



Central Environmental Authority
Water Quality Monitoring Laboratory

	Date of issued	2022-11-15	Prepared by	DQM
	Issue No	02	Reviewed by	TM
Title :Information for customer	Date of Revised	-	Approved by	D/LS
ID No : WQL/DC/7.1.1-.01/01	Revision No	00	Issued by	QM

Instruction provide to customer for requesting an analytical report from CEA laboratory


- 01 Submission of the customer request
- 1.1 Formats In writing through Standard format of CEA Laboratory in English/Sinhala/or personnel letter
- 1.2 To whom Director/Laboratory services
- 1.3 Mode of submission By post, Email, fax or by hand
- 02 Industrial details - Pl write
- 2.1 Name and address of the sampling location
- 2.2 Fax NO
- 2.3 Email
- 2.4 Telephone Number of the relevant personnel to be contact for reviewing of request
- 03 Purpose of requirements For EPL/ renewal of EPL/ Monitoring / Complain /Any other except private court cases.
- 04 Type of sample -Pl Strike off inapplicable wordings
- 4.1 Drinking water
- 4.2 Industrial Effluent
- 4.3 Surface waters
- 05 Selection of Analysis parameter- Pl Strike off inapplicable wordings
- 5.1 Drinking water and surface water Refer Annexure I – item 1.1 & 1.2 to select the parameters
- 5.2 Industrial effluent Refer Annexure I – item 2.1- 2.5 to select the parameters
- 06 Key point to select the parameter
- 6.1 Discharge standard quality given in EPL Refer Annexure 1 item 2.1-2.5 for more details
- 07 Standard to be compared - Pl Strike off inapplicable wordings
- 7.1 Industrial Effluent Discharge standard quality given in EPL (Inland surface waters/Irrigation/ Marine Coastal Waters etc
- 7.2 Drinking water SLSI 614 :2013

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- 7.3 Raw water use as source for preparing drinking water after treatment- SLSI 722 :1985
- 7.4 Ambient Water quality standards No 2148/20-2019-11-05 drinking/Bathing/Fish and Aquatic.
- 8.0 Working hours/Days of the industry Pl write (If It is an Industrial effluent).
- 9.0 Easiest way to reach to the industry/Sampling Location Pl write
- 10.0 Further information to the customer
- 10.1 Cost, test methods and suitable container for collection of sample for different parameters Refer Annexure II
The test cost per sample is given excepts transport and government taxes and overhead
- 11 Mode of payment
- 11.1 By cash Finance division of CEA, Central Environmental Authority at Battramulla before 3.00 pm in all week days except public holidays
- 11.2 Cheques Should be written in favor of Chairman of Central Environmental Authority Account No 0002937303.
- 12.0 Submission of the Payment Receipts
- 12.1 In case of payment made directly to CEA finance division Payment receipt (Pink copy) should be submitted to the Laboratory by hand or post or fax or e mail
- 12.1 In case of direct payment to the bank Send a photo copy/Scan copy of the bank receipt to through email (lab417@gmail.com) or by Fax to 011-2872605 or whatsapp to 0715685496by hand to the laboratory
- 13.0 **Sampling**
The Laboratory will make unnoticed sampling after receiving of the payment receipt.

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14.0 Instruction for the client in the case of sample is submitted by client

- 14.1 Sterilize bottle should be collected from the CEA laboratory after payment for microbiological analysis
- 14.2 Sufficient amount of sample should be submitted for other parameters (Minimum - 1L).
- 14.3 Bottle should be filled in half leaving space for microbiological analysis
- 14.4 Clean bottle should be used for the collection of sample for other parameters
- 15.0 Decision Rule on reporting of test results

16 Issuing of the Reports

- 16.1 Time require for issuing the test report Minimum - 14 days after collection for samples (this will be varied with the testing parameters).

17 Any Inquiry on test reports/Other

17.1	Over the phone	
	Director Laboratory Services	011-2124601
	Laboratory	011-2872278
		011-2873447-8
		011-2888999
		011-2124600
	Ext	Director -2299
		Lab Staff -2300-2306
17.2	Through e mail	
	Director (Laboratory Services)	twaw@cea.lk
	CEA Laboratory	lab417@gmail.com

- 18 To improve the quality of service provided by the Water Quality Laboratory of the Central Environment Authority, provide give your comments and suggestions through the application below

https://docs.google.com/forms/d/e/1FAIpQLSeDPP5cKqIK6HrN45U5PrLnxdzY1pvN7JcvpgzlvdSSfOCuqw/viewform?usp=pp_url (for English)


https://docs.google.com/forms/d/e/1FAIpQLScBOV66Um6-buasWs2a_6rys96wtJARFGDJeR5zxhhPSDXfFw/viewform?usp=pp_url (For Sinhala)

If you used mobile phone, scan the QR code and access the Google Form.

(For  English)

(For  Sinhala)

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Annexure I

1.0 Testing provided by CEA laboratory for Drinking and Surface waters

Item NO	Type of samples	Parameter to be monitored
1.1	Drinking water	pH , EC Turbidity Temperature, COD, TDS ,O & G, Phosphate, Nitrate ,Chloride, Fluoride ,Heavy Metals Total Coliform and fecal Coliform Total Hardness, Ammonical Nitrogen, Nitrite ,Alkalinity ,Sulphate
1.2	Surface Water	pH , EC Turbidity Temperature, COD, TSS ,O & G, Phosphate, Nitrate ,Chloride, Fluoride Heavy Metals Microbiology(TC and FC) ,Total Hardness, Ammonical Nitrogen, Nitrite ,Alkalinity ,Sulphate

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Annexure II


2.0 Industrial Effluent -

Test Parameters should be selected as per the Discharge Standard specified in the EPL

Item NO	Approved water source/place where effluent is discharged as per Environmental Protection Licenses	Parameter to be monitored
2.1	Inland Surface water	TSS,TDS ,pH , BOD ₅ , Temperature, O & G, COD, Color ,Dissolved Phosphate, Total Kjeldhal Nitrogen, Ammonical Nitrogen , , Residual Chlorine ,Fluoride , Sulphide ,Heavy Metals** Microbiology (fecal Coliform) , EC ,Turbidity , Color and Nitrate
2.2	Near Shore Waters	TSS,TDS , pH , BOD ₅ ,Temperature, O & G, COD, , Residual Chlorine ,Sulphide, Heavy Metals**, Microbiological parameters (Fecal Coliform) ,Sulphide and Color
2.3	Short and long Sea Outfalls Waters	TSS,TDS pH, BOD ₅ O & G, Temperature COD, Chloride, Sulphate Boron, Dissolved Phosphate , Ammonical Nitrogen, Total Residual,Chlorine,,Sulphide , Microbiology (Fecal Coliform) ,Heavy Metals**, Color
2.4	Coastal Waters	TSS,TDS ,pH, BOD ₅ O & G, Temperature COD, Dissolved Phosphate , Ammonical Nitrogen, Total Residual Chlorine,,Sulphide,, Microbiology (Fecal Coliform) Sulphide , Microbiology (Fecal Coliform) Heavy Metals**, Color
2.5	Discharged on Irrigation Lands	TDS ,pH, EC ,BOD ₅ O & G, Temperature, COD, Chloride ,Sulphate ,Boron, Heavy Metals**, Sodium Absorption Ratio ,Microbiology (Fecal Coliform) ,Turbidity, Temperature, Nitrate
2.6	Common waste water treatment plant	TSS, TDS pH, Temperature, BOD ₅ , COD ,Total Kjeldhal Nitrogen, , Total Residual Chlorine ,Chloride Sulphide , Sulphate Heavy Metals**, , O & G, EC, Turbidity
2.7	Leachate form Landfill site	TSS, pH, Temperature, BOD ₅ , COD ,Total Nitrogen, , Ammonical Nitrogen Total phosphate ,as P Heavy Metals**,

Note** The requested heavy metal should be compatible with raw material use for the industrial process

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Annexure II

4.0 Cost and test methods and require parameters for different sample types


SN	Parameter to be monitored	Cost per sample / Rs	Method	Minimum Volume Required	Bottle Use
1.0	** pH, EC Turbidity Temperature	650.00	APHA4500 H + B	100 ml	Glass Bottles
			APHA2510-B		
			APHA2550-B		
			APHA 2130 B		
2.0	** COD- Open reflux	1200.00	APHA 5220-B	100 ml	Glass Bottles
3.0	COD Closed reflux	1200.00	APHA 5220-D	100 ml	Glass Bottles
4.0	(BOD)	1200	APHA 5210- B	500 ml	BOD Bottles
5.0	**TSS	650.00	APHA 2540 D	400 ml	Glass Bottles
6.0	**TDS	650.00	APHA 2540- C	400 ml	Glass Bottles
7.0	TS	650.00	APHA 2540-B	400 ml	Glass Bottles
8.0	O & G	1600.00	APHA 5520 -B	400 ml effluent 1000ml Drinking water	Wide mouth glass bottle
9.0	Dissolved Oxygen	400.00	APHA 4500- C	250 ml	Glass Bottles
10.0	Sulphide Gravimetric)	750.00	APHA 4500S ² - F	500 ml	Glass Bottles
11.0	Sulphate	1200.00	APHA 3500 -B	100 ml	Glass Bottles
12.0	Residual Chlorine	500.00	APHA 4500-B	100 ml	Glass Bottles
13.0	Total free Chlorine	500.00	APHA 4500-B	100 ml	Glass Bottles
14.0	Ammonia	800.00	APHA 4500NH ₃ C	250 ml	Glass Bottles
15.0	**Nitrate (ISE)	1200.00	APHA 4500NO ₃ ⁻ D	250 ml	Glass Bottles

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SN	Parameter to be monitored	Cost per sample / Rs	Method	Minimum Volume Required	Bottle Use
16.0	Nitrate colorimetric	800.00	APHA 418D, APHA 4500NO ₃ ⁻ B	250 ml	Glass Bottles
17	Nitrite Colorimetric	600.00	APHA 4500 NO ₂ ⁻ - B, APHA 419	100 ml	Glass Bottles
18	Total Nitrogen	800.00	APHA 4500 NO ₃ ⁻ - B, APHA 4500 NO ₂ ⁻ -B, APHA 419, APHA 4500N _{org} B	250 ml	Glass Bottles
19	Kjeldhal Nitrogen	800.00	APHA 4500N _{org} B	250 ml	Glass Bottles
20	**Dissolved Phosphate)	800.00	APHA 4500-P E	100 ml	Glass Bottles
21	** Total Phosphate	1600.00	APHA 4500-P E	100 ml	Glass Bottles
22	Phenol	800.00	APHA 5530 D	1000 ml	Glass Bottles
23	Bicarbonate Alkalinity	500.00	APHA 2320 B	300 ml	Glass Bottles
23	** Total Hardness	500.00	APHA 2340 C	300 ml	Glass Bottles
24.	Total Coliform	800.00	APHA 9221 E	250 ml	Wide mouth glass bottle
25	Fecal coliform	800.00	APHA 9221 E	250 ml	Wide mouth glass bottle
26.	Calcium	1500.00	APHA 3500-Ca B	100 ml	Polypropylene bottle
27	Magnesium	1500.00	APHA 3500-Mg B	100 ml	Polypropylene bottle
28	Fluoride	500.00	APHA 4500 D	100 ml	Glass Bottles
29	**Chloride Titrimetric	1200.00	APHA 4500 B	300 ml	Glass Bottles
30	Color	575.00	ISO7887-2011-E	100 ml	Glass Bottles

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SN	Parameter to be monitored	Cost per sample / Rs	Method	Minimum Volume Required	Bottle Use
31	Total Iron	1450.00	APHA 3111-Fe B	100 ml	Polypropylene bottle
32	Aluminum	2200.00	APHA 3111 Al-B	100 ml	Polypropylene bottle
33	Chromium	1450.00	APHA 3111-Cr B	100 ml	Polypropylene bottle
34	Manganese	1450.00	APHA 3111-Mn B	100 ml	Polypropylene bottle
35	Copper	1450.00	APHA 3111-Cu B	100 ml	Polypropylene bottle
36	Lead	1450.00	APHA 3111-Pb B	100 ml	Polypropylene bottle
37	Zinc	2200.00	APHA 3111 -Zn B	100 ml	Polypropylene bottle
38	Nickel	2200.00	APHA 3111-Ni B	100 ml	Polypropylene bottle
39	Arsenic	2400.00	APHA 3111-As B	100 ml	Polypropylene bottle
40	Boron	1450.00	APHA 3111-B B	100ml	Polypropylene bottle
41	Cadmium	2200.00	APHA 3111-B B	100ml	Polypropylene bottle
42	Hg	2400.00	APHA 3111-B B	100ml	Polypropylene bottle
43	Sodium	1500.00	APHA 3111-B B	100ml	Polypropylene bottle
44	Potassium	1500.00	APHA 3111-B B	100ml	Polypropylene bottle
45	Sodium Absorption ratio	2400.00	APHA 2340 C		

** - ISO/IEC 17025:2017 Accredited Test