Potash developments in Thailand

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ASEAN Potash Mining Public company Limited, Thailand

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Potash Basin in Thailand

ASEAN POTASH MINING PROJECT

Potash Exploration In Thailand

- DMR conducted exploration programs in the 1950’s in the Northeastern Thailand
- Potash exploration was investigated around 8 years by drilled holes more than 200 bore holes
- Potash ore in Thailand found 2 kinds of mineral deposit
  1. Carnallite (KCl·MgCl2·6H2O)
  2. Sylvite (KCl)
Potential of Potash resources in Thailand

- Carnallite 400,000 Million Metric Tons
- Sylvite (KCl) 7,000 Million Metric Tons

Thailand’s potash projects status

- Mining Licenses Granted
  - ASEAN Potash Mining Public Company Limited
  - Thai Kali Co., Ltd.

- Applying Mining License
  - Asia Pacific Potash Corporation Co., Ltd.

- Exploration
  - China Mingda Potash Corporation (Thailand) Co., Ltd.
  - Rong Pung Mining Co., Ltd.
  - Saksri Thai Development Co., Ltd.
  - International Petroleum Group Co., Ltd.
  - Sahachart Sestrakij Co., Ltd.
  - Pacific Mineral Resources Co., Ltd.
ASEAN Potash mining project

Introduction:

- 285 km NE of Bangkok
- 400 km SW to Sea Port
Mine Access for Fast Track Production

Mining Method
Room-and-Pillar with Drilling and Blasting (3m-8m Seam Thickness)
Mining Method
Room-and-Pillar with Additional Benching (8m - 15 m Seam Thickness)

Primary phase: Development of the top cut at the roof of the deposit

Secondary phase: Development of the bottom cut by shaping panels of the entire deposit thickness

1st ADDITIONAL BENCHING STEP: Benching by drilling and blasting

2nd ADDITIONAL BENCHING STEP: Haulage of the extracted coal ore by scoop tram

Mining Method
Bulk Mining (15 m-25 m Seam Thickness)

1st BENCHING STEP: Development of the bottom cut

2nd BENCHING STEP: Development of the top cut

3rd BENCHING STEP: Slope production by benching

Extensible conveyor
Ore Reserves

The Company has retained Ercosplan, a German Consultant conducting an Extended Comprehensive Feasibility Study, ECFS of the Project. Ercosplan has calculated the ore reserves covering concession area (15 Sq. Km) in compliance with the recognized international standard. The study shows in the below table.

<table>
<thead>
<tr>
<th>Carnallitite Ore Tonnage</th>
<th>Proven Mineral Reserves</th>
<th>Probable Mineral Reserves</th>
<th>Total Mineral Reserves</th>
<th>KCl Content of Total Mineral Reserves</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[10^6 t]</td>
<td>[10^6 t]</td>
<td>[10^6 t]</td>
<td>[%]</td>
</tr>
<tr>
<td></td>
<td>135.198</td>
<td>9.208</td>
<td>144.405</td>
<td>14.72</td>
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</tbody>
</table>

Process Technology

- Hot Leaching & Crystallization

PROVEN AND WELLKNOWN
Processing Building

- KCl Crystallization
- Drying
- Hot Leaching

Project Balance

<table>
<thead>
<tr>
<th>Component</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carnallitite ROM</td>
<td>7,897,500 tpy</td>
</tr>
<tr>
<td>KCl Content of Ore</td>
<td>14.7%</td>
</tr>
<tr>
<td>NaCl Content of Ore</td>
<td>47.1%</td>
</tr>
<tr>
<td>MgCl₂ Content of Ore</td>
<td>17.7%</td>
</tr>
<tr>
<td>MOP Product</td>
<td>1,100,000 tpy</td>
</tr>
</tbody>
</table>
Transportation—Truck&Barge

- Transport by trucks 202 km to the river port
- Load to 2,000 t barges
- Transport by barges 190 km to Si-Chang Open Anchorage

Project Schedule

ASEAN POTASH MINING PUBLIC COMPANY LIMITED
Preliminary Project Implementation Schedule

<table>
<thead>
<tr>
<th>No</th>
<th>Task Description</th>
<th>Duration (months)</th>
<th>Year 2015</th>
<th>Year 2016</th>
<th>Year 2017</th>
<th>Year 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Securing Financial Package</td>
<td>6m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>2</td>
<td>Selecting EPC Contractor</td>
<td>5m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>3</td>
<td>Decline re-conditioning</td>
<td>5m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>4</td>
<td>Detailed Engineering Design of Shafts</td>
<td>6m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>5</td>
<td>Vertical Shafts Sinking 1&amp;2</td>
<td>24m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>6</td>
<td>Mine Development</td>
<td>30m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>7</td>
<td>Processing Facilities</td>
<td>30m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>8</td>
<td>Infrastructure &amp; Utilities</td>
<td>30m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>9</td>
<td>Tailings Area</td>
<td>21m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>10</td>
<td>Commissioning &amp; Test-run</td>
<td>3m</td>
<td>Q1</td>
<td>Q2</td>
<td>Q3</td>
<td>Q4</td>
</tr>
<tr>
<td>11</td>
<td>Start Operation</td>
<td></td>
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</table>
Extended Mining Concession & Potential Future

<table>
<thead>
<tr>
<th>Current Mining License</th>
<th>New Mining Concession (10 Sq. Km)</th>
<th>Potential Areas</th>
</tr>
</thead>
</table>

Legend:
- Border of Lower Halfway and Ridge
- Approximate position of the deposit area
- Target area for mining activity
- Low structure areas

Competative Advantage

ASEAN Potash Mining Public Company Limited
Competitive Advantage - Overview

- In the Booming Market - Southeast Asia
- Proximity to the Export Markets
- Large thickness of ore deposit at very shallow depth
- Fast Ramp-up with the existing decline and trial mining area

Asean potash mining plc

Thank you for your attention