



IMPLEMENTING AGENCY OF MONGOLIAN GOVERNMENT
MINERAL RESOURCES AND PETROLEUM AUTHORITY



MINERAL RESOURCES AND PETROLEUM STATISTICS

2019/10



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Valid mining and exploration licenses **2,851** (2019.XI.03)

Valid licensed area size **7.6** mln.ha (2019.XI.03)

Percent of total licensed area in Mongolia's territory **4.8%** (2019.XI.03)

Geological survey conducted at expense of the state budget **18,779.2** mln.MNT (2019.I-X)

Average price of gold on the world market **1,215.4** US\$/ounce (2019.X)

Average price of copper on the world market **6,215.2** US\$/tons (2019.X)

Average price of thermal coal on the world market **28.6** US\$/tons (2019.VIII)

Average price of coking coal on the world market **132.5** US\$/tons (2019.VIII)

Coal production **49,464.2** thousand tons (2019.I-X)

Coal sale **40,623.8** thousand tons (2019.I-X)

Coal export **32,768.1** thousand tons (2019.I-X)

Petroleum production **5,740,519** barrel (2019.I-X)

Petroleum export **5,460,521** barrel (2019.I-X)

Petroleum import **1,760,209** tons (2019.I-X)

Average price of gasoline A-80 **1,847** MNT (2019.X.29)

Average price of gasoline AI-92 **1,920** MNT (2019.X.29)

Average price of gasoline AI-95 **2,260** MNT (2019.X.29)

Average price of diesel fuel **2,426** MNT (2019.IX.24)

Copper cathode 99% production **9,884.0** tons (2019.I-X)

Metal steel production **23,878.0** tons (2019.I-X)

Metal foundries production **23,586.7** tons (2019.I-X)

Steel casting production **7,582.8** tons (2019.I-X)

Electric wire production **76.5** tons (2019.I-X)

Copper cathode export **8,608.8** tons (2019.I-X)

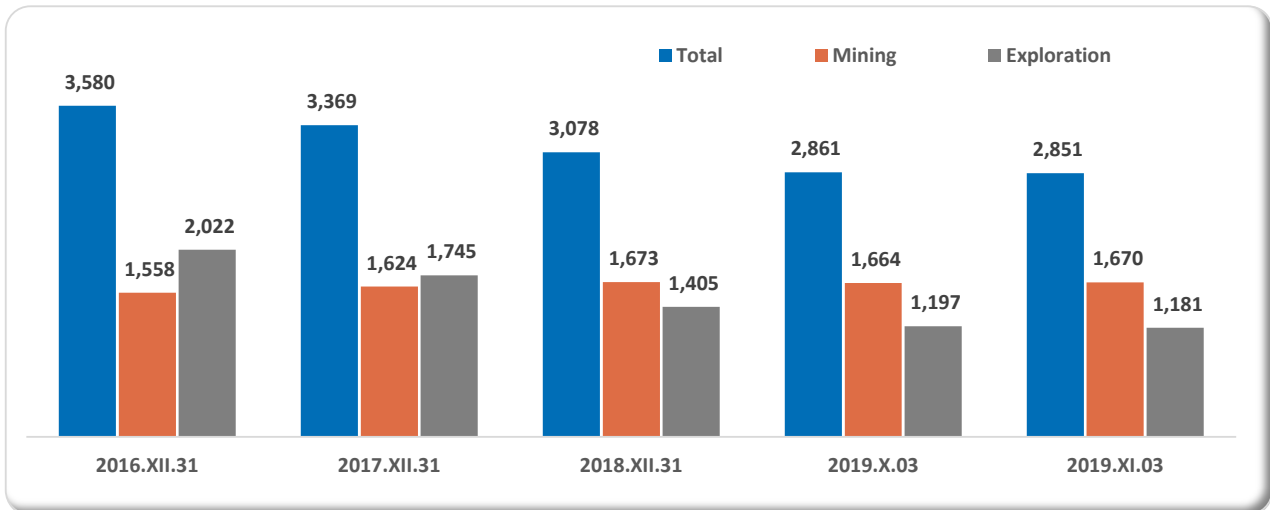
Budget revenue of MRPAM **248,797.0** mln.MNT (2019.I-X)

1.1. COUNT OF VALID LICENSES AND AREA SIZE, by provinces and 2019.XI.03

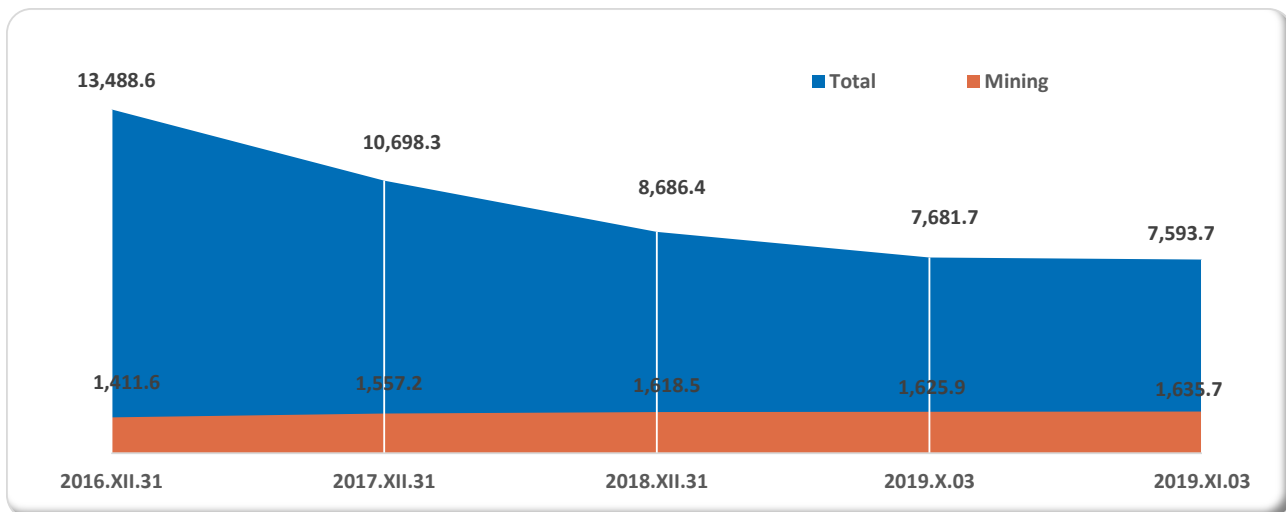
	TOTAL			Of which:					
	Count of Licenses	Area size /ths.ha/	Percent of total territory	Mining			Exploration		
				Count of Licenses	Area size /ths.ha/	Percent of total territory	Count of Licenses	Area size /ths.ha/	Percent of total territory
TOTAL	2851	7,593.7	4.8%	1670	1,635.7	1.0%	1181	5,958.1	3.8%
Arkhangai	22	61.5	1.1%	15	6.2	0.1%	7	55.3	1.0%
Bayan-Ulgii	61	159.2	3.5%	28	15.4	0.3%	33	143.9	3.1%
Bayankhongor	158	371.3	3.2%	92	124.2	1.1%	66	247.1	2.1%
Bulgan	111	138.0	2.8%	74	35.7	0.7%	37	102.3	2.1%
Uvurkhangai	48	136.0	2.2%	28	15.7	0.2%	20	120.4	1.9%
Govi-Altai	149	740.0	5.2%	51	89.3	0.6%	98	650.8	4.6%
Govisumber	18	45.6	8.2%	13	38.9	7.0%	5	6.7	1.2%
Darkhan Uul	70	16.6	5.1%	63	7.8	2.4%	7	8.9	2.7%
Dornogovi	359	1,343.4	12.3%	186	232.6	2.1%	173	1,110.8	10.2%
Dornod	157	532.6	4.3%	73	63.0	0.5%	84	469.6	3.8%
Dundgovi	208	714.4	9.6%	106	182.6	2.4%	102	531.8	7.1%
Zavhan	59	282.8	3.4%	10	15.0	0.2%	49	267.7	3.2%
Umnugovi	183	1,130.7	6.8%	90	440.4	2.7%	93	690.2	4.2%
Orkhon	9	11.1	13.2%	9	11.1	13.2%	0	0.0	0.0%
Sukhbaatar	96	348.0	4.2%	64	52.4	0.6%	32	295.5	3.6%
Selenge	180	97.6	2.4%	141	42.9	1.0%	39	54.7	1.3%
Tuv	402	393.8	5.3%	300	151.5	2.0%	102	242.3	3.3%
Uvs	131	400.2	5.8%	49	21.4	0.3%	82	378.8	5.4%
Ulaanbaatar	172	14.7	3.1%	160	13.3	2.8%	12	1.4	0.3%
Khuvsgul	26	17.0	0.2%	21	10.3	0.1%	5	6.7	0.1%
Khovd	106	279.3	3.7%	35	14.0	0.2%	71	265.3	3.5%
Khentii	220	360.0	4.5%	120	52.0	0.6%	100	308.0	3.8%

Source: Cadastre Division, MRPAM

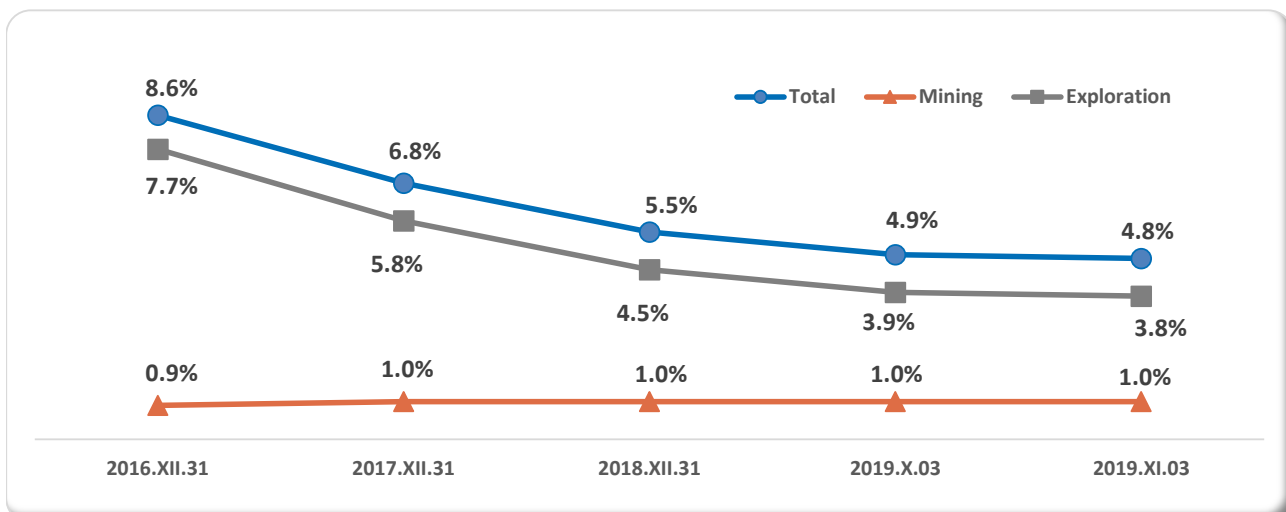
1.2. COUNT OF TOTAL VALID LICENSES, by 2016-2019



1.3. LICENSED AREA, by thousands.ha and 2016-2019



1.4. PERCENT OF TOTAL LICENSED AREA IN MONGOLIA'S TERRITORY, by 2016-2019



Source: Cadastre Division, MRPAM

1.5. COUNT OF MINING LICENSE, *by type of minerals and 2019.XI.03*

	Mining license		Area size	
	Count	Percent	Hectare	Percent
TOTAL	1670	100%	1,635,680.5	100%
Coal	300	18.0%	789,455.9	48.3%
Gold	540	32.3%	250,144.1	15.3%
Copper	21	1.3%	92,463.5	5.7%
Gold, Copper	14	0.8%	85,749.4	5.2%
Uranium	7	0.4%	76,866.1	4.7%
Construction materials	111	6.6%	59,996.0	3.7%
Iron	76	4.6%	46,084.6	2.8%
Fluorite	187	11.2%	28,888.5	1.8%
Concentrated metal	12	0.7%	26,326.3	1.6%
Graphite	7	0.4%	22,837.3	1.4%
Continental / common mineral	201	12.0%	20,156.4	1.2%
Chromium	1	0.1%	15,805.8	1.0%
Molybdenum	7	0.4%	10,146.4	0.6%
Gold, Silver	3	0.2%	9,587.7	0.6%
Molybdenum, Copper	4	0.2%	9,342.5	0.6%
Tungsten	29	1.7%	8,741.8	0.5%
Manganese	4	0.2%	7,507.0	0.5%
limestone	6	0.4%	5,920.4	0.4%
Earth rare metal	8	0.5%	5,236.3	0.3%
Molybdenum, Gold, Copper	1	0.1%	5,236.0	0.3%
Gypsum	16	1.0%	5,199.1	0.3%
Lithium	1	0.1%	4,720.2	0.3%
Zinc	6	0.4%	4,057.3	0.2%
Blue lead	8	0.5%	3,892.8	0.2%
Gold, Concentrated metal	3	0.2%	3,578.5	0.2%
Polymetal	4	0.2%	3,269.2	0.2%
Copper, Zinc	1	0.1%	2,899.3	0.2%
Molybdenum, Tungsten	2	0.1%	2,862.3	0.2%
Silicon	2	0.1%	2,673.5	0.2%
Face stone	1	0.1%	2,487.2	0.2%
Wolfram, Tin	1	0.1%	2,316.2	0.1%
Gold, Silver, Concentrated metal	1	0.1%	2,007.4	0.1%
Tin	4	0.2%	1,812.0	0.1%
Molybdenum, Wolfram	1	0.1%	1,616.9	0.1%
Lanthanum, Cerium	1	0.1%	1,561.3	0.1%
Aluminium	3	0.2%	1,370.9	0.1%
Iron, Concentrated metal	1	0.1%	1,257.3	0.1%
Other	75	4.5%	11,607.4	0.7%

Source: Cadastre Division, MRPAM

1.6. REGISTERED AREA, by mln.ha, overlap and 2019.XI.03

	Hectare	Percent of total territory
Valid mining licensed area	1.6	1.0%
Valid exploration licensed area	6.0	3.8%
State protected area	32.9	21.0%
Special purpose area	30.0	19.2%
Strategic deposit, government reserved area	7.2	4.6%
Settled area, border and railway strip area	1.1	0.7%
Other prohibited area	49.1	31.4%

1.7. SMALL-SCALE MINING AREA, by provinces and 2019.XI.03

	Count of area		Area size	
	Count	Percent	Hectare	Percent
TOTAL	272	100%	1113.4	100%
Arkhangai	1	0.4%	4.8	0.4%
Bayan-Ulgii	2	0.7%	53.7	4.8%
Bayankhongor	57	21.0%	152.3	13.7%
Bulgan	29	10.7%	126.4	11.3%
Govi-Altai	1	0.4%	5.7	0.5%
Darkhan Uul	6	2.2%	16.6	1.5%
Dornogovi	12	4.4%	59.6	5.4%
Dornod	2	0.7%	26.2	2.4%
Dundgovi	13	4.8%	104.4	9.4%
Uvurkhangai	20	7.4%	39.7	3.6%
Umnugovi	20	7.4%	86.2	7.7%
Selenge	52	19.1%	220.1	19.8%
Tuv	12	4.4%	78.3	7.0%
Ulaanbaatar	5	1.8%	19.0	1.7%
Khovd	4	1.5%	11.3	1.0%
Khentii	36	13.2%	109.4	9.8%

Source: Cadastre Division, MRPAM

1.8. ORIGIN OF LICENSE HOLDERS, by 2019.XI.03

	Holder	License	Area size	
	Count	Count	Hectare	Percent
TOTAL	1787	2851	7,593,739.1	100%
Mongolian entities	1424	2232	5,533,473.9	72.9%
100% foreign entities	257	430	1,582,792.3	20.8%
Joint foreign entities	106	189	477,472.9	6.3%

1.9. ORIGIN OF 100% FOREIGN LICENSE HOLDERS, by countries and 2019.XI.03

	Holder	License	Area size	
	Count	Count	Hectare	Percent
TOTAL	257	430	1,582,792.3	100%
China	133	172	396,869.9	25.07%
Virgin Islands	34	63	159,332.9	10.07%
Hong Kong	17	31	146,321.9	9.24%
Singapore	16	57	338,635.6	21.39%
Canada	12	28	271,100.2	17.13%
South Korea	10	15	34,093.7	2.15%
Australia	6	7	32,354.6	2.04%
Russia	3	3	134.6	0.01%
Great Britain	3	4	6,038.7	0.38%
Holland	3	15	106,872.3	6.75%
Luxemburg	2	6	13,528.2	0.85%
Germany	2	2	603.9	0.04%
Japan	2	3	3,015.1	0.19%
Bermud	2	3	7,314.3	0.46%
United States of America	2	4	3,167.8	0.20%
Russia, China	1	1	47.5	0.00%
Ukraine	1	1	245.0	0.02%
Bulgaria	1	1	3,700.9	0.23%
Barbados	1	4	10,040.0	0.63%
New Zealand	1	2	149.4	0.01%
Malaysia	1	2	2,416.5	0.15%
Russia, South Korea	1	1	118.2	0.01%
Luxemburg, Seychelles	1	1	36,391.0	2.30%
Kazakhstan	1	1	136.5	0.01%
Virgin Islands, Singapore	1	3	10,163.7	0.64%

Source: Cadastre Division, MRPAM

1.10. ORIGIN OF JOINT FOREIGN LICENSE HOLDERS, *by countries and 2019.XI.03*

	Holder	License	Area size	
	Count	Count	Hectare	Percent
TOTAL	106	189	477,472.9	100%
Mongolia, China	51	78	118,527.9	24.8%
Mongolia, South Korea	10	17	44,048.4	9.2%
Mongolia, Russia	8	10	1,382.3	0.3%
Mongolia, Virgin Islands	6	10	35,233.8	7.4%
Mongolia, Japan	5	32	82,825.2	17.3%
Mongolia, Germany	4	5	11,776.3	2.5%
Mongolia, Singapore	4	7	30,219.9	6.3%
Mongolia, Czech Republic	3	6	52,377.8	11.0%
Mongolia, Great Britain	2	3	9,627.5	2.0%
Mongolia, Hungary	1	1	87.4	0.0%
Mongolia, Kazakhstan	1	1	1,789.4	0.4%
Mongolia, Macao, Hong Kong	1	2	15,589.7	3.3%
Mongolia, United States of America, Virgin Islands, South Korea	1	1	3,766.7	0.8%
Mongolia, Bulgaria	1	3	1,083.7	0.2%
Mongolia, Canada	1	1	3,957.7	0.8%
Mongolia, Canada, China	1	1	6,352.8	1.3%
Mongolia, Luxemburg	1	1	3,273.9	0.7%
Mongolia, Russia, Ukraine	1	1	46.9	0.0%
Mongolia, Poland	1	1	1,561.3	0.3%
Mongolia, Hong Kong, Japan	1	3	43,809.3	9.2%
Mongolia, Singapore, Hong Kong	1	1	1,469.5	0.3%
Mongolia, Hong Kong	1	4	8,665.5	1.8%

Source: Cadastre Division, MRPAM

1.11. PLEDGING LICENSES, by bank and non-bank financial institute and 2019.XI.03

	License		Area	
	Count	Percent	Hectare	Percent
TOTAL	237	100%	247,760.6	100%
Golomt Bank	30	12.7%	26,848.4	10.8%
Trade and Development Bank	29	12.2%	13,645.7	5.5%
Development Bank of Mongolia	25	10.5%	16,818.6	6.8%
Ulaanbaatar City Bank	18	7.6%	13,365.5	5.4%
HAAN Bank	15	6.3%	2,891.8	1.2%
Capital Bank	12	5.1%	1,542.2	0.6%
Golomt, Saving, Zoos, Anod Banks	11	4.6%	80,891.6	32.6%
XAC Bank	11	4.6%	2,616.7	1.1%
Anod Bank	9	3.8%	7,355.5	3.0%
Chinggis Khan Bank	7	3.0%	3,201.9	1.3%
European Bank for Reconstruction and Development	7	3.0%	2,658.5	1.1%
Capitronbank	5	2.1%	1,431.0	0.6%
State Bank	4	1.7%	570.6	0.2%
National Investment Bank	4	1.7%	1,247.2	0.5%
Bank of China	4	1.7%	978.2	0.4%
Transport Development bank	3	1.3%	1,670.1	0.7%
Bogd bank	3	1.3%	154.0	0.1%
Saving bank	3	1.3%	10,911.8	4.4%
Khutult nomgon	3	1.3%	283.4	0.1%
Export-Import Bank of China	3	1.3%	1,092.0	0.4%
Triple flag mining finance Bermuda Ltd	3	1.3%	13,017.0	5.3%
GSB capital NBFi	2	0.8%	9,271.1	3.7%
World Gold	2	0.8%	2,194.9	0.9%
Erel bank	2	0.8%	150.3	0.1%
First lithium Corporation	2	0.8%	17,131.1	6.9%
Other	20	8.4%	15,821.6	6.4%

Source: Cadastre Division, MRPAM

1.12. LIST OF LICENSE HOLDERS WITH 10 AND ABOVE LICENSES, by 2019.XI.03

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Mongolroscvetmet	26	15,086.0	mongolian legal entity	Mongolia
2	Chinggis world mining	25	72,617.6	joint venture with foreign investment	Mongolia, Japan
3	Mongolyn alt Mak	22	60,037.6	mongolian legal entity	Mongolia
4	Gatsuurt	17	9,557.3	mongolian legal entity	Mongolia
5	Tsaina investment mongolia	15	207,645.0	Entity with 100% foreign investment	Singapore
6	Olon-Ovoot gold	14	90,111.6	mongolian legal entity	Mongolia
7	Golden east mongolia	13	48,653.7	Entity with 100% foreign investment	Virgin Islands
8	Gobi Coal and Energy	12	7,139.8	mongolian legal entity	Mongolia
9	Khunnu gobi altai	12	2,206.7	mongolian legal entity	Mongolia
10	Platinum land	11	3,621.3	mongolian legal entity	Mongolia
11	MoEnCo	10	12,807.4	Entity with 100% foreign investment	Singapore
12	Erel	10	10,960.9	mongolian legal entity	Mongolia
13	MAK cement	10	3,745.9	mongolian legal entity	Mongolia

1.13. LIST OF LICENSE HOLDERS WITH 100'000 AND ABOVE LICENSED AREA SIZE, by 2019.XI.03

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Tsaina investment mongolia	15	207,645.0	100% foreign invested entity	Singapore
2	Mongol uranium resource	3	154,746.3	mongolian legal entity	Mongolia
3	Monlaa	4	108,679.0	mongolian legal entity	Mongolia

Source: Cadastre Division, MRPAM

1.14. RECEIVED APPLICATION, by application type and 2016-2019

	2016	2017	2018	2019.I-IX	2019.I-X
TOTAL	613	813	1187	604	634
New license	131	288	226	202	207
Mining	103	65	78	57	62
Exploration	0	0	0	0	0
Tender	28	223	148	145	145
Extension of exploration license	173	231	657	264	269
Transfer	139	153	157	55	67
Mining	49	78	25	21	24
Exploration	90	75	132	34	43
Pledge	33	37	61	15	19
Mining	30	32	58	15	19
Exploration	3	5	3	0	0
Surrender	137	104	86	68	72
Mining	26	14	12	9	10
Exploration	111	90	74	59	62

1.15. CHANGES IN LICENSE REGISTRATION, by license type and 2016-2019

	2016	2017	2018	2019.I-IX	2019.I-X
New license	750	151	85	115	122
Mining	93	77	61	48	52
Exploration	629	41	5	0	0
Tender	28	33	19	67	70
Surrendered	166	97	91	61	67
Mining	25	13	11	7	9
Exploration	141	84	80	54	58
Canceled	241	237	181	152	165
Mining	37	35	33	59	63
Exploration	204	202	148	93	102
Expired	124	176	209	177	192
Transferred	146	136	172	49	67
Mining	50	62	38	18	24
Exploration	96	74	134	31	43
Extended	167	162	566	293	298
Pledged	29	39	56	14	18
Mining	27	34	53	14	18
Exploration	2	5	3	0	0
Terminated pledges	16	39	27	13	15
Mining	12	38	26	12	14
Exploration	4	1	1	1	1
Re-issue of license documents	35	26	40	12	16
Mining	15	19	13	6	8
Exploration	20	7	27	6	8

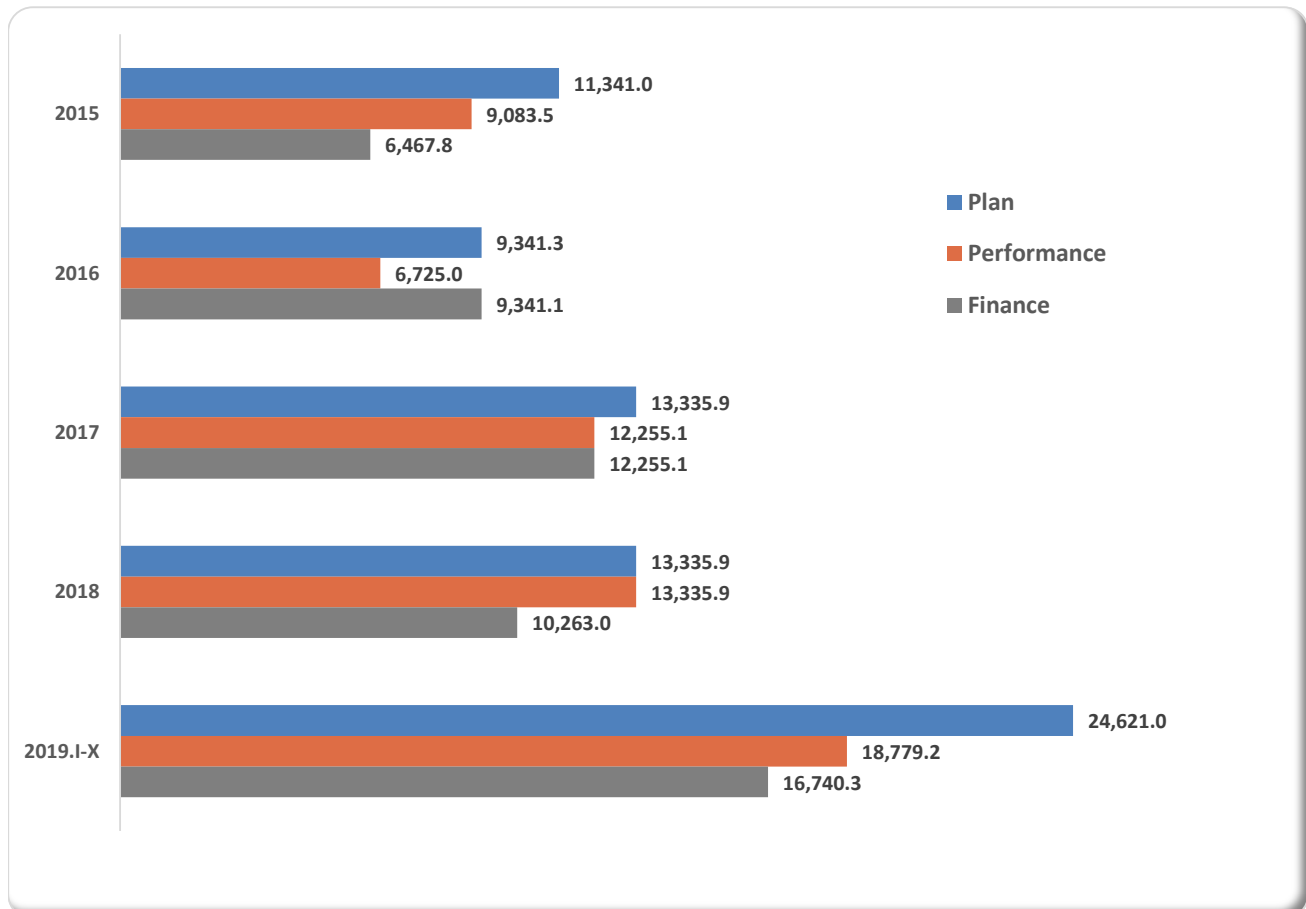
Source: Cadastre Division, MRPAM

2 | GEOLOGY

2.1. GEOLOGICAL SURVEY CONDUCTED AT EXPENSE OF THE STATE BUDGET, *by million MNT, type of work and 2017-2019*

	2017		2018		2019.I-X	
	Mln.MNT	Percent	Mln.MNT	Percent	Mln.MNT	Percent
TOTAL	12,255.1	100%	13,335.0	100%	18,779.2	100%
1:200000 scale geological map	482.3	3.9%	408.5	3.1%	606.3	3.2%
1:50000 scale geological map, general survey	5,355.9	43.7%	4,692.7	35.2%	6,361.0	33.9%
Thematic work	6,274.6	51.2%	8,144.1	61.1%	11,583.3	61.7%
Collaborative projects	142.4	1.2%	90.0	0.7%	228.6	1.2%

2.2. PLAN AND PERFORMANCE OF GEOLOGICAL SURVEY CONDUCTED AT EXPENSE OF THE STATE BUDGET, *by million MNT and 2015-2019*



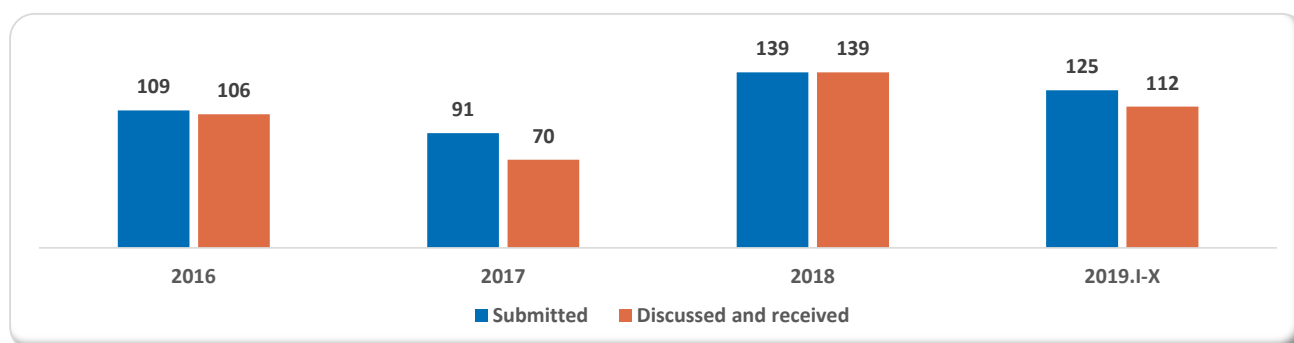
Source: Geology and Exploration Division, MRPAM

2.3. GEOLOGICAL AND EXPLORATION SURVEY CONDUCTED AT EXPENSES OF THE EXPLORATION LICENSE, by million MNT, type work and 2016-2017

	2016	2017	2018	Percent of 2018
TOTAL	190,260	130,586.6	130,365.1	100%
Preparation	8,924.2	3,615.2	3,386.0	2.6%
Mapping	5,815.3	1,886.1	6,337.0	4.9%
Geological survey	6,383.5	2,334.6	2,688.4	2.1%
Sampling	32,645.9	80,896.6	69,082.3	53.0%
Geophysical work	9,826.5	15,008.9	9,683.1	7.4%
Mining	1,697.1	-	-	0.0%
Drilling	68,917.0	5,825.9	11,371.6	8.7%
Laboratory	8,833.1	11,413.4	10,125.0	7.8%
Topogeodetic work	2,248.6	5,518.1	3,514.0	2.7%
Hydrogeological work	1,174.1	943.7	1,523.1	1.2%
Geoecological survey	-	-	1,095.4	0.8%
Transport	17,331.0	341.4	1,073.2	0.8%
Indoor, laboratory investigation	11,685.7	1,120.4	797.6	0.6%
Environment reclamation	1,346.9	348.3	439.4	0.3%
Field sampling	2,101.3	929.4	1,651.1	1.3%
Archeology	231.2	162.2	173.2	0.1%
Assume expenses	-	-	6,585.7	5.1%
Other	11,098.5	242.4	838.9	0.6%

Source: Geology and Exploration Division, MRPAM

2.4. RECEIVED EXPLORATION REPORT, by 2015-2019



2.5. MINERAL RESOURCE RESERVES REGISTERED IN THE STATE'S INTEGRATED REGISTRATION, by 2019.I-X

	Deposit	Resource		
		Unit	ore	metal
Gold (rock)		ths.t/kg	46,603.9	52,949.8
Silver	5	t	-	173.9
Blue lead		ths.t	-	90.2
Zinc		ths.t	-	164.1
Gold (placer)	35	kg	3,702.9	3,304.9
Iron		ths.t	15,545.9	-
Iron	4	ths.t	-	4992.3
Zinc		ths.t	-	70.3
Polymetal		ths.t	11,907.1	-
Copper		t	-	1,284.8
Zinc	4	t	-	94,319.7
Blue lead		t	-	23,127.1
Gold		kg	-	871.1
Silver		t	-	91.3
Tin tungsten (placer)		t	-	-
Tin	1	t	-	547.7
Tungsten		t	-	75.4
Fluorspar	11	ths.t	2,556.8	1,178.7
Zinc		ths.t	3,273.9	-
Zinc		ths.t	-	308.6
Blue lead	1	ths.t	-	16.3
Silver		kg	-	87.8
Iron		ths.t	-	636.7
Coal	15	mln.t	4,956.4	
Silicon	1	ths.t	182.1	
Limestone	3	mln.t	2.3	
Building stone	14	ths.t	336,337.7	
Graphite	1	ths.t	347.4	
Gypsum	1	ths.t	683.3	
Mud	2	ths.m3	3,796.4	
Sand gravel	5	ths.m3	6,571.6	
Sand	4	ths.m3	543.2	
Marble	2	ths.m3	81,596.8	

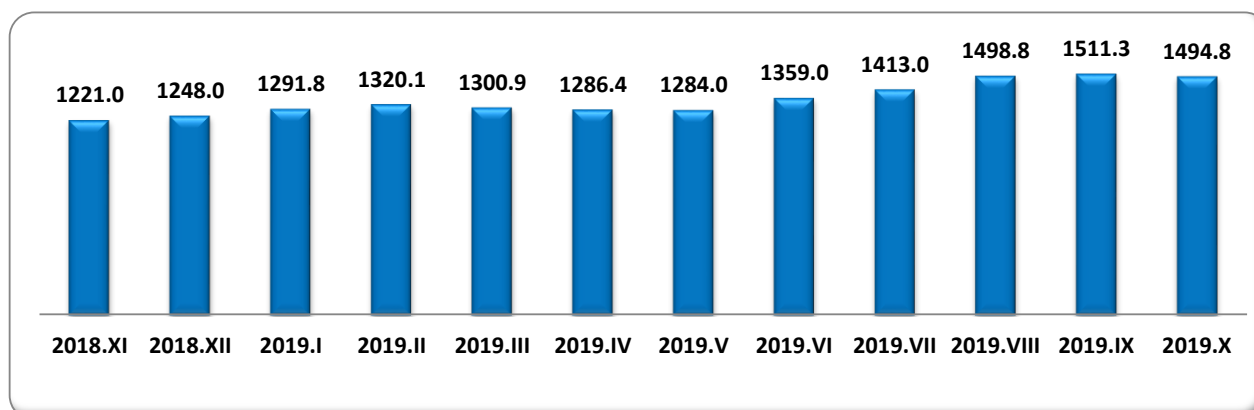
Source: Geology and Exploration Division, MRPAM

3 | MINING

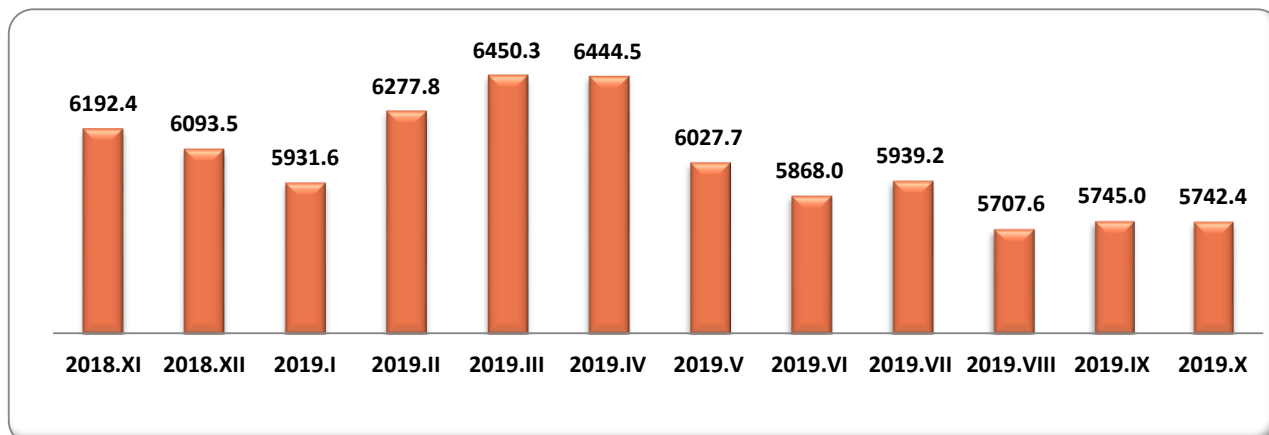
3.1. AVERAGE OF COMMODITY PRICES ON THE WORLD MARKET, by 2018-2019

	Unit	2018.X	2018	2019.IX	2019.X	$\frac{2019.X}{2018.X}$	$\frac{2019.X}{2019.IX}$
Gold	\$/ounce	1,215.4	1,269.4	1,511.3	1,494.8	123.0%	98.9%
Silver	\$/ounce	14.6	15.8	18.2	17.6	120.8%	97.0%
Copper	\$/tons	6,215.2	6,508.1	5,745.0	5,742.4	92.4%	100.0%
Zinc	\$/tons	2,671.3	2,895.6	2,319.2	2,445.0	91.5%	105.4%
Blue lead	\$/tons	1,984.6	2,237.3	2,070.3	2,183.7	110.0%	105.5%
Tin	\$/tons	19,116.9	19,954.6	16,828.5	16,591.6	86.8%	98.6%
Molybdenum	\$/tons	25,000.0	23,075.4	26,102.7	23,608.6	94.4%	90.4%
Tungsten, 99%	\$/tons	39,440.0	41,640.0	27,970.0	34,790.0	88.2%	124.4%
Tungsten, 65%	\$/tons	14,791.7	16,109.7	10,909.1	13,086.8	88.5%	120.0%
Iron ore 56%	\$/tons	39.6	39.6	63.8	65.7	166.0%	103.0%
Iron ore 60% concentrate	\$/tons	62.6	59.0	78.8	76.9	122.8%	97.5%
Fluorite concentrate AG-97	\$/tons	472.5	486.0	425.0	425.0	89.9%	100.0%
Fluorite ore MG-85	\$/tons	367.5	365.0	300.0	300.0	81.6%	100.0%
Uranium	\$/kg	61.6	54.5	56.6	53.5	86.8%	94.4%

3.2. AVERAGE PRICE OF GOLD ON THE WORLD MARKET, by US\$/ounce and last 12 months

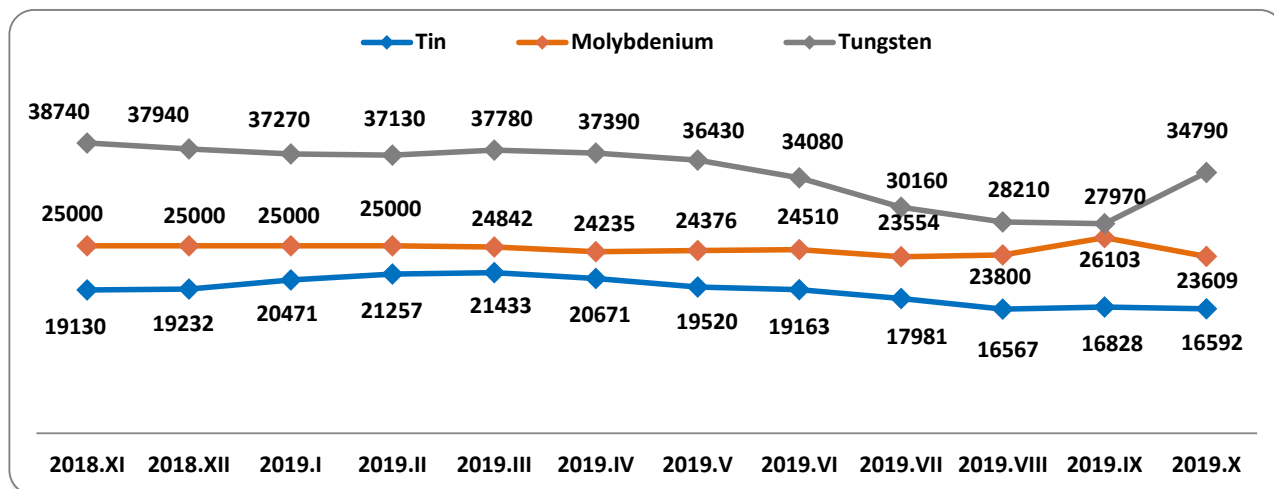


3.3. AVERAGE PRICE OF COPPER ON THE WORLD MARKET, by US\$/tons and last 12 months

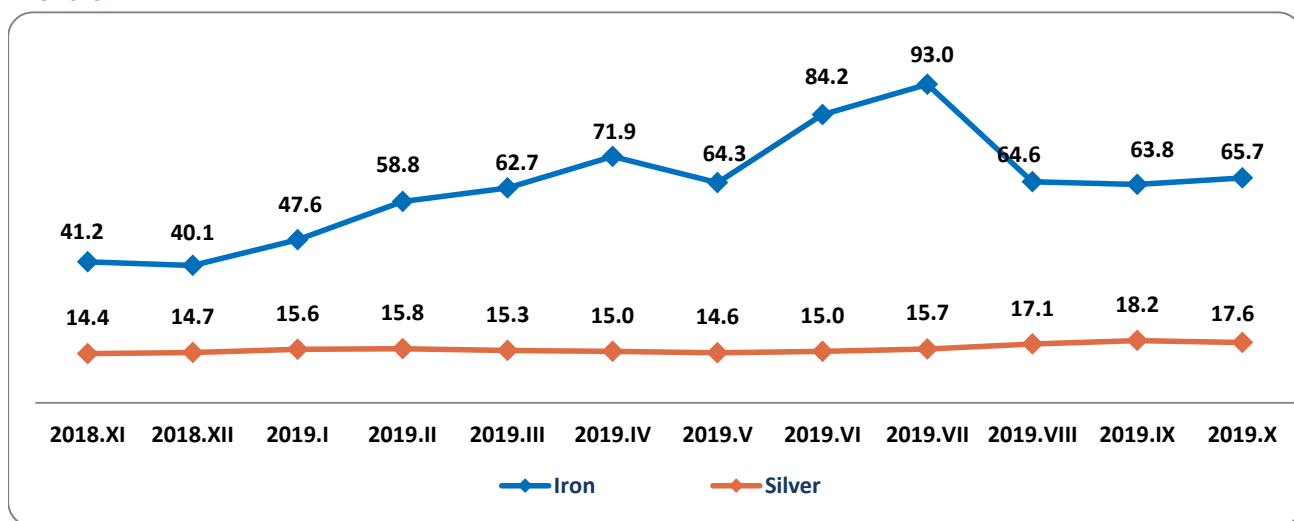


Source: www.kitco.com, www.westmetall.com, www.lme.com, www.asianmetal.com, www.lndmin.com, www.umetal.com www.sxcoal.com

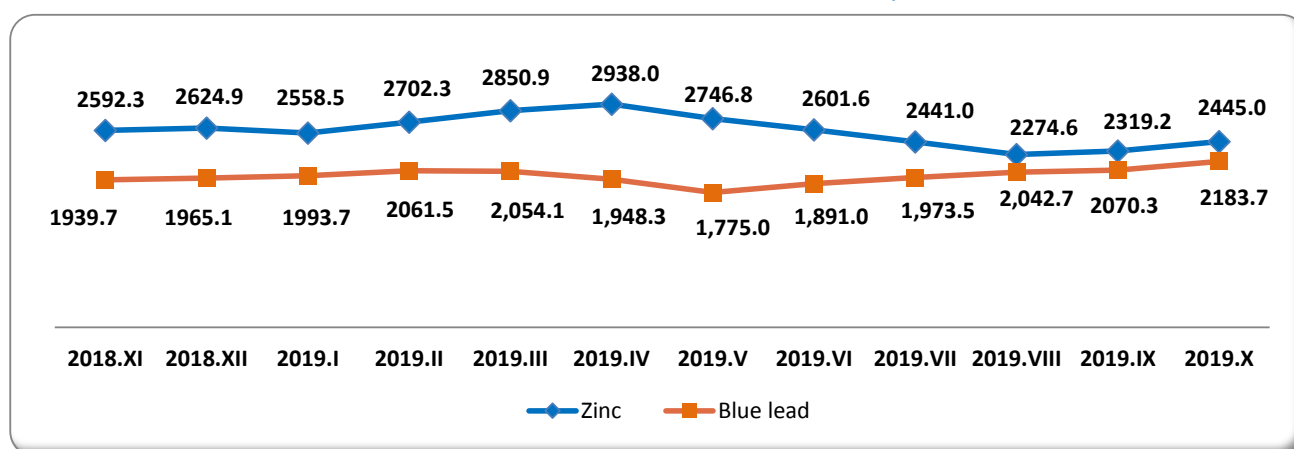
3.4. AVERAGE PRICE OF TIN, MOLYBDENIUM AND TUNGSTEN ON THE WORLD MARKET, by US\$/tons and last 12 months



3.5. AVERAGE PRICE OF IRON AND SILVER ON THE WORLD MARKET, by US\$/tons, US\$/ounce and last 12 months



3.6. AVERAGE PRICE OF ZINC AND BLUE LEAD ON THE WORLD MARKET, by US\$/tons and last 12 months



Source: www.kitco.com, www.westmetall.com, www.lme.com, www.asianmetal.com, www.lndmin.com, www.umetal.com www.sxcoal.com

3.7. LIST OF COMPANIES REGISTERED WITH INTERNATIONAL STOCK EXCHANGE COMPANIES OPERATING IN MONGOLIA'S MINING SECTOR, by 2018-2019

	Stock exchange	Symbol	Currency	Price						Market value /2019 XI.07/
				2018.X	2018	2019.IX	2019.X	<u>2019.X</u> 2018.X	<u>2019.X</u> 2019.IX	
Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	1.879	2.591	0.465	0.453	24.1%	97.4%	838.24M
Peabody Energy Corporation	NYQ	BTU	USD	35.441	39.303	16.933	14.757	41.6%	87.1%	1.09B
Rio Tinto plc	LSE	RIO.L	GBp	3,736.3	3,895.5	4,236.5	4,056.6	108.6%	95.8%	68.54B
Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0.138	0.155	0.102	0.101	73.2%	99.0%	194.34M
Mongolian Mining Corporation	HKG	0975.HK	HKD	0.164	0.171	0.953	0.809	493.3%	84.9%	731.53M
South Gobi Resources Ltd.	HKG	1878.HK	HKD	0.813	1.017	0.926	0.92	113.2%	-	196.37M
Centerra Gold Inc.	TOR	CG.TO	CAD	5.18	6.276	11.135	11.68	225.5%	104.9%	3.31B
Erdene Resource Development Corporation	TOR	ERD.TO	CAD	0.27	0.367	0.216	0.199	73.7%	92.1%	37.05M
Entrée Resources Ltd.	TOR	ETG.TO	CAD	0.501	0.536	0.283	0.243	48.5%	85.9%	50.36M
Prophecy Development Corp.	TOR	PCY.TO	CAD	0.401	2.015	0.386	0.447	111.5%	115.8%	49.09M
Steppe Gold Ltd	TOR	STGO.TO	CAD	1.005	1.145	0.895	1.043	103.8%	116.5%	45.40M
Kincora Copper Limited	VAN	KCC.V	CAD	0.135	0.159	0.091	0.075	55.6%	82.4%	8.04M
Altan Rio Minerals Limited	VAN	AMO.V	CAD	0.02	0.017	-	-	-	-	-
Xanadu Mines Limited	ASX	XAM.AX	AUD	0.122	0.177	0.051	0.045	36.9%	88.2%	27.11M
Aspire Mining Limited	ASX	AKM.AX	AUD	0.021	0.018	0.014	0.013	61.9%	92.9%	39.92M
Haranga Resources Limited	ASX	HAR.AX	AUD	-	0.003	-	-	-	-	-
Tian Poh Resources Limited	ASX	TPO.AX	AUD	-	0.082	-	-	-	-	34.79M
Banpu Public Company Limited	SET	BANPU.BK	THB	18.119	19.856	11.7	10.833	59.8%	92.6%	61.01B
Petro Matad Limited	LSE	MATD.L	GBp	6.036	8.608	6.206	4.217	69.9%	68.0%	29.09M
Wolf Petroleum Limited	ASX	WOF.AX	AUD	-	0.012	-	-	-	-	-

Source: www.nyse.com, www.londonstockexchange.com, www.hkex.com.hk, www.tmx.com, www.tsx.com, www.asx.com.au, www.set.or.th

3.8. LIST OF COMPANIES REGISTERED WITH INTERNATIONAL STOCK EXCHANGE COMPANIES OPERATING IN MONGOLIA'S MINING SECTOR, by 2018-2019

	Symbol	Price					
		2018.X	2018	2019.IX	2019.X	<u>2019.X</u> 2018.X	<u>2019.X</u> 2019.IX
Tavantolgoi	TTL	7,718	9,059	6,621	6,415	83.1%	96.9%
Baganuur	BAN	1,626	1,867	1,027	1,050	64.6%	102.2%
Shivee-Ovoo	SHV	2,063	2,087	2,456	2,615	126.8%	106.5%
Aduunchuluun	ADL	2,020	2,534	1,500	1,310	64.9%	87.3%
Shariin Gol	SHG	1,987	2,261	1,310	1,187	59.7%	90.6%
Erdene Resource Development Corporation	ERDN	593	605	484	475	-	98.1%
Mogoin gol	BDL	5,913	7,666	9,455	-	-	-
Bayanteeg	BTG	-	13,919	20,640	20,000	-	-
Berkh-Uul	BEU	-	802	550	600	-	-
Khar Tarvagatai	TVT	-	10,545	-	-	-	-
Taliin Gal	TAL	-	15	-	-	-	-
Mongol Basalt	MBW	335	345	301	266	79.4%	88.4%
Mongol Ceramic	KEK	-	21,000	-	-	-	-
Silikat	SIL	120	152	-	83	-	-
Songolon barmat	SSG	-	891	-	-	-	-
Remicon	RMC	34	37	24	25	73.5%	104.2%
Arig Tal	EER	3,623	3,631	3,325	3,338	92.1%	100.4%
Niislel-Urguu	NUR	-	9,600	-	-	-	-
Erchim Bayan-Ulgii	BOE	-	-	-	-	-	-
Khukh Gan	HGN	89	90	68	71	79.8%	104.4%
Nako Tulsh	NKT	-	135	55	-	-	-

Source: www.mse.mn

3.9. REHABILITATION WORK BY MINING LICENSE HOLDERS, by 2014-2018

	Unit	2014	2015	2016	2017	2018 (2019.IX.30)
Area covered by mining	ha	1560.7	871.0	703.5	1002.3	1001.8
Rehabilitated area	ha	959.6	750.0	876.4	677.2	740.1
Expenses for rehabilitation	mIn.MNT	9211.6	4019.0	2167.2	2966.4	3736.7
Area covered by technical rehabilitation	ha	523.1	589.0	954.0	698.5	684.2
Area covered by biological rehabilitation	ha	322.0	320.0	718.0	595.8	655.6
Environmental expenses	mIn.MNT	11683.1	3771.0	5180	5155	7338.9
Area of abusive protection rehabilitation	ha	-	-	257.0	81.6	170.6
Expenses for abusive protection rehabilitation	mIn.MNT	-	-	739.1	413.5	580.6
Area of remodeling the mine and rehabilitation of the village	ha	-	-	29.0	44.0	43.9
Expenses for remodeling the mine and rehabilitation of the village	mIn.MNT	-	-	175.0	214.0	300.0

3.10. AREA COVERED BY MINING AND REHABILITATION AREA IN 2018, by provinces and 2019.IX.30

	Count of entities	Area covered by mining		Area covered by technical rehabilitation		Area covered by biological rehabilitation		Environmental expenses	
		Ha	Percent	Ha	Percent	Ha	Percent	Ha	Percent
TOTAL	155	1001.8	100%	684.2	100%	655.7	100%	740.1	100%
Arkhangai	2	6.1	0.6%	10.0	1.5%	28.4	4.3%	28.4	3.8%
Bayan-Ulgii	1	0.2	0.0%	0.0	0.0%	2.0	0.3%	2.0	0.3%
Bayankhongor	8	24.4	2.4%	26.5	3.9%	18.2	2.8%	20.0	2.7%
Bulgan	9	91.7	9.2%	52.1	7.6%	55.6	8.5%	60.3	8.1%
Bulgan, Selenge	1	3.5	0.3%	6.4	0.9%	6.8	1.0%	7.1	1.0%
Bulgan, Tuv	7	141.3	14.1%	198.6	29.0%	102.3	15.6%	102.3	13.8%
Govi-Altai	3	42.0	4.2%	14.8	2.2%	3.5	0.5%	3.6	0.5%
Darkhan Uul	11	16.4	1.6%	31.8	4.6%	13.9	2.1%	19.8	2.7%
Dornogovi	9	26.3	2.6%	0.2	0.0%	1.9	0.3%	3.2	0.4%
Dornod	7	13.9	1.4%	9.5	1.4%	18.3	2.8%	18.9	2.6%
Dundgovi	10	5.6	0.6%	1.3	0.2%	0.1	0.0%	4.0	0.5%
Orkhon	2	173.4	17.3%	1.7	0.2%	2.4	0.4%	14.1	1.9%
Uvurkhangai	1	1.8	0.2%	2.0	0.3%	1.0	0.2%	1.0	0.1%
Umnugovi	4	11.7	1.2%	18.5	2.7%	12.5	1.9%	14.0	1.9%
Sukhbaatar	8	3.6	0.4%	0.6	0.1%	6.9	1.1%	26.0	3.5%
Selenge	16	126.7	12.6%	42.4	6.2%	31.6	4.8%	50.0	6.8%
Tuv	40	283.8	28.3%	255.5	37.3%	340.9	52.0%	350.2	47.3%
Khentii	16	29.4	2.9%	12.3	1.8%	9.4	1.4%	15.2	2.1%

Source: Mining Industry and Technology Division, MRPAM

4 | COAL

4.1. STRIPING, COAL PRODUCTION, SALE AND EXPORT, by 2014-2019

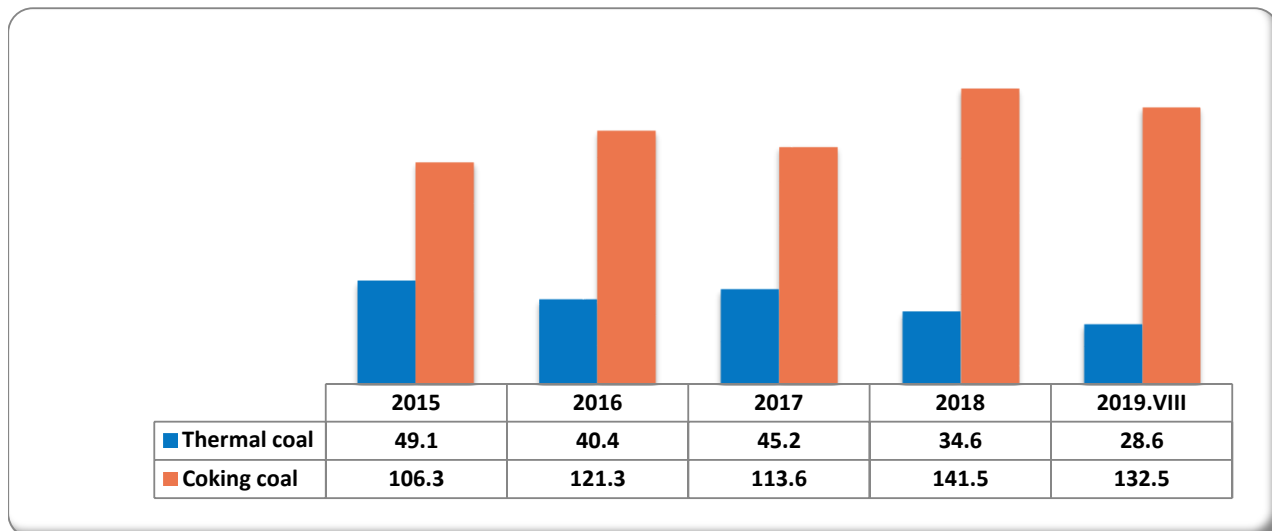
	Striping /ths.m3/	Coal production /ths.tons/	Coal sale /ths.tons/	Coal export /ths.tons/
2014	95,600.0	24,449.0	27,305.0	19,513.0
2015	92,975.0	23,979.0	22,125.0	14,468.0
2016	102,374.3	35,096.5	33,831.7	25,809.3
2017	197,240.8	49,480.3	41,904.6	33,400.1
2018	244,861.2	54,572.3	45,741.9	36,671.4
2019.I-X	212,145.1	49,464.2	40,623.8	32,768.1

4.2. COAL SALE, by ths.tons, type and 2019.I-X

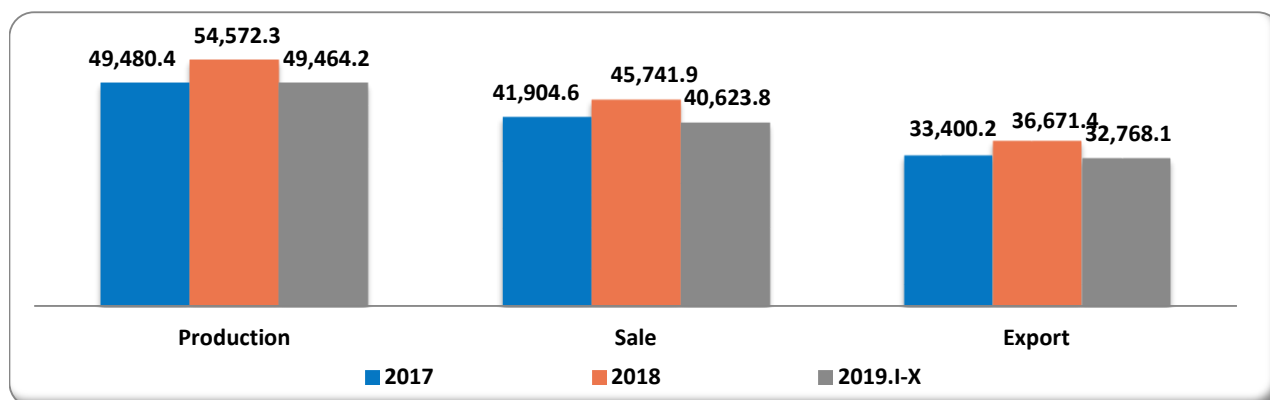
	TOTAL	Export	Local
БҮГД	40,623.8	32,768.1	7,855.7
Washed coking coal	6,103.9	6,103.9	-
Raw coking coal	14,818.4	14,818.4	-
Weak coking coal	7,631.1	7,631.1	-
Thermal coal	4,214.7	4,214.7	-
Brown coal	7,855.7	-	7,855.7

Source: Coal Research Division, MRPAM

4.3. AVERAGE PRICE OF COAL ON THE WORLD MARKET, by US\$/tons and 2015-2019



Source: www.infomine.com, www.sxcoal.com

4.4. COAL PRODUCTION, SALE AND EXPORT, by *ths.tons* and 2017- 20194.5. COAL PRODUCTION, SALE AND EXPORT, by *ths.tons*, month and 2018-2019

	Production	Sale	Export
2018	54,572.3	45,741.9	36,671.4
2018.I	3,840.5	4,313.8	3,207.2
2018.II	2,772.1	2,258.6	1,272.9
2018.III	4,215.0	4,194.0	3,444.3
2018.IV	5,056.0	4,208.0	3,546.0
2018.V	5,219.5	4,297.5	3,814.8
2018.VI	4,837.1	4,148.1	3,756.9
2018.VII	3,649.8	2,535.9	2,104.5
2018.VIII	2,891.9	2,647.0	2,114.1
2018.IX	4,285.6	4,785.8	4,038.9
2018.X	6,730.2	4,966.3	3,978.8
2018.XI	5,144.5	2,967.0	2,071.0
2018.XII	5,930.1	4,419.9	3,322.0
2019.I-X	49,464.2	40,623.8	32,768.1
2019.I	4,408.8	4,337.0	3,245.5
2019.II	4,155.0	2,990.3	1,929.5
2019.III	4,644.1	4,345.4	3,526.4
2019.IV	4,870.2	4,128.7	3,527.0
2019.V	5,244.6	3,891.7	3,378.2
2019.VI	4,435.5	3,695.8	3,066.5
2019.VII	5,196.0	3,602.8	2,936.5
2019.VIII	5,402.1	4,139.1	3,415.8
2019.IX	5,801.5	4,773.7	3,987.6
2019.X	5,306.4	4,719.3	3,755.1
2019.X 2018.X	78.8%	95.0%	94.4%
2019.I-X 2018.I-X	113.7%	105.9%	104.8%

Source: Coal Research Division, MRPAM

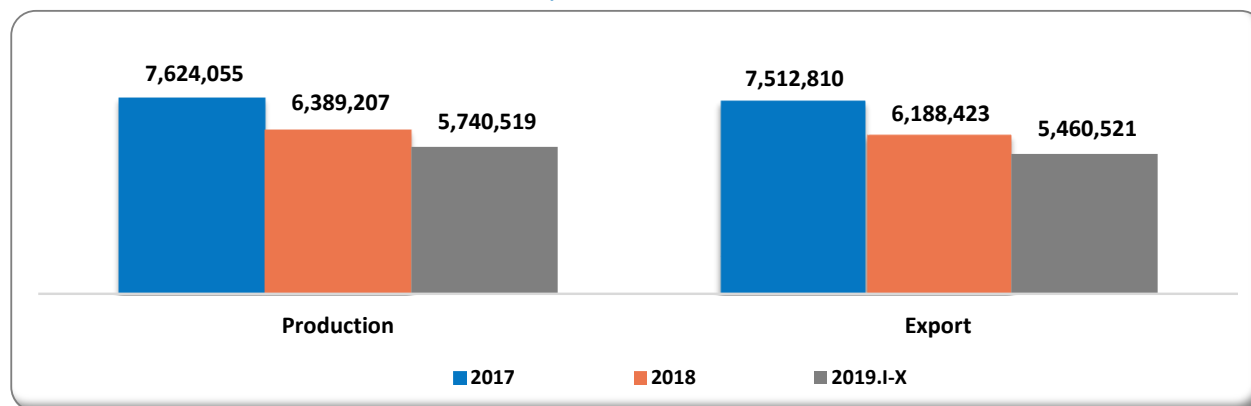
4.6. MINING AND PETROLEUM EXAMINATION AND TESTING CENTRAL LABORATORY, by 2019.X

Type of coal	Name	Classification	Border name	Deposite name	TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI
					Weight, %				Kcal/kg	Index	
Raw coal	Coal	Coking	Khangi	Ail bayan	14.8	9.7	22.9	0.49	6,423.8	9.0	105.5
			Gashuun sukhait	Baruun, zuun tsankhi	2.2	14.4	25.5	0.91	6,990.2	7.5	81.1
				Tavan tolgoi 4th orifice	2.7	19.9	28.2	1.14	6,339.6	6.5	82.3
		Weak coking	Gashuun sukhait	Tavan tolgoi 8th orifice	6.6	20.8	30.4	1.21	5,866.6	7.5	86.6
			Shivee khuren	Khuren shand	2.1	6.9	38.0	1.59	7,177.9	6.0	81.4
				Zangat uul	1.5	19.2	32.5	0.92	6,996.2	7.5	98.0
				Чинхуа мак	5.3	8.3	36.4	1.41	6,838.9	5.0	66.5
				Baruun noyon	2.3	15.6	29.5	0.52	6,742.0	6.0	87.2
				SGS	3.5	14.4	40.7	1.43	6,431.1	4.5	65.7
				Non coking	Gashuun sukhait	ETT Erchim khuch	7.4	22.1	28.1	0.68	5,461.6
		Tavan tolgoi erchim khuch	1.6			35.4	33.7	1.12	5,047.9	2.5	19.9
		Shivee khuren	МАК		18.3	23.6	36.7	0.61	4,213.3	0.0	0.0
			Nariin sukhait SGS	6.8	16.582	39.3	1.416	6,372.0	1.5	15.7	
		Other	Zamiin Uud	Alag tolgoi	8.4	12.5	47.0	1.34	5,455.5	0.0	0.0
				Dalan shtain	7.3	28.2	20.6	0.86	5,350.4	0.0	0.0
Brown coal	Bichigt	Tukhum	28.2	9.4	45.6	1.01	4,077.5	0.0	0.0		
Washed coal	Coal	Coking	Gashuun sukhait	Ukhaa khudag	12.9	12.1	21.9	0.70	6,884.0	8.0	84.5
			Yarant	Khushuut	3.1	21.5	20.1	0.56	6,331.9	6.5	65.8
		Weak coking	Shivee khuren	МАК	4.9	12.3	33.16	0.67	6,667.5	2.5	30.9
		Non coking	Gashuun sukhait	Ухаа худаг	5.8	14.6	20.88	0.89	6,647.3	0.0	0.0
				Dalan	3.6	28.5	24.2	1.00	5,602.7	0.0	0.0
Coking and half coking of coal	27,04-0010	Gashuun sukhait	Coke	4.0	7.8	8.0	0.39	7,477.5	0.0	0.0	

Source: Central Laboratory of Mining and Petroleum, MRPAM

5 | PETROLEUM

5.1. PETROLEUM PRODUCTION AND EXPORT, by barrel and 2017-2019



5.2. PETROLEUM PRODUCTION AND EXPORT, by barrel, month and 2018-2019

	Production		Export	
	Barrel	Percent	Barrel	Percent
2018	6,389,207	100%	6,188,423	100%
2018.I	620,842	9.7%	558,232	9.0%
2018.II	556,544	8.7%	451,701	7.3%
2018.III	568,740	8.9%	621,219	10.0%
2018.IV	535,029	8.4%	579,017	9.4%
2018.V	556,865	8.7%	555,443	9.0%
2018.VI	539,680	8.4%	541,818	8.8%
2018.VII	563,763	8.8%	543,629	8.8%
2018.VIII	553,224	8.7%	537,238	8.7%
2018.IX	515,475	8.1%	423,496	6.8%
2018.X	198,319	3.1%	156,157	2.5%
2018.XI	569,745	8.9%	698,891	11.3%
2018.XII	610,983	9.6%	521,584	8.4%
2019.I-X	5,740,519	100%	5,460,521	100%
2019.I	586,738	10.2%	533,836	9.8%
2019.II	515,318	9.0%	477,824	8.8%
2019.III	569,607	9.9%	609,104	11.2%
2019.IV	549,452	9.6%	484,692	8.9%
2019.V	565,179	9.8%	521,782	9.6%
2019.VI	575,604	10.0%	549,609	10.1%
2019.VII	601,686	10.5%	548,598	10.0%
2019.VIII	591,120	10.3%	564,567	10.3%
2019.IX	572,358	10.0%	551,501	10.1%
2019.X	613,457	10.7%	619,007	11.3%
2019.X 2018.X	309.3%	-	396.4%	-
2019.I-X 2018.I-X	110.2%	-	109.9%	-

Source: Petroleum Exploitation Division, MRPAM

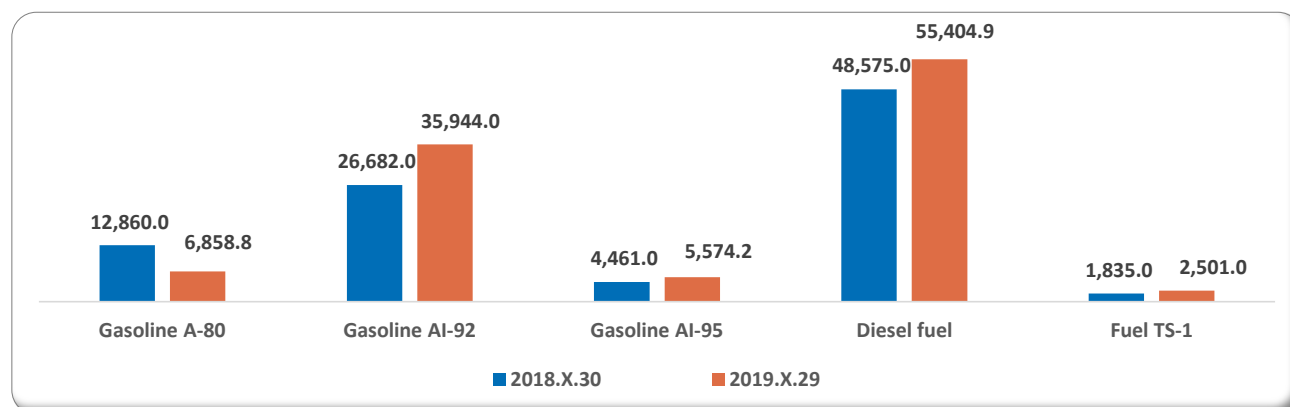
5.3. PETROLEUM PRODUCTS IMPORTING, by tons, type, months and 2018-2019

	TOTAL	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Gasoline AI-98	Diesel fuel	Fuel TS-1	Lique- fied gas	Other
2018	1,870,930	71,599	400,751	20,822	1,541	953,905	65,865	39,503	316,945
2019.I-X	1,760,209	55,231	413,486	21,773	961	983,808	46,885	38,216	199,849
2019.I	191,530	7,230	53,693	2,480	179	109,068	5,572	3,236	10,072
2019.II	140,654	4,229	37,999	2,098	64	80,592	4,798	2,247	8,627
2019.III	156,866	5,913	42,352	1,452	-	88,872	3,555	4,008	10,713
2019.IV	147,457	8,390	40,199	1,712	243	78,169	7,120	7,522	4,102
2019.V	140,470	4,163	33,267	1,759	60	80,658	1,012	2,760	16,791
2019.VI	167,007	4,881	30,361	1,238	120	105,218	4,282	3,229	17,679
2019.VII	247,843	6,405	59,705	2,182	4	144,596	4,740	4,858	25,353
2019.VIII	212,320	5,397	49,687	4,476	179	111,121	7,646	2,974	30,839
2019.IX	168,954	4,394	35,728	1,828	112	88,156	2,267	3,842	32,627
2019.X	187,107	4,228	30,495	2,548	-	97,358	5,894	3,539	43,045
2019.X 2018.X	123.1%	54.6%	100.3%	243.7%	-	127.7%	109.3%	73.6%	163.5%
2019.I-X 2018.I-X	113.1%	90.2%	128.1%	130.4%	85.4%	126.5%	84.6%	117.9%	69.0%

5.4. PETROLEUM PRODUCTS IMPORTING, by tons, type, countries and 2019.X

	БҮГД	Russia	China	Republic of Korea	Other countries
TOTAL	187,107	177,517	7,017	1,462	1,110
Gasoline A-80	4,228	4,168	-	-	59
Gasoline AI-92	30,495	28,018	2,295	-	182
Gasoline AI-95	2,548	2,548	-	-	-
Gasoline AI-98	0	-	-	-	-
Diesel fuel	97,358	92,880	4,477	-	-
Fuel TS-1	5,894	5,894	-	-	-
Lique- fied gas	3,539	3,294	69	177	-
Other	43,045	40,715	176	1,286	869

5.5. RESIDUE OF PETROLEUM PRODUCTS, by tons, type and 2018.X.30, 2019.X.29



Source: Petroleum Products Division, MRPAM

5.6. THE WORLD AVERAGE PRICE OF PETROLEUM PRODUCTS ARE SELLING RETAIL SALE, by US\$/tons and 2019

	New York / WTI	London / BRENT	Russia / URAL S32'	China / DAQNG 33'
2019.I.04	374.23	436.28	386.96	335.80
2019.I.11	402.56	459.53	433.51	389.45
2019.I.18	421.67	475.33	437.60	386.69
2019.I.28	406.77	455.20	430.22	384.80
2019.II.04	430.57	477.08	436.65	394.83
2019.II.11	407.63	469.78	437.97	399.20
2019.II.19	437.75	501.85	460.92	436.20
2019.II.25	430.88	491.97	468.74	434.38
2019.III.05	440.01	496.99	463.55	424.50
2019.III.12	444.77	506.94	468.59	427.80
2019.III.19	462.72	513.40	474.29	434.46
2019.III.26	457.18	504.58	473.12	436.35
2019.IV.02	481.76	525.40	486.71	446.16
2019.IV.09	503.37	540.37	462.30	459.90
2019.IV.16	493.54	538.70	503.89	463.32
2019.IV.23	515.39	566.05	522.16	478.22
2019.IV.30	496.66	416.75	511.63	465.28
2019.V.07	487.38	541.81	503.89	452.56
2019.V.14	477.15	534.90	509.29	460.77
2019.V.20	497.44	556.10	514.56	469.28
2019.V.28	461.24	521.60	483.35	442.16
2019.VI.04	412.78	462.72	446.88	394.76
2019.VI.11	418.24	475.56	414.00	406.76
2019.VI.18	404.74	462.72	425.03	392.87
2019.VI.25	450.94	487.41	443.96	417.73
2019.VII.02	458.74	492.65	458.94	432.35
2019.VII.09	448.36	485.28	444.69	416.13
2019.VII.16	464.04	504.66	464.06	429.15
2019.VII.23	438.61	481.03	439.58	411.12
2019.VII.30	446.41	485.59	455.65	405.01
2019.VIII.06	422.84	451.32	459.67	392.07
2019.VIII.13	427.60	444.18	407.06	365.17
2019.VIII.20	438.53	454.74	409.61	373.75
2019.VIII.27	420.74	444.10	412.17	376.30
2019.IX.02	427.92	446.84	424.23	383.93
2019.IX.10	423.23	478.75	416.92	390.84
2019.IX.17	484.02	518.56	403.77	415.63
2019.IX.24	455.85	481.79	444.33	412.50
2019.X.01	424.80	453.60	411.81	396.29
2019.X.08	414.11	446.00	393.17	385.16
2019.X.15	417.77	450.94	407.42	397.23
2019.X.22	417.38	447.75	398.65	398.69
2019.X.29	432.75	462.87	427.52	413.88
2019.X.29				
2019.IX.24	94.9%	96.1%	96.2%	100.3%
2019.X.29				
2018.X.26	82.1%	78.4%	79.4%	81.6%

Source: www.wtrg.com, www.bloomberg.com, www.ineng.org, www.reuters.com, www.oil.in-en.com, www.topoilnews.com, www.nymex.com, www.finmarket.ru, www.quandl.com, www.topoilnews.com

5.7.RETAIL PRICE OF PETROLEUM PRODUCTS SOLD THROUGHOUT MONGOLIA, by MNT/litre, provinces and 2019.IX.27, 2019.X.29

	Gasoline A-80			Gasoline AI-92			Gasoline AI-95			Diesel fuel		
	2019. IX.24	2019. X.29	<u>2019.X.29</u> 2019.IX.24	2019. IX.24	2019. X.29	<u>2019.X.29</u> 2019.IX.24	2019. IX.24	2019. X.29	<u>2019.X.29</u> 2019.IX.24	2019. IX.24	2019. X.29	<u>2019.X.29</u> 2019.IX.24
NATIONAL AVERAGE PRICE	1844	1847	100.2%	1920	1920	100.0%	2260	2260	100.0%	2426	2425	99.9%
Western region	1906	1920	100.7%	1986	1986	100.0%	-	-	-	2402	2402	100.0%
Bayan-Ulgii	1800	1840	102.2%	1880	1880	100.0%	-	-	-	2190	2190	100.0%
Govi-Altai	1820	1850	101.6%	1910	1910	100.0%	-	-	-	2450	2450	100.0%
Zavkhan	2000	2000	100.0%	2070	2070	100.0%	-	-	-	2580	2580	100.0%
Uvs	1900	1900	100.0%	1980	1980	100.0%	-	-	-	2390	2390	100.0%
Hovd	2010	2010	100.0%	2090	2090	100.0%	-	-	-	2400	2400	100.0%
Hangai region	1799	1799	100.0%	1879	1879	100.0%	2242	2242	100.0%	2423	2423	100.0%
Arkhangai	1820	1820	100.0%	1890	1890	100.0%	2250	2250	100.0%	2460	2460	100.0%
Bayankhongor	1860	1860	100.0%	1900	1900	100.0%	-	-	-	2480	2480	100.0%
Bulgan	1750	1750	100.0%	1855	1855	100.0%	2240	2240	100.0%	2380	2380	100.0%
Uvurkhangai	1820	1820	100.0%	1890	1890	100.0%	2250	2250	100.0%	2460	2460	100.0%
Orkhon	1750	1750	100.0%	1840	1840	100.0%	2240	2240	100.0%	2370	2370	100.0%
Selenge	1740	1740	100.0%	1840	1840	100.0%	2240	2240	100.0%	2370	2370	100.0%
Khuvsgul	1850	1850	100.0%	1940	1940	100.0%	2230	2230	100.0%	2440	2440	100.0%
Central region	1794	1794	100.0%	1881	1881	100.0%	2258	2258	100.0%	2407	2401	99.7%
Ulaanbaatar	1750	1750	100.0%	1835	1835	100.0%	2240	2240	100.0%	2367	2367	100.0%
Tuv	1740	1740	100.0%	1780	1780	100.0%	2240	2240	100.0%	2310	2260	97.8%
Darkhan	1750	1750	100.0%	1840	1840	100.0%	2240	2240	100.0%	2370	2370	100.0%
Govisumber	1830	1830	100.0%	1890	1890	100.0%	2280	2280	100.0%	2480	2480	100.0%
Dundgovi	1810	1810	100.0%	1920	1920	100.0%	2250	2250	100.0%	2320	2320	100.0%
Dornogovi	1810	1810	100.0%	1910	1910	100.0%	2270	2270	100.0%	2460	2460	100.0%
Umnugovi	1850	1850	100.0%	1960	1960	100.0%	2270	2270	100.0%	2490	2490	100.0%
Zamin Uud	1810	1810	100.0%	1910	1910	100.0%	2270	2270	100.0%	2460	2460	100.0%
Eastern region	1877	1877	100.0%	1933	1933	100.0%	2280	2280	100.0%	2473	2473	100.0%
Dornod	1880	1880	100.0%	1940	1940	100.0%	2250	2250	100.0%	2470	2470	100.0%
Sukhbaatar	1880	1880	100.0%	1950	1950	100.0%	2320	2320	100.0%	2480	2480	100.0%
Khentii	1870	1870	100.0%	1910	1910	100.0%	2270	2270	100.0%	2470	2470	100.0%

Source: Petroleum Products Division, MRPAM

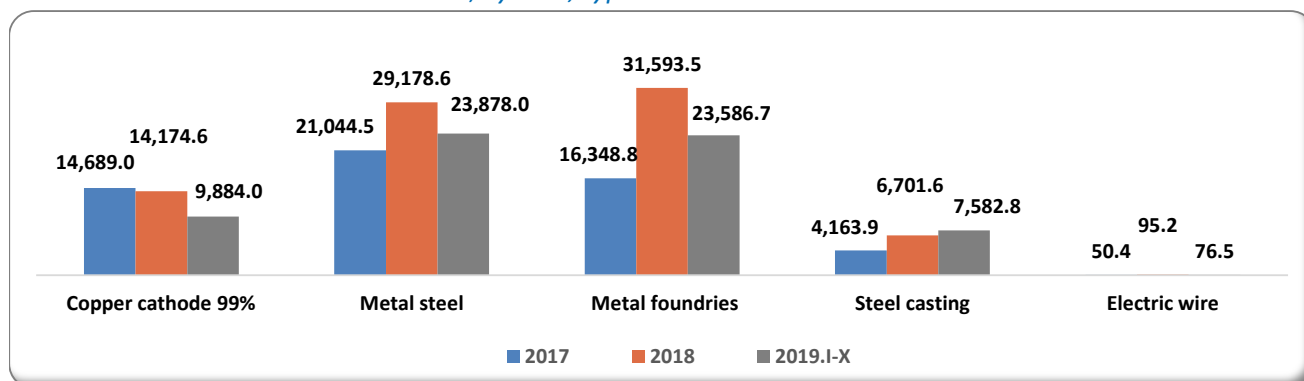
5.8. RETAIL PRICE OF PETROLEUM PRODUCTS SOLD THROUGHOUT MONGOLIA, by MNT/litre, type, and end of month 2017-2019

	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel
2017.I.25	1538	1658	1817	1750
2017.II.21	1574	1713	1842	1800
2017.III.27	1573	1712	1839	1799
2017.IV.25	1573	1712	1861	1796
2017.V.23	1568	1707	1861	1791
2017.VI.27	1568	1707	1861	1791
2017.VII.18	1568	1705	1861	1790
2017.VIII.29	1559	1698	1861	1790
2017.IX.19	1559	1698	1861	1780
2017.X.31	1557	1695	1862	1776
2017.XI.28	1559	1701	1863	1783
2017.XII.26	1563	1703	1863	1794
2018.I.30	1569	1709	2042	1987
2018.II.27	1644	1792	2073	2097
2018.III.27	1677	1824	2071	2116
2018.V.01	1667	1813	2082	2089
2018.V.29	1669	1813	2129	2087
2018.VI.26	1691	1815	2076	2091
2018.VII.31	1750	1888	2157	2175
2018.VIII.28	1750	1888	2157	2180
2018.IX.25	1783	1917	2163	2215
2018.X.30	1865	2002	2223	2328
2018.XI.27	1931	2068	2342	2443
2018.XII.31	1879	1924	2319	2450
2019.I.29	1768	1823	2206	2353
2019.II.26	1763	1819	2206	2351
2019.III.26	1763	1819	2206	2348
2019.IV.30	1803	1885	2248	2401
2019.V.28	1875	1980	2325	2445
2019.VI.25	1874	1968	2297	2435
2019.VII.30	1845	1921	2262	2433
2019.VIII.27	1844	1920	2260	2432
2019.IX.24	1844	1920	2260	2426
2019.X.29	1847	1920	2260	2425
2019.X.29 2019.IX.24	100.2%	100.0%	100.0%	99.9%
2019.X.29 2018.X.30	99.0%	95.9%	101.7%	104.2%
2019.X.29 2017.X.31	118.6%	113.3%	121.4%	136.5%

Source: Petroleum Products Division, MRPAM

6 | HEAVY INDUSTRY

6.1. HEAVY INDUSTRIAL PRODUCTION, by tons, type and 2017-2019

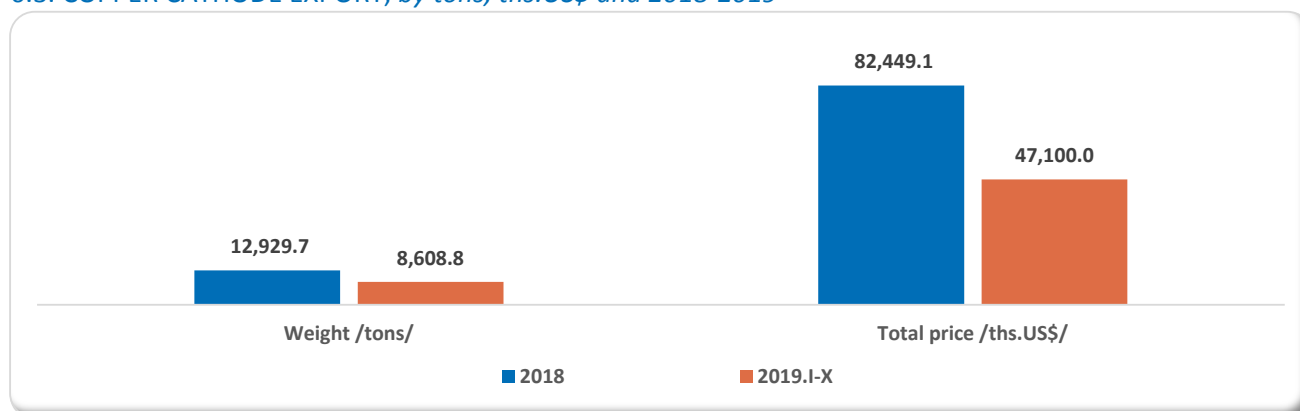


6.2. HEAVY INDUSTRIAL PRODUCTION, by tons, type and months 2018-2019

	Copper cathode 99%	Metal steel	Metal foundries	Steel casting	Electric wire
2018	14,174.6	29,178.6	31,593.5	6,701.6	95.2
2018.I	1,262.3	2,728.2	1,389.2	225.7	17.8
2018.II	1,080.2	1,701.6	2,424.3	-	1.3
2018.III	1,239.3	3,577.5	3,946.7	-	4.5
2018.IV	1,186.0	3,613.7	3,033.0	671.5	9.3
2018.V	1,264.2	591.4	2,000.0	1,216.0	9.1
2018.VI	1,149.2	3,031.2	3,784.3	789.2	7.1
2018.VII	1,184.2	1,546.3	1,939.8	350.9	10.7
2018.VIII	1,237.8	1,583.9	1,596.5	992.1	6.7
2018.IX	849.2	2,483.1	2,173.7	820.3	0.0
2018.X	1,255.0	2,435.1	3,839.0	735.9	11.4
2018.XI	1,289.9	2,463.7	3,298.4	481.0	2.3
2018.XII	1,177.3	3,422.9	2,168.6	419.0	15.0
2019.I-X	9,884.0	23,878.0	23,586.7	7,582.8	76.5
2019.I	1,236.5	3,520.6	3,624.9	386.7	9.2
2019.II	1,020.9	3,675.9	3,932.0	311.6	7.7
2019.III	1,038.7	624.2	-	496.3	9.1
2019.IV	1,031.9	2,035.8	1,704.1	998.1	13.1
2019.V	1,076.5	3,661.9	4,096.0	1,179.9	6.9
2019.VI	884.4	2,540.7	3,072.4	859.1	6.1
2019.VII	986.3	3,191.9	2,242.1	226.8	4.0
2019.VIII	931.4	805.1	1,603.0	1,052.9	-
2019.IX	743.7	1,695.9	3,312.2	1,092.5	7.0
2019.X	933.7	2,126.0	-	978.9	13.4
2019.X 2018.X	74.4%	87.3%	-	133.0%	117.5%
2019.I-X 2018.I-X	84.4%	102.5%	90.3%	130.7%	98.2%

Source: Heavy Industry and Technology Division, MRPAM

6.3. COPPER CATHODE EXPORT, by tons, ths.US\$ and 2018-2019



6.4. COPPER CATHODE EXPORT, by tons, ths US\$, month and 2018-2019

	Weight		Total price	
	Tons	Percent	Ths.US\$	Percent
2018	12,929.7	100%	82,449.1	100%
2018.I	1,161.4	9.0%	7,932.0	9.6%
2018.II	1,160.3	9.0%	7,912.1	9.6%
2018.III	1,160.1	9.0%	7,727.4	9.4%
2018.IV	1,161.1	9.0%	7,737.9	9.4%
2018.V	1,160.8	9.0%	7,679.3	9.3%
2018.VI	1,160.6	9.0%	7,765.4	9.4%
2018.VII	760.4	5.9%	4,791.3	5.8%
2018.VIII	1,361.0	10.5%	8,041.6	9.8%
2018.IX	960.9	7.4%	5,581.0	6.8%
2018.X	961.1	7.4%	5,758.9	7.0%
2018.XI	961.2	7.4%	5,783.2	7.0%
2018.XII	960.8	7.4%	5,739.0	7.0%
2019.I-X	8,608.8	100%	47,100.0	100%
2019.I	760.0	8.8%	4,381.0	9.3%
2019.II	761.0	8.8%	4,518.5	9.6%
2019.III	760.8	8.8%	4,769.4	10.1%
2019.IV	760.5	8.8%	4,779.7	10.1%
2019.V	760.7	8.8%	4,564.4	9.7%
2019.VI	761.0	8.8%	4,312.7	9.2%
2019.VII	560.7	6.5%	530.8	1.1%
2019.VIII	1,161.7	13.5%	6,450.5	13.7%
2019.IX	1,161.2	13.5%	6,395.5	13.6%
2019.X	1,161.2	13.5%	6,397.5	13.6%
2019.X 2018.X	120.8%	-	111.1%	-
2019.I-X 2018.I-X	78.2%	-	66.4%	-

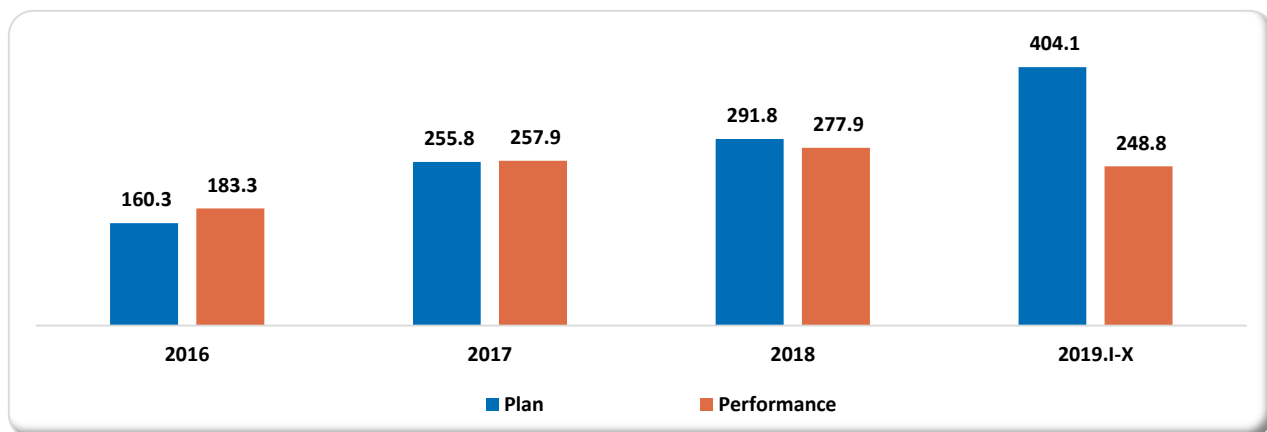
Source: Heavy Industry and Technology Division, MRPAM

7 | STATE BUDGET REVENUE

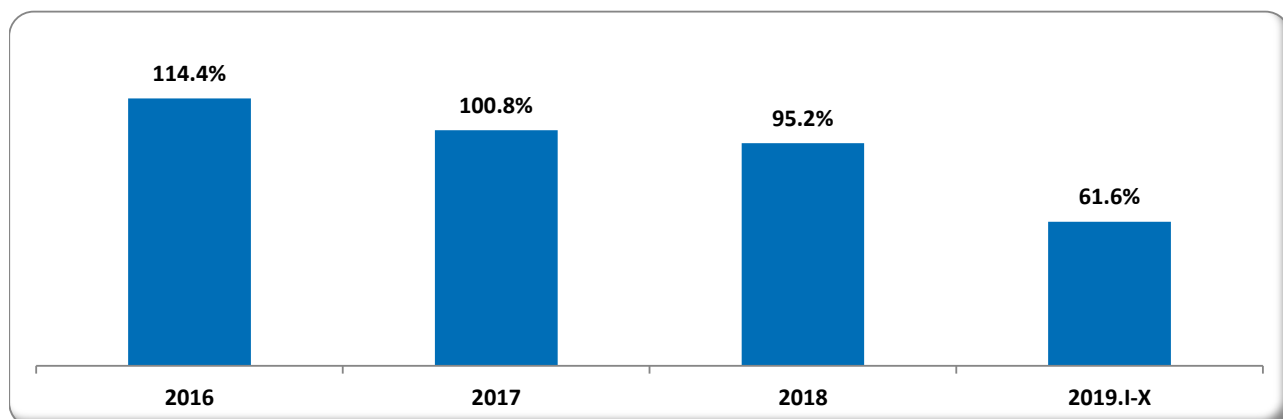
7.1. BUDGET REVENUE PLAN AND PERFORMANCE OF MRPAM, by million.MNT, income type and 2019

	Plan of 2019	2019.I-IX		2019.I-X	
		Performance	Performance rate	Performance	Performance rate
TOTAL	404,050.0	224,436.2	55.5%	248,797.0	61.6%
License fee	42,900.0	28,699.1	66.9%	32,348.1	75.4%
Reimbursement	2,300.0	4,176.7	181.6%	4,263.7	185.4%
Petroleum export revenue	335,600.0	172,149.6	51.3%	192,668.3	57.4%
Service revenue /petroleum/	2,717.7	2,256.3	83.0%	2,256.3	83.0%
Service revenue /mineral resources/	9,282.4	1,697.9	18.3%	1,804.0	19.4%
Tender revenue	11,250.0	15,456.7	137.4%	15,456.7	137.4%

7.2. BUDGET REVENUE OF MRPAM, by billion MNT and 2016-2019



7.3. BUDGET PERFORMANCE RATE OF MRPAM, by 2016-2019



Source: Public Administration and Management Division, MRPAM



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