



Announcement of Prince of Songkla University

Subject: Testing and other services fee of Office of Scientific Instrument and Testing

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To provide academic services, testing and other services of Office of Scientific Instrument and Testing, for smooth operation and in compliance, Board of Directors Office of Scientific Instrument and Testing Meeting special agenda no. 2/2023 dated August 15, 2023 reach the conclusion agree to charge the testing and others services fee as attached file

Any announcements which contradict with this announcement, this announcement is to be used instead. This announcement is effective from 1 October 2023 on.

Announced on

13 SEP 2023

(Assoc. Prof. Dr. Niwet Arunberkfa)

Director of Office of Human Resource Development and Social Engagement
Acting for President of Prince of Songkla University

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทดสอบคุณสมบัติทางกายภาพ

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	BET01	Analysis of surface area by physisorption method (range of P/P ₀ : 0.05-0.3, 80-100 points)	Per sample	1,200	1,200	15 working days	> 0.5 g	<ol style="list-style-type: none"> 1. Sample has melting point and decomposes at < 150 °C or biological material sample may be get result with lower number of point than recommendation. 2. Charge of tube with sample melt in tube 3. Homogeneous sample 4. In the case of activated carbon samples, we test only samples without tar oil.
2	BET02	Analysis of surface area and porosity by physisorption method (multi point > 120 points)	Per sample	2,300	2,300	15 working days	> 0.5 g	<ol style="list-style-type: none"> 1. Sample has melting point and decomposes at < 150 °C or biological material sample may be get result with lower number of point than recommendation. 2. Charge of tube with sample melt in tube 3. Homogeneous sample 4. In the case of activated carbon samples, we test only samples without tar oil.
3	BET03	Analysis of surface area and porosity by physisorption method (micro pore range)	Per sample	4,500	4,500	15 working days	> 0.5 g	<ol style="list-style-type: none"> 1. Sample has melting point and decomposes at < 150 °C or biological material sample may be get result with lower number of point than recommendation. 2. Charge of tube with sample melt in tube 3. Homogeneous sample 4. In the case of activated carbon samples, we test only samples without tar oil.
4	BET04	Analysis of surface area by physisorption method (range of P/P ₀ : 0.05-0.3, 10-20 points)	Per sample	600	600	15 working days	> 0.5 g	<ol style="list-style-type: none"> 1. Sample has melting point and decomposes at < 150 °C or biological material sample may be get result with lower number of point than recommendation. 2. Charge of tube with sample melt in tube 3. Homogeneous sample 4. In the case of activated carbon samples, we test only samples without tar oil.
5	BET05	Sample preparation charge for non- optimized sample to analyze	Per sample	300	300	15 working days	> 0.5 g	<ol style="list-style-type: none"> 1. Charge of tube with sample melt in tube 2. Homogeneous sample
6	BET06	Analysis of 1 point surface area by physisorption method	Per sample	400	400	15 working days	> 1 g	<ol style="list-style-type: none"> 1. The sample must be dry. 2. Customer must specify temperature that make sample decompose. 3. In case of charcoal sample, customer must specify type of materials and temperature used to burn the materials to produce charcoal.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
7	Density01	Density at various temperature	Per sample	600	600	5 working days	> 10 mL	<ol style="list-style-type: none"> 1. It can not test for viscous and easy aggregated samples such as latex, honey, and gel and suspension samples etc. 2. The customers have to identify temperature for testing in the range of 0 °C - 95 °C. 3. The price depends on the number of temperatures. 4. The sample contains in a closed container.
8	Density02	Specific gravity at various temperature	Per sample	600	600	5 working days	> 10 mL	<ol style="list-style-type: none"> 1. It can not test for viscous and easy aggregated samples such as latex, honey, and gel and suspension samples etc. 2. The customers have to identify temperature for testing in the range of 0 °C - 95 °C. 3. The price depends on the number of temperatures. 4. The sample contains in a closed container.
9	DMA01	Test of physical property of material with temperature 25°C-500 °C	Per sample	595	850	7 working days	size 2-8 mm x 35 mm x (< 3 mm)	Test 1 time
10	DMA02	Test of physical property of material with temperature (-150)°C-500 °C (Using liquid nitrogen)	Per sample	1,190	1,700	10 working days	size 2-8 mm x 35 mm x (< 3 mm)	Test 1 time
11	DMA03	Test of physical property of material with temperature 25°C-500 °C (Using water)	Per sample	595	850	7 working days	size 2-8 mm x 35 mm x (< 3 mm)	Test 1 time
12	DMA04	Test of physical property of material with temperature (-150)°C-500 °C (Using solvent)	Per sample	1,190	1,700	10 working days	size 2-8 mm x 35 mm x (< 3 mm)	Test 1 time
13	DSC03A	Analysis of physical properties of materials (rate ≥ 5 °C/min) for using liquid N ₂ from -170 °C to 180 °C.	Per sample	1,020	1,700	7 working days	> 10 mg	<ol style="list-style-type: none"> 1. Contact for range of testing 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
14	DSC03B	Test of physical properties of materials (rate < 5 °C/min) for using liquid N ₂ from -170 °C to 180 °C.	Per sample	3,060	5,100	10 working days	> 10 mg	1. Contact for range of testing 2. Extra charge 500 baht/ sample with single test for high pressure sample 3. Customer's pan discount 50 baht/sample
15	DSC04A	Analysis of physical properties of materials (rate ≥ 5 °C/min) for using liquid N ₂ from (-170) °C to 450 °C.	Per sample	1,380	2,300	7 working days	> 10 mg	1. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 2. Extra charge 500 baht/ sample with single test for high pressure sample 3. Customer's pan discount 50 baht/sample
16	DSC04B	Analysis of physical properties of materials (rate < 5 °C/min) for using liquid N ₂ from (-170) °C to 450 °C.	Per sample	4,080	6,800	10 working days	> 10 mg	1. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 2. Extra charge 500 baht/ sample with single test for high pressure sample. 3. Customer's pan discount 50 baht/sample
17	DSC05	Analysis of sample for > 4 hrs.	Per sample	2,640	4,400	7 working days	> 10 mg	1. Extra charge 500 baht/ sample with single test for high pressure sample 2. Customer's pan discount 50 baht/sample
18	DSC06	Analysis of melting point of plastic (ASTM D 3418)	Per sample	580	970	6 working days	> 10 mg	Customer's pan discount 50 baht/sample
19	DSC07A	Analysis of physical properties of materials from temperature 20 °C to 600 °C (rate ≥ 5 °C/min)	Per sample	580	970	7 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample
20	DSC07B	Analysis of physical properties of materials from temperature 20 °C to 600 °C (rate	Per sample	650	1,080	10 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample
21	DSC08A	Analysis of physical properties of materials from temperature (-80) °C to 200 °C (rate ≥ 5 °C/min)	Per sample	650	1,080	7 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
22	DSC08B	Analysis of physical properties of materials from temperature (-80) °C to 200 °C (rate < 5 °C/min)	Per sample	840	1,400	10 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample
23	DSC10	Analysis of specific heat capacity	Per sample	650	1,080	7 working days	> 10 mg	
24	DSC9A	Analysis of physical properties of materials from temperature (-80) °C to 600 °C (rate ≥ 5 °C/min)	Per sample	830	1,380	7 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample
25	DSC9B	Analysis of physical properties of materials from temperature (-80) °C to 600 °C (rate < 5 °C/min)	Per sample	1,020	1,700	10 working days	> 10 mg	1. 5-10 samples/day for testing depend on testing condition 2. The appointment date of test results 10 working days in case of testing with rate = 5 °C/min. 3. Extra charge 500 baht/ sample with single test for high pressure sample 4. Customer's pan discount 50 baht/sample
26	LPSA01	Particle size and dispersion in liquid medium	Per sample	560	800	7 working days	> 10 g/ 10 mL	
27	LPSA02	Analysis of particle size and dispersion in air medium	Per sample	700	1,000	7 working days	> 100 g	Dried sample
28	LPSA03	Additional interpretation (additional charge from LPSA01/LPSA02)	Per sample	210	300	7 working days	-	
29	MACROTGA01	Proximate analysis (Moisture, Volatile Matter, Fixed Carbon, Ash) ASTM D7582	Per sample	1,120	1,600	6 working days	> 30 g	
30	MACROTGA02	Analysis of loss of ignition (LOI)	Per sample	700	1,000	6 working days	> 30 g	
31	RHEOMETER01	viscosity	Per sample	700	700	7 working days	> 30 mL	
32	STA01	Determination of weight loss at increased temperature from 30°C to 1,000 °C	Per sample	708	1,180	6 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions. 2. The appointment date 10 working days to receive test result in case of testing with rate ≤ 5 °C/min.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
33	STA02	Quantitative analysis of weight loss at increased temperature from 30°C to 1,000 °C (TGA and DTA)	Per sample	1,160	1,940	10 working days	> 10 mg	
34	STA04	Test of Moisture, Volatile matter, Fix Carbon and Ash	Per sample	960	1,600	6 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions. 2. The appointment date 10 working days to receive test result in case of testing with rate ≤ 5 °C/min.
35	STA05	Quantitative analysis of composition of rubber and rubber product (ISO 9924-1)	Per sample	580	970	6 working days	> 30 mg	
36	TCA01	Analysis of thermal conductivity at room temperature	Per sample	600	1,000	6 working days	> 100 mL/100 g and smooth sheet size not less than 50 mm x 50 mm x 10 mm 2 sheets	
37	TCA02	Analysis of specific heat capacity per volume (volumetric specific heat capacity; Cvol, หน่วย $J K^{-1} m^{-3}$) at room temperature	Per sample	600	1,000	6 working days	> 100 mL/100 g and smooth sheet size not less than 50 mm x 50 mm x 10 mm 2 sheets	Need to analyze density of sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
38	TGA-DSC01	Determination of weight loss at increased temperature from 25 °C to 1,400 °C	Per sample	708	1,180	6 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions. 2. The appointment date 10 working days to receive test result in case of testing with rate < 10 °C/min. 3. Results show TGA and DSC. 4. In case of customer want to get TGA and DSC, the price is 2 times.
39	TGA-DSC02	Quantitative analysis of weight loss at increased temperature from 25 °C to 1,000 °C (TGA and DTA)	Per sample	1,160	1,940	10 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions.
40	TGA-DSC03	Quantitative analysis of weight loss at increased temperature from 25 °C to 1,400 °C (TGA and DTA)	Per sample	1,420	2,360	10 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions.
41	TGA-DSC04	Determination of weight loss at increased temperature from 25 °C to 1,000 °C	Per sample	580	970	7 working days	> 10 mg	1. Able to test 2-4 samples/day depending on the test conditions. 2. The appointment date 10 working days to receive test result in case of testing with rate 3. Results show TGA and DSC. 4. In case of customer want to get TGA and DSC, the price is 2 times.
42	TGA05	New pan damage charge	Per sample	5,000	5,000	0 working days	-	For new pan damage
43	TGA09	Analysis of sample for > 4 hrs.	Per sample	2,640	4,400	6 working days	> 10 mg	The appointment date 10 working days of receive test result in case of testing with rate ≤ 5 °C/min.
44	TGA10	Quantitative analysis of % SBR in natural rubber	Per sample	580	970	6 working days	> 10 mg	
45	TGA11	Quantitative analysis of weight loss at increased temperature from 25°C to 1,000 °C	Per sample	580	970	6 working days	> 10 mg	1. Able to test 2-4 samples/day depending on testing conditions. 2. Arrange the appointment of receive test result 10 working days in case of testing with rate ≤ 5 °C/min.
46	TRUEDENSITY01	Analysis of true density	Per sample	600	600	5 working days	> 10 mg/ 10 uL	Suitable for analysis of sample is not high acid or high base in case of liquid sample.
47	TRUEDENSITY02	Analysis of specific gravity (SG)	Per sample	600	600	5 working days	> 10 mg/ 10 uL	Suitable for analysis of sample is not high acid or high base in case of liquid sample.
48	VISCO01	Viscosity analysis of solution for small volume (uncontrolled temperature)	Per sample	330	550	7 working days	> 20 mL	
49	VISCO03	Viscosity analysis of solution for large volume (uncontrolled temperature)	Per sample	330	550	7 working days	> 600 mL	
50	VISCO04	Viscosity analysis of solution for large volume at temperature 25-40 degree of Celsius	Per sample	490	700	7 working days	> 600 mL	
51	ZETA01	Analysis of size of colloid (aqueous: water and alcohol)	Per sample	660	1,100	7 working days	> 1 g/ 10 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
52	ZETA02	Analysis of size of colloid (non- aqueous: other solvents except water and alcohol)	Per sample	780	1,300	7 working days	> 1 g/ 10 mL	
53	ZETA03	Analysis of zeta potential of colloid (aqueous: water and alcohol)	Per sample	780	1,300	7 working days	> 1 g/ 10 mL	
54	ZETA04	Analysis of zeta potential of colloid (non-aqueous: other solvents except water and alcohol)	Per sample	900	1,500	7 working days	> 1 g/ 10 mL	
55	ZETA07	Analysis of zeta potential of colloid (aqueous: water and alcohol) at various pH (additional charge from ZETA03)	Per point	630	1,040	7 working days	> 25 mL	Scientists consider an appointment date in case of sending > 4 samples.

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทดสอบเพื่อหามวลโมเลกุลและสารประกอบอินทรีย์

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	GC-MS02	Qualitative analysis of organic compounds with screening test (using 1 column)	Per sample	1,800	3,000	8 working days	> 2 mg/ 1 mL	<ol style="list-style-type: none"> 1. Need to homogeneous sample 2. Liquid sample should keep in cold condition 2 °C-10 °C. 3. Solid sample should keep in controlled humidity container. 4. Sample vial must be closed tight lid. 5. Don't allow use para film for closing lid directly or placing under lid 6. Sample vial must be glass. 7. Sample dissolves in non-polar solvents such as hexane and dichloromethane etc. shouldn't contain it in plastic vial.
2	GC-MS03	Qualitative analysis of organic compounds with screening test (using 2 columns)	Per sample	3,360	5,600	8 working days	> 2 mg/ 1 mL	<ol style="list-style-type: none"> 1. Need to homogeneous sample 2. Liquid sample should keep in cold condition 2 °C-10 °C. 3. Solid sample should keep in controlled humidity container. 4. Sample vial must be closed tight lid. 5. Don't allow use para film for closing lid directly or placing under lid 6. Sample vial must be glass. 7. Sample dissolves in non-polar solvents such as hexane and dichloromethane etc. shouldn't contain it in plastic vial.
3	GC-MS04	Quantitative analysis of 1 organic compound	Per sample	3,800	3,800	10 working days	> 2 mg/ 10 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	GC-MS05	Quantitative analysis of > 1 organic compound (additional charge from GC-MS04)	Per compound	1,000	1,000	10 working days	> 2 mg/ 10 mL	
5	GC-MS06	Qualitative analysis of hydrocarbon compounds in soil, sand and water	Per sample	2,450	3,500	8 working days	Soil and sand > 100 g, water > 1 L	
6	GC-MS08	Qualitative analysis of lauric acid	Per sample	1,800	3,000	8 working days	> 2 g	
7	GC-MS09	Qualitative analysis of wood vinegar	Per sample	1,800	3,000	8 working days	> 1 mL	<ol style="list-style-type: none"> 1. Need to homogeneous sample 2. Liquid sample should keep in cold condition 2 °C-10 °C. 3. Solid sample should keep in controlled humidity container. 4. Sample vial must be closed tight lid. 5. Don't allow use para film for closing lid directly or placing under lid 6. Sample vial must be glass. 7. Sample dissolves in non-polar solvents such as hexane and dichloromethane etc. shouldn't contain it in plastic vial.
8	GC-MS11	Qualitative analysis of essential oil	Per sample	1,800	3,000	8 working days	> 1 mL	<ol style="list-style-type: none"> 1. Need to homogeneous sample 2. Liquid sample should keep in cold condition 2 °C-10 °C. 3. Solid sample should keep in controlled humidity container. 4. Sample vial must be closed tight lid. 5. Don't allow use para film for closing lid directly or placing under lid 6. Sample vial must be glass. 7. Sample dissolves in non-polar solvents such as hexane and dichloromethane etc. shouldn't contain it in plastic vial.
9	GC-MS14	Qualitative analysis of organic compounds with pyrolyzer (direct EGA)	Per sample	1,500	1,500	8 working days	> 10 mg/ 1 mL	
10	GC-MS15	Quantitative analysis of 1 organic compound with pyrolyzer	Per sample	5,000	5,000	8 working days	> 10 mg/ 1 mL	
11	GC-MS16	Quantitative analysis of > 1 organic compound with pyrolyzer (Additional charge from GC-MS15)	Per compound	1,000	1,000	10 working days	> 10 mg/ 1 mL	
12	GC-MS17	Qualitative analysis of 6PPD	Per sample	1,800	3,000	8 working days	> 2 g	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	GC-MS18	Qualitative analysis of organic compounds with pyrolyzer (heart-cut EGA) 2 zone	Per sample	4,300	4,300	8 working days	> 10 mg/ 1 mL	
14	GC-MS19	Qualitative analysis of organic compounds with pyrolyzer (heart-cut EGA) > 2 zone (Addition charge from GC-MS18 per zone)	per zone	1,000	1,000	8 working days	> 10 mg/ 1 mL	
15	GC-MS20	Qualitative analysis of organic compounds with pyrolyzer (single shot)	Per sample	3,000	3,000	8 working days	> 10 mg/ 1 mL	
16	GC-MS21	Qualitative analysis of organic compounds with pyrolyzer (double shot)	Per sample	4,300	4,300	8 working days	> 10 mg/ 1 mL	
17	GC-MSMS01	Qualitative analysis of organic compounds with GC-MS couple of SPME/head space	Per sample	1,920	3,200	8 working days	> 10 mg/ 1 mL	
18	GC-MSMS02	Qualitative analysis of organic compounds with GC-MS-MS	Per sample	1,800	3,000	8 working days	> 10 mg/ 1 mL	
19	GC-MSMS03	Quantitative analysis of 1 organic compound	Per sample	5,200	5,200	10 working days	> 10 mg/ 1 mL	
20	GC-MSMS04	Quantitative analysis of > 1 organic compound (Additional charge from GC-MSMS03)	Per compound	1,000	1,000	10 working days	> 10 mg/ 1 mL	
21	GC-MSMS05	Qualitative analysis of pesticides (organochlorines) in water	Per sample	3,200	3,200	8 working days	> 1 L	1. Need to homogeneous sample 2. Liquid sample should keep in cold condition 2 °C-10 °C. 3. Sample vial must be glass. 4. Don't allow use parafilm for closing lid directly or placing under lid
22	GC-MSMS07	Qualitative analysis of pesticides (organochlorines) in crude palm oil	Per sample	3,200	3,200	8 working days	> 10 mg/ 1 mL	
23	GCXGC TOF-001	Qualitative analysis of organic compound for liquid injection (2D)	Per sample	3,000	3,000	8 working days	> 1 mL/ 10 mg	
24	GCXGC TOF-002	Qualitative analysis of organic compound for SPME fiber injection (2D)	Per sample	3,500	3,500	8 working days	> 2 mL / 2 mg	
25	GCXGC TOF-003	Qualitative analysis of organic compound for SPME fiber injection (2D)	Per sample	3,200	3,200	8 working days	> 2 mL/ 2 mg	Contain sample in tightly closed container
26	GCXGC TOF-004	Qualitative analysis of organic compounds with SPME fiber injection (1D)	Per sample	1,960	2,800	8 working days	> 1 mL/ 10 mg	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
27	GCXGCTOF-005	Qualitative analysis of organic compounds with liquid injection (1D)	Per sample	1,800	3,000	8 working days	> 100 mg/ 1 mL	
28	LC-MSMS01	Qualitative analysis of organic compounds positive or negative mode	Per sample	4,000	4,000	8 working days	> 10 mg/ 1 mL	For customer don't need to analyze with library discount 1,000 baht/sample.
29	LC-MSMS02	Qualitative analysis of organic compounds ionization positive and negative modes	Per sample	6,000	6,000	10 working days	> 10 mg/ 1 mL	For customer don't need to analyze with library discount 2,000 baht/sample.
30	LC-MSMS03	Quantitative analysis of > 1 organic compound (Additional charge from LC-MSMS02 per compound)	Per compound	2,000	2,000	10 working days	> 10 mg/ 1 mL	
31	LC-MSMS04	Molecular mass of organic compound with direct ESI or APCI mode (scan mass or low resolution)	Per sample	1,740	1,740	8 working days	> 1 mg	
32	LC-MSMS05	Analysis of molecular mass of organic compound with direct QTOF ionization positive or negative mode (MS mode)	Per sample	1,740	1,740	8 working days	> 1 mg	
33	LC-MSMS06	Analysis of molecular mass of organic compound with direct QTOF ionization positive and negative modes (MS mode)	Per sample	2,200	2,200	8 working days	> 1 mg	
34	LC-MSMS07	Analysis of molecular mass of organic compound with direct QTOF ionization positive or negative mode (MSMS mode)	Per sample	2,500	2,500	8 working days	> 1 mg	
35	LC-MSMS08	Analysis of molecular mass of organic compound with direct QTOF ionization positive and negative modes (MSMS mode)	Per sample	2,800	2,800	8 working days	> 1 mg	

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทดสอบแยกสารและวิเคราะห์สารประกอบ

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	GC-TEA01	Qualitative analysis of organic compounds	Per sample	2,500	2,500	8 working days	> 10 g/10 mL	1. Service charge does not include preparation charge. 2. Compounds can detect such as nitrosamines, n-nitroso, nitramines, nitroaromatics nitrate esters and nitroalkanes. 3. Ask for more information to R&D.
2	GC-TEA02	Quantitative analysis of organic compounds	Per sample	4,500	4,500	8 working days	> 10 g/10 mL	1. Service charge is not include charge of preparation. 2. Compounds can detect such as nitrosamines, n-nitroso, nitramines, nitroaromatics nitrate esters and nitroalkanes. 3. Ask for more information to R&D.
3	GC-TEA05	Quantitative analysis of nitrosamines and compounds that can be transformed into nitrosamines of rubber product according to EN 12868	Per sample	12,000	12,000	15 working days	> 10 g/10 mL	Compounds can detect such as n-nitroso, nitramines, nitroaromatics nitrate esters and nitroalkanes.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	GC01	Qualitative analysis of organic compounds	Per sample	1,680	2,400	8 working days	> 10 g/ 10 mL	
5	GC02	Quantitative analysis of 1 organic compound	Per sample	2,160	3,600	8 working days	> 10 g/ 10 mL	
6	GC03	Quantitative analysis of > 1 organic compound (Additional charge from GC02)	Per compound	700	1,000	8 working days	> 10 g/ 10 mL	
7	GC04	Semi quantitative analysis of CO ₂ , CH ₄ (methane), N ₂ , & H ₂	Per sample	1,680	2,800	8 working days	> 10 cm ³	Semi quantitative analysis of H ₂ internal price, PSU 960 baht per sample and the price outside PSU 1,600 baht per sample.
8	GC11	Gas bag	Per sample	1,000	1,000	0 working days	-	
9	GC12	Quantitative analysis of ethanol in alcoholic beverage	Per sample	2,520	3,600	8 working days	> 20 mL	Keep sample in closed container
10	GC13	Quantitative analysis of propionic acid in bakery	Per sample	2,520	3,600	8 working days	1 pack	
11	GC14	Quantitative analysis of ethanol in cream (cosmetic)	Per sample	2,240	3,200	8 working days	> 10 g/ 10 mL	Keep sample in low temperature container
12	GC16	Quantitative analysis of fatty acid in oil	Per sample	3,290	4,700	10 working days	> 1 mL	
13	GC17	Test of ratio of fatty acid in oil	Per sample	1,680	2,800	8 working days	> 1 mL	
14	GC19	Test of purity of ethanol	Per sample	2,520	3,600	6 working days	> 20 mL	
15	GC20	Quantitative of ethanol in cleansing products	Per sample	2,520	3,600	8 working days	> 20 mL	
16	GC21	Quantitative analysis of n-hexane in oil	Per sample	1,920	3,200	8 working days	> 20 mL	store in glass container and tightly closed.
17	GC22	Quantitative analysis of iso-propanol in drug tablet	Per sample	1,920	3,200	8 working days	> 20 tablets	packed in tightly container
18	GC23	Quantitative analysis of fluoride (%Wt.) in toothpaste	Per sample	3,600	3,600	11 working days	> 25 g	Contain in a sealed container.
19	GC24	Qualitative analysis of omega fatty acid and other fatty acids in oil	Per sample	5,000	5,000	8 working days	> 5 mL	1. Contain in a sealed container. 2. If the sample is not oil, send it to extract the oil first.
20	GC25	Quantitative analysis of omega fatty acid and other fatty acids in oil	Per sample	6,000	6,000	12 working days	> 5 mL	1. Contained in a sealed container. 2. If the sample is not oil, send it to extract the oil first.
21	GC26	Quantitative analysis of 1 volatile organic acid	Per sample	2,160	3,600	10 working days	> 10 g/ 10 mL	1. Organic acid such as acetic acid, propionic acid, iso-butyric, butyric acid, iso-valeric acid and valeric acid 2. Sample contains in closed container.
22	GC27	Quantitative analysis of > 1 organic acid (Additional charge from GC26)	Per compound	700	1,000	10 working days	> 10 g/ 10 mL	1. Organic acid such as acetic acid, propionic acid, iso-butyric, butyric acid, iso-valeric acid and valeric acid 2. Sample contains in closed container.
23	GC28	Quantitative analysis of Promethazine in drug	Per sample	2,160	3,600	8 working days	> 0.5 g	1. Customers are required to bring own standard substance on the day of sample delivery. 2. Samples are packed in sealed containers.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
24	HPLC01	Qualitative analysis of organic compounds	Per sample	1,120	1,600	8 working days	> 10 g/ 10 mL	
25	HPLC02	Quantitative analysis of 1 organic compound	Per sample	1,920	3,200	8 working days	> 10 g/ 10 mL	
26	HPLC03	Quantitative analysis of 2-4 organic compounds	Per sample	2,520	4,200	8 working days	> 10 g/ 10 mL	
27	HPLC04	Quantitative analysis of > 4 organic compounds (Additional charge from HPLC03)	Per compound	240	400	8 working days	> 10 g / 10 mL	
28	HPLC05	Quantitative analysis of benzoic acid	Per sample	1,920	3,200	8 working days	> 10 g/ 10 mL	
29	HPLC06	Quantitative analysis of benzoic acid & sorbic acid	Per sample	2,520	4,200	8 working days	> 10 g/ 10 mL	
30	HPLC07	Quantitative analysis of xylose/sucrose/fructose/glucose (1 compound)	Per sample	1,920	3,200	8 working days	> 10 g/ 10 mL	1. The solvent in sample must be water only. Does not contain organic solvents, acids and alkalis.
31	HPLC08	Quantitative analysis of glucose, sucrose, fructose and xylose	Per sample	2,520	4,200	8 working days	> 10 g/ 10 mL	1. The solvent in sample must be water only. Does not contain organic solvents, acids and alkalis.
32	HPLC09	Quantitative analysis of adenosine and cordycepin in Cordyceps	Per sample	4,200	4,200	8 working days	> 10 g/ 10 mL	
33	HPLC21	Quantitative analysis of curcumin and alpha-mangostin in extract	Per sample	2,520	4,200	8 working days	> 5 g/ 5 mL	1. Contain in closed container. 2. Customer must have standard compound. 3. Price of testing of 1 compound (curcumin or alpha-mangostin) refers to HPLC02.
34	HPLC22	Quantitative analysis of Kusunokinin and Piperine in pepper extract	Per sample	2,520	4,200	8 working days	> 5 g/ 5 mL	1. Contain in sealed container or protected from light. 2. Customer must have standard compounds. 3. Price of testing of 1 compound (Kusunokinin or Piperine) refers to HPLC02.
35	HPLC23	Quantitative analysis of Gallic acid	Per bag	1,920	3,200	8 working days	> 5 g/ 5 mL	1. Contain in sealed container. 2. Customer must have standard compounds.
36	HPLC24	Qualitative analysis of Mitragynine	Per sample	4,500	4,500	8 working days	> 10 mL/ 20 g	Contained in a sealed container.
37	HPLC25	Quantitative of Mitragynine	Per sample	6,000	6,000	8 working days	> 10 mL/ 20 g	1. Contained in a sealed container. 2. Price Includes sample grinding fee.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
38	HPLC26	Quantitative analysis of Andrographolide in <i>Andrographis paniculata</i> (Burm.f.) Nees extract	Per sample	2,240	3,200	10 working days	> 1 g	
39	HPLC27	Quantitative analysis of Vitexicarpin in <i>Vitex rotundifolia</i> extract and oil	Per sample	2,240	3,200	8 working days	> 5 mL/ 5 g	1. Contain in sealed container and protect from light. 2. Customer must have standard compounds.

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทดสอบเพื่อหาโครงสร้างทางเคมี

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	Color01	Analysis of color	per mode per sample	360	600	5 working days	> 50 g/ 200 mL, sheet i.d. > 1 cm	contained in closed container
2	FT-IR03A	Functional groups or identification of compound (≤ 5 samples)	Per sample	540	900	5 working days	> 2 mg/ sheet size > 10 mm x 10 mm	The appointment date of 10 working days in case of testing with for sample need to extraction preparation.
3	FT-IR03B	Functional groups or identification of compound (> 5 samples)	Per sample	540	900	10 working days	> 2 mg/ sheet size > 10 mm X 10 mm	The appointment date of 10 working days in case of testing with for sample need to extraction preparation.
4	FT-IR04A	Functional groups or identification of compound (≤ 5 samples)	per spectrum	700	1,000	10 working days	> 2 mg	
5	FT-IR04B	Functional groups or identification of compound (> 5 samples)	per spectrum	700	1,000	10 working days	> 2 mg	
6	FT-IR05	Qualitative analysis of impurity of alcohol products	Per sample	400	400	1 working days	> 10 mL	
7	NMR-Plot01	1D-NMR spectrum printing cost	Per sample	20	20	7 working days	-	In case of printing of 2D-NMR charge 20 baht/sample.
8	NMR-SOL01	CDCl ₃ solvent cost	Per sample	100	100	0 working days	1 mL	
9	NMR-SOL02	DMSO-d ₆ solvent cost	Per sample	280	280	0 working days	1 mL	
10	NMR-SOL03	Acetone-d ₆ solvent cost	Per sample	320	320	0 working days	1 mL	
11	NMR-SOL04	Methanol-d ₄ solvent cost	Per sample	350	350	0 working days	1 mL	
12	NMR-SOL05	D ₂ O solvent cost	Per sample	200	200	0 working days	1 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	NMR01	¹ H-NMR at 1 temperature	Per sample	300	500	5 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
14	NMR02	¹ H-NMR at o> 1 temperature (additional charge from NMR01)	Per sample	120	200	5 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
15	NMR03	¹³ C-NMR (sample weight > 10 mg)	Per sample	600	1,000	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
16	NMR04	¹³ C-NMR (sample weight < 10 mg)	Per sample	900	1,500	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
17	NMR05	DEPT (90, 135) (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
18	NMR06	DEPT (90, 135) (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
19	NMR07	DEPTQ (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
20	NMR08	DEPTQ (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
21	NMR09	COSY (sample weight > 10 mg)	Per sample	600	900	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
22	NMR10	COSY (sample weight < 10 mg)	Per sample	900	1,500	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
23	NMR11	NOESY (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
24	NMR12	NOESY (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
25	NMR13	HSQC (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
26	NMR14	HSQC (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
27	NMR15	HSQC edited (¹ H-NMR, DEPT135) (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
28	NMR16	HSQC edited (¹ H-NMR, DEPT 135) (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
29	NMR17	HMBC (sample weight > 10 mg)	Per sample	1,200	2,000	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost. charge for customers are not prepare sample with NMR solvent in NMR tube.
30	NMR18	HMBC (sample weight < 10 mg)	Per sample	1,500	2,500	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
31	NMR19	NOEDiff 1 irradiation	Per sample	300	500	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
32	NMR20	NOEDiff 1 irradiation (additional charge from NMR19)	Per sample	120	200	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
33	NMR21	TOCSY (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
34	NMR22	TOCSY (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
35	NMR23	ROESY (sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
36	NMR24	ROESY (sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
37	NMR25	Water suppression (¹ H-NMR)	Per sample	420	700	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
38	NMR26	No D (¹ H-NMR)	Per sample	420	700	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
39	NMR27	HMBC, HSQC, COSY, NOESY (sample weight > 10 mg)	Per sample	2,880	4,800	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
40	NMR28	HMBC, HSQC, COSY, NOESY (sample weight	Per sample	3,840	6,400	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
41	NMR29	DEPTQ, HMBC, HSQC, COSY, NOESY (sample weight > 10 mg)	Per sample	3,600	6,000	7 working days	> 10 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
42	NMR30	DEPTQ, HMBC, HSQC, COSY, NOESY (sample weight	Per sample	4,800	8,000	7 working days	> 1 mg	1. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 2. The price does not include printing cost.
43	NMR31	Relative analysis of epoxide in rubber and soy bean	Per sample	420	700	7 working days	> 10 mg	1. Additional CDCl ₃ solvent charge for customers are not prepare sample in NMR tube. 2. The price does not include printing cost.
44	NMR32	Relative analysis of FAME/ Ester/ Ethyl Ester/ mono-,di-,triglycerides in biodiesel oil	Per sample	720	1,200	7 working days	> 10 mg	1. Additional CDCl ₃ solvent charge for customers are not prepare sample in NMR tube. 2. The price does not include printing cost.
45	NMR33	³¹ P-NMR (Sample weight > 10 mg)	Per sample	900	1,500	7 working days	> 10 mg	1. Sample must including of P in its structure. 2. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 3. The price does not include printing cost.
46	NMR34	³¹ P-NMR (Sample weight < 10 mg)	Per sample	1,200	2,000	7 working days	> 1 mg	1. Sample must including of P in its structure. 2. Additional NMR solvent charge for customers are not prepare sample with NMR solvent in NMR tube. 3. The price does not include printing cost.
47	Raman01	Single point analysis	Per sample	600	600	8 working days	> 1 g/ 30 mL/sheet size > 50 mm x 50 mm	
48	Raman02	Analysis of XY Mapping, XZ Mapping, XY-Z Imaging and XYZ-Mapping modes	Per hour	800	800	15 working days	> 10 mg/ 2 mL/ (1x1x1) cm	1. 2. > 30 minutes = charge 1 hour

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
49	Raman03	Analysis of single point with interpretation or comparison result from library	Per sample	900	900	15 working days	> 10 g/ 2 mL/ (1x1x1) cm	
50	Raman04	Analysis of XY Averaging, X-Line point Z, XY Imaging, XZ Imaging modes	Per sample	600	600	15 working days	> 10 mg/ 2 mL/ (1x1x1) cm	
51	Raman05	Analysis of XY Averaging, X-Line point Z, XY Imaging, XZ Imaging modes with interpretation or comparison result from library	Per sample	1,000	1,000	15 working days	> 10 mg/ 2 mL/ (1x1x1) cm	
52	Raman06	Analysis of auto particle measurement	Per sample	1,000	1,000	15 working days	> 10 mg/ 2 mL/ (1x1x1) cm	
53	XRD01	Identification of compounds without interpretation of XRD spectrum	Per sample	510	850	7 working days	> 1 g/ sheet thickness < 0,4 cm, i.d. > 32 mm	The appointment date 10 working days to receive test result in case of sending > 10 samples.
54	XRD02	Identification of compounds of XRD spectrum	Per sample	780	1,300	10 working days	> 1 tea spoon/ sheet thickness < 0.4 cm, i.d. > 32 mm	The appointment date 12 working days to receive test result in case of sending > 10 samples.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
55	XRD03	Identification of compounds and calculation of % crystallinity	Per sample	900	1,500	10 working days	> 1 g/ sheet thickness < 0.4 cm, i.d. > 32 mm	Arrange to receive test results 12 working days for sending > 10 samples.
56	XRD04	Additional test time 41-90 minutes (additional charge from XRD01-XRD03)	Per sample	500	500	7 working days	> 1 tea spoon/ sheet thickness < 0.4 cm, i.d. > 32 mm	
57	XRD05	Additional test time 91-150 minutes (additional charge from XRD01-XRD03)	Per sample	1,000	1,000	7 working days	> 1 g/ sheet thickness < 0.4 cm, i.d. > 32 mm	

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No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	BOMB01	Analysis of gross heating value (As received basis)	Per sample	840	1,400	5 working days	> 5 g	For liquid sample without water
2	BOMB02	Analysis of gross heating value (As air dried basis)	Per sample	840	1,400	10 working days	> 5 g	Preparation of sample by air dried loss (not include in price)
3	BOMB03	Analysis of gross heating value (As dried basis)	Per sample	840	1,400	10 working days	> 5 g	Preparation sample by dried sample (not include in price)
4	BOMB04	Analysis of net heating value (As received basis)	Per sample	2,140	3,300	10 working days	> 5 g	1. Preparation sample by dried sample 2. Test of %H (as dried basis) with CHNS/O analyzer
5	BOMB05	Analysis of net heating value (as air dried basis)	Per sample	2,140	3,300	10 working days	> 5 g	1. Preparation sample by air dried loss 2. Test of %H (as air dried basis) with CHNS/O analyzer 3. Including of preparation charge 400 baht/sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
6	BOMB06	Analysis of net heating value (As dried basis)	Per sample	2,140	3,300	10 working days	> 5 g	1. Preparation sample by dried sample 2. Test of %H (as dried basis) with CHNS/O analyzer 3. including of dried sample charge 400 baht/sample
7	CHNS-001	Quantitative analysis of % CHN	Per sample	1,380	2,300	6 working days	> 30 mg/ 2 mL	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample - No repeat for non-homogeneous sample and liquid sample
8	CHNS-002	Quantitative analysis of % CHNS	Per sample	1,380	2,300	6 working days	> 30 mg/ 2 mL	1. Arrange to receive test results 10 working days in case of sending samples need to preparation or sending of samples > 10 samples. 2. Homogeneous sample - No repeat for non-homogeneous sample and liquid sample
9	CHNS-003	Quantitative analysis of %O	Per sample	1,200	2,000	6 working days	> 30 mg/ 2 mL	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample - No repeat for non-homogeneous sample and liquid sample
10	CHNS-004	Quantitative analysis of %CHN และ %O	Per sample	2,580	4,300	8 working days	> 30 mg/ 2 mL	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample 3. No repeat for non-homogeneous sample and liquid sample.
11	CHNS-005	Quantitative analysis of %CHNS, %O, and heating value (gross heating value and net heating value)	Per sample	2,580	4,300	8 working days	> 30 mg/ 2 mL	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample 3. No repeat for non-homogeneous sample and liquid sample
12	CHNS-006	Quantitative analysis of % CHNS of TMTD	Per sample	1,380	2,300	8 working days	> 1 g	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample 3. Attached COA (Certificate of Analysis) or XRD analysis for identification of compound
13	CHNS-007	Quantitative analysis of % NHO of DAP	Per sample	1,980	3,300	8 working days	> 1 g	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample 3. Attached COA (Certificate of Analysis) or XRD analysis for identification of compound
14	CHNS-008	Quantitative analysis of % N of DAP	Per sample	1,380	2,300	8 working days	> 1 g	1. Arrange the appointment date 10 working days in case of sample need to preparation or sending > 10 samples. 2. Homogeneous sample 3. Attached COA (Certificate of Analysis) or XRD analysis for identification of compound

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
15	CHNS-O09	Quantitative analysis of % protein	Per sample	1,380	2,300	6 working days	> 30 mg/ 2 mL	1. For sending samples ≤ 10 samples 2. Need to have protein factor value 3. Dried and homogeneous sample
16	CHNS-O10	Quantitative analysis of % Protein	Per sample	1,380	2,300	10 working days	> 30 mg/ 2 mL	1. For sending samples > 10 samples 2. Need to have protein factor value
17	CHNS-O10	Quantitative analysis of % protein	Per sample	1,380	2,300	10 working days	> 30 mg/ 2 mL	1. For sending samples >10 samples 2. Need to have protein factor value 3. Dried and homogeneous sample
18	DirectMercury01	Quantitative analysis of mercury of liquid and solid (without preparation)	Per sample	600	1,000	8 working days	> 10 mL/ 10 g	1. Sample is homogeneous test 2 times (n=2, %RSD < 20% and sample is non-homogeneous test 2 times (n=2, %RSD >20%). 2. During delivery, sample should be contained in sealed glass or polyethylene bottle. Sample should contain in glass bottle or polyethylene bottle or other optimized containers. 3. No preparation of sample 4. Samples have strong acid or strong base ≤1% concentration. 5. Send sample blank for digested sample (if possible)
19	DirectMercury02	Quantitative analysis of mercury of well water and waste water (dissolved in water only)	Per sample	600	1,000	8 working days	> 10 mL	1. Sample should fix sample with nitric acid to pH ≤2 immediately after storage 2. Contained sample in glass bottle or polyethylene bottle and keep it in cold condition 2 °C-10 °C 3. Test ≥ 2 repeat (n=2, %RSD < 20%)
20	DirectMercury03	Quantitative analysis of mercury in liquid (included suspended solids)	Per sample	840	1,400	8 working days	> 10 mL	1. Sample should fix sample with nitric acid to pH ≤2 immediately after storage 2. Contained sample in glass bottle or polyethylene bottle and keep it in cold condition 2 °C-10 °C 3. Test ≥ 2 repeat (n=2, %RSD < 20%)
21	DirectMercury04	Quantitative analysis of mercury in sea water	Per sample	1,200	2,000	8 working days	> 10 mL	1. Sample should fix sample with nitric acid to pH ≤2 immediately after storage 2. Contained sample in glass bottle or polyethylene bottle and keep it in cold condition 2 °C-10 °C 3. Test ≥ 2 repeat (n=2, %RSD

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
22	ICP-MS01	Quantitative analysis of element of liquid without digestion	Per element	700	700	8 working days	> 50 mL	<ol style="list-style-type: none"> 1. Solution in acid (ultra pure grade) such as HNO₃, HCl, H₂SO₄, H₃PO₄, HClO₄ in concentration of 2. Sending with sample blank 3. Keep sample in cold condition 2 °C-10 °C 4. Homogeneous sample 5. Contained in closed container
23	ICP-MS02	Quantitative analysis of element of sample with digestion	Per element	900	900	11 working days	> 50 mL / 50 g	<ol style="list-style-type: none"> 1. Homogeneous sample for non homogeneous sample test 1 time. 2. Contained sample in optimized and closed container
24	ICP-MS04	Quantitative analysis of As, Se, Pb and Cd in water (dissolved in water only)	Per sample	2,800	2,800	8 working days	> 100 mL	<ol style="list-style-type: none"> 1. Well water such as drinking water, surface water, ground water and used water etc. 2. Sample should be fixed with nitric acid (ultrapure grade) to pH ≤2 within 6 hours after keeping sample. 3. Sample should contain in cold condition 2 °C-10 °C. 4. Contained in optimized and close container 5. Testing of dissolved in water only without suspension
25	ICP-MS05	Quantitative analysis of Se in waste water (dissolved in water only)	Per sample	700	700	8 working days	> 100 mL	<ol style="list-style-type: none"> 1. Sample should be fixed with nitric acid (ultrapure grade) to pH ≤2 Sample should be fixed with nitric acid (ultrapure grade) to pH ≤2 within 6 hours after keeping sample. 2. Sample should contain in cold condition 2 °C-10 °C. 3. Contained in optimized and close container such as glass bottle or polyethylene bottle 4. Testing of dissolved in water only without suspension 5. Waste water such as drain water, post-treatment water and pre-treatment water, etc.
26	ICP-MS06	Quantitative analysis of Se in waste water including of suspension solids	Per sample	900	900	8 working days	> 100 mL	<ol style="list-style-type: none"> 1. Sample should be fixed with nitric acid (ultrapure grade) to pH ≤2 Sample should be fixed with nitric acid (ultrapure grade) to pH ≤2 within 6 hours after keeping sample. 2. Sample should contain in cold condition 2 °C-10 °C. 3. Contained in optimized and close container such as glass bottle or polyethylene bottle 4. Testing of dissolved in water and suspension solids 5. Waste water such as drain water, post-treatment water and pre-treatment water, etc.
27	ICP-MS07	Quantitative analysis of Fe, Cu, As and Pb in crude palm oil	Per sample	3,600	3,600	8 working days	> 15 mL/ 10 g	During delivery, it should be contained in sealed glass bottle.
28	ICP-MS08	Screening of elements or heavy metals without sample preparation	Per sample	1,000	1,000	7 working days	> 10 mL	
29	ICP-MS09	Screening of elements or heavy metals with sample digestion	Per sample	1,250	1,250	14 working days	> 10 g/ 10 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
30	ICP-OES01	Quantitative analysis of liquid (without digestion)	Per element	300	500	8 working days	> 50 mL	1. sample without digestion 2. Double charge for sea water
31	ICP-OES02	Quantitative analysis of solid or liquid (need to digestion)	Per element	420	700	11 working days	> 10 g	1. Dried basis analysis 2. Dried sample before analysis 3. Samples such as herb, chemical, suspension, mud and waste water, etc.
32	ICP-OES06	Quantitative of Ca hardness of raw water and drinking water	Per sample	300	500	8 working days	> 50 mL	1. sample without digestion 2. Double charge for sea water
33	ICP-OES07	Quantitative of Mg hardness of raw water and drinking water	Per sample	300	500	8 working days	> 50 mL	1. sample without digestion 2. Double charge for sea water
34	ICP-OES13	Quantitative analysis of As, Cd, Cr, Mn, Ni, Pb and Se in soil	Per sample	2,940	4,900	11 working days	> 50 g	
35	Macro CHNS01	Quantitative analysis of % CHN	Per sample	1,050	1,500	7 working days	> 5 g/ 10 mL	For sending samples ≤ 10 samples
36	Macro CHNS02	Quantitative analysis of % CHN	Per sample	1,050	1,500	10 working days	> 5 g/ 10 mL	For sending samples > 10 samples
37	Macro CHNS03	Quantitative analysis of % S	Per sample	1,400	2,000	7 working days	> 5 g/ 10 mL	For sending sample ≤ 10 samples
38	Macro CHNS04	Quantitative analysis of % S	Per sample	1,400	2,000	10 working days	> 5 g/ 10 mL	For sending samples > 10 samples
39	Macro CHNS05	Quantitative analysis of % CHNS	Per sample	2,450	3,500	10 working days	> 5 g/ 10 mL	For sending samples ≤ 10 samples
40	Macro CHNS06	Quantitative analysis of % CHNS	Per sample	2,450	3,500	15 working days	> 5 g/ 10 mL	For sending samples > 10 samples
41	Macro CHNS07	Quantitative analysis of % Protein	Per sample	900	1,500	7 working days	> 5 g/ 10 mL	1. For sending samples ≤ 10 samples 2. Need to have protein factor value
42	Macro CHNS08	Quantitative analysis of % Protein	Per sample	900	1,500	10 working days	> 5 g/ 10 mL	1. For sending samples > 10 samples 2. Need to have protein factor value
43	MERCURY01	Quantitative analysis of mercury of liquid without digestion with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	600	1,000	8 working days	> 50 mL	1. Homogeneous sample 2. At least 2 repeat of testing 3. Sample such as oil, food and beverage etc.
44	MERCURY02	Quantitative analysis of mercury of solid with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	840	1,400	14 working days	> 10 g	1. Homogeneous sample 2. At least 2 repeat of testing 3. Sample such as herb, chemicals, wood, leaf, soil, mud and sludge etc.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
45	MERCURY03	Quantitative analysis of mercury of well water with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	600	1,000	8 working days	> 100 mL	1. Sample should be fixed with nitric acid (Ultrapure grade) to pH \leq 2 after keeping sample. 2. Sample should contain in glass or polyethylene container and keep it in 2 °C-10 °C. 3. At least 2 repeat of testing
46	MERCURY04	Quantitative analysis of mercury of waste water with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	600	1,000	8 working days	> 100 mL	1. Sample should be fixed with nitric acid (Ultra pure grade) to pH \leq 2 after keeping sample. 2. Sample should contain in glass or polyethylene container and keep it in 2 °C-10 °C. 3. At least 2 repeat of testing
47	MERCURY06	Quantitative analysis of mercury of vegetable and fruit with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	840	1,400	14 working days	> 10 g	1. Homogeneous sample 2. At least 2 repeat of testing
48	MERCURY07	Quantitative analysis of mercury of chemical fertilizer with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	840	1,400	14 working days	> 10 g	1. Homogeneous sample 2. At least 2 repeat of testing
49	MERCURY08	Quantitative analysis of mercury of soil with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	840	1,400	14 working days	> 10 g	1. Homogeneous sample 2. At least 2 repeat of testing
50	MERCURY09	Quantitative analysis of mercury of extract with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	600	1,000	8 working days	> 20 mL	1. Sample are homogeneous, clear and colorless. 2. Sample without digestion or preparation 3. 3 repeat of testing and sample blank 4. Solvents are water and acid except HF (\leq 5% by weight) 5. Don't allow fill Au in sample.
51	MERCURY10	Quantitative analysis of mercury of sea water (dissolved part) ด้วยเทคนิค with cold-vapor atomic absorption spectrometry (CVAAS)	Per sample	1,200	2,000	10 working days	> 10 mL	1. Sample should be fixed with nitric acid (Ultra pure grade) to pH \leq 2 after keeping sample. 2. Sample should contain in glass or polyethylene container and keep it in 2 °C-10 °C. 3. At least 2 repeat of testing 4. Sample is diluted 2 time before testing.
52	OES01	Quantitative analysis of elements in materials	Per sample	660	1,100	7 working days	> 2 cm X 2 cm; thickness 0.2 cm - 6 cm	1. Not report P value for all samples are carbon steel, low alloy steel, aluminum, aluminum alloy, stainless steel, copper metal and brass 2. Not report Ni value for samples are aluminum, aluminum alloy, copper metal, brass and stainless steel 3. Surface of sample need to smooth.
53	SINOIL01	Quantitative analysis of sulfur in oil	Per sample	1,500	1,500	7 working days	> 20 mL	
54	TOC-LIQUID01	Quantitative analysis of total carbon (TC) of liquid sample	Per sample	360	600	8 working days	> 100 mL	1. Triplicate analysis - Double charge of outside PSU service charge for sea water 2. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
55	TOC-LIQUID02	Quantitative analysis of total inorganic carbon (TIC) of liquid sample	Per sample	360	600	8 working days	> 100 mL	1. Triplicate analysis 2. Double charge of outside PSU service charge for sea water 3. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge.
56	TOC-LIQUID03	Quantitative analysis of total organic carbon (TOC) of liquid sample	Per sample	720	1,200	8 working days	> 100 mL	1. Triplicate analysis 2. Double charge of outside PSU service charge for sea water. 3. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge.
57	TOC-LIQUID04	Quantitative analysis of total nitrogen (TN) of liquid sample	Per sample	360	600	8 working days	> 100 mL	1. Triplicate analysis 2. Double charge of outside PSU service charge for sea water. 3. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge.
58	TOC-SOLID01	Quantitative analysis of total carbon (TC) of solid sample	Per sample	450	750	8 working days	> 1 g	1. 1 repeat test/sample 2. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge. 3. Homogeneous sample
59	TOC-SOLID02	Quantitative analysis of total inorganic carbon (TIC) of solid sample	Per sample	450	750	8 working days	> 1 g	1. 1 repeat test/sample 2. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge. 3. Homogeneous sample
60	TOC-SOLID03	Quantitative analysis of total organic carbon (TOC) of solid sample	Per sample	840	1,400	8 working days	> 1 g	1. 1 repeat test/sample 2. In the case of sample must be prepare before test, the actual sample preparation and consumables will be charge. 3. Homogeneous sample
61	XRF01	Semi-qualitative analysis of elements from F to U	Per sample	720	1,200	7 working days	> 1 table spoon/ 0.5 mL	Samples don't need to burned such as pieces of metal, solder, cat iron, some metal ores, etc.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
62	XRF02	Semi quantitative analysis of elements from F to U by combustion with TGA	Per sample	1,110	1,850	9 working days	> 1 table spoon/ 0.5 mL	1. For testing with preparation with TGA 2. Arrange to receive test results 12 working days for sending > 10 samples.
63	XRF03	Quantitative analysis of elements without CRM for 1 element	Per sample	870	1,450	9 working days	> 1 table spoon/ 0.5 mL	The appointment date 10 working days to receive test result in case of quantitative analysis no details of testing conditions or the need to prepare sample prior to testing.
64	XRF04	Quantitative analysis of elements without CRM for > 1 element (additional charge from XRF03)	Per sample	120	200	0 working days	> 1 table spoon/ 0.5 mL	The appointment date 10 working days to receive test result in case of quantitative analysis no details of testing conditions or the need to prepare sample prior to testing.
65	XRF05	Quantitative analysis of elements with CRM (limestone/ Dolomite/ Feldspar/Kaolin/Gypsum)	Per sample	1,140	1,900	9 working days	> 1 table spoon/ i.d.1.5 cm	1. The appointment date 10 working days to receive test result in case of quantitative analysis no details of testing conditions or the need to prepare sample prior to testing. 2. List of CRM: Low Alloy Steel, Austenitic Steel, Al/Mg (CAST), Al/Si/Cu (CAST) Gun Metal (CHILL CAST), Leaded Bronze (CHILL CAST), Leaded Brass (CHILL CAST) Aluminium Bronze (CHILL CAST), Feldspar, Ball Clay, Kaolinite and Limestone
66	XRF06	Quantitative analysis of %TiO ₂	Per sample	1,450	1,450	7 working days	> 1 table spoon	
67	XRF07	Quantitative analysis of % ZnO	Per sample	1,450	1,450	7 working days	> 1 table spoon	
68	XRF08	Preparation with furnace	Per sample	650	650	9 working days	> 500 g	

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทดสอบเคมีทั่วไป

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	BOD ANALYZER 01	Quantitative analysis of dissolved oxygen in water (DO)	Per sample	300	300	5 working days	well water; > 2L, waste water; > 300 mL	For sea water charge 450 baht/sample
2	BOD ANALYZER 02	Quantitative analysis of biochemical oxygen demand in water (BOD)	Per sample	350	350	7 working days	well water > 2L, waste water > 300 mL	1. Arrange to receive test results 10 working days in case of sending sample on Monday, Tuesday, Friday and Saturday. 2. For sea water charge 500 baht/sample
3	CONDUCT01	Analysis of conductivity	Per sample	100	100	5 working days	> 10 g/ 50 mL	
4	Fat01	Quantitative analysis of crude fats	Per sample	600	600	7 working days	> 50 mL/ 50 g	1. The sample is the homogeneous or fine powder. 2. The sample contains in a closed container.
5	Fat02	Quantitative analysis if total fats	Per sample	1,000	1,000	7 working days	> 50 mL / 50 g	1. The sample is the homogeneous or fine powder. 2.The sample contains in a closed container.
6	FLUORO01	Qualitative analysis of compounds (for Spectra Measurement mode and Fixed wavelength measurement mode)	Per sample	480	800	7 working days	> 50 mL	1. Sample must be homogeneous clear and without sediment. 2. Delivery with solvent and sample blank. 3. Repeat the test 3 times.
7	FLUORO02	Quantitative analysis of compounds	Per sample	960	1,600	7 working days	> 50 mL	1. Sample must be homogeneous clear and without sediment. 2. Delivery with solvent and sample blank. 3. Repeat the test 3 times.
8	FLUORO03	Qualitative analysis of compounds (3-D Spectra Measurement mode and Time course Measurement mode)	Per sample	600	1,000	7 working days	> 50 mL	1. Sample must be homogeneous clear and without sediment. 2. Delivery with solvent and sample blank. 3. Repeat the test 3 times.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
9	HUMIC01	Quantitative analysis of Humic acid	Per sample	800	800	8 working days	> 5 g	
10	K-DIGEST&PROTEIN DISTILL01	Quantitative analysis of total kjeldahl nitrogen (TKN) in water	Per sample	800	800	7 working days	> 200 mL	The sample contains in a closed container.
11	K-DIGEST&PROTEIN DISTILL02	Quantitative analysis of organic-nitrogen in water	Per sample	1,000	1,000	7 working days	> 600 mL	The sample contains in a closed container.
12	K-DIGEST&PROTEIN DISTILL03	Quantitative analysis of total volatile basic nitrogen (TVB-N)	Per sample	1,800	1,800	7 working days	> 50 mL	The sample contains in a closed container.
13	KFC01	Quantitative analysis of water	Per sample	800	800	7 working days	> 30 mL	For dark oil charge 1000 baht/sample
14	KFV01	Quantitative analysis of water in liquid	Per sample	800	800	7 working days	> 10 mL	Close the lid tightly
15	KFV02	Quantitative analysis of water in solid	Per sample	1,000	1,000	7 working days	> 10 g	Close the lid tightly
16	MOISTURE01	Quantitative analysis of moisture	Per sample	400	400	5 working days	> 30 g/ 30 mL	1. Homogeneous sample 2. Contained in closed container
17	Nitrogen01	Quantitative analysis of total Kjeldahl nitrogen (TKN) in water	Per sample	800	800	7 working days	> 300 mL	The sample contains in a closed container.
18	Nitrogen02	Quantitative analysis of ammonia-nitrogen in water and liquid	Per sample	800	800	7 working days	> 300 mL	The sample contains in a closed container.
19	Nitrogen03	Quantitative analysis of nitrogen in liquid and solid	Per sample	800	800	7 working days	> 300 mL/ 30 g	The sample contains in a closed container.
20	Nitrogen04	Quantitative analysis of protein in liquid and solid	Per sample	1,000	1,000	7 working days	> 300 mL/ 30 g	The sample contains in a closed container.
21	Nitrogen05	Quantitative analysis of organic-nitrogen in water	Per sample	1,000	1,000	7 working days	> 600 mL	The sample contains in a closed container.
22	Nitrogen06	Quantitative analysis of total volatile basic nitrogen (TVB-N)	Per sample	1,800	1,800	0 working days	> 50 mL	The sample contains in a closed container.
23	Nutreint01	Quantitative analysis of nutrition such as moisture, ash, fat, protein, carbohydrate and total calories energy	Per sample	3,000	3,000	10 working days	> 500 g (Fresh)/50 g (Dry)	1. For dry sample should be kept in a sealed container. 2. For fresh sample should be kept in a sealed and cold container. 3. homogeneous sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
24	pH01	Analysis of pH	Per sample	100	100	5 working days	> 10 g/ 50 mL	
25	pH02	Test of pH in latex, chemical, gel, fertilizer, soil, acidic basic solution	Per sample	400	400	5 working days	> 50 mg/ 100 mL	1. In case of solid sample, the sample is prepared by dissolving in water at a ratio of 1:10. 2. Contain sample in a sealed container.
26	PHARO01	Quantitative analysis of COD in water	Per sample	350	350	7 working days	> 50 mL	
27	PHARO02	Quantitative analysis of chloride in water	Per sample	400	400	7 working days	> 50 mL	
28	PHARO03	Quantitative analysis of nitrate in water	Per sample	450	450	7 working days	> 50 mL	For sea water charge 800 baht/sample
29	PHARO04	Quantitative analysis of sulfate in water	Per sample	450	450	7 working days	> 50 mL	
30	PHARO05	Quantitative analysis of fluoride in water	Per sample	500	500	7 working days	> 50 mL	
31	PHARO06	Analysis of color in water	Per sample	150	150	7 working days	> 50 mL	
32	PHARO07	Quantitative analysis of turbidity in water	Per sample	150	150	7 working days	> 50 mL	
33	PHARO10	Quantitative analysis of phenol of liquid	Per sample	450	450	7 working days	> 200 mL	
34	PHARO11	Quantitative analysis of formaldehyde of liquid	Per sample	450	450	7 working days	> 50 mL	
35	PHARO12	Quantitative analysis of sulfide of liquid	Per sample	450	450	7 working days	> 50 mL	
36	PHARO13	Quantitative analysis of sulfite of liquid	Per sample	450	450	7 working days	> 50 mL	
37	PHARO14	Quantitative analysis of cyanide of liquid	Per sample	350	350	7 working days	> 50 mL	
38	PHARO15	Quantitative analysis of ammonium	Per sample	500	500	7 working days	> 50 g/50 mL	
39	PHARO17	Quantitative analysis of nitrate in bird nest	Per sample	550	550	7 working days	> 50 g	
40	PHARO18	Quantitative of nitrite of liquid	Per sample	300	300	7 working days	> 50 mL	
41	PHARO19	Quantitative analysis of nitrite of solid	Per sample	500	500	7 working days	> 50 g	
42	PHARO20	Quantitative analysis of soluble COD in water	Per sample	400	400	7 working days	> 50 mL	
43	PHARO23	Quantitative analysis of alkyl benzene sulfonate (ABS) in water	Per sample	550	550	7 working days	> 50 mL	
44	PHARO25	Quantitative analysis of sulfite of solid	Per sample	550	550	7 working days	> 50 g	
45	PHARO26	Quantitative analysis of sulfide of solid	Per sample	550	550	7 working days	> 50 g	
46	PHARO27	Quantitative analysis of formaldehyde of solid	Per sample	500	500	7 working days	> 50 g	
47	PHARO29	Quantitative analysis of free residual chlorine in water	Per sample	350	350	7 working days	> 50 mL	
48	PHARO30	Quantitative analysis of total residual chlorine in water	Per sample	350	350	7 working days	> 50 mL	
49	PHARO31	Quantitative analysis of combined chlorine in water	Per sample	700	700	7 working days	> 50 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
50	PHARO32	Quantitative analysis of formaldehyde in rubber pillow	Per sample	2,000	2,000	10 working days	> 100 g	
51	PHARO33	Quantitative analysis of color in water (ADMI unit)	Per sample	500	500	7 working days	> 500 mL	
52	PHARO35	Quantitative analysis of cyanuric acid in swimming pool water	Per sample	500	500	7 working days	> 50 mL	1. No repeat 2. Test the sample within 24 hours after receiving it. 3. Contain sample in closed container, cover the light-shielding foil and specify name of sample clearly. 4. While delivering the sample should be refrigerated.
53	PROTEIN DISTILL01	Quantitative analysis of ammonia-nitrogen	Per sample	800	800	7 working days	> 200 mL	
54	RAPID PROTIEN 01	Quantitative analysis of true protein	Per sample	720	1,200	6 working days	> 10 g/ 10 mL	1. Homogeneous sample 2. 2 repeat testing
55	RAW FIBER EXTRACTOR0 1	Quantitative analysis of crude fiber	Per sample	1,200	1,200	10 working days	> 10 g	1. Analysis based on dried basis 2. Dried sample before analysis for wet sample (additional charge 400 baht/sample) 3. Contained in closed container
56	RAW FIBER EXTRACTOR0 2	Quantitative analysis of Lignocellulose, Hemicellulose, Cellulose and Lignin	Per sample	2,500	2,500	12 working days	> 100 g (fresh sample)/ > 20 g (dried sample)	1. Dried sample should be kept in a sealed container. 2. In case of fresh sample should be kept in a cool and sealed container with charge of dried preparation. 3. Appointment date 10 working per no more 2 samples
57	Sieve02	Test of amount of chemical remaining on the sieve 45 micron (No. 325) by wet process according to TIS 221/2015	Per sample	400	400	7 working days	> 500 g	
58	SOLVENT_EX TRACTION01	Quantitative analysis of crude fats	Per sample	600	600	8 working days	> 10 g	1. Analysis based on dried basis 2. Dried sample before analysis for wet sample (additional charge 400 baht/sample) 3. Contained sample in closed container.
59	TITRATE01	Analysis of total base number and total acid number (TBN and TAN)	Per sample	800	800	7 working days	> 120 mL	
60	TITRATE03	Quantitative analysis of free fatty acid (FFA) in oil	Per sample	600	600	7 working days	> 100 mL	For dark oil
61	TITRATE04	Quantitative analysis of acid value in oil	Per sample	600	600	7 working days	> 100 mL	For dark oil
62	UV01	Qualitative analysis of solution	Per sample	360	600	5 working days	> 10 g/ 5 mL	
63	UV02	Quantitative analysis of solution	Per sample	600	1,000	5 working days	> 10 g/ 5 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
64	UV03	Quantitative analysis of oryzanol in rice ban oil	Per sample	450	750	5 working days	> 10 mL	
65	UV04	Quantitative analysis of oryzanol in rice	Per sample	780	1,300	8 working days	> 100 g	
66	UV05	Quantitative analysis of carotenoids in oil	Per sample	450	750	5 working days	> 10 mL	
67	UV06	Quantitative analysis of anthocyanins in extract	Per sample	600	1,000	6 working days	> 50 mL	
68	UV08	Quantitative analysis of anthocyanins in plant and vegetable	Per sample	720	1,200	10 working days	> 10 g	
69	UV10	Quantitative analysis of total phenolic compound in extract	Per sample	900	1,500	6 working days	> 1 g /10 mL	1. Contained in closed container and protect from light.
70	UV11	Quantitative analysis of protein in rubber glove (ASTM D 5712) (ug/g or ug/dm ² unit)	Per sample	1,200	1,200	6 working days	> 5 pieces	contained in closed container
71	UV12	Quantitative analysis of residual TMTD in rubber	Per sample	1,200	2,000	7 working days	> 10 g/ 20 mL	contained in closed container
72	UV13	Quantitative analysis of DOBI in oil	Per sample	300	500	5 working days	> 20 mL	1. Contained in closed container 2. Customer must inform staff before sending the sample every time because the test must be done on the same day.
73	UV14	Qualitative analysis of solid	Per sample	300	500	5 working days	> 10 g	
74	UV15	Quantitative analysis of total phenolic compounds in plant	Per sample	1,200	2,000	7 working days	> 10 g	ราคารวมค่าทำแห้งตัวอย่างด้วยเครื่อง nitrogen evaporator
75	UV16	Quantitative analysis of protein in washing water from latex gloves and condoms according to ASTM D5712 (ug/mL unit)	Per sample	1,200	1,200	6 working days	> 5 mL	1. The sample shall be contained in closed container. 2. The sample shall be clear, colorless and free of sediment.
76	UV17	Analysis of total flavonoid content in extract	Per sample	900	1,500	7 working days	> 20 mL/ 100 mg	1. Packed in sealed container and protected from light.

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No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	AFM01	Using instrument	Per sample	500	500	8 working days	Sample sheet size 10 cm * 10 cm , thickness 0.5 cm 1 piece	
2	AFM02	AFM probe: Dynamic mode cantilever	Per sample	1,200	1,200	8 working days	-	Additional charge from AFM01
3	AFM03	AFM probe: Static mode cantilever	Per sample	1,200	1,200	8 working days	-	Additional charge from AFM01
4	Coater01	Sample preparation by gold coating	Per time	600	600	8 working days	> 10 mg	1. Sample size is < 1 cm x 1 cm. 2. Up to 24 pieces can be inserted at a time.
5	Fe-SEM01	Imaging of field-emission SEM (≤ 3 pictures)	Per sample	1,200	1,200	8 working days	> 1 mg/ 1 mL	
6	Fe-SEM02	Additional charge of imaging from Fe-SEM01	Per sample	120	120	8 working days	> 1 mg/ 1 mL	
7	Fe-SEM03	Qualitative analysis of elements with EDS (3 points)	Per sample	1,000	1,000	8 working days	> 1 mg/ 1 mL	
8	Fe-SEM05	Semi qualitative analysis of elements with EDS (10 points)	Per sample	2,100	2,100	8 working days	> 1 mg/ 1 mL	
9	Fe-SEM06	Mapping analysis of elements (1 point)	Per sample	1,200	1,200	8 working days	> 1 mg/ 1 mL	
10	Fe-SEM08	Line scan analysis of elements (1 point)	Per sample	1,200	1,200	8 working days	> 1 mg/ 1 mL	
11	Fe-SEM09	Line scan analysis of elements (> 1 point) (additional charge from Fe-SEM08)	Per sample	240	240	8 working days	> 1 mg/ 1 mL	
12	Fe-SEM10	Point scan analysis of elements (3 points)	Per sample	1,200	1,200	8 working days	> 1 mg/ 1 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	Fe-SEM11	Point scan analysis of elements (> 1 point) (additional charge from Fe-SEM10)	Per sample	240	240	8 working days	> 1 mg/ 1 mL	
14	Fe-SEM12	Charge of using instrument for bad data analysis	Per hour	900	900	8 working days	> 1 mg/ 1 mL	1. 2. > 30 minutes = charge 1 hour
15	FE-TEM01	Using instrument charge	Per hour	3,000	3,000	8 working days	> 100 mg/ 100 uL	1. charge 2. charge > 30 minutes to 1 hour
16	F1 Microscope01	Imaging without using laser (3 pictures)	Per sample	140	200	5 working days	> 1 mg/ 1 mL	
17	F1 Microscope02	Imaging by using laser (3 pictures)	Per sample	350	500	5 working days	> 1 mg/ 1 mL	
18	F1 Microscope03	Additional charge of imaging	Per sample	35	50	5 working days	> 1 mg/ 1 mL	
19	SEM-5800LV01	Imaging analysis (\leq 3 pictures)	Per sample	540	900	8 working days	> 10 mg	Dried sample
20	SEM-EDX-XMAX01	Qualitative analysis of elements (3 points)	Per sample	530	880	8 working days	> 10 mg	
21	SEM-EDX-XMAX02	Semi quantitative analysis of elements (10 points)	Per sample	1,200	2,000	8 working days	> 10 mg	
22	SEM-EDX-XMAX03	Mapping analysis of elements (1 point)	Per sample	570	950	8 working days	> 10 mg	
23	SEM-EDX-XMAX04	Mapping analysis of elements (> 1 point) (additional charge from SEM-EDX-XMAX03)	Per sample	570	950	8 working days	> 10 mg	
24	SEM-EDX-XMAX05	Line scan analysis of elements	Per sample	570	950	8 working days	> 10 mg	
25	SEM-EDX-XMAX06	Point scan analysis of elements (3 points)	Per sample	570	950	8 working days	> 10 mg	
26	SEM-EDX-XMAX07	Point scan analysis of elements (> 3 points) (additional charge from SEM-EDX-XMAX06)	Per sample	60	100	8 working days	> 10 mg	
27	SEM-QUANTA01	Imaging analysis (\leq 3 pictures)	Per sample	720	1,200	8 working days	> 10 mg	Dried sample

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
28	SEM-SAMPLEPREP01	Preparation of biological sample for SEM (preserve and CPD)	Per sample	900	1,500	8 working days	> 10 mg/ 10 mL	
29	SEM-SAMPLEPREP02	Dried sample with CPD	Per time	600	1,000	8 working days	> 10 mg/ 10 mL	6 samples/set of preparation
30	SEM-SAMPLEPREP03	Preparation of sample with gold coating	Per time	360	600	8 working days	> 10 mg /10 mL	8 samples/set of preparation
31	SEM-SAMPLEPREP04	Preparation of sample by hot mount resin for polish and etching	Per sample	530	880	8 working days	> 10 mg/ 10 mL	
32	SEM-SAMPLEPREP05	Preparation of rubber and polymer by dying with OsO ₄	Per sample	120	200	8 working days	< 1 mL	
33	SEM01	Additional charge of imaging from SEM-5800LV01 and SEM-QUANTA01	Per sample	60	100	8 working days	-	
34	SEM02	Charge of using instrument for bad data analysis	Per hour	420	700	8 working days	> 10 mg	1. 2. > 30 minutes = charge 1 hour
35	SEM03	Take photograph with in 10 minutes	Per sample	100	100	8 working days	-	
36	TEM-SAMPLEPREP01	Preparation of powder and fiber	Per sample	1,800	3,000	10 working days	> 10 mg	
37	TEM-SAMPLEPREP02	Preparation of biological sample	Per sample	900	1,500	10 working days	< 1 mm ³ , > 6 pieces	
38	TEM-SAMPLEPREP03	Cut sample with ultra microtome	Per sample	900	1,500	10 working days	embred sample in block already	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
39	TEM-SAMPLEPREP04	Cut sample with cryo ultramicrotome	Per sample	6,000	10,000	10 working days	> 1 cm x 1 cm X 1 cm	
40	TEM-SAMPLEPREP05	Preparation of liquid sample	Per sample	960	1,600	10 working days	> 1 mL	
41	XRF Microscope01	Qualitative analysis of element by mapping	Per area	600	600	8 working days	Solid > 10 mg, Liquid > 1 mL	Able to test of Sodium (Na) - Uranium (U)
42	XRF Microscope02	Qualitative analysis of element by line scan	Per line	500	500	8 working days	Solid > 10 g, Liquid > 1 mL	Able to test of Sodium (Na) - Uranium (U)
43	XRF Microscope03	Qualitative analysis of element by point scan	Per sample	500	500	8 working days	Solid > 10 mg, Liquid > 1 mL	Able to test of Sodium (Na) - Uranium (U)
44	XRF Microscope04	Qualitative analysis of element by area scan	Per sample	500	500	8 working days	Solid > 10 mg, Liquid > 1 mL	Able to test of Sodium (Na) - Uranium (U)

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานชีวโมเลกุล

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	AMINO ACID01	Quantitative analysis of amino acid (17 residues) consist of Aspartic acid, Serine, Glutamic acid, Glycine, Histidine, Arginine, Threonine, Alanine, Proline, Cystine, Tyrosine, Valine, Methionine, Lysine, Isoleucine, Leucine and Phenylalanine (with extract sample)	Per sample	6,000	6,000	10 working days	Solid > 0.5 g/ Liquid > 10 mL	
2	AMINO ACID02	Quantitative analysis of tryptophan (with extract sample)	Per sample	5,000	5,000	10 working days	Solid > 0.5 g/ Liquid > 10 mL	
3	Auto electro01	Test of size and concentration of piece of DNA	Per time	3,000	3,000	7 working days	> 20 uL	Test no more than 48 samples at a time

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	Biotyper01	<i>Salmonella</i> sp. in food	Per sample	760	760	7 working days	> 50 g	1. The sample contains in the clean and cool container and labels cleanly sample name. 2. Don't pool samples in the same container for sending of samples more than 1 sample
5	Biotyper02	<i>Staphylococcus aureus</i> in food	Per sample	450	450	7 working days	> 50 g	1. The sample contains in the clean and cool container and labels cleanly sample name. 2. Don't pool samples in the same container for sending of samples more than 1 sample
6	Biotyper03	<i>Clostridium perfringens</i> in food	Per sample	1,000	1,000	7 working days	> 50 g	1.The sample contains in the clean and cool container and labels cleanly sample name. 2. Don't pool samples in the same container for sending of samples more than 1 sample
7	Biotyper06	Identification of microorganisms of first colony	per colony	500	500	5 working days	> 1 colony	1. Next colony will be charged 100 baht per colony. 2. Don't pool samples in the same container for sending of samples more than 1 sample
8	Biotyper07	<i>Bacillus cereus</i> in food	Per sample	500	500	7 working days	> 50 g	1. The sample contains in the clean and cool container and labels cleanly sample name. 2. Don't pool samples in the same container for sending of samples more than 1 sample
9	Biotyper08	<i>Legionella</i> in water	Per sample	1,500	1,500	15 working days	> 1 L	1. The sample contains in the clean such as new container or sterilized bottle. 2. Don't touch the mouth of bottle and should be emptied for a while before collecting the samples. 3. Cool the sample during sending it.
10	Biotyper09	Test of <i>Pseudomonas aeruginosa</i> in food	Per sample	450	450	7 working days	> 50 g	
11	CEN01	Centrifugation of sample (volume ≤ 30 mL)	Per time	60	100	3 working days	< 30 mL	not including of tube price
12	CEN02	Centrifugation of sample volume ≤ 30 mL for using time > 30 minutes	Per time	120	200	3 working days	< 30 mL	not including of tube price
13	CHARM EZ01	Quantitative analysis of aflatoxins in food, cereal and milk	Per sample	1,400	1,400	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
14	CHARM EZ02	Quantitative analysis of ochratoxin in food and cereal	Per sample	1,400	1,400	7 working days	> 50 g/ 50 mL	1.Sample contains in closed container or bag. 2.Separate sample and clearly identify before sending sample
15	ELECTRO01A	Preparation of samples for test of DNA, protein and electrophoresis set (for small plate)	Per sample	140	200	3 working days	> 50 mg	
16	ELECTRO01B	Preparation of samples for test of DNA, protein and electrophoresis set (for big plate)	Per sample	280	400	3 working days	> 50 mg	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
17	Enumeration01	Quantitative analysis of total microorganisms	Per sample	550	550	7 working days	> 25 g/ 25 mL	Contain in closed container
18	Enumeration02	Quantitative analysis of yeasts and molds	Per sample	600	600	7 working days	> 25 g/ 25 mL	Contain in closed container
19	Enumeration03	Quantitative analysis of <i>Staphylococcus aureus</i>	Per sample	600	600	7 working days	> 25 g/ 25 mL	Contain in closed container
20	Enumeration04	Quantitative analysis of <i>Bacillus cereus</i>	Per sample	600	600	7 working days	> 25 g/ 25 mL	Contain in closed container
21	Enumeration05	Quantitative analysis of <i>Escherichia coli</i>	Per sample	550	550	7 working days	> 25 g/ 25 mL	Contain in closed container
22	Enumeration06	Quantitative analysis of Coliforms	Per sample	550	550	7 working days	> 25 g/ 25 mL	Contain in closed container
23	GELDOC01	Imaging of gel	Per sample	60	100	3 working days	> 50 mg	
24	GELDOC03	Analysis of molecular weight (profile analysis)	Per sample	140	200	3 working days	> 50 mg	
25	GELDOC04	Quantitative analysis of intensity OD	Per sample	140	200	3 working days	> 50 mg	
26	HALAL01	Analysis of contamination of porcine DNA with RT-PCR including of extraction	Per sample	1,400	1,400	5 working days	> 50 mg	
27	LSC01	Qualitative analysis of aflatoxins in food, cereal and milk	Per sample	1,300	1,300	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
28	LSC02	Qualitative analysis of macrolide in milk	Per sample	1,100	1,100	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
29	LSC03	Qualitative analysis of chloramphenicol in milk	Per sample	1,300	1,300	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
30	LSC04	Qualitative analysis of organophosphates in water	Per sample	1,300	1,300	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
31	LSC05	Qualitative analysis of carbamates in water	Per sample	1,300	1,300	7 working days	> 50 g/ 50 mL	1. Sample contains in closed container or bag. 2. Separate sample and clearly identify before sending sample
32	Multimode01	Qualitative, quantitative analysis of compounds and others with end point	Per time	240	400	5 working days	> 100 uL	Customers prepare samples in Microplate themselves.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
33	Multimode02	Qualitative, quantitative analysis of compound and others with kinetic or spectrum	Per time	480	800	5 working days	> 100 uL	Customers prepare samples in Microplate themselves.
34	Multimode03	Quantitative of DNA, RNA and Protein in sample (not more than 16 samples)	Per time	500	500	5 working days	> 2 uL	
35	Multimode04	DNA extraction and Quantitative of DNA, RNA and Protein in sample (not more than 16 samples)	Per time	3,700	3,700	5 working days	> 50 mg	
36	Multimode05	Quantitative analysis of hexavalent chromium (Cr ⁶⁺) in water	Per sample	1,000	1,000	8 working days	> 500 mL	1. Should contain sample in cool container. 2. Sample must be homogeneous. 3. Contain sample in a sealed container. 4. The elemental concentrations that effect of method are Iron (Fe) > 1 mg/L, Molybdenum (Mo) and Mercury (Hg) > 200 mg/L. The Fe, Mo and Cr must be test with an ICP-OES and Hg must be test with a direct mercury machine before an additional charge of 2,700 baht in charged.
37	Nanodrop01	DNA extraction and quantitative analysis of DNA	Per sample	400	400	5 working days	> 50 mg	
38	Nanodrop02	Quantitative analysis of DNA	Per sample	200	200	5 working days	> 50 mg	
39	NEXT GENERATION 01	Quantitative analysis of dsDNA with fluorometer	Per sample	360	600	10 working days	> 30 mg	Contained sample in chilled container
40	NEXT GENERATION 02	Quantitative analysis of dsDNA with fluorometer	Per sample	200	200	10 working days	> 30 mg	1. Contained sample in chilled container 2. Chemical's customer
41	NEXT GENERATION 03	Sample preparation of SAFESeq	Per sample	1,200	2,000	10 working days	> 30 mg	Contained sample in freezer container
42	NEXT GENERATION 04	Sample preparation of SAFESeqr	Per sample	480	800	10 working days	> 30 mg	1. Contained sample in chilled container 2. Chemical's customer
43	NEXT GENERATION 05	Classification of animal species with SAFESeqr	Per sample	1,440	2,400	10 working days	> 30 mg	Contained sample in chilled container

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
44	NEXT GENERATION 06	Classification of animal species with SAFESeqr	Per sample	360	600	10 working days	> 30 mg	1. Contained sample in chilled container 2. Chemical's customer
45	NEXT GENERATION 07	Identification of animal species with next generation sequencer	Per sample	3,000	5,000	10 working days	> 30 mg	Contained sample in chilled container
46	NEXT GENERATION 08	Identification of animal species with next generation sequencer	Per sample	1,140	1,900	10 working days	> 30 mg	1. Contained sample in chilled container 2. Chemical's customer
47	NEXT GENERATION 09	Identification of animal species with next generation sequencer (package of 96 samples)	Per sample	1,500	2,500	10 working days	Solid > 0.5 g/ Liquid > 10 mL	1. Contained sample in chilled container 2. 96 samples for starting analysis
48	NEXT GENERATION 10	Identification of 16S microorganisms (Package 20 samples)	Per sample	6,700	6,700	10 working days	Solid > 0.5 g/ Liquid > 10 mL	1. Contained sample in chilled container 2. 20 samples for starting analysis
49	NEXT GENERATION 11	Identification of 16S microorganisms (package 90 samples)	Per sample	4,000	4,000	10 working days	Solid > 0.5 g/ Liquid > 10 mL	1. Contained sample in chilled container 2. 90 samples for starting analysis
50	NEXT GENERATION 12	Charge of using instrument	Per time	4,000	4,000	10 working days	Solid > 0.5 g/ Liquid > 10 mL	
51	PCR02	Increasing the amount of DNA (PCR)	Per sample	180	300	5 working days	> 50 mg	Make an appointment to receive the result 5 working days in case want to report the test result.
52	PLATE01	Qualitative, quantitative analysis of compounds and others with end point	Per sample	60	100	3 working days	> 50 mg	Customer prepares sample
53	PLATE02	Qualitative, quantitative analysis of compound and others with kinetic or spectrum	Per sample	240	400	3 working days	> 50 mg	Customer prepares sample
54	PLATE03	Qualitative, quantitative analysis of compound and others with end point	Per sample	120	200	3 working days	> 50 mg	Charge including of preparation
55	PLATE04	Qualitative, quantitative analysis of compound and others with kinetic or spectrum	Per sample	360	600	3 working days	> 50 mg	Charge including of preparation
56	PLATE05	Quantitative analysis of antioxidants (DDPH) of extract	Per sample	1,320	2,200	5 working days	> 50 mg	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
57	RT-PCR01	Amplify and quantify of interesting gene	Per sample	1,200	1,200	7 working days	> 50 mg/ 1 mL	
58	RT-PCR02	Study of optimized condition for interesting primer by using of gradient PCR for amplify of interesting gene	Per sample	3,200	3,200	10 working days	> 50 mg/ 1 mL	

รายการเครื่องมือวิจัยทางวิทยาศาสตร์งานทำแห้งตัวอย่าง/ระเหยตัวอย่างและเตรียมตัวอย่าง

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	B_MILL01	Milling of sample	Per sample	250	250	7 working days	> 10 g	
2	C_GRIN01	Milling of sample	Per 10 g	250	250	5 working days	> 10 g	
3	FD01	Freeze drying sample	Per sample	300	300	7 working days	< 40 g/ 40 mL	
4	FD02	Freeze drying sample (for preparation sample to analysis with other OSIT's equipment)	Per sample	300	300	3 working days	< 30 g/ 30 mL	volume of sample ≤ 130 mL or enough for analysis only
5	FD03	Freeze drying sample (Freeze dryer; CHRIST, DELTA 2-24 LSCplus)	Per hour	200	200	7 working days	> 2 L	
6	FD04	Freeze drying sample in ampoule (Freeze dryer; CHRIST, DELTA 2-24 LSCplus)	Per sample	220	220	7 working days	< 2 mL	Customer prepares sample in ampoule
7	FD05	Freeze drying sample in syringe (Freeze dryer; CHRIST, DELTA 2-24 LSCplus)	Per sample	25	25	7 working days	< 1 mL	Customer prepares sample in syringe
8	Freezer mill01	Grinding sample thoroughly for further testing within OSIT	Per time	1,000	1,000	5 working days	< 5 g	Grind up to 4 samples at a time
9	Freezer mill02	Grind the sample to no more than 5 g thoroughly	Per sample	1,000	1,000	5 working days	> 5 g	
10	FURNACE01	Combustion of sample at high temperature	Per sample	250	250	7 working days	> 1 g	Maximum combustion temperature 900 °C
11	HOMO01	Mixing of liquid to homogeneous sample	Per time	100	100	3 working days	< 30 mL	1 time = 5 minutes
12	MICROWAVE01	Digestion of sample with microwave digester	Per 0.5g	250	250	5 working days	> 0.5 g	
13	Nitrogen evap01	Evaporation of organic solvent in sample (not more than 10 samples; 10 mL per sample)	Per time	200	200	5 working days	> 10 mL	
14	R_EVAP01	Evaporation of solvent in sample	Per hour	600	600	7 working days	> 10 mL	1. The appointment date 7 working days of sample return in case of ≤ 1 L. 2. The appointment date of sample return in case of > 1 L based on sample volume and solvent type.
15	R_EVAP02	Dried sample for testing within OSIT	Per sample	300	300	3 working days	< 50 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
16	SFE01	Extraction of sample with super critical fluid (SFE) (final extract volume is not more than 100 mL)	Per sample	1,000	1,000	7 working days	crushed sample > 200 g, uncrushed sample > 500 g	1. The sample is dry and has a particle size of not more than 0.5 mm. 2. In case of sample is not mashed or is not optimized size. Additional grinding fee will be charge depending on the nature of sample.
17	Sieve01	Test of amount of substance remaining on the sieve from screening according to the size on the sieve no more than 3 sizes	Per sample	200	200	7 working days	> 1 kg	sieve no.: 4, 8, 16, 20, 30, 50, 60, 70, 100, 140, 200, 230, 325 and 400
18	SPE01	Extraction sample with SPE for testing in OSIT	Per sample	1,000	1,000	7 working days	Solid > 100 g/ Liquid > 2 L	The sample drying fee is not included in case of sample drying.
19	SPE02	Extraction solid sample with SPE	Per sample	1,000	1,000	0 working days	< 10 g	The sample drying fee is not included in case of sample drying.
20	SPE03	Extraction liquid sample with SPE	Per sample	1,000	1,000	7 working days	< 500 mL	The sample drying fee is not included in case of sample drying.
No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
21	TUBE_FURNA CE01	Combustion of sample at high temperature	Per hour	250	250	7 working days	> 1 g	1. Not including charge of nitrogen gas 2. Maximum combustion temperature is 1500 °C.

รายการทดสอบทั่วไป และ Wet Lab

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	AIR- DRY_LOSS01	Quantitative analysis of Air-dry loss	Per sample	400	400	8 working days	> 500 g	In the case of preparing samples to send other test items, the date is set to be 4 working days.
2	INSOLUBLE_I MPURECPO01	Quantitative analysis of insoluble and impurity in crude palm oil (CPO)	Per sample	1,000	1,000	8 working days	> 50 mL	
3	VOLATILE_CP O01	Quantitative analysis of moisture and volatile matter in crude palm oil (CPO)	Per sample	1,000	1,000	8 working days	> 50 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	WETLAB01 (TS)	Quantitative analysis of total solids in water	Per sample	350	350	7 working days	> 250 mL	1. Sample must be kept in chilled container (temperature 4+2 °C) 2. The scope of accredited laboratory according to ISO/IEC 17025 of TS in the water sample is in the range of 25 mg/L-5,000 mg/L.
5	WETLAB02 (TSS)	Quantitative analysis of total suspended solids in water	Per sample	350	350	7 working days	waste water > 250 mL, well water and drain water > 2 L	1. Sample must be kept in chilled container (temperature 4+2 °C) 2. The scope of accredited laboratory according to ISO/IEC 17025 of TSS in the waste water sample is in the range of 5 mg/L-3,500 mg/L.
6	WETLAB03 (TDS)	Quantitative analysis of total dissolved solids in water	Per sample	350	350	7 working days	> 250 mL	1. Sample must be kept in chilled container (temperature 4+2 °C) 2. The scope of accredited laboratory according to ISO/IEC 17025 of TDS in the water and waste water samples are in the range of 30 mg/L-5,000 mg/L.
7	WETLAB04	Quantitative analysis of biochemical oxygen demand in water (BOD)	Per sample	350	350	7 working days	well water > 2L, waste water > 300 mL	The appointment date 10 working days of receive test result in case of sending sample on Monday, Tuesday, Friday and Saturday.
8	WETLAB06	Quantitative analysis of moisture	Per sample	400	400	7 working days	> 30 g	In the case of preparing samples to send other test items, the date is set to be 4 working days.
9	WETLAB07	Quantitative analysis of ash	Per sample	500	500	7 working days	> 20 g	
10	WETLAB08	Quantitative analysis of total fats	Per sample	1,000	1,000	7 working days	> 100 g	
11	WETLAB09	Quantitative analysis of available chlorine	Per sample	550	550	7 working days	> 50 mL	
12	WETLAB10	Quantitative analysis of organic carbon	Per sample	500	500	7 working days	> 20 g	
13	WETLAB11	Quantitative analysis of organic matter	Per sample	500	500	7 working days	> 20 g	
14	WETLAB12	Quantitative analysis of volatile suspension solids in water (VSS)	Per sample	500	500	7 working days	> 300 mL	
15	WETLAB13	Quantitative analysis of volatile solids in water (VS)	Per sample	500	500	7 working days	> 300 mL	
16	WETLAB14	Quantitative analysis of saponification value in oil	Per sample	1,000	1,000	7 working days	> 30 mL	
17	WETLAB15	Quantitative analysis of acid value in oil and lauric acid	Per sample	600	600	7 working days	> 10 g	
18	WETLAB16	Quantitative analysis of free fatty acid in oil (FFA)	Per sample	600	600	7 working days	> 10 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
19	WETLAB17	Quantitative analysis of iodine value in oil (IV)	Per sample	1,000	1,000	7 working days	> 20 mL	
20	WETLAB18	Quantitative analysis of neutralizing value in soil	Per sample	500	500	7 working days	> 10 g	
21	WETLAB20	Quantitative analysis of peroxide value in oil (PV)	Per sample	500	500	7 working days	> 50 mL	
22	WETLAB21	Quantitative analysis of total hardness in water	Per sample	400	400	7 working days	> 500 mL	
23	WETLAB22	Quantitative analysis of total alkalinity in water	Per sample	400	400	7 working days	> 500 mL	
24	WETLAB25	Taste of drinking water	Per sample	50	50	7 working days	> 50 mL	
25	WETLAB26	Odour of water	Per sample	50	50	7 working days	> 50 mL	
26	WETLAB27	Quantitative analysis of settleable solids in water	Per sample	200	200	7 working days	> 1 L	
27	WETLAB29	Analysis of temperature	Per sample	100	100	7 working days	> 10 g	
28	WETLAB30	Quantitative analysis of unsaponification value in oil	Per sample	2,000	2,000	10 working days	> 30 mL	Kept in closed container
29	WETLAB31	Quantitative analysis of soap in oil	Per sample	500	500	7 working days	> 100 mL	Kept in closed container
30	WETLAB32	Quantitative analysis of oil & grease in water	Per sample	400	400	7 working days	> 2 L	
31	WETLAB33	Visual analysis	Per sample	100	100	7 working days	> 500 g	
32	WETLAB34	Quantitative analysis of dissolved oxygen in water (DO)	Per sample	300	300	5 working days	well water; > 2L, waste water; > 300 mL	
33	WETLAB35	Quantitative analysis of M-alkalinity in water	Per sample	400	400	7 working days	> 500 mL	
34	WETLAB36	Quantitative analysis of P-alkalinity in water	Per sample	400	400	7 working days	> 500 mL	
35	WETLAB39	Quantitative analysis of water soluble in solid	Per sample	500	500	7 working days	> 100 g	
36	WETLAB40	Quantitative analysis of ZnO	Per sample	600	600	7 working days	> 10 g	
37	WETLAB41	Quantitative analysis of loss of ignition (LOI)	Per sample	1,000	1,000	7 working days	> 10 g	
38	WETLAB42	Quantitative analysis of unburned carbon in ash	Per sample	1,000	1,000	7 working days	> 10 g	
39	WETLAB45	Quantitative analysis of OH-alkalinity in water	Per sample	400	400	7 working days	> 500 mL	1. In case of customer did not test for total hardness or total alkalinity, charge 700 baht/sample. 2. Need to testing of total hardness and total alkalinity (800 baht)
40	WETLAB46	Quantitative analysis of carbonate alkalinity in water	Per sample	400	400	7 working days	> 500 mL	1. In case of customer did not test for total hardness or total alkalinity, charge 700 baht/sample. 2. Need to testing of total hardness and total alkalinity (800 baht)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
41	WETLAB47	Quantitative analysis of bicarbonate alkalinity	Per sample	400	400	7 working days	> 500 mL	1. In case of customer did not test for total hardness or total alkalinity, charge 700 baht/sample. 2. Need to testing of total hardness and total alkalinity (800 baht)
42	WETLAB48	Analysis of density of liquid	Per sample	500	500	7 working days	> 50 mL	
43	WETLAB49	Quantitative analysis of aluminium oxide (Al ₂ O ₃) in polyaluminium chloride (PAC)	Per sample	600	600	7 working days	> 20 g	
44	WETLAB50	Quantitative analysis of % acidic concentration	Per sample	1,100	1,100	7 working days	> 50 mL	Analysis of density of sample for calculation of % unit
45	WETLAB51	Quantitative analysis of % basic concentration and free alkaline	Per sample	600	600	7 working days	> 50 mL	Analysis of density of sample for calculation of % unit
46	WETLAB53	Quantitative analysis of non-carbonate hardness in water	Per sample	400	400	7 working days	> 50 mL	1. In case of customer did not test for total hardness or total alkalinity, charge 700 baht/sample. 2. Need to testing of total hardness and total alkalinity (800 baht)
47	WETLAB54	Analysis of pesticides (test kit)	Per sample	1,000	1,000	5 working days	> 100 g/ 500 mL	Send at least 5 samples at the same time, charge 500 baht/sample.
48	WETLAB55	Quantitative analysis of NaCl	Per sample	600	600	7 working days	> 50 g/ 500 mL	Kept in closed container
49	WETLAB57	Analysis of % corrosion of material	Per sample	500	500	7 working days	> 3 pieces	Delivered with solution to be soaked.
50	WETLAB59	Analysis of ethanol solubility of essential oil	Per sample	300	300	7 working days	> 20 mL	
51	WETLAB60	Quantitative analysis of sulfurdioxide in chemical	Per sample	600	600	7 working days	> 30 g/ 30 mL	Kept in closed container
52	WETLAB61	Quantitative analysis of CaCl ₂	Per sample	600	600	7 working days	> 30 g	
53	WETLAB63	Quantitative analysis of iodine number in charcoal	Per sample	800	800	7 working days	> 30 g	
54	WETLAB66	Color appearance	Per sample	200	200	5 working days	> 2g/ 5 mL	

ทดสอบจุลชีววิทยาในน้ำ

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	MICRO01	Qualitative analysis of total Coliform bacteria in water(MPN method; AWWA 9223B)	Per sample	500	500	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container
2	MICRO02	Qualitative analysis of <i>E.coli</i> in water (selective method)	Per sample	500	500	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
3	MICRO03	Qualitative analysis of <i>S.aureus</i> in water (selective method)	Per sample	450	450	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
4	MICRO04	Qualitative analysis of <i>Salmonella</i> sp. in water (selective method)	Per sample	450	450	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
5	MICRO08	Qualitative analysis of Fecal Coliform bacteria in water	Per sample	400	400	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
6	MICRO09	Qualitative analysis of Colifroms, <i>E.coli</i> , <i>S.aureus</i> and <i>Salmonella</i> sp. in water	Per sample	1,400	1,400	7 working days	> 600 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
7	MICRO10	Qualitative analysis of <i>Clostridium perfringens</i> in water	Per sample	600	600	7 working days	> 200 mL	1. Contained in clean container and label. 2. Don't contain each sample in the same container.

ทดสอบจุลชีววิทยาในอาหาร

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	Biotyper10	Test of <i>Listeria monocytogenes</i>	Per sample	500	500	7 working days	> 50 g / 50 mL	1. The sample contains in the clean and cool container and labels cleanly sample name. 2. Don't pool samples in the same container for sending of samples more than 1 sample
2	MICRO_FOOD02	Qualitative analysis of <i>E.coli</i> in food	Per sample	500	500	7 working days	> 50 g	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
3	MICRO_FOOD06	Qualitative analysis of yeast and mold in food	Per sample	500	500	7 working days	> 50 g	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
4	MICRO_FOOD08	Qualitative analysis of Fecal Coliform bacteria	Per sample	300	300	7 working days	> 50 g	1. Contained in clean container and label. 2. Don't contain each sample in the same container.
5	MICRO_FOOD10	Qualitative analysis of Lactic acid bacteria	Per sample	400	400	7 working days	> 50 g	1. Contained in clean container and label. 2. Don't contain each sample in the same container.

ไม้ยางพาราแปรรูป : มอก.2423-2552

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	WOOD01A	Analysis of dimension of rubber wood sawn timber	Per sample	400	400	10 working days	5 pieces	The appointment date 10 working days o f receive test result in case of sending 5 samples sent in same day.
2	WOOD01B	Analysis of size allowance of rubber wood sawn timber	Per sample	400	400	10 working days	5 pieces	The appointment date 10 working days o f receive test result in case of sending 5 samples sent in same day.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
3	WOOD02	Qualitative analysis of characteristics of rubber wood sawn timber	Per sample	300	300	10 working days	5 pieces	The appointment date 10 working days of receive test result in case of sending 5 samples sent in same day.
4	WOOD03	Analysis of sawing of rubber wood sawn timber	Per sample	300	300	10 working days	5 pieces	The appointment date 10 working days of receive test result in case of sending 5 samples sent in same day.
5	WOOD04	Quantitative analysis of moisture of rubber wood sawn timber	Per sample	500	500	10 working days	5 pieces	The appointment date 10 working days of receive test result in case of sending 5 samples sent in same day.
6	WOOD05	Quantitative analysis of % boric acid equivalent (BAE) of rubber wood sawn timber (type 2)	Per sample	1,500	1,500	10 working days	1 piece (spare 2 pieces)	The appointment date 10 working days of receive test result in case of sending 5 samples sent in same day.
7	WOOD06	Logo and label of rubber wood sawn timber	Per sample	100	100	10 working days	1 piece (spare 2 pieces)	The appointment date 10 working days of receive test result in case of sending 5 samples sent in same day.

การให้บริการน้ำกลั่น

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	DI01	DI water from E-Pure for HPLC grade (deionized distilled)	Liter	200	200	1 working days	> 1 L	Arrange the appointment date depends on volume of customer require.
2	DW01	Double distill water	Liter	30	30	3 working days	> 1 L	The appointment date of receive test result depends on volume customer require.
3	RO01	Reverse osmosis water (RO)	Liter	6	6	1 working days	> 1 L	The appointment date depends on the number of volume required.

การทดสอบกลุ่มชีวมวล (Biomass)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	BIOMASS01	Quantitative analysis of total moisture of biomass	Per sample	2,000	2,000	10 working days	> 100 g	Analysis air dry loss and Macro TGA
2	BIOMASS02	Quantitative analysis of air dry loss of biomass	Per sample	400	400	4 working days	> 100 g	
3	BIOMASS03	Preparation by dried sample of biomass	Per sample	400	400	4 working days	> 100 g	dried basis analysis
4	BIOMASS04	Proximate analysis of moisture, volatile matter, fixed carbon and ash of biomass	Per sample	1,120	1,600	6 working days	> 100 g	
5	BIOMASS05	Ultimate analysis (C, H,N,O, S, gross and net calorific value from calculation) of biomass	Per sample	2,580	4,300	8 working days	> 10 g	
6	BIOMASS06	Analysis of gross calorific value of biomass	Per sample	840	1,400	5 working days	> 10 g	Not including of preparation charge
7	BIOMASS07	Analysis of net calorific value of biomass	Per sample	2,140	3,300	10 working days	> 10 g	Not including of preparation charge

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
8	BIOMASS08	Quantitative analysis of As, Cd, Cr, Cu, Ni, Zn and Pb of biomass	Per sample	2,940	4,900	8 working days	> 10 g	
9	BIOMASS09	Quantitative analysis of mercury (Hg) of biomass	Per sample	600	1,000	8 working days	> 10 g	
10	BIOMASS10	Analysis of ash fusion temperature	Per sample	3,000	3,000	10 working days	> 3 kg for biomass sample/ > 200 g for ash sample	

การทดสอบน้ำมัน/น้ำมันไบโอดีเซล

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	BIODIESEL01	Quantitative analysis of methyl ester or ethyl Ester and linoleic acid methyl ester in biodiesel	Per sample	2,500	2,500	8 working days	> 2 mL	
2	BIODIESEL02	Analysis of density at 15 °C of biodiesel	Per sample	500	500	5 working days	> 500 mL	
3	BIODIESEL03	Analysis of viscosity at 40 °C of biodiesel	Per sample	600	600	7 working days	> 30 mL	
4	BIODIESEL05	Quantitative analysis of carbon residue in biodiesel	Per sample	900	900	8 working days	> 70 mL	
5	BIODIESEL06	Quantitative analysis of sulphate ash in biodiesel	Per sample	1,000	1,000	8 working days	> 200 mL	
6	BIODIESEL07	Quantitative analysis of total contaminate in biodiesel	Per sample	1,200	1,200	8 working days	> 3 L	
7	BIODIESEL08	Quantitative analysis of water in biodiesel	Per sample	800	800	7 working days	> 30 mL	
8	BIODIESEL09	Analysis of oxidation stability at 110 °C of biodiesel	Per sample	1,000	1,000	7 working days	> 20 mL	If the number of sample > 3 samples, an additional 2 working days per sample can be scheduled for delivery.
9	BIODIESEL10	Analysis of total acid value of biodiesel	Per sample	800	800	7 working days	> 200 mL	
10	BIODIESEL11	Analysis of iodine value of biodiesel (IV)	Per sample	800	800	8 working days	> 20 mL	
11	BIODIESEL12	Quantitative analysis of methanol or ethanol in biodiesel	Per sample	2,200	2,200	8 working days	> 20 mL	
12	BIODIESEL13A	Quantitative analysis of mono-, di-, tri-glyceride in biodiesel	Per sample	4,700	4,700	8 working days	> 2 mL	
13	BIODIESEL13B	Quantitative analysis of free glycerine in biodiesel	Per sample	3,300	3,300	8 working days	> 2 mL	
14	BIODIESEL13C	Quantitative analysis of test of monoglyceride in biodiesel	Per sample	3,300	3,300	8 working days	> 2 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
15	BIODIESEL13D	Quantitative analysis of diglyceride in biodiesel	Per sample	3,300	3,300	8 working days	> 2 mL	
16	BIODIESEL13E	Quantitative analysis of triglyceride in biodiesel	Per sample	3,300	3,300	8 working days	> 2 mL	
17	BIODIESEL17	Analysis of density API at 60 °F of biodiesel	Per sample	500	500	5 working days	> 500 mL	

การทดสอบยางและพอลิเมอร์

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	GPC01	Analysis of molecular weight	Per sample	3,000	3,000	14 working days	> 2 g	Sample needs to dissolve in THF
2	RP-ASTM D3578-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pairs	
3	Rubber-Barrier- 01	Analysis of hardness	Per sample	400	400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	Rubber-Barrier-02	Analysis of tensile strength and elongation	Per sample	400	400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	
5	Rubber-Barrier-03	Accelerating with geer aging	Per sample	1,400	1,400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
6	Rubber-Barrier-04	Accelerating with ozone	Per sample	5,200	5,200	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	
7	Rubber-Barrier-05	Duration of flammability	Per sample	2,500	2,500	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
8	Rubber-Barrier-06	Quantitative analysis of total rubber	Per sample	970	970	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	
9	Rubber-Barrier-07	Molding and cutting of sample	Per sample	600	600	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 5 pieces or 10 cm x10 cm x0.3 cm 5 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
10	Rubber-Guide post-01	Analysis of hardness	Per sample	400	400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
11	Rubber-Guide post-02	Analysis of tensile strength and elongation	Per sample	400	400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	
12	Rubber-Guide post-03	Accelerating with geer aging	Per sample	1,400	1,400	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	Rubber-Guide post-04	Duration of flammability	Per sample	2,500	2,500	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	
14	Rubber-Guide post-05	Quantitative analysis of total rubber	Per sample	970	970	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
15	Rubber-Guide post-06	Cutting of sample	Per sample	200	200	10 working days	10 cm x10 cm x0.6 cm 1 piece or 10 cm x10 cm x0.2 cm 3 pieces or 10 cm x10 cm x0.3 cm 3 pieces	
16	RUBBER01	Analysis of tensile strength and elongation at break (3 repeat) (Tensile)	Per sample	240	400	7 working days	> 150 mm x 150 mm	1. In case of customer want to test in condition other than the temperature of 23 C±2 C, the service additional free is 1100 baht per sample. 2. In case of using liquid nitrogen, the fixed fee of 6,000 baht per time, which the customer must pay when send sample.
17	RUBBER02	Analysis of tear strength (3 repeat) (Tensile)	Per sample	240	400	7 working days	> 10 mm x 10 mm thickness 2 mm - 3 mm	1. In case of use temperature control range of 25 °C to 100 °C, an additional charge of 250 baht per sample. 2. In case of use temperature control of more than 100 °C, an additional charge of 500 baht per sample. 3. In case of use temperature control range of -70 °C to 26 °C, an additional charge of 500 baht per sample with liquid nitrogen costing 80 baht per liter. 4. In case of testing the number of repetition of increased from 3 repetitions, charge 50 baht per sample.
18	RUBBER03	Quantitative analysis of ash in rubber (ASTM D1278, Wet lab)	Per sample	500	500	7 working days	> 20 g	
19	RUBBER04	Quantitative analysis of volatile matter in rubber (ASTM D1278, Wet lab)	Per sample	300	500	7 working days	> 20 g	
20	RUBBER05	Analysis of initial plasticity (P ₀) of rubber (Plastimeter)	Per sample	120	200	7 working days	> 400 g	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
21	RUBBER06	Analysis of plasticity retention index (PRI) of rubber (Plastimeter)	Per sample	240	400	7 working days	> 400 g	
22	RUBBER07	Analysis of rebound resilience at room temperature of rubber (Rebound)	Per sample	240	400	7 working days	> i.d. 41 mm X 12.5 mm	
23	RUBBER08	Analysis of rebound resilience at room temperature of rubber (Rebound)	Per sample	300	500	7 working days	> i.d. 41 mm x 12.5 mm	
24	RUBBER09	Analysis of hardness (Hardness)	Per point	50	80	7 working days	> 2 cm x 2 cm x 0.6 cm	Shore A, Shore D, Shore OO, IRHD M and Shore C
25	RUBBER10	Analysis of specific gravity of rubber (Densimeter)	Per sample	300	500	7 working days	> 3 g	In case of customer wants to test the value of weight, a fee of 100 baht per sample will be charged.
26	RUBBER11	Quantitative analysis of mooney viscosity of rubber (Mooney)	Per sample	300	500	7 working days	> 30 g	1 repeat analysis
27	RUBBER12	Analysis of curing of rubber (MDR)	Per sample	300	500	7 working days	> 30 g	1 repeat analysis
28	RUBBER13	Analysis of rheology of rubber (RPA)	Per sample	360	600	7 working days	> 30 g	1 repeat analysis
29	RUBBER14	Analysis of additive dispersion in rubber (Disper grader)	Per sample	300	500	7 working days	> 2 cm x 3 cm x 2 cm	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
30	RUBBER15	Analysis of limiting oxygen index (LOI) (Oxygen index)	Per sample	900	1,500	7 working days	rubber heet > 2 X 20 cm thickness 1 mm, rubber foam > 2 X 20 cm thickness 10 mm	
31	RUBBER16	Analysis of ross flexing of rubber (Ross flexing)	Per sample	480	800	8 working days	> 2.5 cm x 15 cm x 7 cm	Arrange to receive test results 8 working days for sending ≤ 12 samples.
32	RUBBER17	Analysis of de mattia of rubber (De mattia) (< 250,000 cycles)	Per sample	480	800	8 working days	> 2.5 cm x 15 cm x 7 cm	Arrange to receive test results 8 working days for sending ≤ 12 samples.
33	RUBBER18	Analysis of thickness (average 5 points) (Thickness gauge)	Per sample	60	100	5 working days	thickness > 0.01 mm	
34	RUBBER19	Analysis of deformation after pressing of rubber (Compression set)	Per sample	500	500	7 working days	> 10 cm x 10 cm x 12.5 mm	
35	RUBBER20	Accelerating with geer aging of rubber	Per day	720	1,200	7 working days	> 10 cm x 10 cm	Additional appointment date 2 working days to receive test result in case of accelerating ≥ 3 days.
36	RUBBER21	Accelerating with ozone of rubber with light intensity is not more than 100 pphm	Per day	1,600	1,600	7 working days	> 2 cm x 15 cm	1. Additional appointment date 2 working days to receive test result in case of accelerating ≥ 3 days. 2. Accelerating with ozone of rubber with light intensity is more than 100 pphm, charge 2,000 baht/day.
37	RUBBER22	Quantitative analysis of dirt of block rubber (ASTM D1278, Wet lab)	Per sample	500	500	7 working days	> 30 g	
38	RUBBER23	Cutting dumbbell sample (Dumbbell)	Per sample	50	50	5 working days	> 7.5 cm	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
39	RUBBER24	Analysis of stress relaxation of rubber compound or vulcanized rubber (TSSR)	Per sample	360	600	7 working days	> 100 g/150 mm x 150 mm x 2 mm	
40	RUBBER25	Analysis of conductivity resistance (per volume) (Megohm)	Per sample	360	600	7 working days	> 50 mm x 5 mm x (thickness 1 mm - 5 mm)	
41	RUBBER26	Analysis of conductivity resistance (per surface area) (Megohm)	Per sample	360	600	7 working days	> 50 mm x 5 mm x (thickness 1 mm - 5 mm)	
42	RUBBER27	Accelerating of weathering (QUV)	Per hour	60	100	10 working days	> 75 mm x 100 mm	1. Customer specifies condition of analysis: UV A, UV B and condense of water 2. The appointment date to receive test result is determined base on the time of accelerated incubation require by customer.
43	RUBBER28	Internal mixer	Per sample	360	600	7 working days	> 100 g	In case of a sample mixing weighing more than 300 g, the graph of rest result can not be report.
44	RUBBER29	Analysis of retraction at lower temperature of rubber (TR)	Per sample	600	1,000	7 working days	> 150 mm x 150 mm x 2 mm	
45	RUBBER30	Analysis of DIN abrasion	Per sample	1,500	1,500	7 working days	> 10 cm x 10 cm x 60 cm /> i.d. 16 mm x 6 mm	Customer need to specifies used method are A, B, C or D
46	RUBBER31	Analysis of taber abrasion	Per sample	1,500	1,500	7 working days	> 10 cm	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
47	RUBBER32	Analysis of NBS abrasion	Per sample	1,500	1,500	7 working days	> 10 mm x 10 mm x 6 mm	
48	RUBBER34	Analysis of heat build up (Flexometer)	Per sample	600	1,000	7 working days	> i.d. 17.8 mm x 25 mm	1. Sample size depends on standard method. 2. Additional charge in case of rubber compound molding.
49	RUBBER35	Analysis of blow out (Flexometer)	Per sample	600	1,000	7 working days	> 30 g/ > i.d. 17.8 mm X 25 mm	Customer need to specify condition of method
50	RUBBER36	Analysis of capillary rheology of rubber (Capillary rheometer)	Per sample	600	1,000	7 working days	> 30 g	
51	RUBBER37	Accelerating of multi cell aging	per day	720	1,200	7 working days	Dumbell shape ASTM D 412/sheet >10 mm x 10 mm x 12.3 mm	Customer need to specify condition of method
52	RUBBER38	Analysis of Creep & Stress	Per sample	600	1,000	7 working days	> 246 mm x 29 mm: 6 pieces	Customer need to specify condition of method such as temperature, elongation range and force.
53	RUBBER39	Analysis of akron abrasion	Per sample	1,500	1,500	7 working days	Cylinder: i.d.> 63.5 mm/ 150 g	
54	RUBBER40	Analysis of swelling index of rubber (ASTM D3616, Wet lab)	Per sample	300	500	7 working days	> 100 g	
55	RUBBER41	Analysis of gel content of rubber (ISO1166, Wet lab)	Per sample	300	500	7 working days	> 100 g	
56	RUBBER44	Analysis of dimension	per dimension	100	100	5 working days	> 1 g	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
57	RUBBER45	Analysis of peel strength (Tensile)	Per sample	300	500	5 working days	> 25 mm x 305 mm; 10 pieces	
58	RUBBER46	Cutting sample with foam cutter	Per sample	50	50	5 working days	< 10 pieces	
59	RUBBER47	Incubating sample with geer oven (for preparation sample to analysis with other OSIT's equipment)	Per sample	200	200	7 working days	> 1 piece	
60	RUBBER48	Analysis of scorch time of rubber (Mooney)	Per sample	300	500	5 working days	> 30 g	
61	RUBBER49	Analysis of stress relaxation of rubber	Per sample	300	500	5 working days	> 30 g	
62	RUBBER50	Molding of rubber	Per sample	200	200	2 working days	> 100 g	
63	RUBBER51	Analysis of indentation hardness index (Foam compression)	Per sample	300	500	5 working days	> 380 mm X 380 mm x 50 mm	
64	RUBBER52	Analysis of thickness (average 5 points)	Per sample	60	100	5 working days	Thickness > 0.002 mm	
65	RUBBER54	Analysis of constant compression strength (Foam constant load)	Per sample	1,020	1,700	10 working days	> 380 mm X 380 mm x 50 mm	
66	RUBBER55	Milling and mixing with two roll mill	Per sample	300	300	5 working days	< 200 g	
67	RUBBER56	Quantitative analysis of % change in volume of vulcanized rubber (ISO1817, Wet lab)	Per sample	1,000	1,000	12 working days	> 100 g	% change in dimension charge (vernier) 1,000 baht/sample
68	RUBBER59	QSUN Weathering tester	Per hour	300	300	12 working days	150 mm x 150 mm, thickness < 6 mm; 2 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
69	RUBBER60	Air permeability	Per sample	360	400	7 working days	sheet size 10 cm x 10 cm thickness < 1 cm: 1 piece	
70	RUBBER61	Pendulum test value of surface (Skid)	Per sample	600	1,000	12 working days	Sheet size: 30 cm x 30 cm 1 piece	
71	RUBBER62	Horizontal burning rate (Horizontal flammability)	Per sample	1,500	2,500	12 working days	> 95 mm x 300 mm and thickness < 13 mm: 6 pieces	
72	RUBBER63	Analysis of flammability and vertical burning (UL94)	Per sample	1,500	2,500	12 working days	135 mm x 13 mm x 3 mm: 15 pieces	
73	RUBBER64	Analysis of flammability and horizontal burning (UL94)	Per sample	1,500	2,500	12 working days	135 mm x 13 mm x 3 mm: 15 pieces	
74	RUBBER65	Analysis of ignition of material (heat release rate, HRR) (Cone calorimeter)	Per sample	15,000	15,000	12 working days	100 mm x 100 mm x 50 mm: 3 pieces	1. Testing 1 repeat/sample 2. 3 repeated tests or 3 samples charged 40,000 baht/sample.
75	RUBBER66	Splitting of rubber sample to thickness range 0.5 mm - 20 mm (3 pieces) (Bandknife)	Per sample	50	50	5 working days	> 30 cm	Customer need to inform expected size of sample.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
76	RUBBER67	Analysis of stiffness at low temperature (Gehman)	Per sample	600	1,000	7 working days	20 cm x 20 cm, thickness 1.8 mm - 2.2 mm; 1 piece	Temperature range: -70 °C to 30 °C
77	RUBBER68	Analysis of brittleness temperature (identify temperature range -100 °C to 30 °C) (Brittleness)	Per sample	600	1,000	7 working days	20 cm x 20 cm, thickness 1.78 mm - 2.04 mm; 5 pieces	1. In case of testing at specific temperature, charge 1000 baht per sample.
78	RUBBER69	Analysis of brittleness temperature (unidentified temperature) (Brittleness)	Per sample	1,200	2,000	7 working days	20 cm x 20 cm, thickness 1.78 mm - 2.04 mm; 5 pieces	1. Temperature range of testing of -100 °C to 30 °C. 2. In case of testing at specific temperature, charge 1000 baht per sample.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
79	RUBBER70	Analysis of collapse from compression at low temperature (Low temp compress)	Per sample	600	1,000	7 working days	Diameter 28.5 mm - 29.5 mm, thickness 12.0 mm - 13.00 mm/ Diameter 12.5 -13..5 mm, thickness 5.8 mm - 6.8 mm; 3 pieces	1. Additional charge 200 baht/day for testing time > 1 day 2. In case of sample size has diameter of 29, a height of 12.5 mm, charged 1,000 baht per repetition.
80	RUBBER71	Analysis of contact angle	Per sample	360	600	7 working days	Liquid > 1.5 mL, Sheet size > 25 mm x 75 mm x 1mm	
81	RUBBER72	Cutting of sample (3 pieces) (Foam cutter 2)	Per sample	50	50	5 working days	sheet size > 30 cm, mattress size 3 feet or 6 feet	Customer identify dimension of demanded sample for cutting.
82	RUBBER73	Acceleration or storage sample in condition of 4°C - 150 °C (Climatic chamber)	per day	500	500	8 working days	< 10 kg or size < 58 cm x 45 cm x 75 cm	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
83	RUBBER74	Acceleration or storage sample in condition of (-45)°C - 3°C (Climatic chamber)	per day	1,000	1,000	8 working days	< 10 kg or size < 58 cm x 45 cm x 75 cm	
84	RUBBER75	Acceleration or storage sample in condition of (15°C - 95°C, 15%RH - 98%RH) (Climatic chamber)	per day	700	700	8 working days	< 10 kg or size < 58 cm x 45 cm x 75 cm	
85	RUBBER76	Accelerating preparation or storage of sample in condition of 4°C - 150°C for OSIT testing (Climatic chamber)	per day	200	200	8 working days	< 10 kg or size < 58 cm x 45 cm x 75 cm	
86	RUBBER77	Accelerating preparation or storage of sample in condition of (-45) °C - 3°C for OSIT testing (Climatic chamber)	per day	300	300	8 working days	< 10 kg or < 58 cm x 45 cm x 75 cm	
87	RUBBER78	Acceleration or storage sample in condition of (15°C - 95°C, 15%RH - 98%RH) for OSIT testing (Climatic chamber)	per day	300	300	8 working days	< 10 kg OR < 58 cm x 45 cm x 75 cm	
88	RUBBER79	Analysis of surface energy (Contact angle)	Per sample	1,200	1,200	7 working days	Liquid > 1.5 mL, Sheet size > 25 mm x 75 mm x 1mm	1. Two solvents must be specified. 2. In case of using more than 2 solvents, an additional cost of 600 baht will be charged.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
89	RUBBER80	Analysis of surface tension (Contact angle)	Per sample	420	700	7 working days	Liquid > 1.5 mL, Sheet size > 25 mm x 75 mm x 1mm	
90	Rubber81	Quantitative analysis of powder in rubber gloves	Per sample	500	500	7 working days	> 150 pairs	
91	Rubber82	Test of watertightness of rubber gloves	Per sample	3,500	3,500	7 working days	> 150 pairs	
92	Rubber83	Test of vertical ball rebound	Per sample	600	1,000	10 working days	sheet size 30 cm x 30 cm: 12 pieces	
93	Rubber84	Accelerating with outdoor weathering tester	per day	600	600	12 working days	> 1 kg or size < 20 cm x 20 cm x 50 cm	
94	Rubber85	Accelerating with outdoor ozone resistance tester	per day	600	600	12 working days	> 1 kg or size < 20 cm x 20 cm x 50 cm	
95	Rubber86	Test of static and kinetic friction coefficient of material	Per sample	480	800	7 working days	> 250 mm X 200 mm	
96	Rubber87	NSS (Neutral salt spray) anti-corrosion test with condition of temperature 35 degree Celsius and salt streaming rate 0.75 mL/80 cm ² /hr - 1.50 mL/80 cm ² /hr	Per hour	30	50	10 working days	Standard size 10 cm x 15 cm	1. การนัดรับผลการทดสอบเริ่มนับจากวันที่สิ้นสุดของสภาวะการทดสอบ
97	Rubber88	AASS (Acetic acid salt spray) anti-corrosion test with condition of temperature 35 degree Celsius, salt streaming rate 0.75 mL/80 cm ² /hr - 1.50 mL/80 cm ² /hr and acetic acid filling	Per hour	36	60	10 working days	Standard size 10 cm x 15 cm	1. Appointments for test result starts from the end date of the test condition.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
98	Rubber89	CASS (Copper-accelerated acetic acid salt spray) anti-corrosion test with condition of temperature 50 degree Celsius, salt streaming rate 0.75 mL/80 cm ² /hr - 1.50 mL/80 cm ² /hr and acetic acid with copper accelerator filling	Per hour	36	60	10 working days	Standard size 10 cm x 15 cm	1. Appointments for test result starts from the end date of the test condition.
99	Rubber90	Cyclic corrosion-Air drying anti-corrosion test with condition of temperature 25 degree Celsius - 70 degree Celsius	Per hour	90	150	10 working days	Standard size 10 cm x 15 cm	1. Appointments for test result starts from the end date of the test condition.
100	Rubber91	Cyclic corrosion-Wetting anti-corrosion test with condition of temperature 25 degree Celsius - 70 degree Celsius and relative humidity 95%RH-100%RH	Per hour	120	200	10 working days	Standard size 10 cm x 15 cm	1. Appointments for test result starts from the end date of the test condition.
101	Rubber92	Cyclic corrosion-Controlled temperature and humidity anti-corrosion test with condition of temperature 25 degree Celsius - 60 degree Celsius and relative humidity 20%RH-95%RH	Per hour	150	250	10 working days	Standard size 10 cm x 15 cm	1. Appointments for test result starts from the end date of the test condition.
102	Solvent permeability01	Analysis of solvent permeability of glove (1 solvent)	Per sample	2,500	2,500	8 working days	1 box	1. Solvents are methanol, acetone, acetonitrile, dichloromethane, toluene, diethylamine, propanol, n-heptane and hydrocarbons. 2. Test case > 2 solvents make an appointment for additional test results 2 days/solvent.
103	Solvent permeability02	Analysis of solvent permeability (> 1 solvent) (additional charge from Solvent permeability01)	Per sample	1,500	1,500	10 working days	1 box	1. Solvents are methanol, acetone, acetonitrile, dichloromethane, toluene, diethylamine, propanol, n-heptane and hydrocarbons. 2. Test case > 2 solvents make an appointment for additional test results 2 days/solvent.

ทดสอบน้ำ

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	WATER01	Analysis of untreated water (As, Pb, Fe, chloride, sulfate, turbidity, fluoride, color, nitrate, Hardness, pH and TS)	Per sample	1,600	1,600	7 working days	> 1 L	
2	WATER02	Analysis of drinking water (As, Pb, Fe, chloride, fluoride, nitrate, hardness, pH, TS, <i>E.coli</i> , <i>S.aureus</i> , <i>Salmonella</i> sp. and Coliforms)	Per sample	3,300	3,300	7 working days	> 1 L	

การทดสอบน้ำมันเตา

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	FUEL_OIL01	Analysis of density at 15 °C	Per sample	500	500	5 working days	> 500 mL	
2	FUEL_OIL02	Quantitative analysis of ash	Per sample	1,000	1,000	8 working days	> 100 mL	
3	FUEL_OIL03	Analysis of gross heating value	Per sample	840	1,400	5 working days	> 10 g	

ทดสอบผลิตภัณฑ์ฟองน้ำลาเท็กซ์สำหรับทำหมอน (มอก.2741-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2741-01	Analysis of general characteristics	Per sample	100	100	10 working days	1 piece	
2	RP-TIS-2741-02	Quantitative analysis of total rubber	Per sample	970	970	10 working days	1 pieces	
3	RP-TIS-2741-03	Analysis of density	Per sample	500	500	10 working days	1 pieces	
4	RP-TIS-2741-04	Analysis of hardness index	Per sample	400	400	10 working days	1 piece	
5	RP-TIS-2741-05	Accelerating with geer aging	Per sample	1,000	1,000	10 working days	1 piece	
6	RP-TIS-2741-06	Analysis of compression set	Per sample	400	400	10 working days	1 piece	
7	RP-TIS-2741-07	Analysis of constant compression strength	Per sample	1,700	1,700	10 working days	1 piece	
8	RP-TIS-2741-08	Logo and label	Per sample	100	100	10 working days	1 piece	
9	RP-TIS-2741-09	Packing	Per sample	100	100	10 working days	1 piece	

ทดสอบผลิตภัณฑ์ฟองน้ำลาเท็กซ์สำหรับทำที่นอน (มอก.2747-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2747-01	Analysis of general characteristics	Per sample	100	100	10 working days	1 pieces	
2	RP-TIS-2747-02	Quantitative analysis of total rubber	Per sample	970	970	10 working days	1 piece	
3	RP-TIS-2747-03	Analysis of density	Per sample	500	500	10 working days	1 piece	
4	RP-TIS-2747-04	Analysis of hardness index	Per sample	400	400	10 working days	1 piece	
5	RP-TIS-2747-05	Accelerating with geer aging	Per sample	1,000	1,000	10 working days	1 piece	
6	RP-TIS-2747-06	Analysis of compression set	Per sample	400	400	10 working days	1 piece	
7	RP-TIS-2747-07	Analysis of constant compression strength	Per sample	1,700	1,700	10 working days	1 piece	
8	RP-TIS-2747-08	Logo and label	Per sample	100	100	10 working days	1 piece	
9	RP-TIS-2747-09	Packing	Per sample	100	100	10 working days	1 piece	

ทดสอบผลิตภัณฑ์แผ่นยางปูพื้น (มอก.2377-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2377-01	Molding and cutting of sample	Per sample	600	600	15 working days	rubber floor mat 10 pieces/ mixed rubber 2 kg	Specify temperature and time for rubber molding
2	RP-TIS-2377-02	Analysis of width, length and thickness	Per sample	300	300	15 working days	1 piece	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
3	RP-TIS-2377-03	Analysis of general characteristics	Per sample	100	100	15 working days	1 piece	
4	RP-TIS-2377-04	Analysis of hardness	Per sample	400	400	15 working days	1 piece	
5	RP-TIS-2377-05	Analysis of tensile strength and elongation	Per sample	400	400	15 working days	1 piece	
6	RP-TIS-2377-06	Accelerating with geer aging	Per sample	1,400	1,400	15 working days	1 piece	
7	RP-TIS-2377-07	Analysis of DIN abrasion	Per sample	800	800	15 working days	1 piece	
8	RP-TIS-2377-08	Analysis of compression set	Per sample	400	400	15 working days	1 piece	
9	RP-TIS-2377-09	Accelerating of weathering	Per sample	9,600	9,600	15 working days	1 piece	For floor mat type 2 (using outside)
10	RP-TIS-2377-10	Logo and label	Per sample	100	100	15 working days	1 piece	
11	RP-TIS-2377-11	Packing	Per sample	100	100	15 working days	1 piece	

ทดสอบผลิตภัณฑ์ล้อยางปูพื้น (มอก.2378-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2378-01	Molding and cutting of sample	Per sample	600	600	15 working days	floor mat block 10 pieces/ mixed rubber 2 kg	
2	RP-TIS-2378-02	Analysis of width, length and thickness	Per sample	300	300	15 working days	1 piece	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
3	RP-TIS-2378-03	Analysis of general characteristics	Per sample	400	400	15 working days	1 piece	
4	RP-TIS-2378-04	Analysis of hardness	Per sample	400	400	15 working days	1 piece	
5	RP-TIS-2378-05	Analysis of tensile strength and elongation	Per sample	400	400	15 working days	1 piece	
6	RP-TIS-2378-06	Accelerating with geer aging	Per sample	1,400	1,400	15 working days	1 piece	
7	RP-TIS-2378-07	Analysis of DIN abrasion	Per sample	800	800	15 working days	1 piece	
8	RP-TIS-2378-08	Analysis of pressed modulus	Per sample	400	400	15 working days	1 piece	
9	RP-TIS-2378-09	Accelerating with weathering	Per sample	9,600	9,600	15 working days	1 piece	For floor mat block type 2 (using outside)
10	RP-TIS-2378-10	Accelerating with ozone	Per sample	2,400	2,400	15 working days	1 piece	For floor mat block type 2 (using outside)
11	RP-TIS-2378-11	Logo and label	Per sample	100	100	15 working days	1 piece	
12	RP-TIS-2378-12	Packing	Per sample	100	100	15 working days	1 piece	

ทดสอบผลิตภัณฑ์แผ่นยางปูพื้นคอกสัตว์ (มอก.2584-2556)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2584-01	Molding and cutting of sample	Per sample	600	600	15 working days	5 pieces/ compound 1 kg	
2	RP-TIS-2584-02	Analysis of width, length and thickness	Per sample	300	300	15 working days	5 pieces	Report by average result of 5 pieces

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
3	RP-TIS-2584-03	Analysis of general characteristics	Per sample	100	100	15 working days	1 piece	
4	RP-TIS-2584-04	Analysis of hardness	Per sample	400	400	15 working days	1 piece	
5	RP-TIS-2584-05	Analysis of tensile strength and elongation at break	Per sample	400	400	15 working days	1 piece	
6	RP-TIS-2584-06	Accelerating with geer aging	Per sample	1,400	1,400	15 working days	1 piece	
7	RP-TIS-2584-07	Analysis of DIN abrasion	Per sample	800	800	15 working days	1 piece	
8	RP-TIS-2584-08	Analysis of compression set	Per sample	400	400	15 working days	1 piece	
9	RP-TIS-2584-09	Analysis of tear strength	Per sample	400	400	15 working days	1 piece	
10	RP-TIS-2584-10	Logo and label	Per sample	100	100	15 working days	1 piece	
11	RP-TIS-2584-11	Packing	Per sample	100	100	15 working days	1 piece	

ทดสอบผลิตภัณฑ์วัสดุแผ่นเส้นใยสังเคราะห์กลุ่มดินชนิดเสริมแรง

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	Reinforce Geomat-01	Analysis of width, length and thickness	Per sample	300	300	5 working days	> 1 piece	
2	Reinforce Geomat-02	Quantitative analysis of coating	Per sample	500	500	7 working days	> 1 piece	
3	Reinforce Geomat-03	Analysis of type of polymer	Per sample	900	900	5 working days	> 1 piece	
4	Reinforce Geomat-04	Analysis of weight per unit	Per sample	400	400	7 working days	> 1 piece	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
5	Reinforce Geomat-05	Analysis of melting point	Per sample	970	970	6 working days	> 1 piece	
6	Reinforce Geomat-06	Analysis of density	Per sample	600	600	5 working days	> 1 piece	
7	Reinforce Geomat-07	Analysis of UV resistance	Per sample	2,500	2,500	10 working days	> 1 piece	
8	Reinforce Geomat-08	Analysis of thickness at compressed load 2 kPa	Per sample	400	400	10 working days	> 1 piece	
9	Reinforce Geomat-09	Quantitative analysis of Aluminium and Zinc	Per sample	1,400	1,400	11 working days	> 1 piece	

ทดสอบผลิตภัณฑ์น้ำส้มควันไม้ดิบ (มผช.659/2547), น้ำส้มควันไม้กลั่น (มผช.660/2547)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	Wood Vinegar01	Analysis of general characteristics	Per sample	100	100	7 working days	> 50 mL	Contained in closed container
2	Wood Vinegar02	Analysis of odor	Per sample	100	100	7 working days	> 50 mL	
3	Wood Vinegar03	Analysis of pH	Per sample	400	400	5 working days	> 50 mL	
4	Wood Vinegar04	Analysis of specific gravity at temperature 25 degree Celsius	Per sample	600	600	6 working days	> 100 mL	
5	Wood Vinegar05	Qualitative analysis of organic compounds	Per sample	2,800	2,800	8 working days	> 1 mL	Main compounds such as formic acid, acetic acid, formaldehyde, phenol and other organic compounds

ทดสอบยางรัดของตามมาตรฐานผลิตภัณฑ์อุตสาหกรรม (มอก.866-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-886-01	Analysis of width, length and thickness	Per sample	300	300	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 3 pieces	
2	RP-TIS-886-02	Analysis of general characteristics	Per sample	100	100	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 3 pieces	
3	RP-TIS-886-03	Analysis of tensile strength, elongation at break and modulus at 300%	Per sample	400	400	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	RP-TIS-886-04	Analysis of elongation	Per sample	400	400	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	
5	RP-TIS-886-05	Analysis of density	Per sample	500	500	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	
6	RP-TIS-886-06	Analysis of tensile strength and elongation at break after aging for 7 days	Per sample	1,800	1,800	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	
7	RP-TIS-886-07	Logo and label	Per sample	100	100	15 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
8	RP-TIS-886-08	Packing	Per sample	100	100	7 working days	Rubber band > 500 g/ Rubber tube type > 30 m: 1 piece	

ทดสอบแผ่นยางปูสนามฟุตบอล ตามมาตรฐานผลิตภัณฑ์อุตสาหกรรม (มอก.2739-2559)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2739-01	Molding and cutting sample	Per sample	600	600	15 working days	compound 1 kg	
2	RP-TIS-2739-02	Analysis of width, length and thickness	Per sample	300	300	15 working days	5 pieces	Report by average result of 5 pieces
3	RP-TIS-2739-03	Analysis of general characteristics	Per sample	100	100	15 working days	5 pieces	
4	RP-TIS-2739-04	Analysis of tensile strength and elongation at break	Per sample	400	400	15 working days	1 piece	
5	RP-TIS-2739-05	Accelerating with geer aging	Per sample	1,000	1,000	15 working days	1 piece	
6	RP-TIS-2739-06	Analysis of DIN abrasion	Per sample	800	800	15 working days	1 piece	
7	RP-TIS-2739-07	Logo and label	Per sample	100	100	15 working days	1 piece	
8	RP-TIS-2739-08	Packing	Per sample	100	100	15 working days	1 piece	

ทดสอบน้ำยางคอมพาวด์เคลือบผ้าปูสระที่เก็บน้ำ ตามมาตรฐานผลิตภัณฑ์อุตสาหกรรม มอก.2733-2559

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2733-01	Analysis of general characteristics	Per sample	100	100	12 working days	> 500 g	
2	RP-TIS-2733-02	Quantitative analysis of total solids	Per sample	400	400	12 working days	> 100 mL	
3	RP-TIS-2733-03	Analysis of viscosity	Per sample	550	550	12 working days	> 600 mL	
4	RP-TIS-2733-04	Analysis of vulcanization level	Per sample	500	500	12 working days	> 500 mL	
No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
5	RP-TIS-2733-05	Analysis of tensile strength and elongation at break of dried rubber	Per sample	400	400	12 working days	Rubber sheet size 50 cm x 50 cm: 2 pieces	
6	RP-TIS-2733-06	Accelerating with geer aging of dried rubber	Per sample	1,400	1,400	12 working days	Rubber sheet size 50 cm x 50 cm: 2 pieces	
7	RP-TIS-2733-07	Analysis of tensile strength and elongation at break after aging of dried rubber	Per sample	400	400	12 working days	Rubber sheet size 50 cm x 50 cm: 2 pieces	TIS-2733-2016, rubber sheet

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
8	RP-TIS-2733-08	Analysis of weight per unit of raw yarn fabric	Per sample	300	300	12 working days	raw yarn fabric size 50 cm x 50 cm: 2 pieces	
9	RP-TIS-2733-09	Analysis of thickness of raw yarn fabric	Per sample	100	100	12 working days	raw yarn fabric size 50 cm x 50 cm: 2 pieces	
10	RP-TIS-2733-10	Analysis of amount of yarn per area of woven fabric	Per sample	200	200	12 working days	raw yarn fabric size 50 cm x 50 cm: 2 pieces	
11	RP-TIS-2733-11	Analysis of tensile strength and elongation at break of raw yarn fabric	Per sample	400	400	12 working days	raw yarn fabric size 50 cm x 50 cm: 2 pieces	
12	RP-TIS-2733-12	Analysis of tensile strength and elongation at break of fabric coated rubber	Per sample	400	400	12 working days	Rubber coated fabric size 50 cm x 50 cm: 2 pieces	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	RP-TIS-2733-13	Analysis of tensile strength and elongation at break after aging of fabric coated rubber c	Per sample	400	400	12 working days	fabric coated rubber size 50 cm x 50 cm: 2 pieces	Aging charge form RP-TIS-2733-06
14	RP-TIS-2733-14	Analysis of tear strength of fabric coated rubber	Per sample	400	400	12 working days	fabric coated rubber size 50 cm x 50 cm: 2 pieces	

การเปิดให้บริการทดสอบเม็ดยางใช้ทำพื้นสังเคราะห์ (มอก.2682-2558)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2682-01	Analysis of density	Per sample	500	500	10 working days	1 sheet or > 1 kg	
2	RP-TIS-2682-02	Analysis of hardness	Per sample	400	400	10 working days	1 sheet or > 1 kg	
3	RP-TIS-2682-03	Analysis of tensile strength and elongation	Per sample	400	400	10 working days	1 sheet or > 1 kg	
4	RP-TIS-2682-04	Accelerating with geer aging	Per sample	1,400	1,400	10 working days	1 sheet or > 1 kg	
5	RP-TIS-2682-05	Accelerating with weathering	Per sample	9,600	9,600	10 working days	1 sheet or > 1 kg	
6	RP-TIS-2682-06	Molding and cutting sample	Per sample	600	600	10 working days	1 sheet or > 1 kg	

ถุงมือยางที่ใช้ในอุตสาหกรรมอาหาร มอก.2505-2553

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2505-01	Dimensions (width, length and thickness)	Per sample	600	600	12 working days	> 50 pairs	
2	RP-TIS-2505-02	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 50 pairs	
3	RP-TIS-2505-03	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 50 pairs	
4	RP-TIS-2505-04	Water tightness	Per sample	3,500	3,500	12 working days	> 50 pairs	
5	RP-TIS-2505-05	Powder residue content	Per sample	1,000	1,000	12 working days	> 50 pairs	
6	RP-TIS-2505-06	pH	Per sample	400	400	12 working days	> 50 pairs	
No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
7	RP-TIS-2505-07	Packing	Per sample	100	100	12 working days	> 50 pairs	
8	RP-TIS-2505-08	Logo and label	Per sample	100	100	12 working days	> 50 pairs	

รองเท้าแตะฟองน้ำ มอก.131-2523

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-131-01	General characteristics	Per sample	100	100	10 working days	> 20 pairs per capacity < 35000 pairs	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
2	RP-TIS-131-02	Hardness	Per sample	400	400	10 working days	> 20 pairs per capacity < 35000 pairs	
3	RP-TIS-131-03	Tensile strength and maximum elongation	Per sample	700	700	10 working days	> 20 pairs per capacity < 35000 pairs	
4	RP-TIS-131-04	Tear strength	Per sample	400	400	10 working days	> 20 pairs per capacity < 35000 pairs	
5	RP-TIS-131-05	Ross flexing	Per sample	800	800	10 working days	> 20 pairs per capacity < 35000 pairs	
6	RP-TIS-131-06	Contraction	Per sample	500	500	10 working days	> 20 pairs per capacity < 35000 pairs	
7	RP-TIS-131-07	Packing	Per sample	100	100	10 working days	> 20 pairs per capacity < 35000 pairs	
8	RP-TIS-131-08	Logo and label	Per sample	100	100	10 working days	> 20 pairs per capacity < 35000 pairs	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2959-01	General characteristics	Per sample	100	100	7 working days	> 15 pieces	Each item is packed separately and label.
2	RP-TIS-2959-02	Temperature change	Per sample	200	200	7 working days	> 15 pieces	Each item is packed separately and label.
3	RP-TIS-2959-03	Hardening period	Per sample	100	100	7 working days	> 15 pieces	Each item is packed separately and label.
4	RP-TIS-2959-04	Reusable	Per sample	200	200	7 working days	> 15 pieces	Each item is packed separately and label.
5	RP-TIS-2959-05	Hardness	Per sample	720	720	7 working days	> 15 pieces	Each item is packed separately and label.
6	RP-TIS-2959-06	Tensile strength	Per sample	400	400	7 working days	> 15 pieces	Each item is packed separately and label.
7	RP-TIS-2959-07	Packing	Per sample	100	100	7 working days	> 15 pieces	Each item is packed separately and label.
8	RP-TIS-2959-08	Logo and label	Per sample	100	100	10 working days	> 15 pieces	Each item is packed separately and label.

ทดสอบถุงมือยางตามมาตรฐาน EN455

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-EN455-01	Width and length	Per sample	400	400	12 working days	> 400 pairs	
2	RP-EN455-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pairs	
3	RP-EN455-03	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pairs	
4	RP-EN455-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pairs	
5	RP-EN455-05	Power residue content	Per sample	1,000	1,000	12 working days	> 400 pairs	

ทดสอบถุงมือยางตามมาตรฐาน ISO11193

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-ISO11193-01	Dimensions (width, length and thickness)	Per sample	600	600	12 working days	> 400 pairs	
2	RP-ISO11193-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pairs	
3	RP-ISO11193-03	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pairs	
4	RP-ISO11193-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pairs	

ทดสอบถุงมือยางตามมาตรฐาน ASTM D 3578

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-ASTM D3578-01	Dimensions (width, length and thickness)	Per bag	600	600	12 working days	> 400 pairs	
2	RP-ASTM D3578-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pairs	
3	RP-ASTMD3578-03	Analysis of tensile strength, tensile strength at 500% elongation and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pairs	
4	RP-ASTMD3578-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pairs	
5	RP-ASTMD3578-05	Protein content (ug/g unit)	Per sample	800	800	12 working days	> 400 pairs	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
6	RP-ASTMD3578-05	Protein content (ug/g unit)	Per sample	800	800	12 working days	> 400 pairs	

ทดสอบดึงมือยางตามมาตรฐาน ASTM D 6319

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-ASTMD6319-01	Dimensions (width, length and thickness)	Per sample	600	600	12 working days	> 400 pairs	
2	RP-ASTMD6319-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pairs	
3	RP-ASTMD6319-03	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pairs	
4	RP-ASTMD6319-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pairs	
5	RP-ASTMD6319-05	Powder residue content	Per sample	1,000	1,000	12 working days	> 400 pairs	

ถุงมือยางปราศจากเชื้อสำหรับการคัดกรองชนิดใช้ครั้งเดียว มอก.538-2560

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-538-01	Dimensions (width, length and thickness)	Per sample	600	600	12 working days	> 400 pieces	
2	RP-TIS-538-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pieces	
3	RP-TIS-538-03	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pieces	
4	RP-TIS-538-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pieces	
5	RP-TIS-538-05	Packing	Per bag	100	100	12 working days	> 400 pieces	
6	RP-TIS-538-06	Logo and label	Per sample	100	100	12 working days	> 400 pieces	

ผลิตภัณฑ์น้ำยางข้นธรรมชาติ (มอก. 980-2552)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-980-01	General characteristics	Per sample	100	100	5 working days	> 100 mL	
2	RP-TIS-980-02	Color	Per sample	100	100	5 working days	> 100 mL	
3	RP-TIS-980-03	Odour	Per sample	100	100	5 working days	> 100 mL	
4	RP-TIS-980-04	Total solid content (TSC)	Per sample	400	400	7 working days	> 100 mL	
5	RP-TIS-980-05	Dry rubber content (DRC)	Per sample	400	400	7 working days	> 100 mL	
6	RP-TIS-980-06	Non rubber content (NRC)	Per sample	100	100	7 working days	-	Customer must send RP-TIS-980-04 and RP-TIS-980-05.
7	RP-TIS-980-07	Quantitative analysis of total alkalinity as NH ₃ in latex	Per sample	600	600	7 working days	> 100 mL	Kept in closed container
8	RP-TIS-980-08	Stability mechanism (MST)	Per sample	400	400	7 working days	> 300 mL	2. In case of customer does not send the test items (RP-TIS-980-04 and RP-TIS-980-07) at the same time, the price is 1400 baht/sample.
9	RP-TIS-980-09	Coagulum	Per sample	400	400	7 working days	> 400 mL	
10	RP-TIS-980-10	Sludge content	Per sample	400	400	7 working days	> 300 mL	
11	RP-TIS-980-11	VFA number	Per sample	600	600	8 working days	> 300 mL	Customer must send RP-TIS-980-04 and RP-TIS-980-05.
12	RP-TIS-980-12	KOH number	Per sample	600	600	8 working days	> 500 mL	Customer must send RP-TIS-980-04 and RP-TIS-980-07.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
13	RP-TIS-980-13	Packing	Per sample	100	100	5 working days	1 tank	Tank up to 210 mL and more than 210 mL
14	RP-TIS-980-14	Logo and label	Per sample	100	100	5 working days	-	Check on container

ทดสอบถุงมือสำหรับตรวจวินิจฉัยทางการแพทย์ชนิดใช้ครั้งเดียว (มอก.1056 เล่ม 1-2556)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-1056-01	Dimensions (width, length and thickness)	Per sample	600	600	12 working days	> 400 pieces	
2	RP-TIS-1056-02	Water tightness	Per sample	3,500	3,500	12 working days	> 400 pieces	
3	RP-TIS-1056-03	Analysis of tensile strength and elongation at break before aging	Per sample	1,000	1,000	12 working days	> 400 pieces	
4	RP-TIS-1056-04	Analysis of tensile strength and elongation at break after aging	Per sample	1,800	1,800	12 working days	> 400 pieces	
5	RP-TIS-1056-05	Packing	Per sample	100	100	12 working days	> 400 pieces	
6	RP-TIS-1056-06	Logo and label	Per sample	100	100	12 working days	> 400 pieces	

ทดสอบกรวยพลาสติกกั้นจราจร (มอก.2899-2561)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-2899-01	Height of plastic traffic cone	Per sample	100	100	20 working days	๖ cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
2	RP-TIS-2899-02	Width of cone base	Per sample	100	100	20 working days	๖ cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
3	RP-TIS-2899-03	Size of the reflective band	Per bag	300	300	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
4	RP-TIS-2899-04	General characteristics	Per sample	100	100	20 working days	¼6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
5	RP-TIS-2899-05	Stability	Per sample	100	100	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
6	RP-TIS-2899-06	Drop resistance	Per sample	400	400	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
7	RP-TIS-2899-07	Impact resistance	Per sample	1,000	1,000	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
8	RP-TIS-2899-08	Compression and recovery resistance	Per sample	1,500	1,500	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
9	RP-TIS-2899-09	Durability	Per sample	41,000	41,000	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.
10	RP-TIS-2899-10	Color change	Per sample	1,200	1,200	20 working days	6 cones	1. Rubber biennial columns can be tested according to TIS. 2899-2561.

นํ้ายางคอมพาวนด์สำหรับปรับคุณภาพดินซีเมนต์ (มอก.3399-2565)

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	RP-TIS-3399-01	General characteristics	Per sample	100	100	5 working days	> 50 mL	
2	RP-TIS-3399-02	Odour	Per sample	150	150	5 working days	> 50	
3	RP-TIS-3399-03	Rubber content	Per sample	970	970	7 working days	> 10 mg	1. Sample from TSC (RP-TIS-3399-04) testing
4	RP-TIS-3399-04	Total solid content (TSC)	Per sample	400	400	7 working days	> 100 mL	
5	RP-TIS-3399-05	Viscosity at 25 degree Celsius	Per sample	550	550	7 working days	> 600 mL	1. Test with spindle No.1 and speed = 60 rpm
6	RP-TIS-3399-06	pH value	Per sample	400	400	5 working days	> 100 mL	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
7	RP-TIS-3399-07	Logo and label	Per sample	100	100	5 working days	2 sets	
8	RP-TIS-3399-08	Packing	Per sample	100	100	5 working days	2 sets	

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No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
1	OTHER01	Copy of test report (for the same sample)	per set	100	100	3 working days	-	
2	OTHER02	Copy of test report (for the different sample and language)	per set	100	100	3 working days	-	
3	OTHER03	Copy of test report (for the different sample)	per set	100	100	3 working days	-	
4	NITROGEN_LIQ01	Liquid nitrogen	Per liter	80	80	0 working days	-	
5	NITROGEN_GAS01	Nitrogen gas	Per sample	25	25	0 working days	-	
6	NITROGEN_GAS02	Nitrogen gas	Per day	500	500	0 working days	-	1 day = 24 hours
7	OTHER06	Copy rawdata (Hard copy)	Per list	100	100	3 working days	-	
8	OTHER08	Additional data of identification of compounds (XRD)	Per sample	270	450	3 working days	-	
9	OTHER09	Additional data of % crystallinity of compounds (XRD) in case of no interpretation data	Per sample	390	650	3 working days	-	
10	OTHER04	Copy rawdata (electronic file)	per request form	100	100	3 working days	-	
11	OTHER07	Additional interpretation	Per sample	200	200	3 working days	-	
12	CURCUMIN TEST KIT01	Curcumin test kit volume 50 mL	Per bottle	450	450	3 working days	-	Send free postage
13	OTHER05	Overlay electronic rawdata	per request form	100	100	3 working days	-	1. Charge per set for hard copy demand
14	OTHER10	Training and setting up program for interpretation of LC-MSMS	Per sample	500	500	1 working days	-	

No	Code	Detail	Unit	Price PSU (Baht)	Price Non PSU (Baht)	Appoint date	Amount of sample	Remarks
15	OTHER11	Additional data of % crystallinity of compounds (XRD) in case of the customer has already tested and interpreted the result.	Per sample	200	200	3 working days	-	
16	OTHER12	NMR data analysis software cost	Per hour	200	200	0 working days	-	
17	OTHER13	Additional Analysis of TGA or DSC in range of 25 degree Celsius to 1,000 degree Celsius	Per sample	580	970	3 working days	-	
18	OTHER14	Additional Analysis of TGA or DSC in range of 25 degree Celsius to 1,400 degree Celsius	Per sample	708	1,180	3 working days	-	

Remark

1. In testing cases, additional materials and chemicals were used. The service fee is charged according to the actual use.
2. In case of the customer wants to receive samples or take samples off-site Additional service charge is charged by area or by quotation.
3. No charge in the case of customers sending samples through various logistics channels, the customer must coordinate before the sample delivery.
4. In the case of testing, there will be additional testing costs. Setup will be charged in addition to the announcement of service rates.
5. In the case of a test trial, the customer must pay the service fee before the test and the scheduled test result date is based on the quotation.
6. In the case of a sample where multiple tests or multiple applications are requested The test results will be scheduled according to the highest test result appointment date.
7. In case of urgent test results The service fee is double and the scheduled date of receiving the result is half the days of the rate announcement. Excluding the cost of materials and chemicals and the cost of copies of test reports.
8. No charge for sample delivery back. Unless the sample is heavy or the sample return agreement based on the quotation.
9. OSIT reserve the right of service rates within the PSU for customers under the PSU only.
10. Discount 50 baht per service request in case of the customer does not want to report the test results for a test item not less than 1,000 baht per sample with the exception of NMR testing and microstructural analysis including sample preparation.
11. In case of other special discounts, we reserve the right to discount item 10.

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Announcement of Prince of Songkla University

Subject: Testing and other services fee of Office of Scientific Instrument and Testing

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To provide academic services, testing and other services of Office of Scientific Instrument and Testing, for smooth operation and in compliance, Board of Directors Office of Scientific Instrument and Testing Meeting special agenda no. 2/2023 dated August 15, 2023 reach the conclusion agree to charge the testing and others services fee as attached file

Any announcements which contradict with this announcement, this announcement is to be used instead. This announcement is effective from 1 October 2023 on.

Announced on **13 SEP 2023**

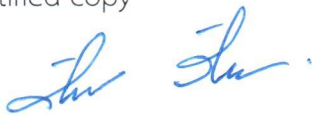
(signed)

Niwet Arunberkfa

(Assoc. Prof. Dr. Niwet Arunberkfa)

Director of Office of Human Resource Development and Social Engagement
Acting for President of Prince of Songkla University

Certified copy



(Miss Pattarawadee Watcharadilok)

Academic Officer