




**MINISTRY OF MINING  
AND HEAVY INDUSTRY**



**MINERAL RESOURCES AND  
PETROLEUM AUTHORITY OF  
MONGOLIA**

A collage of seven diamond-shaped images arranged in a cross pattern. The images depict various mining and petroleum activities: an excavator bucket, an oil pumpjack at sunset, a large mining truck, a conveyor belt at a mine, a pile of gold nuggets, a large mining truck, and a wide view of a mining operation with several trucks and buildings.

***MINERAL RESOURCES AND  
PETROLEUM STATISTICS  
2018/VIII***

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## **BACKGROUND**

*This "Mineral Resources and Petroleum Statistics" has been monthly published for you, Dear Costumer, in printed and electronic versions since 2013 and we have begun updating the content and version of the compendium, depending on the characteristics of our subscribers, the frequency of news, and the evolution of modern statistics. If you have any further questions, please send us the following address and telephone to assist us.*

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## KEY INDICATORS 2018.I-VIII

Valid mining and exploration licenses <b>3200</b>	Valid licensed area size <b>9,5</b> mln.ha	Percent of total area in Mongolia's territory <b>6.0%</b>
The average price of gold US\$/ounce <b>1201,3</b>	The average price of copper, US\$/tons <b>6039,3</b>	Thermal coal on the world market average price US\$/tons <b>30.4</b>
Coking coal on the world market average price US\$/tons <b>141,7</b>	Coal production <b>32'481,9</b> ths.tons	Coal sale <b>28'602,9</b> ths.tons
Coal export <b>23'260,7</b> ths.tons	Petroleum production <b>4'494'108</b> barrel	Petroleum export <b>4'388'295</b> barrel
Petroleum import <b>173'442,8</b> tons	Gasoline A-80 national average price <b>1750</b> MNT	Gasoline AI-92 national average price <b>1888</b> MNT
Gasoline AI-95 national average price <b>2157</b> MNT	Diesel fuel national average price <b>2180</b> MNT	Performance rate of budget revenue <b>83,0%</b>



## I. STATISTICS OF MINERAL LICENSES AND AREA SIZE

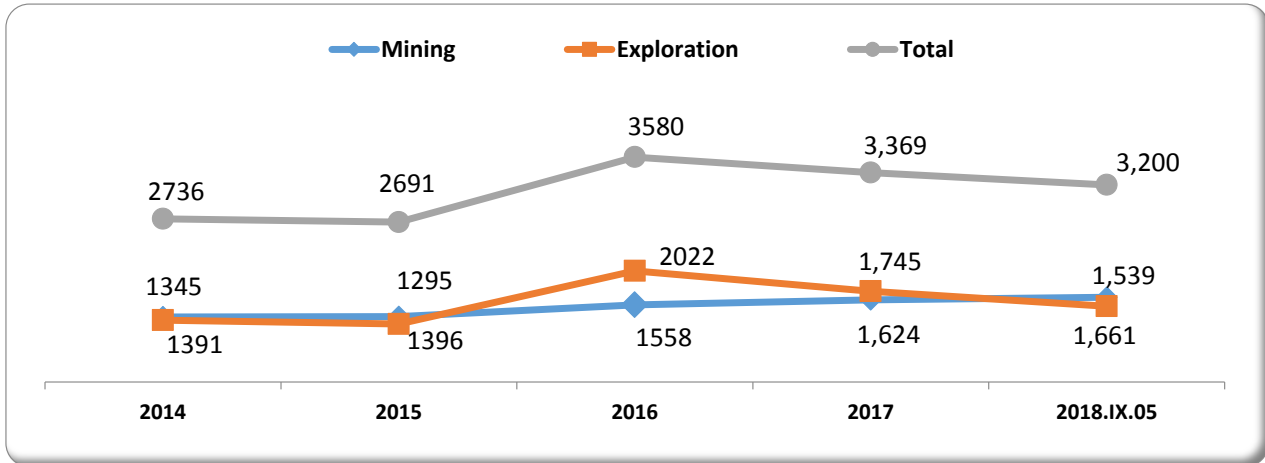
### 1.1. COUNT OF VALID LICENSES AND AREA SIZE, /by provinces, 2018.IX.05/

Aimag and capital city	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
<b>TOTAL</b>	<b>3200</b>	<b>9458.8</b>	<b>6.0</b>	<b>1661</b>	<b>1577.4</b>	<b>1.01</b>	<b>1539</b>	<b>7881.4</b>	<b>5.02</b>
Arkhangai	37	73.7	1.3	26	12.6	0.23	11	61.1	1.11
Bayan-Ulgii	68	182.1	4.0	27	12.9	0.28	41	169.2	3.70
Bayankhongor	169	469.3	4.1	89	83.5	0.72	80	385.8	3.34
Bulgan	120	178.4	3.7	71	34.8	0.71	49	143.6	2.95
Uvurkhangai	52	114.2	1.8	30	15.7	0.25	22	98.5	1.57
Govi-Altai	176	912.0	6.4	49	70.1	0.49	127	841.9	5.94
Govisumber	17	58.7	10.6	12	38.7	6.99	5	20.0	3.61
Darkhan Uul	79	15.6	4.8	67	9.5	2.91	12	6.1	1.87
Dornogovi	399	1643.8	15.0	177	210.3	1.92	222	1433.5	13.11
Dornod	174	547.1	4.4	70	56.6	0.46	104	490.5	3.97
Dundgovi	219	860.3	11.5	98	158.7	2.13	121	701.6	9.40
Zavhan	79	458.0	5.5	8	13.8	0.17	71	444.2	5.38
Umnugovi	210	1378.5	8.3	98	512.7	3.10	112	865.8	5.24
Orkhon	9	11.0	13.1	9	11.0	13.09	0	0.0	0.00
Sukhbaatar	102	427.7	5.2	63	51.7	0.63	39	376.0	4.57
Selenge	196	117.0	2.8	142	36.5	0.88	54	80.5	1.94
Tuv	447	453.5	6.1	306	145.3	1.96	141	308.2	4.17
Uvs	154	561.1	8.1	45	20.2	0.29	109	540.9	7.77
Ulaanbaatar	183	14.1	3.0	170	12.6	2.66	13	1.5	0.32
Khuvsgul	36	99.4	1.0	21	9.2	0.09	15	90.2	0.89
Khovd	124	376.1	4.9	33	13.4	0.18	91	362.7	4.77
Khentii	253	507.2	6.3	113	47.5	0.59	140	459.7	5.70

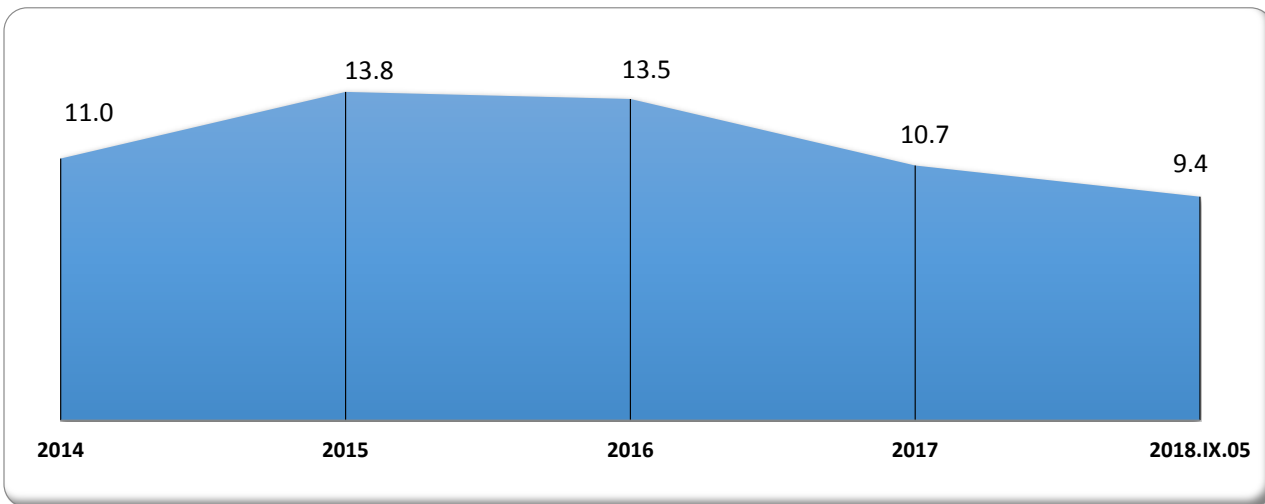
Source: Cadastre Division, MRPAM



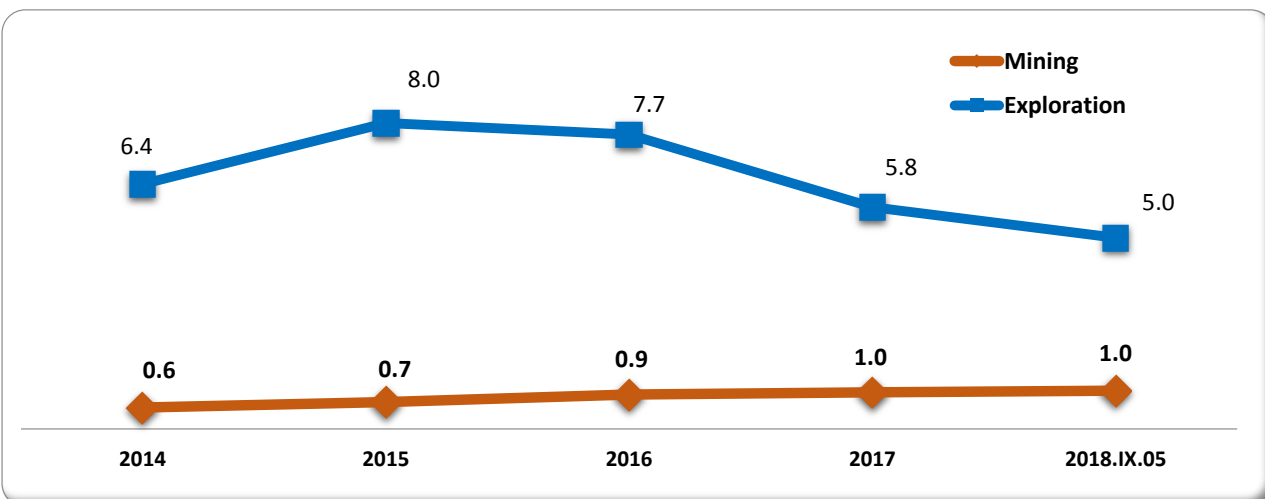
### 1.2. COUNT OF VALID LICENSES, 2014-2018



### 1.3. VALID LICENSED AREA /mln.ha, 2014-2018/



### 1.4. PERCENT OF TOTAL AREA IN MONGOLIA'S TERRITORY, 2014-2018



Notes: Exploration licenses stopped issuing since 2010.IV.20  
 Application for exploration licenses started to receiving from 2015.I.26

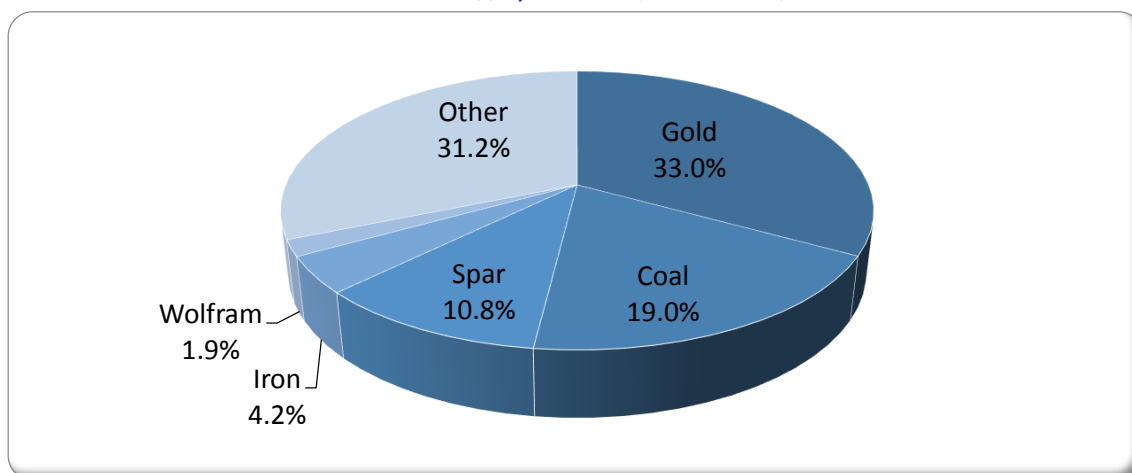
Source: Cadastre Division, MRPAM



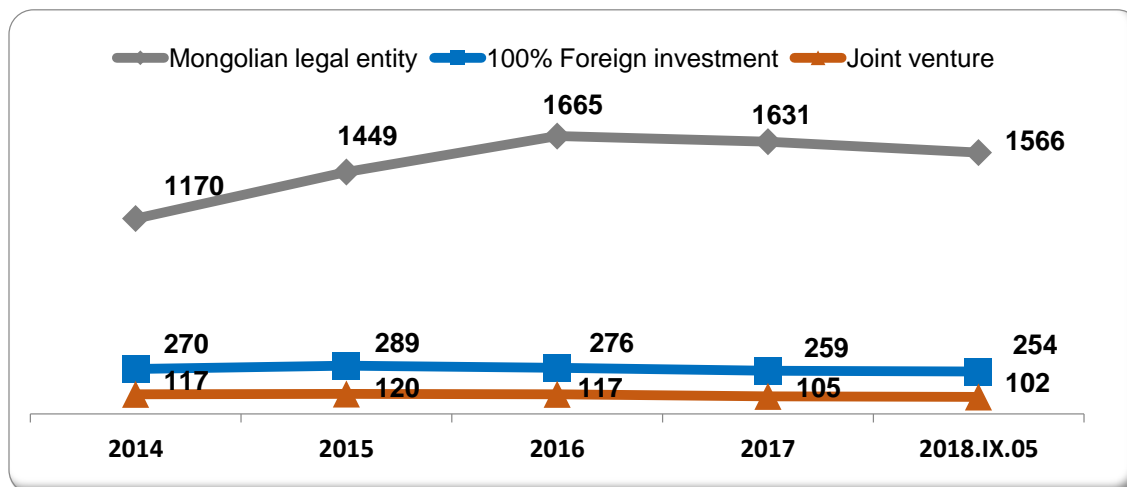
1.5. REGISTERED AREA, /mln.ha, overlap, 2018.IX.05/

	Hectare	Percent of total territory
Valid mining licensed area	1.5	1.0%
Valid exploration licensed area	7.8	5.0%
State protected area	29.1	18.6%
Special purpose area	28.3	18.1%
Strategic deposit, government reserved area	39.2	25.1%
Settled area, border and railway strip area	1.1	0.7%
Other prohibited area	49.1	31.4%

1.6. PROPORTION OF MINING LICENSES, /by minerals, 2018.IX.05/



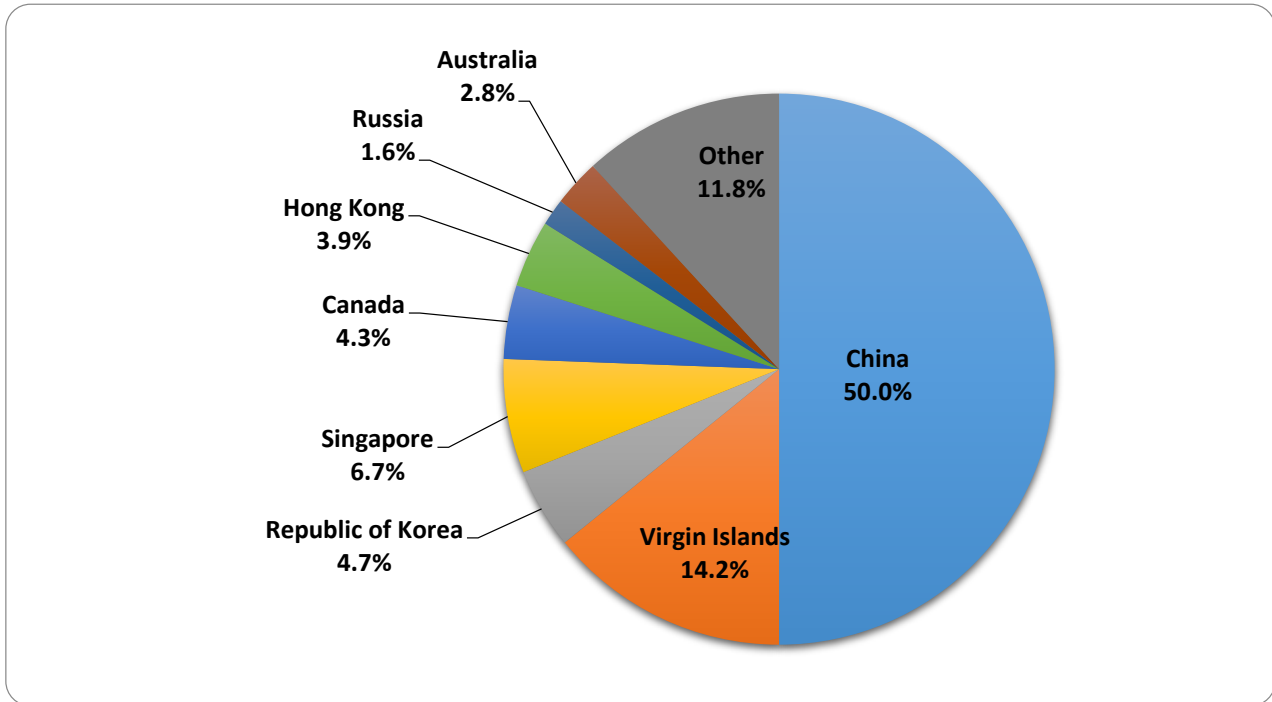
1.7. LICENSE HOLDERS, /by legal group, 2018.IX.05/



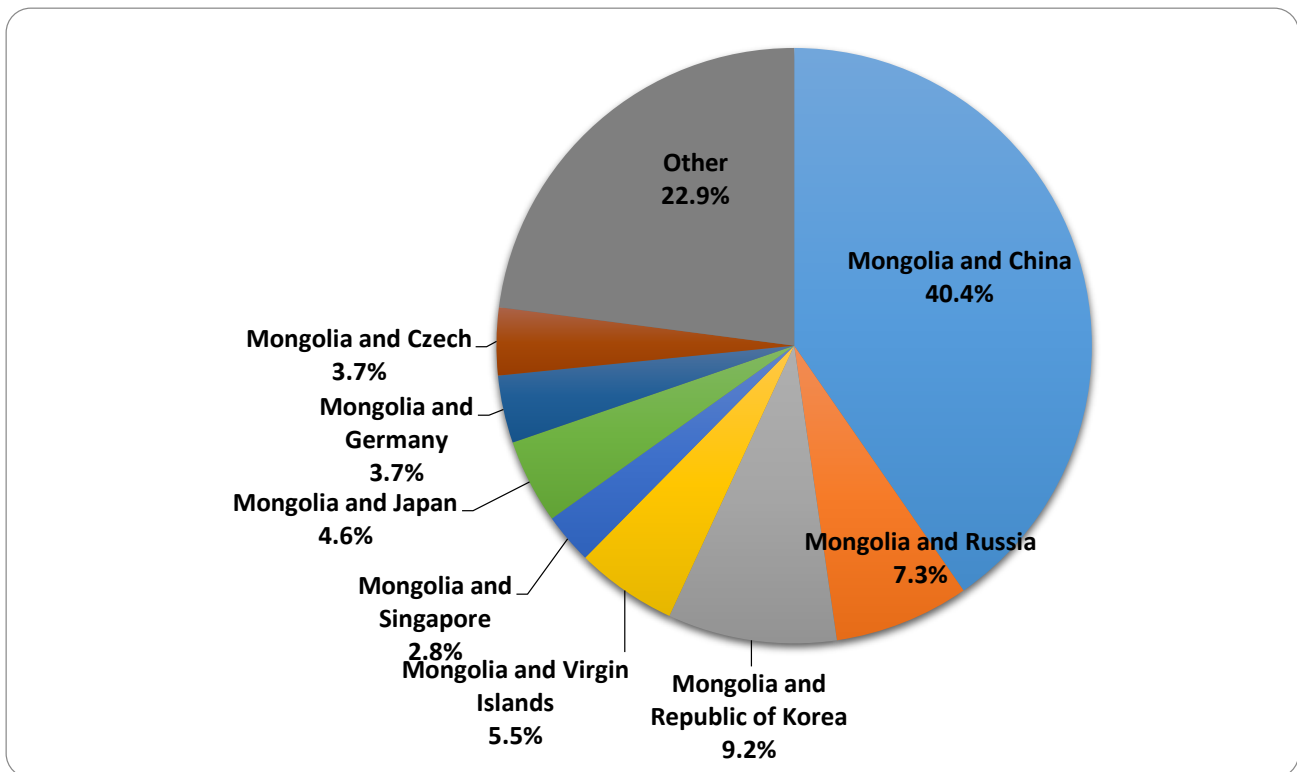
Source: Cadastre Division, MRPAM



1.8. COMPOSITION OF FOREIGN INVESTED LICENSE HOLDERS, /by countries, 2018.IX.05/



1.9. COMPOSITION OF THE JOINT VENTURE LICENSE HOLDERS, /by countries, 2018.IX.05/



Source: Cadastre Division, MRPAM

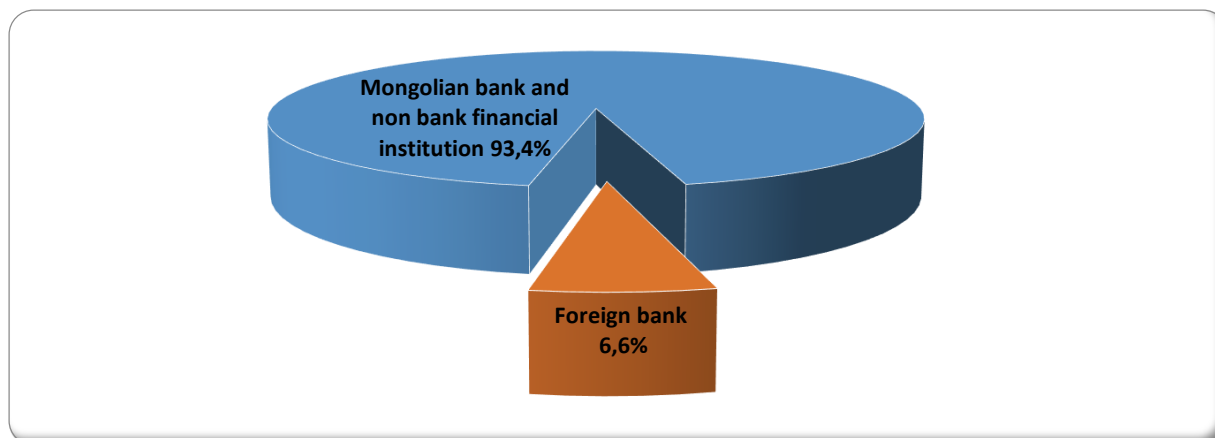




### 1.10. ORIGIN OF LICENSE HOLDERS, 2018.IX.05

	Holder		License		Area size	
	Count	Percent	Count	Percent	Hectare	Percent
<b>TOTAL</b>	<b>1922</b>	<b>100%</b>	<b>3200</b>	<b>100%</b>	<b>9,463,221.3</b>	<b>100%</b>
Mongolia	1566	81.48%	2527	78.97%	7,065,614.5	74.66%
China	175	9.11%	236	7.38%	490,147.5	5.18%
Virgin Islands	42	2.19%	105	3.28%	354,928.7	3.75%
South Korea	22	1.14%	36	1.13%	100,446.3	1.06%
Singapore	21	1.09%	76	2.38%	458,794.3	4.85%
Russia	14	0.73%	16	0.50%	7,940.9	0.08%
Canada	13	0.68%	28	0.88%	196,108.2	2.07%
Hong Kong	13	0.68%	29	0.91%	214,280.2	2.26%
Australia	7	0.36%	8	0.25%	38,042.2	0.40%
Japan	7	0.36%	60	1.88%	207,728.1	2.20%
Germany	6	0.31%	7	0.22%	13,864.0	0.15%
United States of America	5	0.26%	7	0.22%	7,807.4	0.08%
Czech Republic	4	0.21%	7	0.22%	52,526.3	0.56%
Great Britain	4	0.21%	7	0.22%	19,669.2	0.21%
Luxemburg	4	0.21%	8	0.25%	20,095.8	0.21%
Holland	4	0.21%	20	0.63%	131,587.6	1.39%
Ukraine	2	0.10%	2	0.06%	291.8	0.00%
Kazakhstan	2	0.10%	2	0.06%	2,340.6	0.02%
Bermud	2	0.10%	3	0.09%	7,314.3	0.08%
Bulgaria	2	0.10%	4	0.13%	4,784.6	0.05%
Poland	1	0.05%	1	0.03%	1,561.3	0.02%
Seychelles	1	0.05%	1	0.03%	36,391.0	0.38%
Hungary	1	0.05%	1	0.03%	87.4	0.00%
New Zealand	1	0.05%	2	0.06%	151.7	0.00%
Malaysia	1	0.05%	2	0.06%	2,416.5	0.03%
Macao	1	0.05%	2	0.06%	18,260.9	0.19%
Barbados	1	0.05%	3	0.09%	10,040.0	0.11%

### 1.11. ORIGIN OF LICENSE PLEDGE, 2018.IX.05



Source: Cadastre Division, MRPAM



### 1.12. PLEDGING LICENSES BY BANK, NON-BANK FINANCIAL INSTITUTE, 2018.IX.05

	License		Area	
	Count	Percent	Hectare	Percent
<b>TOTAL</b>	<b>239</b>	<b>100.0%</b>	<b>381,747.6</b>	<b>100.0%</b>
Trade and Development Bank	35	14.6%	45,391.8	11.89%
Golomt Bank	27	11.3%	23,981.3	6.28%
Development Bank of Mongolia	21	8.8%	17,594.6	4.61%
Capital Bank	17	7.1%	4,645.9	1.22%
Ulaanbaatar City Bank	17	7.1%	11,240.0	2.94%
HAAN Bank	16	6.7%	2,804.7	0.73%
XAC Bank	13	5.4%	1,335.1	0.35%
Golomt, Saving, Zoos, Anod Banks	11	4.6%	80,891.6	21.19%
Anod Bank	9	3.8%	8,696.8	2.28%
European Bank for Reconstruction and Development	7	2.9%	2,602.2	0.68%
GSB capital BBSB	6	2.5%	10,609.2	2.78%
Zoos Bank	6	2.5%	104,121.3	27.27%
Chinggis Khan Bank	6	2.5%	2,467.7	0.65%
Bank of China	4	1.7%	996.3	0.26%
National Investment Bank	4	1.7%	1,247.2	0.33%
State Bank	3	1.3%	303.9	0.08%
Triple flag mining finance Bermuda Ltd	3	1.3%	13,041.9	3.42%
Transport Development bank	3	1.3%	249.1	0.07%
Saving bank	3	1.3%	10,911.8	2.86%
Khutultnomgon	3	1.3%	294.2	0.08%
Export-Import Bank of China	3	1.3%	1,092.0	0.29%
Capitronbank	2	0.8%	135.5	0.04%
First lithium Corporation	2	0.8%	17,131.1	4.49%
Erelbank	2	0.8%	150.3	0.04%
Business-Invest Development	1	0.4%	1,791.4	0.47%
Worldgold	1	0.4%	583.4	0.15%
Gazprombank	1	0.4%	440.9	0.12%
Delitasan	1	0.4%	19.9	0.01%
Durgunchinsai	1	0.4%	112.6	0.03%
Jet Finance	1	0.4%	56.8	0.01%
Kredit Express	1	0.4%	235.6	0.06%
Mongolian Post bank	1	0.4%	86.6	0.02%
Munkh Orshih Capital	1	0.4%	178.1	0.05%
International Investment Bank	1	0.4%	28.3	0.01%
Solomon Investment	1	0.4%	5,324.7	1.39%
Standart Chartered Bank	1	0.4%	8,489.9	2.22%
Transcapital	1	0.4%	270.6	0.07%
Turquoise Finance	1	0.4%	673.4	0.18%
Xamtyн no'xorloliin san	1	0.4%	114.7	0.03%
Export-Import Bank of China, China Development Bank	1	0.4%	1,405.4	0.37%

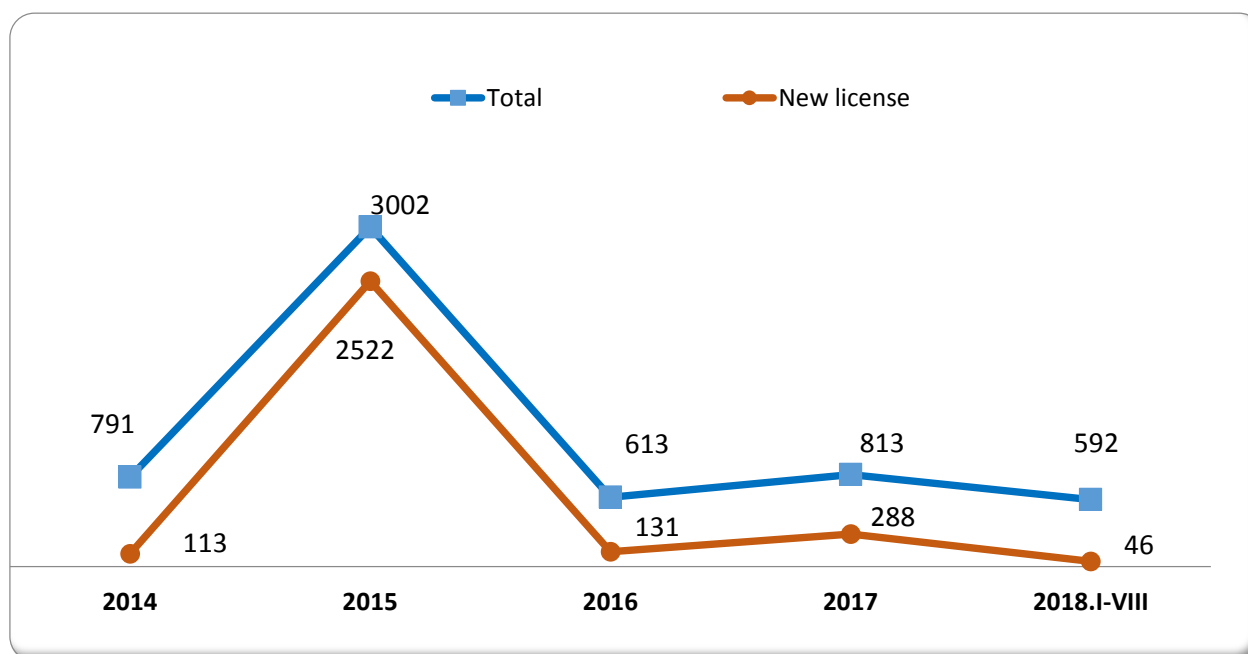
Source: Cadastre Division, MRPAM



1.13. RECEIVED APPLICATION, /by application type, 2014-2018/

Application type	2014	2015	2016	2017	2018.I-VIII
<b>TOTAL</b>	<b>791</b>	<b>3002</b>	<b>613</b>	<b>813</b>	<b>592</b>
<b>New license</b>	<b>113</b>	<b>2522</b>	<b>131</b>	<b>288</b>	<b>46</b>
Mining	98	87	103	65	46
Exploration	0	2335	0	0	0
Tender	15	100	28	223	0
<b>Extension of exploration license</b>	<b>453</b>	<b>249</b>	<b>173</b>	<b>231</b>	<b>333</b>
<b>Transfer</b>	<b>53</b>	<b>92</b>	<b>139</b>	<b>153</b>	<b>119</b>
Mining	36	52	49	78	19
Exploration	17	40	90	75	100
<b>Pledge</b>	<b>44</b>	<b>22</b>	<b>33</b>	<b>37</b>	<b>36</b>
Mining	40	22	30	32	36
Exploration	4	0	3	5	0
<b>Surrender</b>	<b>128</b>	<b>117</b>	<b>137</b>	<b>104</b>	<b>58</b>
Mining	12	24	26	14	9
Exploration	116	93	111	90	49

1.14. RECEIVED APPLICATION, 2014-2018



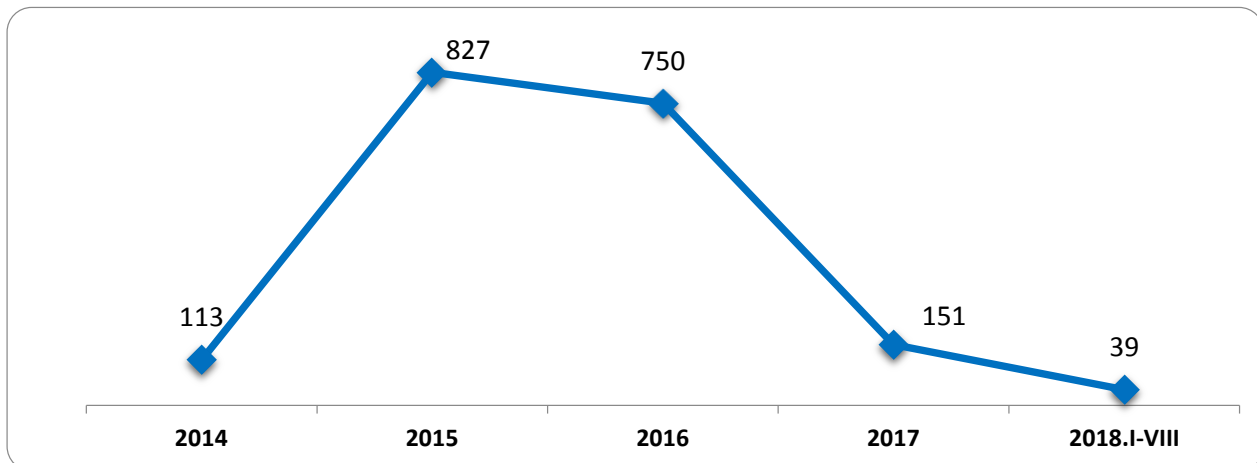
Source: Cadastre Division, MRPAM



1.15. CHANGES IN LICENSE REGISTRATION, /by license type, 2014-2018/

Type of registration	2014	2015	2016	2017	2018.I-VIII
<b>New license</b>	<b>113</b>	<b>827</b>	<b>750</b>	<b>151</b>	<b>39</b>
Mining	97	91	93	77	34
Exploration	2	697	629	41	5
Tender	14	39	28	33	0
<b>Surrendered</b>	<b>119</b>	<b>150</b>	<b>166</b>	<b>97</b>	<b>64</b>
Mining	13	25	25	13	9
Exploration	106	125	141	84	55
<b>Canceled</b>	<b>123</b>	<b>173</b>	<b>241</b>	<b>237</b>	<b>121</b>
Mining	14	10	37	35	17
Exploration	109	163	204	202	104
<b>Expired</b>	<b>289</b>	<b>179</b>	<b>124</b>	<b>176</b>	<b>116</b>
<b>Transferred</b>	<b>51</b>	<b>88</b>	<b>146</b>	<b>136</b>	<b>136</b>
Mining	38	46	50	62	31
Exploration	13	42	96	74	105
<b>Extended</b>	<b>444</b>	<b>336</b>	<b>167</b>	<b>162</b>	<b>310</b>
<b>Pledged</b>	<b>40</b>	<b>22</b>	<b>29</b>	<b>39</b>	<b>36</b>
Mining	34	22	27	34	36
Exploration	6	0	2	5	0
<b>Terminated pledges</b>	<b>29</b>	<b>24</b>	<b>16</b>	<b>39</b>	<b>16</b>
Mining	24	19	12	38	15
Exploration	5	5	4	1	1
<b>Re-issue of license documents</b>	<b>11</b>	<b>19</b>	<b>35</b>	<b>26</b>	<b>34</b>
Mining	7	10	15	19	10
Exploration	4	9	20	7	24

1.16. COUNT OF ISSUED LICENSE, 2014-2018



Source: Cadastre Division, MRPAM



### 1.17. LIST OF LICENSE HOLDERS WITH 10 AND ABOVE LICENSES, 2018.IX.05

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Chingis world mining	50	156,734.6	joint venture with foreign investment	Mongolia, Japan
2	Mongolrosvetmet	30	16,136.4	mongolian legal entity	Mongolia
3	Golden east mongolia	29	154,776.3	Entity with 100% foreign investment	Virgin Islands
4	Mongolyn alt Mak	24	62,365.3	mongolian legal entity	Mongolia
5	Gacuurt	17	9,557.3	mongolian legal entity	Mongolia
6	Caina investment mongolia	15	207,645.0	Entity with 100% foreign investment	Singapore
7	Olon-Ovoot gold	14	90,111.6	mongolian legal entity	Mongolia
8	Khunnu govi altai	12	2,206.7	mongolian legal entity	Mongolia
9	Erel	11	10,996.6	mongolian legal entity	Mongolia
10	Gobi Coal and Energy	11	6,988.5	mongolian legal entity	Mongolia
11	Richfluorite	11	6,387.6	mongolian legal entity	Mongolia
12	Cogegobi	10	223,082.7	mongolian legal entity	Mongolia
13	MoEnCo	10	12,807.4	Entity with 100% foreign investment	Singapore
14	MAK cement	10	3,854.8	mongolian legal entity	Mongolia

### 1.18. LIST OF LICENSE HOLDERS WITH 100'000 AND ABOVE LICENSED AREA SIZE, 2018.IX.05

No	Name of entity	Count of license	Area size /ha/	Company type	Nationality
1	Cogegobi	10	223,082.7	mongolian legal entity	Mongolia
2	Caina investment mongolia	15	207,645.0	100% foreign invested entity	Singapore
3	Mongol uranium resource	2	191,728.6	mongolian legal entity	Mongolia
4	Chingis world mining	50	156,734.6	joint venture with foreign investment	Mongolia, Japan
5	Golden east mongolia	29	154,776.3	100% foreign invested entity	Virgin Islands
6	PeabodyWinsway resources	6	121,945.0	100% foreign invested entity	Holland
7	Monlaa	4	108,679.0	mongolian legal entity	Mongolia
8	FVSP	4	104,232.4	100% foreign invested entity	Hong kong

Source: Cadastre Division, MRPAM



## II. GEOLOGICAL STATISTICS

### 2.1. GEOLOGICAL SURVEY CONDUCTED AT EXPENSE OF THE STATE BUDGET, /by type of work, mln MNT, 2015-2018

Type of work	2015		2016		2017		2018.I-VIII	
	mln.tug	performance	mln.tug	performance	mln.tug	performance	mln.tug	performance
<b>TOTAL</b>	<b>9,280.6</b>	<b>81.8%</b>	<b>9,341.1</b>	<b>100%</b>	<b>12,255.1</b>	<b>91.8%</b>	<b>8,423.5</b>	<b>63.2%</b>
1:200000 scale geological map	330.5	62.9%	642.7	100%	482.3	100.0%	341.5	83.6%
1:50000 scale geological map, general survey	5,556.7	78.4%	4,975.8	100%	5,355.9	100.0%	2,781.2	59.2%
Thematic work	3,167.7	92.0%	3,476.1	100%	6,274.6	80.8%	5,300.8	64.4%
Collaborative projects	225.6	79.3%	246.6	100%	142.4	100.0%	-	0.0%

### 2.2. GEOLOGICAL AND EXPLORATION SURVEY CONDUCTED AT EXPENSES OF THE EXPLORATION LICENSE, /by type work, mln.MNT, 2013-2017/

	2013	2014	2015	2016	2017*
<b>TOTAL</b>	<b>150,095.8</b>	<b>160,421.9</b>	<b>106,462.1</b>	<b>190,260</b>	<b>132,560.6</b>
Preparation	3,842.3	3,146.2	2,998.7	8,924.2	3,398.6
Mapping	2,328.8	3,006.8	2,314.2	5,815.3	1,831.2
Geological survey	2,530.5	2,535.4	2,789.2	6,383.5	2,261.2
Sampling	2,659.3	2,259.7	2,047.1	32,645.9	76,793.7
Geophysical work	13,427.2	12,413.9	10,716.5	9,826.5	14,210.0
Mining	2,530.8	4,887.8	2,784.2	1,697.1	-
Drilling	82,575.7	86,233.0	49,794.5	68,917.0	5,783.0
Geochemical work	2,133.4	746.0	779.1	-	-
Laboratory	10,889.8	10,490.8	6,710.6	8,833.1	11,213.7
Topogeodetic work	1,880.4	1,357.9	1,638.3	2,248.6	4,457.7
Hydrogeological work	751.6	2,781.3	2,549.9	1,174.1	759.8
Transport	5,182.5	3,780.9	3,112.8	17,331.0	341.4
Indoor, laboratory investigation	11,233.7	21,563.1	11,055.0	11,685.7	1,064.5
Environment reclamation	1,382.0	2,015.8	1,749.6	1,346.9	348.2
Field sampling	416.6	1,484.7	1,246.9	2,101.3	898.5
Geomorphology	25.3	0.0	20.6	-	-
Archeology	528.3	123.0	96.8	231.2	165.3
Paleontology	448.9	88.3	43.3	-	-
Other	5,328.7	1,506.9	4,791.0	11,098.5	1,396.1

\* Preliminary result

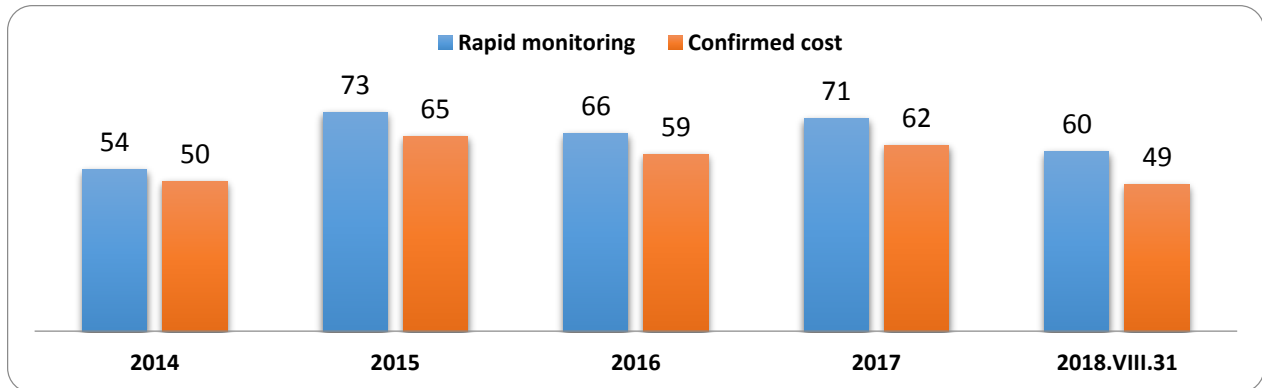
Source: Geology and Exploration Division, MRPAM



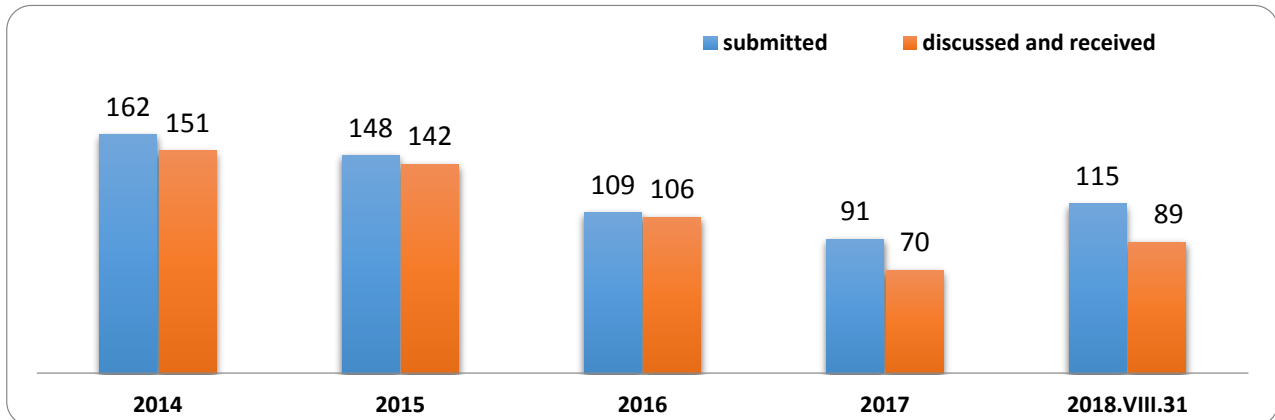
**2.3. ANNUAL EXPLORATION PLAN, REPORT SUBMITTED AND NUMBER OF OF LICENSES CERTIFIED FOR EXPLORATION EXPENDITURE, 2014-2017**

	2014	2015	2016	2017	2018.VIII.31
<b>Plan</b>					
Plan to be submitted	1667	1345	2051	1748	1695
Submitted	1133	1307	1750	1724	1644
Attendance %	68.0%	97.2%	85.3%	98.6%	97.0%
<b>Report</b>					
Report to be submitted	1345	1802	1974	1745	-
Submitted	958	1260	1666	1538	-
Attendance %	71%	69.9%	83.0%	88.1%	-
Minimum review of exploration expenditure report %	100%	97.0%	99.7%	94.9%	-
Cost of financial statements	100%	91.7%	94.9%	87.0%	-

**2.4. SPECIAL RAPID TRACKING FOR GEOLOGICAL EXPLORATION PERMITS AND NUMBERS, 2014-2018**



**2.5. RECEIVED EXPLORATION REPORT, 2014-2018**



Source: Geology and Exploration Division, MRPAM

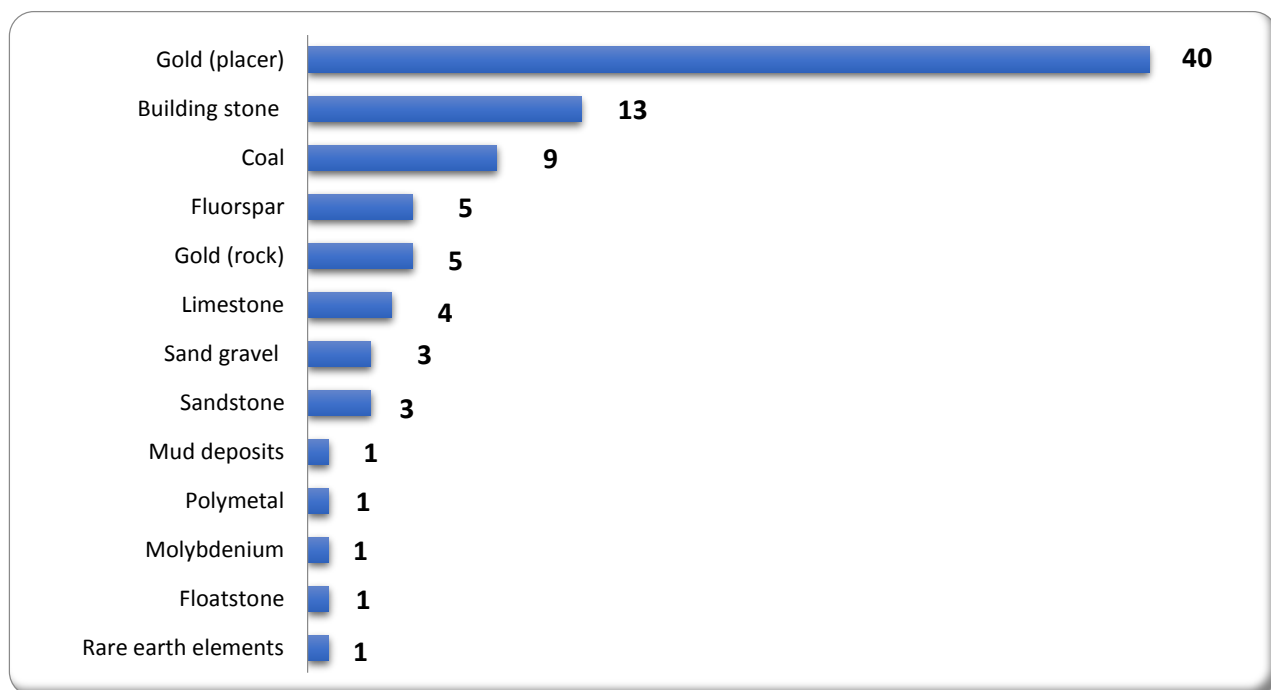


## 2.6. MINERAL RESOURCE RESERVES REGISTERED IN THE STATE'S INTEGRATED REGISTRATION, 2016-2018

Deposit types	Unit	2016		2017		2018.VIII.31	
		ore	metal	ore	metal	ore	metal
Gold (rock)	ths.t/kg	62,864.2	33,819.7	8,412.8	3,211.9	6,837.9	18,697.9
Gold (placer)	kg	6,581.0	5,955.2	3,374.7	3,015.0	5,040.8	4,521.6
Iron	ths.t	54,463.2	18,030.0	45,655.7	11,870.9	7,739.8	2,673.9
Polymetal	ths.t	15,091.4	-	-	-	2,837.3	-
Cu	t	-	57,547.3	-	-	-	-
Zn	t	-	41,043.0	-	77.7	-	-
eqZn	t	-	-	-	-	-	101,202.6
Pb	t	-	-	-	83.4	-	-
eqPb	t	-	-	-	1,636.3	-	-
Molybdenium	ths.t	-	-	-	-	35,271.0	10,352.4
Tungsten	ths.t/t	-	-	502.6	4.4	-	-
Rare earth elements	ths.t/t	-	-	0.12	0.04	274.6	0.02
Copper	ths.t/t	2042008.3*	7789023.5*	29,183.0	134.9	55,871.2	149.1
Tin	ths.t	-	89.6	-	0.7	-	-
Fluorspar	ths.t	801.1	335.0	1,177.6	664.6	1,287.9	365.4
Uranium	t	4.9	-	-	-	-	-
Coal	mln.t	1,295.4	-	3,579.7	-	9,662.7	-
Pear shaft	mln.t	-	-	-	-	-	-
Limestone	mln.t	155.4	-	185.8	-	52.6	-

Note: \* Updated estimates /2016/

## 2.7. DEPOSIT DELIVERED TO THE STATE REGISTRATION OF MINERAL RESERVES, 2018.I-VIII



Source: Geology and Exploration Division, MRPAM



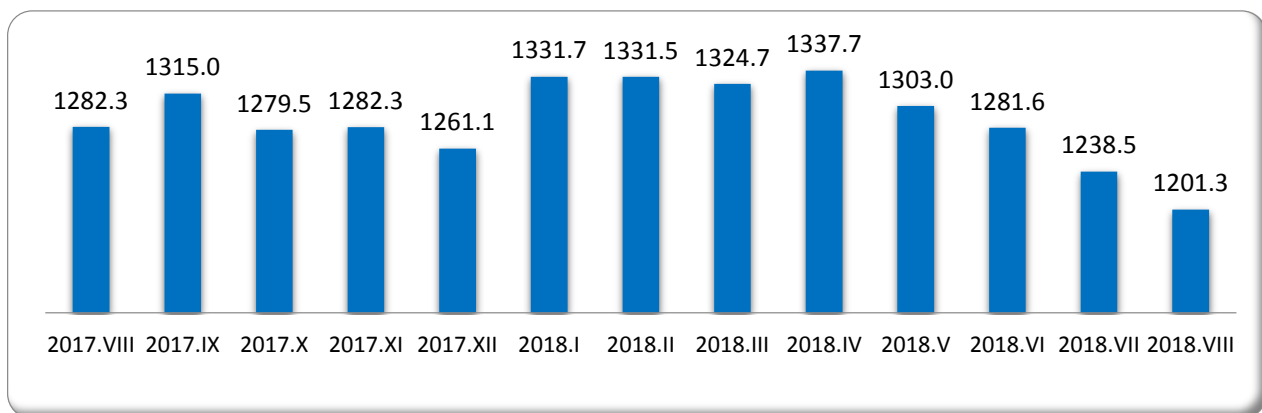


### III. MINING STATISTICS

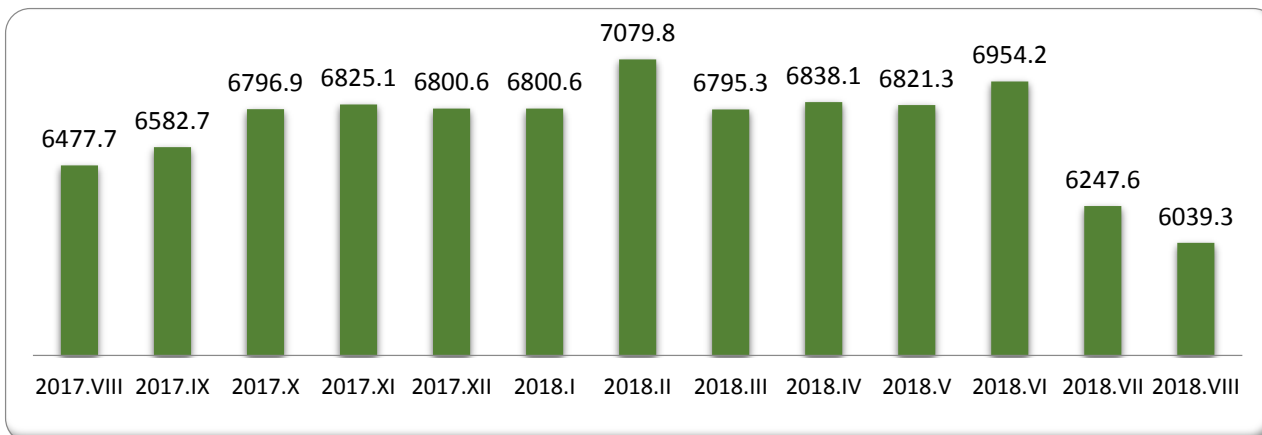
#### 3.1. THE AVERAGE OF COMMODITY PRICES IN THE WORLD MARKET, 2014-2018

Mineral commodities	Unit	2014	2015	2016	2017	2018.VIII
Gold	\$/ounce	1271.2	1160.1	1151.4	1257.1	1201.3
Silver	\$/ounce	19.1	15.7	16.4	17.1	15.0
Copper	\$/tons	6859.5	5501.0	5665.8	6162.4	6039.3
Zinc	\$/tons	2161.0	1928.8	2671.3	2893.6	2510.1
Blue lead	\$/tons	2095.4	1786.1	2230.3	2317.1	2064.3
Tin	\$/tons	21909.9	16079.3	21274.1	20090.1	19267.5
Molybdenum	\$/tons	25203.0	14618.2	15000.0	15665.1	25000.0
Tungsten	\$/tons	50971.0	36082.4	32000.0	36011.1	42140.0
Iron ore	\$/tons	93.1	49.8	62.0	54.3	35.2
Fluorite concentrate AG-97	\$/tons	305.7	283.3	260.0	345.4	469.0
Fluorite ore MG-85	\$/tons	240.0	244.3	250.0	293.9	360.0

#### 3.2. THE AVERAGE PRICE OF GOLD, /by US\$/ounce, 2017.VIII-2018.VIII/



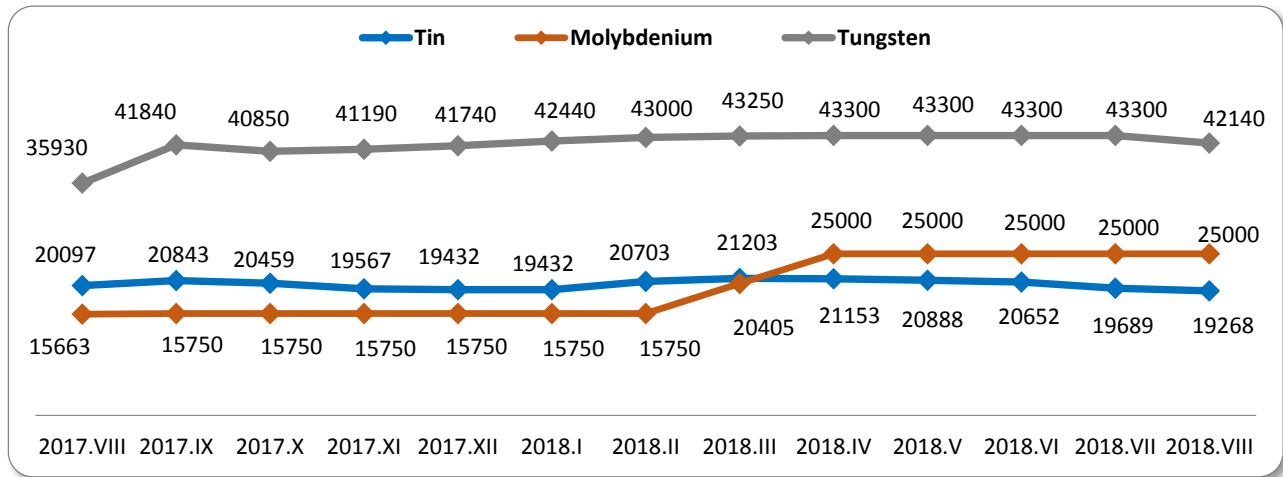
#### 3.3. THE AVERAGE PRICE OF COPPER, /by US\$/tons, 2017.VIII-2018.VIII/



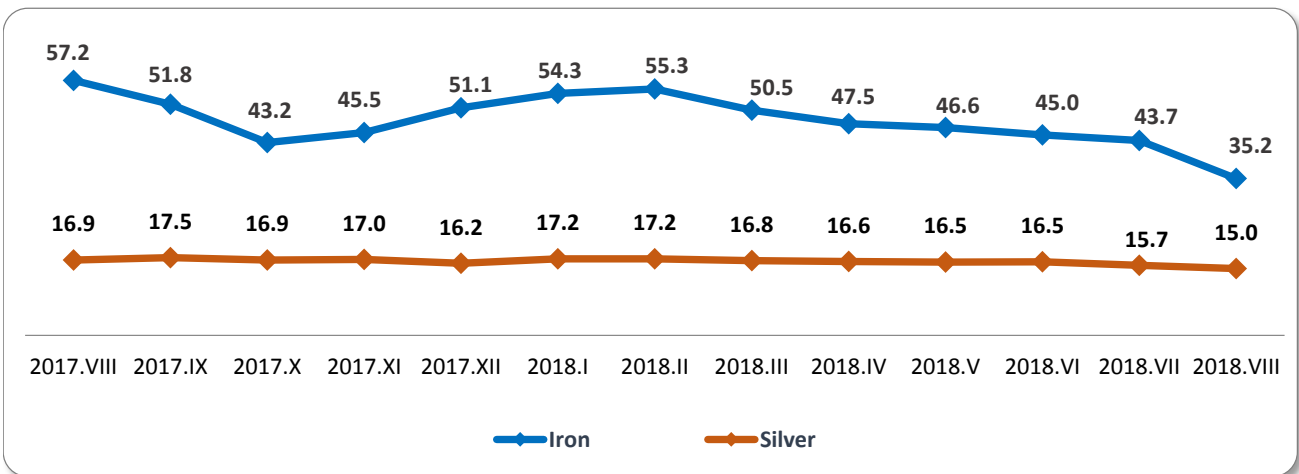
Source: [www.kitco.com](http://www.kitco.com), [www.westmetall.com](http://www.westmetall.com), [www.lme.com](http://www.lme.com), [www.asianmetal.com](http://www.asianmetal.com), [www.lndmin.com](http://www.lndmin.com), [www.umetal.com](http://www.umetal.com) [www.sxcoal.com](http://www.sxcoal.com)



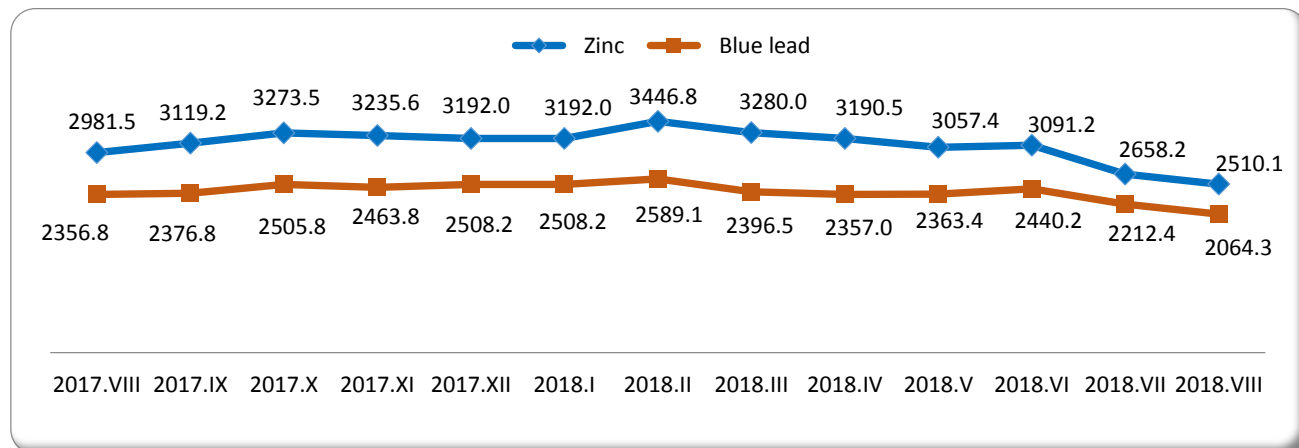
3.4. THE AVERAGE PRICE OF TIN, MOLYBDENUM AND TUNGSTEN IN THE WORLD MARKET, /by US\$/tons, 2017.VIII-2018.VIII/



3.5. THE AVERAGE PRICE OF IRON AND SILVER IN THE WORLD MARKET, /by US\$/tons, US\$/ounce, 2017.VIII-2018.VIII/



3.6. THE AVERAGE PRICE OF ZINC AND BLUE LEAD IN THE WORLD MARKET, /by US\$/tons, 2017.VIII-2018.VIII/



Source: [www.kitco.com](http://www.kitco.com), [www.westmetall.com](http://www.westmetall.com), [www.lme.com](http://www.lme.com), [www.asianmetal.com](http://www.asianmetal.com), [www.lndmin.com](http://www.lndmin.com), [www.umetal.com](http://www.umetal.com) [www.sxcoal.com](http://www.sxcoal.com)



### 3.7. REHABILITATION WORK BY MINING LICENSE HOLDERS, 2018.V.09

	Unit	Total	Of which:				
			2013	2014	2015	2016	2017
Area covered by mining	ha	31325.0	1037.8	1560.7	871.0	2511.0	1745.0
Rehabilitated area	ha	21442.0	806.9	959.6	750.0	999.5	376.8
Expenses for rehabilitation	mln.MNT	96794.0	7381.7	9211.6	4019.0	2313.0	1602.4
Area covered by technical rehabilitation	ha	12749.0	532.2	523.1	589.0	654.0	420.3
Area covered by biological rehabilitation	ha	8502.0	369.9	322.0	320.0	718.0	360.1
Environmental expenses	mln.MNT	61907.0	3876.3	11683.1	8597.0	5455.0	0.0
Abusive protection rehabilitation	ha	281.0	-	-	-	257.0	24.1
Abusive protection rehabilitation	mln.MNT	765.0	-	-	-	739.1	26.0
Remodeling the mine and rehabilitation of the village	ha	53.0	-	-	-	29.0	24.1
Remodeling the mine and rehabilitation of the village	mln.MNT	240.0	-	-	-	175.0	65.4

Source: Mining Industry and Technology Division, MRPAM

### 3.8. LIST OF COMPANIES REGISTERED WITH INTERNATIONAL STOCK EXCHANGE COMPANIES OPERATING IN MONGOLIA'S MINING SECTOR, 2017-2018

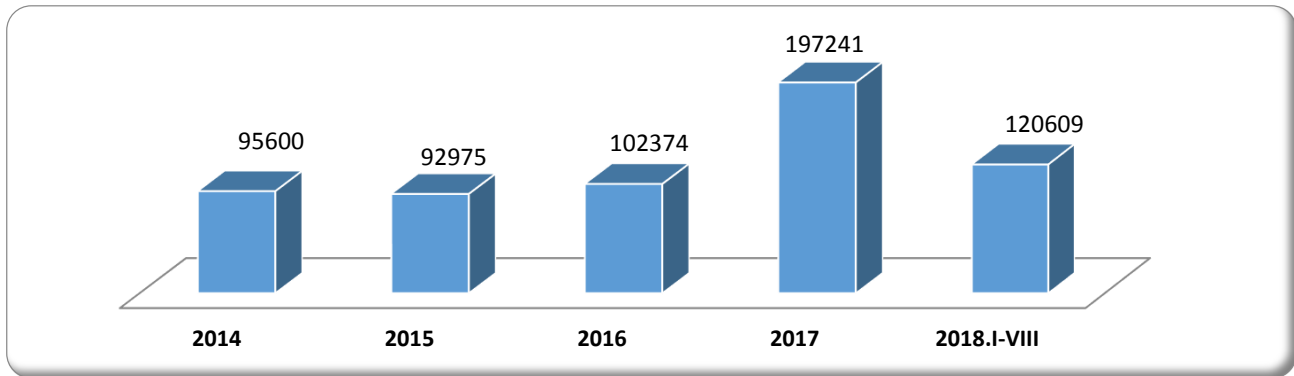
Company name	Stock exchange	Symbol	Currency	Price				Market value /2018.IX.10/
				2017	2018	2018	2018	
					I-III	IV-VI	VIII	
Turquoise Hill Resources Ltd.	NYQ	TRQ	USD	3.076	3.158	2.918	2.446	5.61B
Peabody Energy Corporation	NYQ	BTU	USD	28.498	39.79	40.981	42.327	5.66B
Rio Tinto plc	LSE	RIO.L	GBP	3,411.9	3,883.2	4,099.1	3,792.0	70.30B
Mongolia Energy Corporation Limited	HKG	0276.HK	HKD	0.246	0.194	0.166	0.132	365.26M
Mongolian Mining Corporation	HKG	0975.HK	HKD	0.237	0.226	0.152	0.148	1.26B
South Gobi Resources Ltd.	HKG	1878.HK	HKD	1.758	1.242	1.014	0.9	251.16
Centerra Gold Inc.	TOR	CG.TO	CAD	7.413	6.592	7.364	5.715	2.13B
Erdene Resource Development	TOR	ERD.TO	CAD	0.852	0.475	0.379	0.376	62.08M
Entrée Resources Ltd.	TOR	ETG.TO	CAD	0.604	0.603	0.495	0.51	99.35M
Prophecy Development Corp.	TOR	PCY.TO	CAD	4.007	3.299	2.754	0.596	17.19M
Steppe Gold Ltd	TOR	STGO.TO	CAD	-	-	1.469	1.248	51.93M
Kincora Copper Limited	VAN	KCC.V	CAD	0.389	0.208	0.137	0.176	9.35M
Altan Rio Minerals Limited	VAN	AMO.V	CAD	0.02	0.018	0.013	0.02	1.34M
Xanadu Mines Limited	ASX	XAM.AX	AUD	0.224	0.251	0.193	0.141	110.17
Aspire Mining Limited	ASX	AKM.AX	AUD	0.018	0.011	0.016	0.023	53.11M
Haranga Resources Limited	ASX	HAR.AX	AUD	0.003	0.003	-	-	1.45M
Tian Poh Resources Limited	ASX	TPO.AX	AUD	0.047	0.081	0.09	-	34.79M
Banpu Public Company Limited	SET	BANPU.BK	THB	18.109	21.545	20.425	20.373	102.21B
Petro Matad Limited	LSE	MATD.L	GBP	15.085	9.928	11.664	8.517	37.88M
Wolf Petroleum Limited	ASX	WOF.AX	AUD	0.026	0.016	0.01	0.011	6.43M

Source: [www.nyse.com](http://www.nyse.com), [www.londonstockexchange.com](http://www.londonstockexchange.com), [www.hkex.com.hk](http://www.hkex.com.hk), [www.tmx.com](http://www.tmx.com), [www.tsx.com](http://www.tsx.com), [www.asx.com.au](http://www.asx.com.au), [www.set.or.th](http://www.set.or.th)

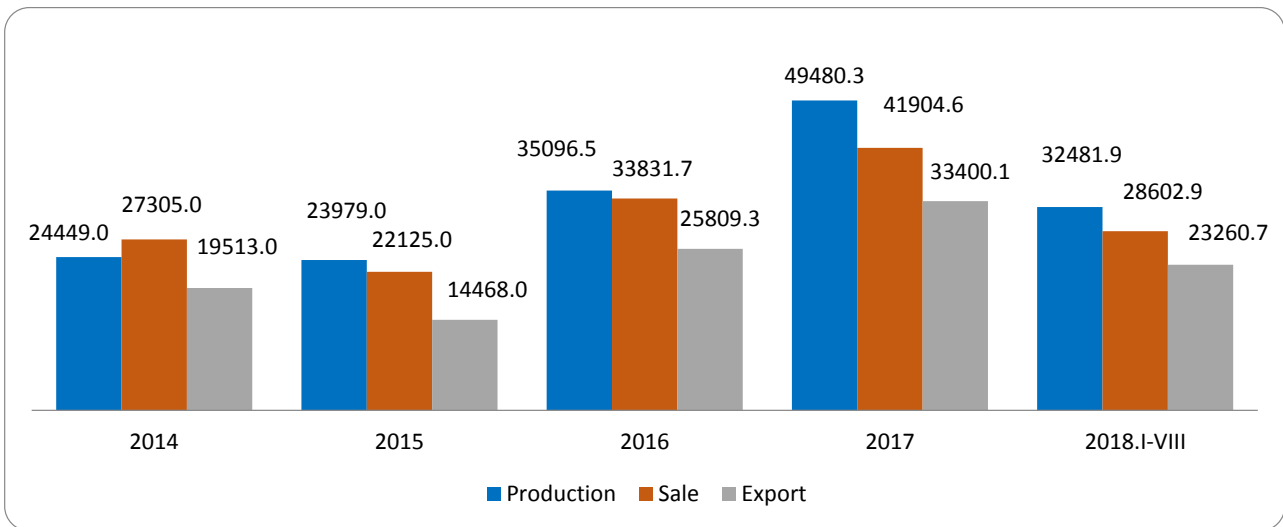


## IV. COAL STATISTICS

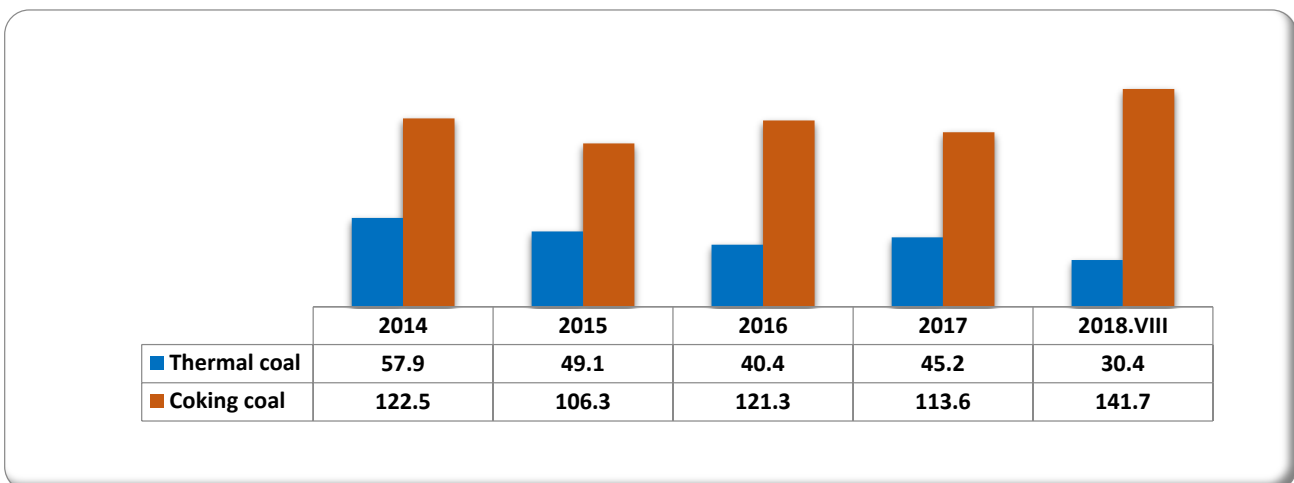
### 4.1. STRIPING, /by ths.m3 2014-2018/



### 4.2. COAL PRODUCTION, SALE AND EXPORT, /by ths.tons, 2014-2018/



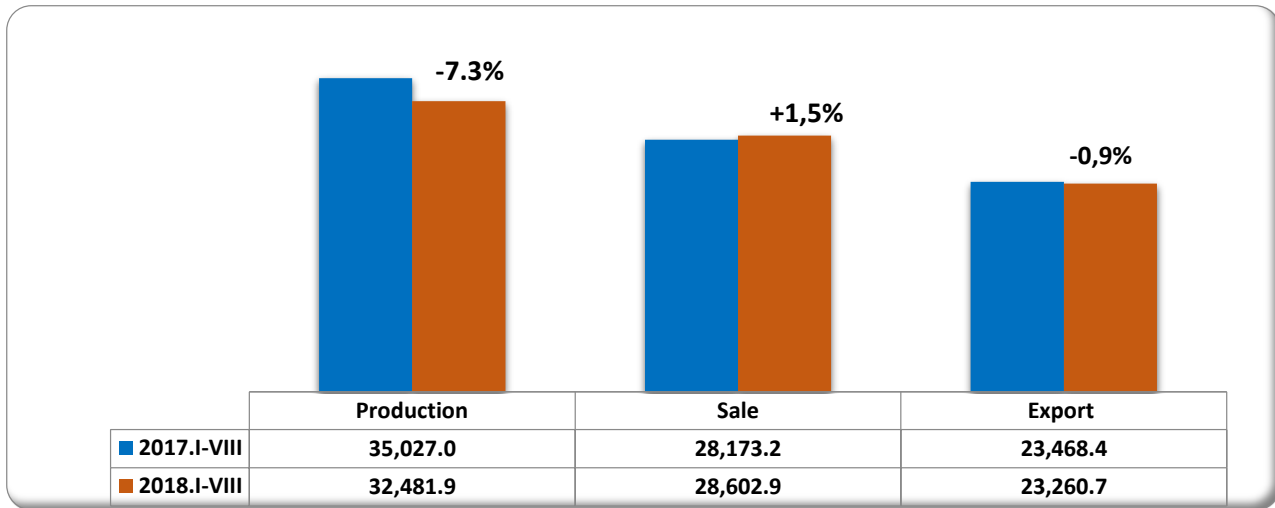
### 4.3. COAL ON THE WORLD MARKET AVERAGE PRICE, /by US\$/tons, 2014-2018/



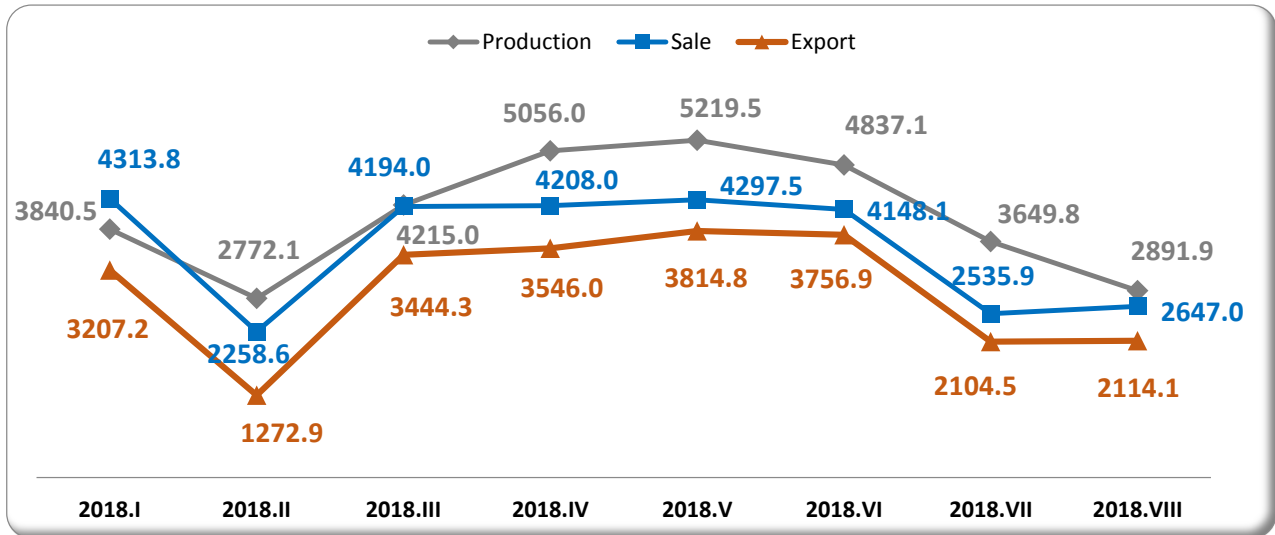
Source: Coal Research Division, MRPAM



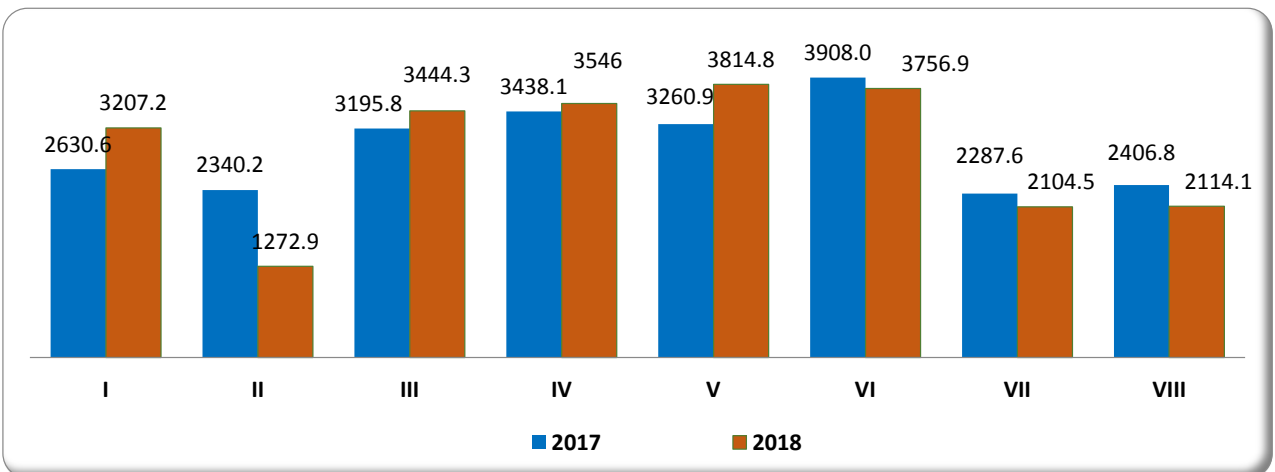
4.4. COAL PRODUCTION, SALE AND EXPORT, /by ths.tons, 2017- 2018/



4.5. COAL PRODUCTION, SALE AND EXPORT, /by month , ths.tons, 2018/



4.5. COAL EXPORT, /by month, ths.tons, 2017-2018/



Source: Coal Research Division, MRPAM



4.7. MINING AND PETROLEUM EXAMINATION AND TESTING CENTRAL LABORATORY, 2018.VIII

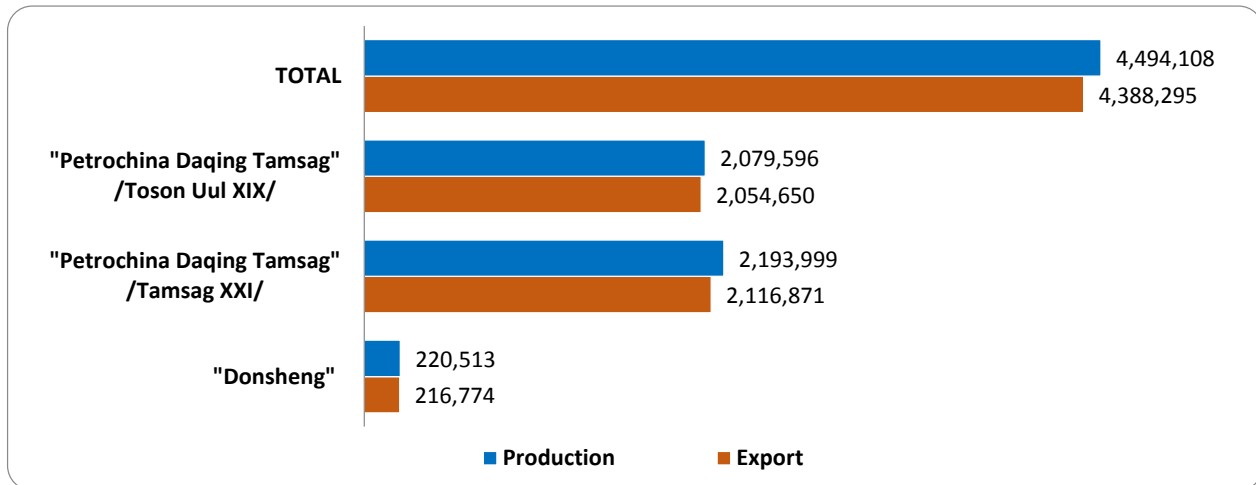
Type of coal	Name	Classification	Border name	Deposit name	Quality Indicators						
					TM	Adb	Vdaf	St,db	Qnet,ar	FSI	GI
					Weight, %				kcal/kg	Index	
Raw coal	Antracite	Antacite	Khang	Mandakh nuur	2.8	6.3	6.5	0.84	7594	-	-
	Coal	Coking	Khang	Ail Bayan	5.3	19.7	26.0	1.40	6017	7.0	73.5
			Gashuun sukhait	Baruun, zuun tsankhi	3.3	13.7	27.3	2.07	6863	8.5	82.5
				Tavan tolgoi 4rd orifice	3.3	13.6	28.1	0.53	6920	7.0	84.2
			Weak coking	Gashuun sukhait	Tavan tolgoi 8th orifice	4.9	14.7	29.7	0.98	6653	8.0
		Shivee huren		Khuren shand	3.8	10.2	39.0	1.00	6697	5.5	60.2
				Baruun noyon uul	-	-	-	-	-	-	-
				Chinkhua Mak	-	-	-	-	-	-	-
		SGS		3	12.0	39.1	0.98	6428	4.0	52.5	
		Zamiin uud		Mogoin gol	4.8	13.7	33.5	1.17	6873	8.5	97.5
		Bor khul		9.7	27.5	46.4	0.70	4820	-	-	
		Non-coking coal	Khang	Ail Bayan	7.2	53.3	27.1	0.36	3322	0.0	0.0
			Gashuun sukhait	ITT Energy	6.1	29.6	26.9	0.41	4530	0.0	0.0
				Tavan tolgoi Energy	-	-	-	-	-	-	-
			Shivee huren	Khuren shand	2.2	20.5	36.2	0.99	6534	0.0	0.0
				Nariin sukhait mak	-	-	-	-	-	-	-
			Khang	Ail Bayan	-	-	-	-	-	-	-
	Other	Zamiin uud	Dalan Chkha	10.1	31.9	25.2	0.93	4855	-	-	
			Dalan Shtain	3.9	28.9	26.8	1.95	5683	-	-	
			Dalan FShR	-	-	-	-	-	-	-	
	Brown coal	Bichigt	Hulman nuur	5.8	33.0	36.7	1.49	4610	-	-	
			Khuut	-	-	-	-	-	-	-	
	Washed coal	Coal	Coking	Gashuun sukhait	Ukhaa khudag	-	-	-	-	-	-
Yarant				Khushuut	1.2	14.4	19.1	0.57	7201	8.0	72.5
Weak cokingx			Gashuun sukhait	Ukhaa khudag	-	-	-	-	-	-	-
			Tumenzag	-	-	-	-	-	-	-	
Shivee khuren			SGS	4.2	7.4	37.9	1.81	7464	6.5	66.7	
Noncoking			Gashuun sukhait	Ukhaa khudag	-	-	-	-	-	-	-
Coke	27,04-0010	Gashuun sukhait	Coke	-	-	-	-	-	-	-	

Source: Mining and Petroleum Central Laboratory, MRPAM



## V. PETROLEUM STATISTICS

### 5.1. PETROLEUM PRODUCTION AND EXPORT, /by barrel, company, 2018.I-VIII/

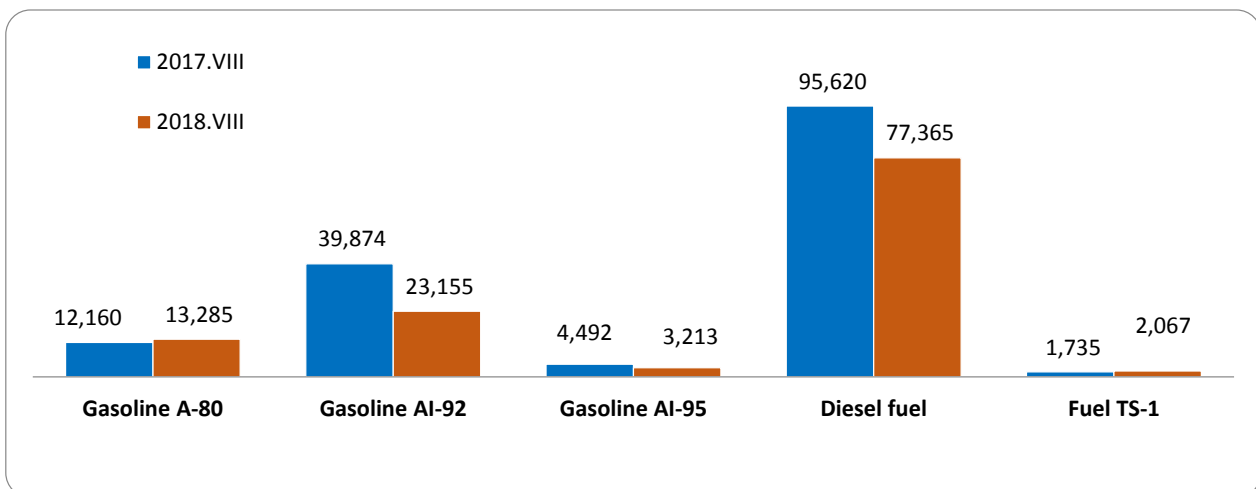


Source : Petroleum Exploitation Division, MRPAM

### 5.2. PETROLEUM PRODUCTS IMPORTING, /by type, tons, 2018.VIII/

	TOTAL	Russia	China	Republic of Korea	Other countries
<b>TOTAL</b>	<b>173,442.8</b>	<b>171,109.8</b>	<b>101.9</b>	<b>833.2</b>	<b>1,397.9</b>
Gasoline A-80	12,371.2	12,371.2	-	-	-
Gasoline AI-92	47,173.7	47,173.7	-	-	-
Gasoline AI-95	2,305.8	2,305.8	-	-	-
Gasoline AI-98	265.9	265.9	-	-	-
Diesel fuel	75,739.0	75,739.0	-	-	-
Fuel TS-1	7,515.0	7,515.0	-	-	-
Lique- fied gas	84.1	84.0	-	0.1	-
Other	27,988.1	25,655.2	101.9	833.1	1,397.9

### 5.3. THE RESIDUE OF PETROLEUM PRODUCTS, /by type, tons, 2017- 2018/



Source : Petroleum Products Division, MRPAM



5.4. THE RESIDUE OF PETROLEUM PRODUCTS, /by company, tons, 2018.VIII.28/

Company name	TOTAL	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel	Fuel TS-1
<b>TOTAL</b>	<b>120,842.6</b>	<b>16,337.6</b>	<b>24,018.0</b>	<b>2,957.9</b>	<b>75,755.5</b>	<b>2,442.0</b>
NIC JSC	27,297.4	5,840.0	5,563.4	551.0	15,343.0	-
Petrostar LLC	10,692.5	1,254.0	3,869.5	439.0	5,130.0	-
Magnai Trade LLC	11,883.0	994.0	3,133.0	744.0	6,492.0	520.0
Shunkhlai Group LLC	19,736.5	3,684.1	3,140.9	450.5	12,461.0	-
Sod Mongol Group LLC	9,955.9	1,468.7	3,002.8	264.4	3,298.0	1,922.0
Petrojump LLC	206.6	-	27.4	16.4	162.7	-
M-Oil Group LLC	7,542.9	384.6	347.7	115.3	6,695.2	-
Rysjan LLC	1,127.6	297.0	438.6	-	392.0	-
Just Oil LLC	608.8	74.8	318.6	3.8	211.6	-
Oin Birj LLC	6,415.1	510.3	1,610.3	226.7	4,067.8	-
Sinchi Oil LLC	1,349.6	269.1	346.6	39.8	694.1	-
Khurs Autoservice LLC	1,275.3	380.5	256.9	-	637.9	-
New Energy Star LLC	822.7	60.0	208.6	14.2	539.9	-
Undarga Uvs LLC	679.6	118.5	85.4	-	475.7	-
Monsuli LLC	3,769.0	554.6	850.2	65.0	2,299.2	-
ICIC LLC	10,613.5	402.4	760.3	10.9	9,439.9	-
Khazyna LLC	130.0	45.0	25.0	-	60.0	-
Tod Petroleum LLC	1,513.1	-	32.7	16.8	1,463.6	-
Palamino Oil and Energy LLC	89.0	-	-	-	89.0	-
Welcome LLC	670.0	-	-	-	670.0	-
Petroeum Production LLC	1,454.2	-	-	-	1,454.2	-
Naran Petroleum LLC	3,010.4	-	-	-	3,010.4	-
NP Petroleum LLC	-	-	-	-	668.4	-

Source : Petroleum Products Division, MRPAM



5.5. THE WORLD AVERAGE PRICE OF PETROLEUM PRODUCTS ARE SELLING RETAIL SALE, /by US\$/tons,  
2018.VIII.28/

Date	New York		London		Russia		China	
	WTI		BRENT		URALS 32'		DAQING 33'	
2018/01/05	486.83	↑ 2.25%	517.88	↑ 2.45%	490.51	↑ 1.76%	441.58	↑ 1.25%
2018/01/12	513.83	↑ 5.55%	531.29	↑ 2.59%	502.13	↑ 2.37%	447.25	↑ 1.28%
2018/01/23	502.67	↓ -2.17%	520.92	↓ -1.95%	494.68	↓ -1.48%	443.40	↓ -0.86%
2018/01/26	518.43	↑ 3.14%	532.05	↑ 2.14%	507.94	↑ 2.68%	454.96	↑ 2.61%
2018/02/02	510.71	↓ -1.49%	521.07	↓ -2.06%	494.90	↓ -2.57%	454.81	↓ -0.03%
2018/02/09	458.82	↓ -10.2%	478.52	↓ -8.17%	448.86	↓ -9.30%	418.75	↓ -7.93%
2018/02/16	481.29	↑ 4.90%	492.65	↑ 2.95%	459.75	↑ 2.43%	424.57	↑ 1.39%
2018/02/26	498.69	↑ 3.62%	509.45	↑ 3.41%	475.39	↑ 3.40%	439.84	↑ 3.60%
2018/03/02	477.93	↓ -4.16%	489.08	↓ -4.00%	454.27	↓ -4.44%	420.93	↓ -4.30%
2018/03/09	484.10	↑ 1.29%	497.59	↑ 1.74%	451.20	↓ -0.68%	412.94	↓ -1.90%
2018/03/16	486.44	↑ 0.48%	503.06	↑ 1.10%	463.84	↑ 2.80%	425.30	↑ 2.99%
2018/03/23	512.81	↑ 5.42%	529.05	↑ 5.17%	516.82	↑ 11.42%	458.74	↑ 7.86%
2018/03/30	492.68	↓ -3.93%	514.46	↓ -2.76%	516.82	↔ 0.00%	436.93	↓ -4.75%
2018/04/06	497.52	↑ 0.98%	524.26	↑ 1.91%	499.21	↓ -3.41%	439.11	↑ 0.50%
2018/04/13	518.12	↑ 4.14%	550.55	↑ 5.01%	512.29	↑ 2.62%	470.37	↑ 7.12%
2018/04/20	494.55	↓ -4.55%	562.71	↑ 2.21%	521.06	↑ 1.71%	537.25	↑ 14.22%
2018/04/27	531.38	↑ 7.45%	567.11	↑ 0.78%	539.11	↑ 3.46%	543.80	↑ 1.22%
2018/05/04	544.03	↑ 2.38%	568.86	↑ 0.31%	515.80	↓ -4.32%	542.34	↓ -0.27%
2018/05/11	551.67	↑ 1.41%	586.41	↑ 3.09%	539.70	↑ 4.63%	497.63	↓ -8.24%
2018/05/18	556.20	↑ 0.82%	596.52	↑ 1.72%	559.94	↑ 3.75%	514.72	↑ 3.43%
2018/05/25	527.01	↓ -5.25%	570.84	↓ -4.31%	536.41	↓ -4.20%	479.97	↓ -6.75%
2018/06/01	518.67	↓ -1.58%	585.43	↑ 2.56%	496.21	↓ -7.49%	487.67	↑ 1.61%
2018/06/08	512.58	↓ -1.17%	580.56	↓ -0.83%	535.75	↑ 7.97%	487.09	↓ -0.12%
2018/06/15	520.38	↑ 1.52%	576.99	↓ -0.62%	530.93	↓ -0.90%	487.09	↔ 0.00%
2018/06/26	518.35	↓ -0.39%	563.01	↓ -2.42%	529.10	↓ -0.34%	508.61	↑ 4.42%
2018/07/03	578.59	↑ 11.62%	601.99	↑ 6.92%	549.78	↑ 3.91%	528.89	↑ 3.99%
2018/07/06	576.80	↓ -0.31%	585.96	↓ -2.66%	549.78	↔ 0.00%	502.28	↓ -5.03%
2018/07/13	554.09	↓ -3.94%	572.36	↓ -2.32%	540.43	↓ -1.70%	470.95	↓ -6.24%
2018/07/20	532.63	↓ -3.87%	555.19	↓ -3.00%	509.00	↓ -5.81%	472.84	↑ 0.40%
2018/07/27	535.99	↑ 0.63%	568.03	↑ 2.31%	521.79	↑ 2.51%	480.47	↑ 1.61%
2018/08/03	534.43	↓ -0.29%	556.25	↓ -2.07%	513.02	↓ -1.68%	472.77	↓ -1.60%
2018/08/10	527.72	↓ -1.54%	553.21	↓ -2.61%	506.23	↓ -2.98%	461.21	↓ -4.01%
2018/08/17	508.83	↓ -3.58%	545.61	↓ -1.37%	502.50	↓ -0.74%	453.43	↓ -1.69%
2018/08/24	529.28	↑ 4.02%	567.80	↑ 4.07%	540.13	↑ 7.49%	483.46	↑ 6.62%

Source : Petroleum Product Division, MRPAM



5.6. THE RETAIL PRICE OF PETROLEUM PRODUCTS SOLD THROUGHOUT MONGOLIA, /by provinces, MNT/litre, 2018.VIII.28/

Aimag and capital city	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel
<b>NATIONAL AVERAGE PRICE</b>	<b>1750</b>	<b>1888</b>	<b>2157</b>	<b>2180</b>
<b>Western region</b>	<b>1826</b>	<b>1952</b>	-	<b>2146</b>
Bayan-Ulgii	1700	1820	-	1890
Govi-Altai	1820	1930	-	2230
Zavkhan	1890	1990	-	2260
Uvs	1830	2010	-	2150
Hovd	1890	2010	-	2200
<b>Hangai region</b>	<b>1717</b>	<b>1853</b>	<b>2144</b>	<b>2159</b>
Arkhangai	1760	1860	2180	2190
Bayankhongor	1760	1870	-	2200
Bulgan	1690	1830	2120	2130
Uvurkhangai	1730	1860	-	2180
Orkhon	1690	1830	2120	2130
Selenge	1650	1800	2120	2110
Khuvsgul	1740	1920	2180	2170
<b>Central region</b>	<b>1719</b>	<b>1861</b>	<b>2154</b>	<b>2179</b>
Ulaanbaatar	1680	1825	2110	2130
Tuv	1650	1830	2120	2100
Darkhan	1620	1830	2120	2130
Govisumber	1750	1860	2120	2200
Dundgovi	1770	1870	2120	2230
Dornogovi	1760	1860	2230	2200
Umnugovi	1780	1920	2180	2240
Zamin Uud	1745	1895	2230	2200
<b>Eastern region</b>	<b>1740</b>	<b>1890</b>	<b>2173</b>	<b>2217</b>
Dornod	1750	1900	2180	2190
Sukhbaatar	1770	1920	2180	2250
Khentii	1700	1850	2160	2210

5.7. RETAIL PRICE OF PETROLEUM PRODUCTS OF MAIN COMPANIES IN ULAANBAATAR CITY, /by company, MNT/litre, 2018.VIII.28/

	Gasoline A-80	Gasoline AI-92	Gasoline AI-95	Diesel fuel
<b>AVERAGE PRICE IN UB</b>	<b>1,680</b>	<b>1,825</b>	<b>2,110</b>	<b>2,131</b>
Shunkhlai LLC	1,690	1,825	2,120	2,155
Sod Mongol LLC	1,650	1800-1820	2,080	2,100
Magnai trade LLC	1,690	1830-1850	2,120	2,150
Petrovis LLC	1,690	1820-1850	2,120	2,120

Source : Petroleum Products Division, MRPAM

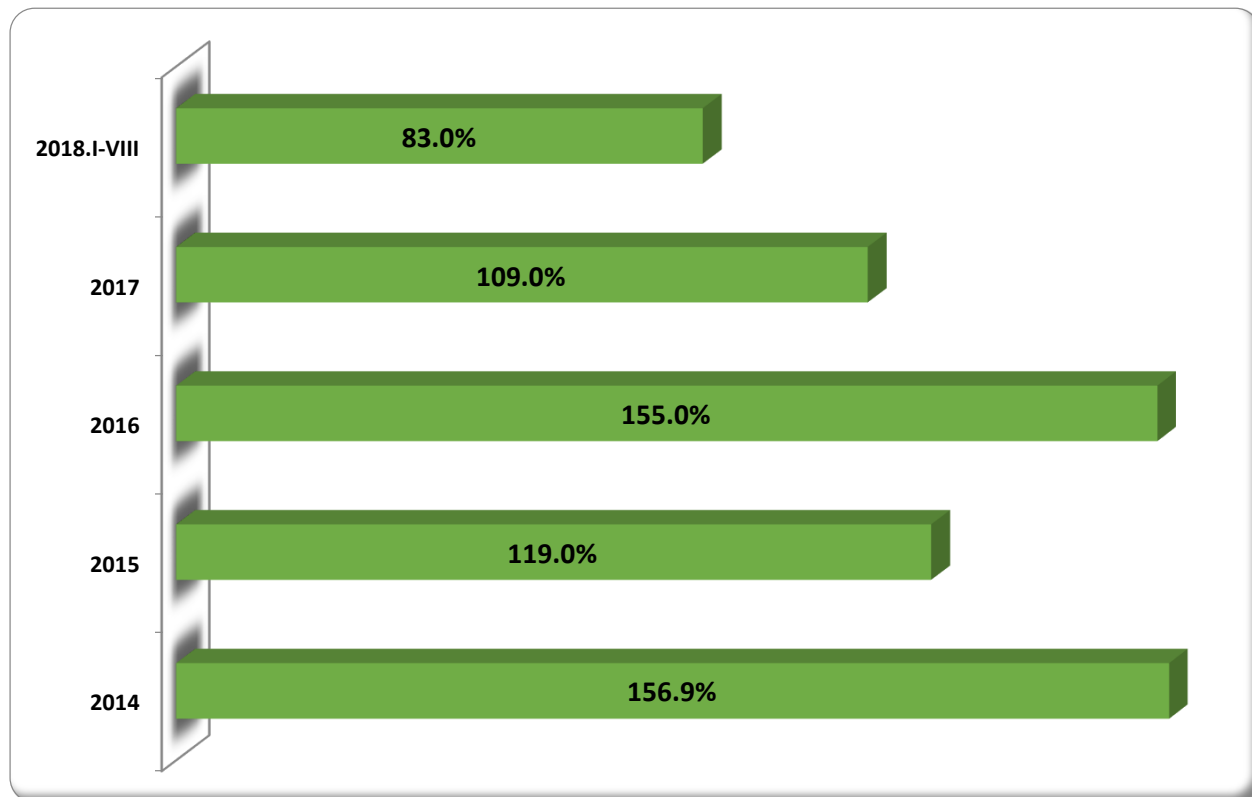


## 6. STATISTICS OF STATE INVESTMENT REVENUE

### 6.1. BUDGET REVENUE PLAN AND PERFORMANCE, /by income type, mln.MNT, 2018/

	Plan of 2018	Performance	Performance rate
		2018.I-VIII	
License fee	37,000.0	23,374.0	63.2%
Reimbursement	2,100.0	722.4	34.4%
Petroleum export revenue	223,448.3	157,229.2	70.4%
Service revenue /petroleum/	2,392.5	1,977.7	82.7%
Service revenue /mineral resources/	3,717.3	1,489.3	40.1%
Tender revenue	23,150.0	-	0.0%

### 6.2. PERFORMANCE RATE OF BUDGET REVENUE , 2014-2018



Source: Public Administration and Management Division, MRPAM

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**TELEPHONE LIST OF MINERAL RESOURCES AND PETROLEUM AUTHORITY**

Director	263701
Deputy Director	263750
Deputy Director	328305
Public Administration and Management Division	263708
Legal Division	263781
Geology and Exploration Division	330939
Mining Productions, Technology Division	310041
Coal Research Division	263965
Cadastre Division	263640
Monitoring, Evaluation and Statistics Division	70183861
Heavy Industry, Technic and Technology Division	70181239
Petroleum Exploitation Division	70181176
Petroleum Products Division	70181308
Mineral Resources Information Technology Center	328305
Mineral Resources and Petroleum Combustible Testing and Experimental Laboratory	70183105
Statistics specialist of Monitoring, Evaluation and Statistics Division	70183111

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CALL CENTER OF GOVERNMENT	11-11
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