

Chemical Analysis Report

WQAP-2021-05-27-01

Florida Department of Environmental Protection
Central Laboratory
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Tallahassee, FL 32399-2400
DOH Accreditation E31780

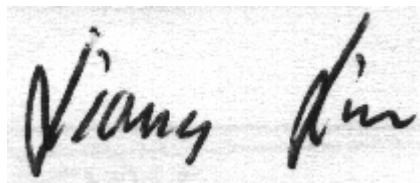
Event Description: **Algal Bloom Response -SOROC**
Request ID: **RQ-2021-03-15-43**
Customer: **WQAP**
Project ID: **BLOOM-RESP**

Send Reports to:
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Certified by: Liang Lin, Environmental Administrator

Date Certified: 21-JUN-2021 13:04

A handwritten signature in black ink, appearing to read "Liang Lin", is shown on a light-colored background.

Case Narrative

Unless otherwise noted, all samples included in this report were received in accordance with protocols referenced in Chapter 62-160, Florida Administrative Code (F.A.C.). Results published in this report pertain only to the samples as submitted to, and received by the laboratory. All times in this report are adjusted to the applicable Eastern Time Zone (EST or EDT).

Results for the following analytical groups are included in this report: Nutrients and Pesticides.

Scientific notation may be used in reporting very large or small values. Values reported using scientific notation will take the form of the following example: 1.3E+03, which is equivalent to 1.3×10^3 or 1300.

Unless otherwise noted, analytical values for soil and sediment samples are reported on a dry weight basis, and analytical values for waste and tissue samples are reported on a wet weight basis.

Results for TNI accredited tests met requirements established by The NELAC Institute. A double asterisk (**) is used to indicate an analyte/matrix/method for which the laboratory is not TNI accredited by the Florida Department of Health Environmental Laboratory Certification Program or where accreditation for that field of testing is not applicable.

Any significant anomalies or deviations from established protocols are documented in Non-Conformance Reports, which, where appropriate, are included within this analytical report. Additional comments related to specific analytical tests may be included as remarks following the analytical results for each sample. Such comments and remarks are for informational purposes only and are not intended to convey judgement about the usability of the reported data.

A quality control report on the performance of the test method for the submitted samples is included. Uncertainty associated with the analytical results contained in this report can be estimated from the reported quality assurance results and from published quality control acceptance limits for each analytical test. Matrix quality control results (matrix spike recoveries and matrix sample precision) pertain only to the matrix sample tested and do not necessarily reflect test method performance for other samples.

Typical matrix quality control (QC) measurements may include matrix spike recovery, matrix spike duplicate recovery, matrix spike precision and matrix sample precision. Not all matrix QC results may be available or reportable; where they are not an explanation is provided. Typical reasons for unavailable QC results include, but are not limited to, a) insufficient matrix sample to perform some or all QC measurements; b) analyte concentration in the sample replicated was too low for a meaningful measurement of precision and c) analyte concentration in the matrix sample spiked was too high (relative to the amount of analyte spiked) for a meaningful measurement of recovery. Where matrix QC results are unavailable, other method performance metrics (e.g., LCS recovery, LCS precision, surrogate recovery) may be used to assess performance of the method. Comments explaining any missing QC measurements are not intended to convey any adverse conclusions about the quality of the reported data.

Precision is reported as relative percent difference unless otherwise noted.

Quality Control codes as defined below may be used in this report to indicate results that are associated with one or more quality control elements which did not fall within established test method criteria. Such results may be qualified as estimates using a J qualifier as required by 62-160 F.A.C. Explanations are included in the report for any results that were reported as estimates for other reasons.

QC Codes used in this report may include:

- LCS – Recovery for the batch Laboratory Control Sample (LCS) was outside existing control limits;
- MS – Recovery for the batch matrix spike (MS) was outside existing control limits;
- CCV – Recovery for a continuing calibration verification (CCV) standard was outside existing control limits;
- SUR – Recovery of a surrogate (SUR) for associated analytes was outside existing control limits;
- RPD – The precision, measured as relative percent difference (RPD), of batch replicate measurements was outside existing control limits;
- RSD – The precision, measured as relative standard deviation (RSD), of batch replicate measurements was outside existing control limits;
- SMP – Sample - used precision derived from replicate analyses of a sample;

The following data qualifiers are used, where applicable, in this report as specified in 62-160 F.A.C.

- A - Value reported is the mean of two or more determinations.
- B - Results based on colony counts outside the acceptable range.
- I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J - Estimated value and/or the analysis did not meet established quality control criteria.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- N - Presumptive evidence of presence of material.
- O - Sampled, but analysis lost or not performed.
- Q - Sample held beyond normal holding time.
- T - Value reported is less than the criterion of detection.
- U - Material was analyzed for but not detected. The reported value is the method detection limit for the sample analyzed.
- V - Analyte was detected in both sample and method blank.
- X - Too few individuals to calculate SCI value.
- Y - The laboratory analysis was from an unpreserved or improperly preserved sample. The data may not be accurate.
- Z - Colonies were too numerous to count (TNTC).

Quality control information from overflow laboratories may not be included in this report. Please refer to the associated report from the overflow laboratory for additional information.

Sample Location: Caloosahatee River- Barron Park Labelle

Collection Date/Time: 05/26/2021 09:40

Field ID: HAB-SD-052621-001

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2250536	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P398901	
		Cylindrospermopsin	0.10	U	ug/L	P398901	
		Desmethyl microcystin LR	0.25	U	ug/L	P398901	
		Microcystin HIR**	0.25	U	ug/L	P398901	
		Microcystin HtyR**	0.25	U	ug/L	P398901	
		Microcystin LA	0.10	U	ug/L	P398901	
		Microcystin LF	0.10	U	ug/L	P398901	
		Microcystin LR	0.63	I	ug/L	P398901	
		Microcystin LW	0.25	U	ug/L	P398901	
		Microcystin LY	0.10	U	ug/L	P398901	
		Microcystin RR	0.10	U	ug/L	P398901	
		Microcystin WR	0.50	U	ug/L	P398901	
		Microcystin YR	0.25	U	ug/L	P398901	
		Nodularin-R**	0.10	U	ug/L	P398901	
2250546	EPA 350.1 Rev. 2.0	Ammonia-N	0.014		mg N/L	P399307	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.7		mg N/L	P399711	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.007	I	mg N/L	P398984	
	EPA 365.1 Rev. 2.0	Total-P	0.090		mg P/L	P398973	
2250548	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.006	I	mg P/L	P398938	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Sample Location: Caloosahatchee - Canal at Casaly Dr.

Collection Date/Time: 05/26/2021 13:50

Field ID: HAB-SD-052621-002

Matrix: W-SURF-FRH

Sample ID	Ref. Method	Component	Result	Code	Units	Batch ID	QC Codes
2250537	EPA 8321B	Anatoxin-a	0.25	U	ug/L	P398901	
		Cylindrospermopsin	0.10	U	ug/L	P398901	
		Desmethyl microcystin LR	0.25	U	ug/L	P398901	
		Microcystin HilR**	0.25	U	ug/L	P398901	
		Microcystin HtyR**	0.25	U	ug/L	P398901	
		Microcystin LA	0.10	U	ug/L	P398901	
		Microcystin LF	0.10	U	ug/L	P398901	
		Microcystin LR	1.2		ug/L	P398901	
		Microcystin LW	0.25	U	ug/L	P398901	
		Microcystin LY	0.10	U	ug/L	P398901	
		Microcystin RR	0.10	U	ug/L	P398901	
		Microcystin WR	0.50	U	ug/L	P398901	
		Microcystin YR	0.25	U	ug/L	P398901	
		Nodularin-R**	0.10	U	ug/L	P398901	
2250547	EPA 350.1 Rev. 2.0	Ammonia-N	0.012		mg N/L	P399307	
	EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	1.5		mg N/L	P399711	
	EPA 353.2 Rev. 2.0	NO2NO3-N	0.004	U	mg N/L	P398984	
	EPA 365.1 Rev. 2.0	Total-P	0.15		mg P/L	P398973	
2250549	EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	0.039		mg P/L	P398938	

Ref. Method and Comment:

EPA 351.2 Rev. 2.0: Batch matrix spike recoveries are unavailable because of high analyte concentration in the QC sample.

Quality Assurance Report Method Blank Results

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399307

Component	Result	Code	Units
Ammonia-N	0.002	U	mg N/L

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

Component	Result	Code	Units
Kjeldahl Nitrogen	0.080	U	mg N/L

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398984

Component	Result	Code	Units
NO2NO3-N	0.004	U	mg N/L

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398973

Component	Result	Code	Units
Total-P	0.002	U	mg P/L

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398938

Component	Result	Code	Units
O-Phosphate-P	0.004	U	mg P/L

Reference Method: EPA 8321B
Batch ID: P398901

Component	Result	Code	Units
Anatoxin-a	0.25	U	ug/L
Cylindrospermopsin	0.10	U	ug/L
Desmethyl microcystin LR	0.25	U	ug/L
Microcystin HIR	0.25	U	ug/L
Microcystin HtyR	0.25	U	ug/L
Microcystin LA	0.10	U	ug/L
Microcystin LF	0.10	U	ug/L
Microcystin LR	0.25	U	ug/L
Microcystin LW	0.25	U	ug/L
Microcystin LY	0.10	U	ug/L
Microcystin RR	0.10	U	ug/L
Microcystin WR	0.50	U	ug/L
Microcystin YR	0.25	U	ug/L
Nodularin-R	0.10	U	ug/L

Quality Assurance Report Laboratory Control Sample Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399307

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Ammonia-N	97.0		P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Kjeldahl Nitrogen	107		P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398984

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
NO2NO3-N	100		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398973

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Total-P	103		P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398938

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
O-Phosphate-P	100		P	90 - 110

Reference Method: EPA 8321B
Batch ID: P398901

Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
Anatoxin-a	100		P	40 - 150
Cylindrospermopsin	98.6		P	40 - 150
Desmethyl microcystin LR	79.4		P	40 - 150
Microcystin HIR	88.3		P	40 - 150
Microcystin HtyR	87.7		P	40 - 150
Microcystin LA	92.9		P	40 - 150
Microcystin LF	91.4		P	40 - 150
Microcystin LR	66.9		P	40 - 150
Microcystin LW	93.1		P	40 - 150
Microcystin LY	85.3		P	40 - 150
Microcystin RR	88.3		P	40 - 150
Microcystin WR	92.5		P	40 - 150
Microcystin YR	94.8		P	40 - 150
Nodularin-R	84.8		P	40 - 150

Quality Assurance Report Matrix Spike Accuracy

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399307

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250473	Ammonia-N	97.2	98.6	P/P	90 - 110

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398984

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250473	NO2NO3-N	99.4	99.4	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398973

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250275	Total-P	104	105	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398938

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250553	O-Phosphate-P	96.9	97.7	P/P	90 - 110

Reference Method: EPA 8321B
Batch ID: P398901

Spiked Sample	Component	% Rec.1	% Rec.2	Pass/Fail	Control Limits
2250517	Anatoxin-a	113	109	P/P	40 - 150
2250517	Cylindrospermopsin	99.8	99.0	P/P	40 - 150
2250517	Desmethyl microcystin LR	87.6	84.4	P/P	40 - 150
2250517	Microcystin HilR	103	96.7	P/P	40 - 150
2250517	Microcystin HtyR	99.5	95.6	P/P	40 - 150
2250517	Microcystin LA	97.9	94.0	P/P	40 - 150
2250517	Microcystin LF	91.2	85.0	P/P	40 - 150
2250517	Microcystin LR	81.4	77.4	P/P	40 - 150
2250517	Microcystin LW	98.7	94.9	P/P	40 - 150
2250517	Microcystin LY	88.8	88.3	P/P	40 - 150
2250517	Microcystin RR	101	99.3	P/P	40 - 150
2250517	Microcystin WR	109	103	P/P	40 - 150
2250517	Microcystin YR	107	104	P/P	40 - 150
2250517	Nodularin-R	98.9	103	P/P	40 - 150

Quality Assurance Report Precision

Reference Method: EPA 350.1 Rev. 2.0
Batch ID: P399307

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250473	Ammonia-N	1.23	Spike	P	0 - 20

Reference Method: EPA 351.2 Rev. 2.0
Batch ID: P399711

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2253743	Kjeldahl Nitrogen	2.16	Spike	P	0 - 20

Reference Method: EPA 353.2 Rev. 2.0
Batch ID: P398984

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250473	NO2NO3-N	0.0	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0
Batch ID: P398973

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250275	Total-P	0.473	Spike	P	0 - 20

Reference Method: EPA 365.1 Rev. 2.0 dissolved
Batch ID: P398938

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250553	O-Phosphate-P	0.822	Spike	P	0 - 20

Reference Method: EPA 8321B
Batch ID: P398901

Replicated Lab Sample	Component	% RSD/RPD	Sample/Spike/LCS*	Pass/Fail	Control Limits
2250517	Anatoxin-a	3.25	Spike	P	0 - 30
2250517	Cylindrospermopsin	0.832	Spike	P	0 - 30
2250517	Desmethyl microcystin LR	3.70	Spike	P	0 - 30
2250517	Microcystin HtIR	6.23	Spike	P	0 - 30
2250517	Microcystin HtyR	3.99	Spike	P	0 - 30
2250517	Microcystin LA	4.08	Spike	P	0 - 30
2250517	Microcystin LF	7.01	Spike	P	0 - 30
2250517	Microcystin LR	5.04	Spike	P	0 - 30
2250517	Microcystin LW	3.94	Spike	P	0 - 30
2250517	Microcystin LY	0.537	Spike	P	0 - 30
2250517	Microcystin RR	2.10	Spike	P	0 - 30
2250517	Microcystin WR	6.15	Spike	P	0 - 30
2250517	Microcystin YR	2.84	Spike	P	0 - 30
2250517	Nodularin-R	3.76	Spike	P	0 - 30

Quality Assurance Report Precision

* Sample, spike and/or laboratory control sample precision (LCS) is reported.

Quality Assurance Report Surrogates

Lab Sample ID: 2250536
Field Sample ID: HAB-SD-052621-001

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	87.5	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	104	P	30 - 160

Lab Sample ID: 2250537
Field Sample ID: HAB-SD-052621-002

Reference Method	Surrogate	% Rec.	Pass/Fail	Control Limits
EPA 8321B	Microcystin LR-d7	86.9	P	30 - 160
EPA 8321B	Microcystin LR ethyl-d5	100	P	30 - 160

Quality Assurance Report Calibration Verification

Reference Method: EPA 365.1 Rev. 2.0 dissolved

Run ID: A105742

Included Lab Sample IDs: 2250548, 2250549

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
O-Phosphate-P	99.4	100	P/P	90 - 110

Reference Method: EPA 8321B

Run ID: A105745

Included Lab Sample IDs: 2250536, 2250537

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Anatoxin-a	116	112	P/P	50 - 160
Cylindrospermopsin	108	102	P/P	50 - 160
Desmethyl microcystin LR	89.1	80.6	P/P	50 - 160
Microcystin HIR	98.8	92.6	P/P	50 - 160
Microcystin HtyR	99.7	88.8	P/P	50 - 160
Microcystin LA	108	91.7	P/P	50 - 160
Microcystin LF	97.6	92.3	P/P	50 - 160
Microcystin LR	82.5	70.0	P/P	50 - 160
Microcystin LW	98.7	84.0	P/P	50 - 160
Microcystin LY	95.0	81.9	P/P	50 - 160
Microcystin RR	103	95.7	P/P	50 - 160
Microcystin WR	100	93.8	P/P	50 - 160
Microcystin YR	99.9	94.2	P/P	50 - 160
Nodularin-R	94.7	86.7	P/P	50 - 160

Reference Method: EPA 353.2 Rev. 2.0

Run ID: A105761

Included Lab Sample IDs: 2250546, 2250547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
NO2NO3-N	102	101	P/P	90 - 110

Reference Method: EPA 365.1 Rev. 2.0

Run ID: A105778

Included Lab Sample IDs: 2250546, 2250547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Total-P	101	103	P/P	90 - 110

Reference Method: EPA 350.1 Rev. 2.0

Run ID: A105920

Included Lab Sample IDs: 2250546, 2250547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Ammonia-N	97.6	97.3	P/P	90 - 110

Reference Method: EPA 351.2 Rev. 2.0

Run ID: A106117

Included Lab Sample IDs: 2250546, 2250547

Component	% Rec.1	% Rec.2	Pass/Fail*	Control Limits
Kjeldahl Nitrogen	101	99.1	P/P	90 - 110
Kjeldahl Nitrogen	99.1	91.5	P/P	90 - 110

Quality Assurance Report

Calibration Verification

* Pass/Fail determinations are made for each bracketing calibration verification check.

Control limits for initial calibration checks may be different from those for continuing checks, depending on method requirements.

Where they are different, both control limits are provided.

Quality Assurance Report Summary

Ref. Method	Analyte	LCS % Recovery	MS % Recovery		LCS	Precision	MS
						SMP	
EPA 350.1 Rev. 2.0	Ammonia-N	97.0	97.2	98.6			1.23
EPA 351.2 Rev. 2.0	Kjeldahl Nitrogen	107					2.16
EPA 353.2 Rev. 2.0	NO ₂ NO ₃ -N	100	99.4	99.4			0.0
EPA 365.1 Rev. 2.0	Total-P	103	104	105			0.473
EPA 365.1 Rev. 2.0 dissolved	O-Phosphate-P	100	96.9	97.7			0.822
EPA 8321B	Anatoxin-a	100	113	109			3.25
	Cylindrospermopsin	98.6	99.8	99.0			0.832
	Desmethyl microcystin LR	79.4	87.6	84.4			3.70
	Microcystin HiLR	88.3	103	96.7			6.23
	Microcystin HtyR	87.7	99.5	95.6			3.99
	Microcystin LA	92.9	97.9	94.0			4.08
	Microcystin LF	91.4	91.2	85.0			7.01
	Microcystin LR	66.9	81.4	77.4			5.04
	Microcystin LW	93.1	98.7	94.9			3.94
	Microcystin LY	85.3	88.8	88.3			0.537
	Microcystin RR	88.3	101	99.3			2.10
	Microcystin WR	92.5	109	103			6.15
	Microcystin YR	94.8	107	104			2.84
	Nodularin-R	84.8	98.9	103			3.76

Reference Method Descriptions

Method	Description	<u>Associated Samples</u>
EPA 350.1 Rev. 2.0	Ammonia in aqueous matrices as mg N/L	2250546, 2250547
EPA 351.2 Rev. 2.0	Total Kjeldahl Nitrogen in aqueous matrices	2250546, 2250547
EPA 353.2 Rev. 2.0	Nitrite/Nitrate in aqueous matrices as mg N/L	2250546, 2250547
EPA 365.1 Rev. 2.0	Total Phosphorus in aqueous matrices as mg P/L	2250546, 2250547
EPA 365.1 Rev. 2.0 dissolved	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	2250548, 2250549
EPA 8321B	Microcystins in water matrices by HPLC/MS/MS	2250536, 2250537

Preparation and Analysis Log

Ref. Method	Received Date	Prep Date/Time	Prepared By	Analysis Date/Time	Analyzed By	Associated Samples
EPA 350.1 Rev. 2.0	05/27/2021			06/07/2021 13:48	Ping Hua	2250546
	05/27/2021			06/07/2021 13:49	Ping Hua	2250547
EPA 351.2 Rev. 2.0	05/27/2021	06/15/2021 14:13	Benjamin T. Nordmann	06/16/2021 12:56	Virginia P. Brown	2250546
	05/27/2021	06/15/2021 14:13	Benjamin T. Nordmann	06/16/2021 13:01	Virginia P. Brown	2250547
EPA 353.2 Rev. 2.0	05/27/2021			05/28/2021 09:33	Beverly Y. Sanders	2250546
	05/27/2021			05/28/2021 09:34	Beverly Y. Sanders	2250547
EPA 365.1 Rev. 2.0	05/27/2021	05/28/2021 13:30	Yen Ta	05/28/2021 16:21	Shengyu Ding	2250546
	05/27/2021	05/28/2021 13:30	Yen Ta	05/28/2021 16:22	Shengyu Ding	2250547
EPA 365.1 Rev. 2.0 dissolved	05/27/2021			05/27/2021 15:27	Blanca Fach	2250548
	05/27/2021			05/27/2021 15:28	Blanca Fach	2250549
EPA 8321B	05/27/2021	05/27/2021 11:30	Pramila Ghimire	05/27/2021 14:13	Pramila Ghimire	2250536
	05/27/2021	05/27/2021 11:30	Pramila Ghimire	05/27/2021 14:30	Pramila Ghimire	2250537