Government Policy in The Form of Providing Licensed Cadaster Surveyors to Support The Acceleration of Systematic Land Registration in Indonesia

Presented at the FIG Working Week 2020, 10-14 May 2020 in Amsterdam, the Netherlands
I. Overview

Current land administration projects in Indonesia (BPN, 2017)

First land registration through PTSL as part of agrarian reform (BPN, 2017)
II. Aim and Research Question

• This paper aims to investigate the program for providing licensed cadaster surveyors to support PTSL in Indonesia.

• It employs an analysis of progress reports on the supply of licensed cadaster surveyors conducted by BPN in all provinces in Indonesia.

• A question that arises is what are the competency standard requirements of licensed cadaster surveyors to support the acceleration of systematic land registration in Indonesia?
III. Licensed cadaster surveyor

The availability of civil servant land surveyors of ± 2,505 is very insufficient to deliver land registration and other land administration program in Indonesia.

<table>
<thead>
<tr>
<th>Year</th>
<th>The target of land parcel in PTSL</th>
<th>Required cadaster surveyors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>5 million</td>
<td>5,000</td>
</tr>
<tr>
<td>2018</td>
<td>7 million</td>
<td>7,000</td>
</tr>
<tr>
<td>2019</td>
<td>9 million</td>
<td>9,000</td>
</tr>
<tr>
<td>2020</td>
<td>10 million</td>
<td>10,000</td>
</tr>
<tr>
<td>2021</td>
<td>10 million</td>
<td>10,000</td>
</tr>
<tr>
<td>2022</td>
<td>10 million</td>
<td>10,000</td>
</tr>
<tr>
<td>2023</td>
<td>10 million</td>
<td>10,000</td>
</tr>
<tr>
<td>2024</td>
<td>11 million</td>
<td>11,000</td>
</tr>
</tbody>
</table>

Number of required cadaster surveyors (Kushendratno, 2019)

<table>
<thead>
<tr>
<th>No</th>
<th>Possibility to recruit land surveyors in 2019</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cooperation with the Ministry of Manpower</td>
<td>576</td>
</tr>
<tr>
<td>2</td>
<td>Cooperation with the Ministry of Education</td>
<td>1,360</td>
</tr>
<tr>
<td>3</td>
<td>Cooperation with the Army topographic service</td>
<td>75</td>
</tr>
<tr>
<td>4</td>
<td>Cooperation with local government</td>
<td>80</td>
</tr>
<tr>
<td>5</td>
<td>Geodesy/Geomatica alumni undergraduate</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>Diploma (1 year) graduate of the National Land College</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td><strong>Total recruitment plan for land surveyors</strong></td>
<td><strong>3,041</strong></td>
</tr>
</tbody>
</table>

Scheme for providing licensed cadaster surveyors (BPN, 2020)
III. Licensed cadaster surveyor (cont....)

The mechanism for Cadaster surveying and mapping activities (BPN, 2019b)

Number of civil servant land surveyor and private licensed cadaster surveyor (Kushendratno, 2019)
IV. Proposed mechanism to recruit licensed cadaster surveyor

• Collaboration with several agencies: The Ministry of Manpower (through the Center for Vocational Training), the Ministry of Education and Culture (through the Vocational High School majoring in Geomatics), and State and Private Universities that have geodetic studies programs or geomatics.

• In addition, the Coordinating Ministry for Economic Affairs initiated a vocational program to provide non-civil servant land surveyors at BPN through surveying and mapping training.
IV. Proposed mechanism to recruit licensed cadaster surveyor

**INPUT**
- High school or vocational school graduates other than survey mapping majors
- Vocational school graduates, Diploma 1, Diploma 3 and Undergraduate majoring in survey mapping
- Former ATR / BPN employee (20-year tenure, mapping survey expertise)
- ATR / BPN employee (has worked for a maximum of 10 years and has passed matriculation)

**PROSES**
- Vocational survey mapping training (320 hours)
- Internships in regional offices / land offices / mapping survey companies / KJISKB (Min 3 months)
- Submit an application to become a cadastral surveyor

**OUTPUT**
- Licensed Cadastral Surveyor (SKB)
V. The competency standard requirement

a. Indonesian National Work Competency Standard (SKKNI) cadaster

- **Juridical aspects**
  - Legal data: 9 unit competencies

- **Technical aspects**
  - Survey and mapping activities: 31 unit competencies

- **Administrative aspects**
  - Collection, processing, bookkeeping, and presentation, and maintenance of physical data and juridical data: 7 unit competencies

Unit competencies in SKKNI Cadaster
V. The competency standard requirement (cont....)

b. Indonesian National Qualification Framework (KKNI) cadaster
c. Milestone of professional and competence licensed cadaster surveyor

47 competency Unit:
- 31 Unit competency of technical aspects
- 9 Unit competency of Juridical aspects
- 7 Unit competency of administration aspects

5 qualification level:
- Madya Cadaster Surveyor KKNI Level 7
- Junior Surveyor Cadaster KKNI level 6
- Madya Cadaster Surveyor Assistant KKNI Level 4
- Junior Cadaster Surveyor Assistant KKNI Level 3
- First Cadaster Surveyor Assistant KKNI Level 2

5 certification scheme:
- Madya Cadaster Surveyor scheme KKNI Level 7
- Junior Surveyor Cadaster scheme KKNI level 6
- Madya Cadaster Surveyor Assistant scheme KKNI Level 4
- Junior Cadaster Surveyor Assistant scheme KKNI Level 3
- First Cadaster Surveyor Assistant scheme KKNI Level 2

2 License:
- Cadaster Surveyor (2 rank level)
- Cadaster Surveyor Assistant (3 rank level)
VI. Conclusion

- This paper suggested that improving competency standards, internal coaching by BPN (head office, regional land offices, and district land offices) and external coaching (professional associations and ethics council) will improve the competency standards of licensed cadaster surveyors.

- Important factors in improving competence and quality control are technical, juridical and administrative, all of which refer to Indonesian National Work Competency Standard (SKKNI Cadaster) and Indonesian National Qualification Framework (KKNI Cadaster).

- The BPN Human Resources Development Center (PPSDM) can take a role to improve the competency standards of the licensed cadaster surveyor by implementing e-learning based training. PPSDM can also be a center for competency testing, agrarian and spatial technical training, and other land administration training.