

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#### CPS CONDITIONS OF SERVICE

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END OF THE REPORT.







(7418)144-0214E(SL)

Jul 14, 2018

Page 1 of 4

Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Report No:

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as: 500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as: Thilafushi SW5

Date & time Sampled: 03/07/2018 at 08.30 a.m

Date of Sample Received: Jul 06, 2018

Date of Testing Started: Jul 06, 2018

Date of Testing Completed: Jul 13, 2018

Date of Report Issued: Jul 14, 2018

### Photo of the Submitted Sample



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- 2. Report. (a) The Report shall (i) constitute the sole deliverable for the Services, (ii) relate solely to the facts and circumstances as observed and recorded by Company at the time of performance of the Services within the limits of written information and instructions received from Client; Company shall have no obligation to update the Report after its issuance. Where the Services include testing or inspection: (i) the Report will set forth the findings of Company solely with respect to the product samples identified therein and (ii) the results set forth in the Report are not to be construed as indicative or representative of the quality or characteristics of the lot from which a product sample was taken for Company's performance of Services. (b) The Report is issued solely by Company, is intended for the exclusive use of Client and its affiliates and, except as required by a regulatory body, shall not be published, used for advertising purposes, copied or replicated for distribution or publicly disclosed without Company's prior written consent. Company is not responsible for any third party's interpretation of the Report. (c) Client shall not request a Report for purposes of litigation, nor shall it list Company, its affiliates or employees as an expert in any proceeding without Company's prior written consent. If Client anticipates producing or otherwise using the Report in any legal proceedings, it shall so notify Company prior to submitting the Report in such proceeding.
- 3. Representations and Warranties. (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment. Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.
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- 8. LIMITATIONS OF LIABILITY. (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT, THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY, REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.
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Report No:

(7418)144-0214E(SL)

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### **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.3	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	=	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> -)	0.5	-	mg/l	APHA 4500 -NO <sub>3</sub> – E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	0.05	-	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36	_	ppt	APHA 2520
	Heavy Metals				-
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)

### NOTE:

mg/l: milligrams per liter, ppt: parts per thousand, APHA: American Public Health Association ND: Not Detected, LOQ: Limit of Quantification, NTU: Nephelometric Turbidity Units, °C: Celcius,

ICP-MS: Inductively Coupled Plasma - Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:			
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com	
TECHNICAL INQUIRIES:			
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FEED BACK:			
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com	

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY: INDRAJITH HATHURUSINGHA

MANAGER -FOOD LABORATORY



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END OF THE REPORT.







Report No:

(7418)144-0214F(SL)

Jul 14, 2018

Page 1 of 4

Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW6

Date & time Sampled: 03/07/2018 at 07.15 a.m

Date of Sample Received:

Jul 06, 2018

Date of Testing Started:

Jul 06, 2018

**Date of Testing Completed:** 

Jul 13, 2018

Date of Report Issued:

Jul 14, 2018

### Photo of the Submitted Sample



The content of this PDF file is in accordance with the original issued reports for reference only. This Test Report cannot be reproduced, except in full, without prior written permission of the company.

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14	Zinc (as Zn)*	0.003	-	mg/l			
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FEED BACK:			
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com	

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

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AUTHORIZED SIGNATORY

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#### CPS CONDITIONS OF SERVICE

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END OF THE REPORT.







Report No:

(7418)144-0214G(SL)

Jul 14, 2018

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Applicant: Water Solutions (Pvt) Ltd.

Address: Ma Fas Eri, 1st Floor,

Ameenee Magu,

Male, Maldives.

Attn: Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

Sample Received as:

500ml x 2 No.s of water sample contained in sealed

plastic bottles submitted by the client.

Sample Described by the Client as:

Thilafushi SW7

Date & time Sampled: 03/07/2018 at 08.45 a.m

Date of Sample Received:

Jul 06, 2018

**Date of Testing Started:** 

Jul 06, 2018

Date of Testing Completed:

Jul 13, 2018

Date of Report Issued:

Jul 14, 2018

### **Photo of the Submitted Sample**



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- 1. Services. (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights; (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the sample(s) upon which the Report is based; and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability for the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.
- 2. Report. (a) The Report shall (i) constitute the sole deliverable for the Services, (ii) relate solely to the facts and circumstances as observed and recorded by Company at the time of performance of the Services within the limits of written information and instructions received from Client; Company shall have no obligation to update the Report after its issuance. Where the Services include testing or inspection: (i) the Report will set forth the findings of Company solely with respect to the product samples identified therein and (ii) the results set forth in the Report are not to be construed as indicative or representative of the quality or characteristics of the lot from which a product sample was taken for Company's performance of Services. (b) The Report is issued solely by Company, is intended for the exclusive use of Client and its affiliates and, except as required by a regulatory body, shall not be published, used for advertising purposes, copied or replicated for distribution or publicly disclosed without Company's prior written consent. Company is not responsible for any third party's interpretation of the Report. (c) Client shall not request a Report for purposes of litigation, nor shall it list Company, its affiliates or employees as an expert in any proceeding without Company's prior written consent. If Client anticipates producing or otherwise using the Report in any legal proceedings, it shall so notify Company prior to submitting the Report in such proceeding.
- 3. Representations and Warrantles. (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.
- 4. Payment. Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.
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- 12. These Conditions, the applicable order form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Client's terms and conditions attached to, enclosed with or referred to in any order form, purchase order or other document shall not apply.



# TEST REPORT

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## **TEST RESULTS**

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition - 2550B
2	Turbidity	0.2	-	NTU	APHA 2130 B
3	pH at 24°C*	8.2	•		FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.5	-	mg/l	APHA 4500 -NO <sub>3</sub> – E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032;2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	<0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36	=	ppt	АРНА 2520
	Heavy Metals			l.	·
8	Arsenic (as As)*	ND	0.001	mg/l	
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	CPSD-AN-00581-MTHD with
12	Nickel (as Ni)*	ND	0.001	mg/l	ICP-MS
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.008	-	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Remark -

\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)

NOTE:

mg/l: milligrams per liter, ppt: parts per thousand, APHA: American Public Health Association ND: Not Detected, LOQ: Limit of Quantification, NTU: Nephclometric Turbidity Units, °C: Celcius,

ICP-MS: Inductively Coupled Plasma - Mass Spectroscopy.

Contact information for this report (Technical and General Inquiries and Feedback)

GENERAL INQUIRIES:		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

INDRAJITH HATHURUSINGHA

MANAGER -FOOD LABORATORY



## TEST REPORT

Report No:

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END OF THE REPORT.

Environmental Impact Assessment for the Waste-to-Energy Plant Project in Thilafushi

## **Biodiversity and Critical Habitat Assessment**



Prepared by: Aleef Naseem and Abdul Aleem (EIA P03/2019)



## Contents

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#### I. Introduction

- 1. The ADB Safeguard Policy Statement (ADB 2009) requires assessment of whether the project is planned in an area that may qualify as Critical Habitat or Natural Habitat. This assessment followed more detailed guidance in International Finance Corporation Performance Standard 6 and its recently updated accompanying guidance note (IFC 2012, 2019).
- 2. ADB SPS requires that any projects financed by ADB shall not implement project activities and components in area of critical habitat/s, unless (i) there are no measurable adverse impacts on the critical habitat that could impair its ability to function, (ii) there is no reduction in the population of any recognized endangered or critically endangered species, and (iii) any lesser impacts are mitigated. If a project is located within a legally protected area, ADB requires that the project implement additional programs to promote and enhance the conservation aims of the protected area. In an area of natural habitats, there must be no significant conversion or degradation, unless (i) alternatives are not available, (ii) the overall benefits from the project substantially outweigh the environmental costs, and (iii) any conversion or degradation is appropriately mitigated. ADB SPS further requires the use of precautionary approach in the use, development, and management of renewable natural resources.
- 3. In order to assess whether the Greater Malé Waste-to-Energy Project (WTE project) is located in a critical habitat, an initial screening was undertaken using the Integrated Biodiversity Assessment Tool (IBAT).<sup>1</sup> Results show that the location of the WTE project is likely a critical habitat. Therefore, a critical habitat assessment is needed to confirm the results.
- 4. This biodiversity and critical habitat assessment is applicable to the WTE project. Apart from the information from the IBAT screening, this report is also based on the baseline information provided in the EIA for the WTE project, which was supported with literature review and field data collection.

### II. Definition of Critical Habitat

5. Critical habitat is defined in ADB SPS (2009) as a subset of both natural and modified habitat that deserves particular attention. Critical habitat includes areas with high biodiversity value, including (i) habitat required for the survival of critically endangered or endangered species; (ii) areas having special significance for endemic or restricted-range species; (iii) sites that are critical for the survival of migratory species; (iv) areas supporting globally significant concentrations or numbers of individuals of congregatory species; (v) areas with unique assemblages of species or that are associated with key evolutionary processes or provide key ecosystem services; and (vi) areas having biodiversity of significant social, economic, or cultural importance to local communities.

<sup>&</sup>lt;sup>1</sup> The Integrated Biodiversity Assessment Tool (IBAT) is a multi-institutional programme of work involving BirdLife International, Conservation International, IUCN, and UNEP-WCMC. IBAT provides a basic risk screening on biodiversity. It draws together information on globally recognised biodiversity information drawn from a number of IUCN's Knowledge Products: IUCN Red List of Threatened Species, Key Biodiversity Areas (priority sites for conservation) and Protected Planet/The World Database on Protected Areas (covering nationally and internationally recognised sites, including IUCN management categories I–VI, Ramsar Wetlands of International Importance and World Heritage sites).

## III. Areas of analysis

- 6. Critical Habitat and Natural Habitat assessment ideally takes place across sensible ecological or political units that are sufficiently large to encompass all direct and indirect impacts from the project. These areas of analysis (AoAs) are thus often much broader than the direct project footprint. AoAs may be separate or combined, depending on the ecology of the biodiversity concerned.
- 7. Considering the extent of potential impacts on aquatic biodiversity from the Project an aquatic AoA was identified as the 50-km study area to make consistent with the default range in the IBAT Screening. This area is approximately within the Zone 3 of Maldives, within which common biological communities and/or management issues exist (Figure 1).

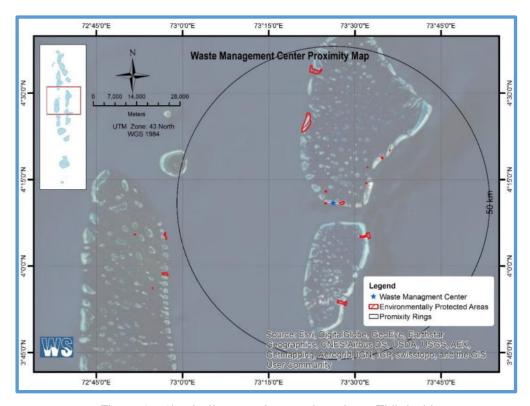


Figure 1: 50km buffer zone from project site at Thilafushi

8. Identification of AoAs does not mean that the project has any obligations across them. The aim of this Critical Habitat Assessment is to identify whether the broad units qualify as Critical Habitat and, if so, for which biodiversity features. This information helps to prioritize impact assessment and to focus mitigation efforts.

### IV. Thresholds of Critical Habitat

1. To identify if a certain species can qualify the project AoA as Critical Habitat, the IFC Guidance Note 6 (2019)<sup>2</sup> has been used.

### V. Critical Habitat Screening and Assessment

2. Critical habitat screening considered critical habitat-qualifying biodiversity candidates identified within the EIA as actually or potentially present. In each case, reasons are identified for each biodiversity feature likely meeting or not meeting Critical Habitat. IBAT was used as the initial screening for critical habitat values. Performance Standard 6 (PS6) defines these values for critical habitat (PS6: para. 16) and legally protected and internationally recognized areas (PS6: para. 20). The IBAT was used to screen for known risks within a standard 50km buffer of the project area at Thilafushi (see **Error! Reference source not found.**).

## VI. Criteria 1 – 3: Critically Endangered or Endangered Species, Endemic and/or Restricted-range species Migratory or Congregatory Species

- 3. Habitat of significant importance to priority species can trigger critical habitat status. IBAT was used to create a preliminary list of priority species that could occur within the AoA. This list is drawn from the IUCN Red List of Threatened Species (IUCN RL). Due to the uncertainty surrounding the assessment at this preliminary stage, the list of species for which Critical Habitat may be triggered is still provisional and will require further analysis as reiterated in the conclusion.
- 4. The justification for the assessment has been provided in Table 1.
- 5. It should be noted that this list is preliminary and other species not currently included or poorly represented such as birds, fish, and invertebrates may come to light and require inclusion following monitoring and field surveys, continued desk study, and stakeholder engagement during project implementation.

https://www.ifc.org/wps/wcm/connect/5e0f3c0c-0aa4-4290-a0f8-4490b61de245/GN6 English June-27-2019.pdf?MOD=AJPERES&CVID=mRQjZva

Table 1: Critical Habitat Screening Assessment

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory / Congregatory Species	Rationale
Mammals				
Blue Whale Balaenoptera musculus	EN	-	М	About 5,000 individuals of this species survive today in three populations: North Atlantic, North Pacific, and the Southern Hemisphere. According to interviews with local people, there has been only few sightings of Blue Whales in Maldives waters and is regarded as an uncommon visitor to the Maldives. There is no recorded information that can confirm the regular occurrence of this species in the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs, at least seasonally. <i>Balaenoptera musculus</i> does not appear to qualify the Project area as Critical Habitat.
Birds				
Matsudaira's Storm-petrel Oceanodroma matsudairae	-	RS	M	Population is only known to breed on the Volcano Islands in southern Japan. After breeding the species move south across equatorial belt and then winters in the equatorial belt. Only recorded in Ha. Atoll (Anderson & Baldock 2001), which is not within the AoA. There is a possibility that the species could occur near the coast in the Project AoA. This is, however, unlikely given degradation and development in that area. Based on the available information, <10% of the species' range overlap the terrestrial AoA, and there is low likelihood that suitable habitat exists in the Project area. <i>Oceanodroma matsudairae</i> does not appear to qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Odonata				
Enallagma maldivense	CR	RS	-	Enallagma maldivensis is a species of damselfly. There is insufficient data available for this species. No data is available on its population size in the AoA nor population size for the entire country. Dragonflies normally are found in freshwater habitats. No information is available on the presence of freshwater habitats (e.g. ponds) in the AoA. On a precautionary basis, it is possible that the terrestrial AoA holds more than 0.5% of the global population of this globally Critically Endangered damselfly. As such, Enallagma maldivense qualifies the project AoA as Critical Habitat.
Fishes				
Pondicherry Shark Carcharhinus hemiodon	CR	_	_	The Pondicherry Shark is a rare shark found on the continental and insular shelves of the eastern Indian Ocean and the western Pacific, from India to New Guinea. Thought to be extinct, recently found near a seasonal fishing village in Sri Lanka. There have been no recorded sightings in Maldives. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Carcharhinus hemiodon</i> does not appear to qualify the Project area as Critical Habitat.
Bowmouth Guitar shark Rhina ancylostoma	VU*	-	-	Although this shark is found throughout coastal areas across the Indian Ocean, sightings of this species in Maldives is rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA. There is no reason to suspect that the AoA holds disproportionately high or low populations. The Project only occupies a small percentage of the AoA and is not predicted to have broad-scale impacts. Without further information, it thus seems unlikely that the Project could have impacts on this shark that would impact it to a level that it would become Endangered. As such, <i>Rhina ancylostoma</i> does not qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Bottlenose Wedge shark Rhynchobatus australiae	CR	-	-	The Bottlenose Wedgefish inhabits inshore waters on the continental shelves, specifically enclosed bays, estuaries, and coral reefs. It is found in South-East Asia and Australia.  Although this shark is also found throughout coastal areas across the Indian Ocean, sightings of this species in Maldives is rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. Rhynchobatus australiae does not appear to qualify the Project area as Critical Habitat.
Whale Shark Rhincodon typus	EN	1	1	Whale sharks are commonly found within Maldives. A possible resident population exists in ADh. Atoll which is outside the AoA. Sightings are rare within the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Rhincodon typus</i> does not appear to qualify the Project area as Critical Habitat.
Shortfin Mako Shark Isurus oxyrinchus	EN	-	М	The Shortfin Mako is an offshore littoral and epipelagic species found occurring in tropical and warm-temperate waters of all oceans. It is a highly migratory species making extensive journeys of over 3,000 kilometers. This species is found throughout Maldives. However, occurrence close to the atolls is very rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA, It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Isurus oxyrinchus</i> does not appear to qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Great Hammerhead Sphyrna mokarran	EN	-	-	Sphyrna mokarran is a coastal-pelagic and semi-oceanic tropical hammerhead occurring close inshore and well offshore, over the continental shelves, island terraces, and in passes and lagoons of coral atolls, as well as over deep water near land. Sightings are seasonal during the start of North-east Monsoon. According to diver community, southern atolls have the most likelihood of sightings which fall outside the AoA. The great hammerhead ranges widely throughout the tropical waters of the world. For this reason, it is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. Sphyrna mokarran does not appear to qualify the Project area as Critical Habitat.
Ornate Eagle Ray Aetomylaeus vespertilio	E	-	-	The Ornate Eagle Ray has a sporadic distribution in the Indo-West Pacific, including Maldives. It occurs on the inner continental shelf to depths of 110 m over soft sandy substrate. Rarely seen and one sighting at Landaa Giraavaru, Baa Atoll, Maldives was recorded on February 2018. This area is outside the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Aetomylaeus vespertilio</i> does not appear to qualify the Project area as Critical Habitat.
Longfin Mako Isurus paucus	EN	-	-	The Longfin Mako is widespread in tropical and warm temperate waters, and likely occurs in all oceans, although its distribution is poorly recorded. Sightings of this species in Maldives is rare. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Isurus paucus</i> does not appear to qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Sky Emperor Lethrinus mahsena	EN	-	-	This species is found in coral reef habitats and adjacent sandy and seagrass areas. Commercially fished in most of its habitat, but there are no evidences that it happens in the Maldives as well. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Lethrinus mahsena</i> does not appear to qualify the Project area as Critical Habitat.
Echinoderms				
Golden Sandfish Holothuria scabra; Golden Sandfish Holothuria lesson; Black Teatfish Holothuria nobilis	EN	-	-	All these holothurian species are fished commercially, with some local populations in sharp decline due to overexploitation. All three species have a wide range across Indo-Pacific tropical seas. No information is available about the presence and abundance of these species in the project AoA; however, it is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Holothuria spp.</i> do not appear to qualify the Project area as Critical Habitat.
Corals				
Acropora rudis	EN	-	-	This species is found in the northern Indian Ocean and the central Indo-Pacific. Found also in the Maldives, however, data lacks on population size. The AoA is already impacted and not all the reefs are in pristine conditions, and this species was also not found during the underwater surveys. It is extremely unlikely the Project AoA holds >0.5% of the global population of this species. <i>Acropora rudis</i> does not appear to qualify the Project area as Critical Habitat.

CR – Critically Endangered under IUCN Red List; EN – Endangered under the IUCN Red List; RS – Restricted Range Species under IUCN; M – migratory. \*- Recently changed to vulnerable status in IUCN Red List

## VII. Criterion 4: Unique assemblages of species that are associated with key evolutionary processes

6. As is the case for the majority of Indo-Pacific islands, the Maldives Archipelago has been subject to long and extreme isolation that has allowed evolutionary processes to generate unique, endemic flora and fauna. Beyond this general context, however, there is no reason to believe that the terrestrial or aquatic AoA host particularly unusual or key evolutionary processes. Unique assemblages of species associated with key evolutionary processes thus do not qualify the Project area as Critical Habitat.

## VIII. Criterion 5: Areas having biodiversity of significant social, economic, or cultural importance to local communities (including ecosystem services)

- 7. This additional assessment considers the ecosystem services from biodiversity in general. The assessment of significance of ecosystem services to local communities is assessed retrospectively in line with the consultation with local dive communities.
- 8. Ecosystem services affected by the project are prioritized when all three of the following criteria are met: (i) the project might affect the ability of others to benefit from the service; (ii) the affected service is important to beneficiaries' well-being; and (iii) beneficiaries do not have viable alternatives for that service.
- 9. The limited information presented does not give reason to believe that the Project terrestrial or aquatic AoA are sufficiently important to local people that they represent Critical Habitat under this criterion. However, it is beyond the scope of this assessment to collect additional information on ecosystem services, and then to assess which may qualify the project area as Critical Habitat.

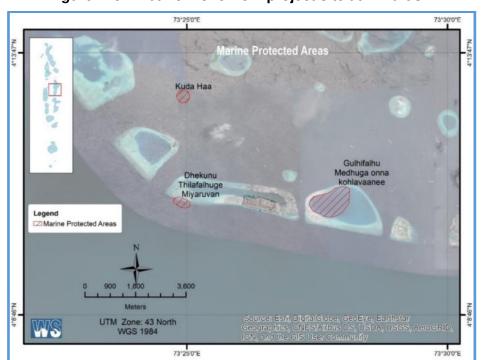


Figure 2. 5km buffer zone from project site at Thilafushi

## IX. Legally protected areas and internationally recognized areas

- 10. There are some areas near to the Project. The nearest MPA to the WTE project site is the "Lions Head" (Dhekunu Thilafalhuge Miyaruvani), around 1 km from the proposed plant. Additionally, as a precautionary approach, a more focused habitat assessment was conducted for this MPA. Results show that none of the IUCN species categorized as critically endangered species, endangered species or vulnerable species is found within this MPA. Results also show that none of nationally protected species is found within this MPA either. A complete assessment of the Lions Head is attached as Annex 2.
- 24. Following IFC (2019), none of the protected areas found in the Project AoA meets the thresholds for Critical Habitat for some species for which it was designated. For this reason, none of the protected areas found in the AoA qualify the Project area as Critical Habitat.

### X. Conclusion and Recommendations

- 25. The WTE project will be established in Maldives, a country rich in biodiversity. Based on the initial screening using IBAT, the project site is likely to be a critical habitat at least for a terrestrial insect.
- 11. In the course of project implementation, it is highly recommended that continuous marine underwater monitoring be undertaken around Thilfushi island to confirm the extent of biodiversity in various seasons of the year, including assessment of features pertinent to critical habitats. In cases when future information determines the existence of critical habitat within the study area, the WTE project should be able to demonstrate that:
  - (i) It does not lead to measurable adverse impacts on those biodiversity values for which the critical habitat was designated, and on the ecological processes supporting those biodiversity values;
  - (ii) It does not lead to a net reduction in the global and/or national/regional population of any Critically Endangered or Endangered species over a reasonable period of time: and
  - (iii) It has integrated into its management program a robust, appropriately designed, and long-term biodiversity monitoring and evaluation program.

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## Annex 1: IBAT assessment report



## Integrated Biodiversity Assessment Tool

## WORLD BANK GROUP BIODIVERSITY RISK SCREEN

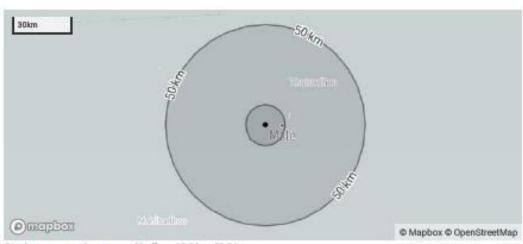
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Project Name: Thilafushi WTE

Location: [4.2,73.4]

#### Overlaps with:





Displaying project location and buffers: 10.0 km, 50.0 km



This report is based on IFC Performance Standard 6 (PS6) but applies to World Bank Environmental and Social Standard 6 (ESS6)











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#### About this report

IBAT provides initial screening for critical habitat values. Performance Standard 6 (PS6) defines these values for critical habitat (PS6: para. 16) and legally protected and internationally recognized areas (PS6: para. 20). PS6 will be triggered when IFC client activities are located in modified habitats containing "significant biodiversity value," natural habitats, critical habitats, legally protected areas, or areas that are internationally recognized for biodiversity. References to PS6 and Guidance Note 6 (GN6) are provided to guide further assessment and detailed definitions where necessary. Please see <a href="https://www.ifc.org/gs6">https://www.ifc.org/gs6</a> for full details on PS6 and GN6.

The report screens for known risks within a standard 50km buffer of the coordinates used for analysis. This buffer is not intended to indicate the area of impact. The report can be used to:

- · Scope risks to include within an assessment of risks and impacts
- · Identify gaps within an existing assessment of risks and impacts
- · Prioritize between sites in a portfolio for further assessment of risks and impacts
- · Inform a preliminary determination of critical habitat
- · Assess the need for engaging a biodiversity specialist
- Identify additional conservation experts or organizations to inform further assessment or planning.

WARNING: IBAT aims to provide the most up-to-date and accurate information available at the time of analysis. There is however a possibility of incomplete, incorrect or out-of-date information. All findings in this report must be supported by further desktop review, consultation with experts and/or on-the-ground field assessment as described in PS6 and GN6. Please consult IBAT for any additional disclaimers or recommendations applicable to the information used to generate this report.

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#### **Priority Species**

Habitat of significant importance to priority species will trigger critical habitat status (See PS6: para 16). IBAT provides a preliminary list of priority species that could occur within the 50km buffer. This list is drawn from the IUCN Red List of Threatened Species (IUCN RL). This list should be used to guide any further assessment, with the aim of confirming knownor likely occurrence of these species within the project area. It is also possible that further assessment may confirm occurrence of additional priority species not listed here. It is strongly encouraged that any new species information collected by the project be shared with species experts and/or IUCN wherever possible in order to improve IUCN datasets.

### IUCN Red List of Threatened Species - CR & EN

The following species are potentially found within 50km of the area of interest. For the full IUCN Red List please refer to the associated csv in the report folder.

Species name	Common name	IUCN Category	Group
Carcharhinus hemiodon	Pondicherry Shark	CR	CHONDRICHTHYES
Rhina ancylostoma	Bowmouth Guitarfish	CR	CHONDRICHTHYES
Rhynchobatus australiae	Bottlenose Wedgefish	CR	CHONDRICHTHYES
Enallagma maldivense		CR	INSECTA
Balaenoptera musculus	Blue Whale	EN	MAMMALIA
Rhincodon typus	Whale Shark	EN	CHONDRICHTHYES
Isurus oxyrinchus	Shortfin Mako	EN	CHONDRICHTHYES
Sphyma mokarran	Great Hammerhead	EN	CHONDRICHTHYES
Aetomylaeus vespertilio	Ornate Eagle Ray	EN	CHONDRICHTHYES
Isurus paucus	Longfin Mako	EN	CHONDRICHTHYES
Acropora rudis		EN	ANTHOZOA











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### Biodiversity features which are likely to trigger Critical Habitat

### Protected Areas

The following protected areas are found within 10.0 km and 50.0 km of the area of interest. For further details please refer to the associated csv file in the report folder.

Area name	Distance	Recommendation
Giravaru Kuda Haa	10.0 km	Assess for biodiversity risk
Hans Hass Plave (Gulhi Falhu)	10.0 km	Assess for biodiversity risk
Lions Head (Thilafalhu Miyanıvani)	10.0 km	Assess for biodiversity risk
Banana reef (Gaathu Giri)	50.0 km	Assess for biodiversity risk
Embudhoo Kanduolhi	50.0 km	Assess for biodiversity risk
Guraidhoo Kandu	50.0 km	Assess for biodiversity risk
Huraa Mangrove	50.0 km	Assess for biodiversity risk
Makunudhoo Kandu	50.0 km	Assess for biodiversity risk
Nassimo Thila (Lankan Thila)	50.0 km	Assess for biodiversity risk
Rasfari	50.0 km	Assess for biodiversity risk
Thanburudhoo Thila (HP Reef)	50.0 km	Assess for biodiversity risk

## Key Biodiversity Areas











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