

Model of Regional Development in Indonesia: Study on Formation of Batang Asai District and Mandiingin District at Sarolangun Regency – Jambi Province

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Model of Regional Development in Indonesia Study on Formation of Batang Asai District and Mandiingin District at Sarolangun Regency Jambi Province

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6
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Abstract

4
This study was aimed to describe the capability level of districts and villages for formation of new ones by Sarolangun Regency Government, to describe public aspiration regarding the plan for formation of district, to describe availability of public services provided by government and quality level of the public services. This study uses application of measurement and evaluation model on capability of a region in implementation of regional autonomy. Thereby, the sample was saturated sample, by which population consists of 10 districts and 158 villages that exist in Sarolangun Regency. Conclusion of this study provides recommendation for Sarolangun Regency to plan the formation of district and village systematically and continuously with reference to result of this study showing that 10 districts and 158 villages in Sarolangun can be subdivided into 15 districts and 196 villages, respectively, with expectation that this regional reorganization and development would consider regional financial capability in order to enable the mobility of services, governance and development effectively and efficiently.

Keywords

Regional Development, Local Government, District and Village, Public Policy, Model in Indonesia

1. Introduction

4
Regional autonomy policy in Law No. 32 of 2004, as replaced by Law No. 23 of 2014, on Local Government, explicitly provides extensive autonomy to local

government to govern and manage interests and welfare of local community. Local Government should optimize local development that is oriented to public interest. With this Law, local government and local community are more empowered and given with more responsibility to accelerate regional development rate [1].

Regulation on district, to certain degree, has experienced changes and even strengthened by Law No. 23 of 2014 on Local Government. It is understandable since control of national governance will be more effective and efficient by connecting nodes of district within perspective of development, governance and social control. Originated from article 221 clause (1), it is perceived that the spirit of formation of district is to improve governmental coordination, public services and public empowerment of both villages and sub-districts. It is furthermore elaborated in clause (3) that, in the mechanism of formation of district, participation of provincial government as agent of central government cannot be left out. This confirms that there is strong span of control connecting district government, regency government, provincial government and Ministry of Home Affairs. This is also corroborated in article 224 clause (3) stating that Governor as agent of central government has influence on the appointment of *Camat* (head of district) [2].

What is more spectacular is that, according to article 225 clause (1) point a, one of duties of *Camat* is to implement general administrative affairs, which is furthermore elaborated in article 9 clause (5) stating that general administrative affairs are under authority of president as the head of government. According to article 25 clause (1), it is explained that the meaning of general administrative duties is to develop national concept and national resilience in order to consolidate the practice of *Pancasila* (the Five Principles), enactment of the 1945 Constitution of the Republic of Indonesia, preservation of *Bhinneka Tunggal Ika* (Unity in Diversity) and maintenance of national integrity of the Unitary State of the Republic of Indonesia; development of national unity, encouragement of intra- and inter-ethnic, religious, racial, and groups relations for the stability of local, regional, and national security; management of social conflict according to law and regulations, coordination of duties between governmental institutions in province and regency/city to solve existing problems by considering principles of democracy, human rights, equality, justice, privileges, regional potential and diversity, in accordance with law and regulations, development of democratic life according to *Pancasila*, and implementation of all administrative affairs which are not under the authority of local government and not implemented by vertical institutions [3].

Despite that article 209 clause (2) defines district as local bureaucracy unlike Law No. 5 of 1974 which states that *Camat* is regional agency, Law No. 23 of 2014 provides more space in implementation of all functions of administrative management to achieve public welfare by utilizing district agencies as mandated in article 225 clause (3) that staff agency and line agency shall implement mission of district to achieve good governance, public services and public empo-

werment [4].

In addition to affairs above, district is also delegated with authority from Regent, as stated in article 226 clause 1, 2, and 3, and also Decree of Regent, for effectiveness and efficiency of governance, public services and public empowerment. Delegation of authority from Regent to Camat followed by budgeting in National Budget (APBN) is delegation of authority in deconcentration affairs (article 225 clause 2) and in Local Budget (APBD) is delegation of authority in decentralization affairs (article 227).

Before enactment of this new law, district was assigned more to implement facilitating and coordination duties. Now, however, district has been assigned more to develop and supervise villages/sub-districts⁴ mandated in article 225 clause (1) point g. These are furthermore added by enactment of Law No. 6 of 2014 on Village that, in addition to manage internal potentials, district shall also manage villages/sub-districts with every dimensions in them. Therefore, it is necessary to have good management skills of planning, organizing, implementing, and controlling.

In administration of district government, Law No. 23 of 2014 also provides space for innovation. Innovation can be in form of ways to govern effectively and efficiently, ways to provide good public services, and ways to empower public effectively and efficiently. The spaces are provided in terms of to increase efficiency, to improve effectiveness, to improve service quality, to avoid conflict of interests, to be public-oriented, to be transparent, to comply with appropriateness, to have unselfish accountable result (article 387). In fact, article 389 states that in case of the implementation of innovation under the policy of local government fails to meet its objective, civil servant cannot be convicted.

In Government Regulation No. 19 of 2008 on District, it is clearly stated that formation of new district can be dividing of one district into two or more new districts; and/or integration of villages and/or sub-districts from several districts. In this Government Regulation, it is also stated that formation of district requires several requirements, namely: administrative, technical, and territorial physical [5].

⁴ According to Law No. 32 of 2004 on Local Government, and its derivative Government Regulation No. 19 of 2008 on District, it is stated that criteria for formation of district are:

- 1) Administrative requirements to be met are:
 - a) Minimum age of administration by 5 (five) years;
 - b) Minimum age of village and/or sub-district administration for formation of district is 5 (five) years;
 - c) Decision of *Badan Permusyawaratan Desa (BPD)* (Village Consultative Council) or other name for Village, Communication Forum of Sub-district or other name for Sub-district, in whole district region, both in proposed new district and parent district, regarding agreement for formation of new district;
 - d) Decision of Village Chief or other name for Village, Head of Sub-district or other name for Sub-district, in whole district region, both in proposed new dis-

trict and parent district, regarding agreement for formation of new district;

e) Recommendation from Governor.

2) Territorial physical requirements to be met are:

a) Territorial coverage, as mentioned in Article 5, for regency should at least consist of 10 villages/Sub-districts, and for city should at least consist of 5 villages/Sub-districts.

b) Location of proposed capital, as mentioned in Article 5, should consider aspects of spatial, availability of facility, accessibility, geographical condition and location, demography, socio-economic, socio-political, and sociocultural.

c) Administrative facilities and infrastructures, as mentioned in Article 5, consist of buildings and lands for office of Camat to provide public services.

3) Technical requirements to be met are:

a) population size;

b) area size;

c) span of control in providing administrative services;

d) economic activities;

e) Availability of facilities and infrastructures [6].

Law No. 32 of 2004 has been replaced by law No. 12 of 2014 on Local Government, and Central Government is also preparing Government Regulation in Lieu of GR No. 19 of 2008 on District which is currently under discussion and still in form of *Rancangan Peraturan Pemerintah (RPP)* (Draft Government Regulation (DGR)). According to Law No. 23 of 2014 Article 222 and Draft Government Regulation in Lieu of GR No. 19 of 2008, it is stated that:

Central government and local government shall reorganize districts, comprising:

1) establishment; and

2) elimination and merging.

Regency/city government establishes district in order to improve governmental coordination, public services, and public empowerment of Village/Sub-district, and it is established by regional regulation of regency/city.

Formation of district can be:

1) Dividing of 1 (one) district into 2 (two) or more districts; and/or

2) Merging of part of district from adjacent districts within a regency/city into new district.

Formation of district should meet basic, technical, and administrative requirements.

1) Basic requirements include:

a) Minimum population size;

b) Minimum area size;

c) Minimum number of villages/sub-districts under coverage; and

d) Minimum age of district.

2) Technical requirements include:

a) Regional financial capability;

b) Administrative facilities and infrastructures; and

- c) Other technical requirements as regulated in law and regulations.
- 3) Administrative requirements include:
 - a) Village consensus and/or decision of communication forum of Sub-district or any other name in parent district; and
 - b) Village consensus and/or decision of communication forum of Sub-district or any other name in proposed formed district [7].

This study uses elaboration of three variables (Decree of Minister of Home Affairs No. 4/200) and GR No. 19 of 2008 on District, and main variable in Law No. 23 of 2014, and also measurement of potential is carried out by simulation of GR No. 129 of 2000 and its replacing Government Regulation, GR No. 78 of 2008 on Requirement for Formation and Criteria for Establishment, Elimination and Merging of Regions, by considering other variables that may support the requirement for formation of district, such as demography, *orbitasi* (distance from administrative capital), education, health, religion, sport facilities, transportation, communication, public lighting, politics, public security and order, agriculture, fishery, livestock, mining, employment, sociocultural, social economy, social condition and administrative aspect [8].

2. Problem Statement

Problem statement for this study on formation of district and village in Sarolangun Regency Jambi Province can be formulated as follows:

- 1) How is capability level of districts and villages in Sarolangun Regency in administration of government, development and providing public services?
- 2) How is description on public aspiration regarding the plan for formation of district and village in Sarolangun Regency?
- 3) How is availability of public services provided by government in Sarolangun Government?
- 4) How is quality level of public services provided by government in Sarolangun Government?

3. Theoretical Framework

Study on Formation of District in Sarolangun Regency is divided in stages according to theoretical framework as follows:

3.1. Formation and Reordering at the Level of Village/Sub-District (Formation of Village/Sub-District)

The purpose of regional autonomy policy as mentioned in Law No. 32 of 2004 is improvement for better public service and welfare, encouragement of democratic life, justice, and equality, and also preservation of harmony relationship between central and local government and inter local governments for integrity of the Unitary State of the Republic of Indonesia. In line with this, regional autonomy is placed entirely for regency/city, and delegation of authority of regional autonomy to regency/city is based on extensive, real and responsible decentra-

lization principle. The achievement of this purpose would be determined by the **capability level of villages/Sub-districts** as the **smallest unit of government** which also the **nearest** to community that provide public services, implement the development and improvement of democracy.

Law No. 32 of 2004 Article 227 clause (1) states that Sub-district can be formed in district region by local regulation with reference to Government Regulation. GR No. 73 of 2004 on Sub-district furthermore elaborates that formation of new Sub-district should consider population size, area size, sociocultural, potential of the Sub-district, and administrative facilities and infrastructures. This regulation provides spaces for formation of new Sub-district through subdivision of Sub-district as long as it is aspired by the public and it shall achieve the purpose of effective administration of government, public services, development and democratization at the smallest unit of government. For this purpose, it is **required to measure and evaluate** the potential of the Sub-district as the basis of whether it is adequate or not for formation of new district.

Result of the measurement considers main factor, consisting of accumulation of population size and total number of head of family, and supporting factors comprising particular total score of potential capability level which serve as **basis for evaluation** of whether a Sub-district is **adequate** or not for formation. Evaluation of potential capability level for formation of Sub-district is evaluation of potential of **the parent Sub-district and the plan for formation of Sub-district**. **Result of evaluation** can be categorized into 3 (three) levels, **qualified/ proper, qualified with condition/fairly proper** and **unqualified/improper**. Result of evaluation serves as **recommendation for policy** as follows:

1) If proposed parent Sub-district and proposed formed Sub-district for formation both meet the requirements according to main factor and are qualified/proper according to supporting factor, the chosen action would be **recommended for dividing of Sub-district or establishment of new Sub-district**;

2) If proposed parent Sub-district and proposed formed Sub-district for formation meet the requirements according to main factor and both qualified with condition/fairly proper or unqualified/improper according to supporting factor, the chosen action would be **recommended for dividing of Sub-district or for establishment of new Sub-district**, followed by development of potential into qualified/proper within certain period of time;

3) If any of proposed parent Sub-district and proposed formed Sub-district fail to meet the requirements according to main factor and is qualified/proper or is qualified with condition/fairly proper or unqualified/is improper according to supporting factor, **it is not recommended for dividing of Sub-district or establishment of new Sub-district**.

3.2. Development and Reordering at the Level of District (Formation of District)

The corrective purpose of regional autonomy as mentioned in Law No. 22 of

1999 is improvement of public service and welfare, encouragement of democratic life, justice, and equality, and also preservation of harmony relationship between central and local government and inter local governments for integrity of the Unitary State of the Republic of Indonesia. Whereas, according to Law No. 32 of 2004 and Law No. 23 of 2014, the purpose is aimed to accelerate the realization of public welfare through improvement of public service, public empowerment and public participation. In line with this, regional autonomy is placed entirely for regency/city, and delegation of authority of regional autonomy to regency/city is based on extensive, real and responsible decentralization principle.

The achievement of this purpose would be determined by the **capability level of districts** as the one of governmental units nearest to community that provide public services, implement the development and improvement of democracy. Formation of district is aimed to create effectiveness in administration of government, public service, development and democratization. For this purpose, it is **required to measure and evaluate** the potential of the district as the basis of whether it is adequate or not for formation of new district [9].

Potentials which are considered reliable for formation of district and measurable and evaluable in 21 (twenty one) variables are demography, *orbitasi* (distance from administrative capital), education, health, religion, sport facilities, transportation, communication, public lighting, politics, public security and order, agriculture, fishery, livestock, mining, employment, sociocultural, social economy, social condition and administrative aspect. Result of evaluation is **particular total score** of potential capability level which serve as **basis for evaluation** of whether a district is **adequate** or not for formation. Evaluation of potential capability level for formation of district is evaluation of potential of **the parent district and the plan for formation of district. Result of evaluation** can be categorized into 3 (three) levels, namely high, adequate, and low. Result of evaluation serves as **recommendation for policy** as follows:

If parent district and formed district have **high potential**, action to be taken is to **recommend the formation of district**;

1) If parent district and formed district have **adequate potential**, action to be taken is to do formation of district followed by **development of potential within certain period of time such as minimum 3 or 5 years for evaluation**. If they fail to meet the requirements within the period of time, it is recommended to be re-merged with parent district.

2) If both or either of governmental units have/has **low potential**, action to be taken is to postpone the formation of district. For districts of low potential, it is recommended to implement **improvement of potential into adequate category, and after having adequate potential, development of potential is held to be proper for formation of district**. However, if potential of the district is extremely low, it is not qualified for formation of district.

In addition, establishment of district should also consider public aspiration. If result of survey indicates that more than 50% of people demand for establish-

ment of new district, then it is qualified for formation. Likewise, if result of survey on public services indicates that more than 50% respond that the public services are poor or low quality, then it is qualified for formation. Below (Figure 1) is shown the picture of theoretical framework.

4. Research Method

Operational definition of variables in the study of Formation of District in Sarolangun Regency is limited according to developmental space and regional reordering which format is elaborated in GR No. 19 of 2008 on District, GR No. 78 of 2007 on Procedure for Establishment, Elimination and Merging of Regions and Law No. 23 of 2014 on Local Government and also DGR in lieu of GR No. 19 of 2008. Seeing the plan for Formation of District at Sarolangun Regency which begins from reordering and development at the level of Village/Sub-District (formation of Village/Sub-district), there are 19 factors made as variable of research as follows (Table 1):

Data processing techniques in this study of formation of district in Sarolangun Regency are divided into three stages of regional development and reordering, namely:

1) Qualitative data is analyzed by content and depth approach, translating a phenomenon on 19 (nineteen) variables. How to accommodate the qualitative analysis is by stimulating various inclinations of qualitative responses from respondents on those phenomena.

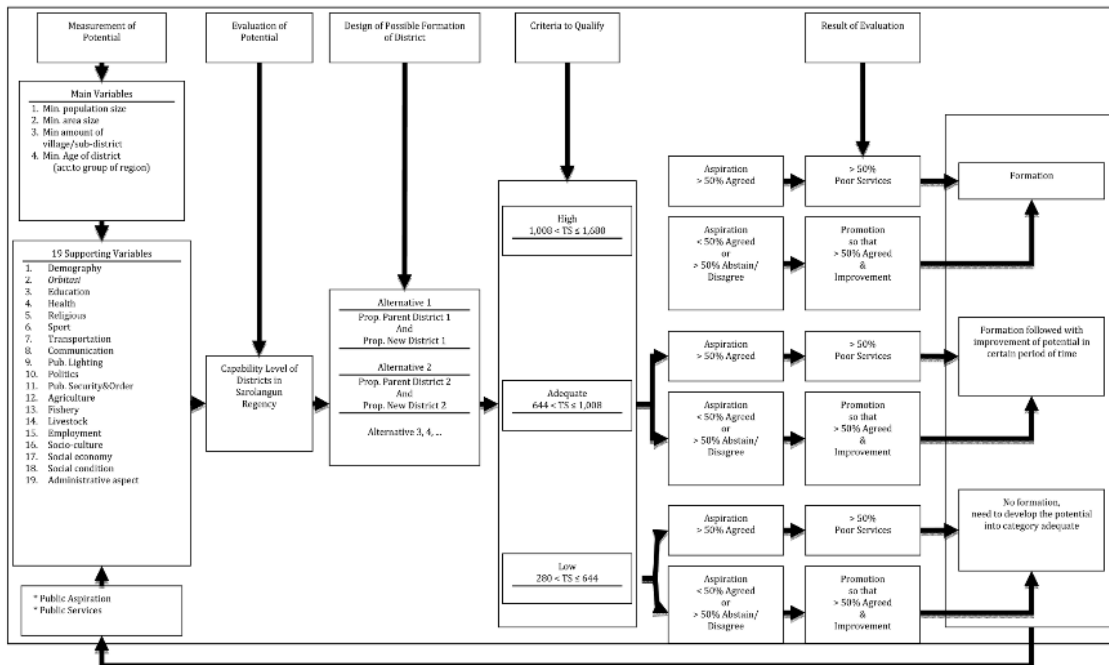


Figure 1. Theoretical framework for formation of Sarolangun District.

Table 1. Formation of district.

| No | Factors and Indicators |
|------------|---|
| 1. | Demography |
| | 1. Population Size |
| | 2. Number of Household |
| | 3. Area Size. |
| | 4. Number of Community Unit |
| | 5. Number of Head of Family |
| | 6. Population Density |
| 2. | Orbitasi |
| | 1. Traveling Distance from Village/Sub-district to District |
| | 2. Traveling Time from Village/Sub-district to District |
| 3. | Education |
| | 1. Number of educational facilities |
| | 2. Illiteracy rate |
| | 3. Dropout rate |
| | 4. General education graduation rate |
| | 5. Index of vocational institutions |
| 4. | Health |
| | 1. Number of health facilities, medics, infant and child mortality rate |
| | 2. Baby and child immunization participation rate |
| | 3. Child malnutrition index |
| | 4. Ratio of family toilet to household |
| | 5. Ratio of pre-prosperous family to population |
| | 6. Ratio of drinking water facilities to population |
| | 7. Index of house condition |
| 5. | Religion |
| | 1. Number of religious facilities |
| 6. | Sport Facilities |
| | 1. Index comparison between sport facilities and population size |
| 7. | Transportation |
| | 1. Index of transportation facilities |
| 8. | Communication |
| | 1. Index of communication facilities |
| 9. | Public Lighting |
| | 1. Number of electricity consumers |
| | 2. Number of other public lighting |
| 10. | Political Awareness |
| | 1. Number of voting rights |
| | 2. Number of voters |
| | 3. Number of Political Parties |

Continued

4. Number of NGOs/other society organizations

11. Public Security and Order

1. Number of security facilities
2. Number of security personnel

12. Agriculture

1. Index comparison of area size, yield, and ownership of plantation of non-rice crops, vegetables, fruits and rice fields.
2. Number of groups of farmers, irrigation managers, and rice field and plantation facilities.

13. Fishery

1. Aquacultural area size
2. Fishery yield and ownership

14. Livestock

1. Large and mid-sized livestock
2. Poultry

15. Employment

1. Number employed population
2. Number of job-seeking population
3. Number of unemployed population
4. Number of large, medium, and small enterprises
5. Number of agricultural companies

16. Socio-culture

1. Number of art facilities
2. Number of orphanages
3. Number of tourism facilities

17. Social Economy

1. Shopping facilities
2. Banking Institution
3. Non-Bank Financial Institution

18. Social Condition

1. Number of people with physical disabilities
2. Number of troubled people who become burden of government

19. Administrative Aspect

1. Land and Property Tax
 2. Village Locally Generated Revenue
 3. Other Sub-district Revenue
 4. Number of Sub-district Apparatus, *BPD* and *KPD*
 5. Decision of Sub-district
 6. Regulation of Sub-district
-

2) By list of open-end structured questions, complemented with compilation of in-depth interviews and field observation, the variables are compiled into structured file. However, some of the qualitative data are renovated into quantitative data through non-parametric process. Quantitative data is categorized, classified and processed as basis for **measurement and analysis to provide clarity and valuation** on strength and weakness of the variables.

3) Category of valuation on monograph of Village/Sub-district is based on **certain scale** and defined according to **very high, high, adequate, low and very low classifications** based on representative particular total score. Each category of valuation serves as basis for action taken whether or not to implement the formation of district and exploitation of its potential.

Evaluation method is determined by **distribution method** using mean to account for data distribution. Score calculation with this method is adjusted by skewness and kurtosis of data distribution curve. Each sub-indicator has the lowest score of 1 and highest score of 6. For scoring, the steps are:

- 1) Calculate mean, standard deviation, and coefficient of kurtosis/skewness.
- 2) Calculate limit 2 (value $2 \times$ kurtosis/skewness \times standard deviation), and limit 1 (value $1 \times$ kurtosis \times standard deviation) and;
- 3) Determine **index class** for scoring:
 - a) If indicator value $>$ mean + limit 2, the score is 6
 - b) If mean + limit 2 \leq indicator value $<$ mean + limit 1, the score is 5;
 - c) If mean + limit 1 \leq indicator value $<$ mean, the score is 4;
 - d) If mean \leq indicator value $<$ mean – limit 1, the score is 3;
 - e) If mean – limit 1 \leq indicator value $<$ mean – limit 2, the score is 2;
 - f) If indicator value \leq mean – limit 2, the score is 1;

Assumption used in **valuing** is every variable or criteria has distinctive value according to its role and urgency in the administration of government, development and social. Value for basic services such as health and education are 11, for communication facilities, transportation, social economy and public lighting are 7, for demography, socio-culture, politics, *orbitasi*, dan agriculture are 5, for employment, administrative aspect, religious facilities, sport facilities, public security and order, livestock and fishery are 3, for social condition is 2, and for forestry and mining are 1. *Minimum passing score is accumulated total score of sub-indicators in each variable/group of criteria multiplied by score above average for each variable or group of criteria multiplied by value for each group of indicators.* Calculation of minimum and maximum total score of each and every variable can be seen in Table as follows (**Table 2**).

A district is qualified for formation if reaching minimum score of 1680 or high potential, **minimum passing score** is total of sub-indicators in each variable/group of criteria multiplied by score above average for each variable or group of criteria multiplied by value for each group of indicators. **Assumption** used is score above average for each variable is 3.6 between interval 1 to 6. For more elaboration, see **Table 3**.

Table 2. Maximum and minimum score of variables.

| No | VARIABLE | NUMBER OF INDICATOR | VALUE | MINIMUM SCORE | MAXIMUM SCORE | TOTAL MIN SCORE | TOTAL MAX SCORE |
|--------------|---------------------------|---------------------|-------|---------------|---------------|-----------------|-----------------|
| 1 | DEMOGRAPHY | 3 | 5 | 1 | 6 | 15 | 90 |
| 2 | ORBITASI | 2 | 5 | 1 | 6 | 10 | 60 |
| 3 | EDUCATION | 4 | 11 | 1 | 6 | 44 | 264 |
| 4 | HEALTH | 5 | 11 | 1 | 6 | 55 | 330 |
| 5 | RELIGIOUS | 1 | 3 | 1 | 6 | 3 | 18 |
| 6 | SPORT | 1 | 3 | 1 | 6 | 3 | 18 |
| 7 | TRANSPORTATION | 1 | 7 | 1 | 6 | 7 | 42 |
| 8 | COMMUNICATION | 1 | 7 | 1 | 6 | 7 | 42 |
| 9 | PUBLIC LIGHTING | 2 | 7 | 1 | 6 | 14 | 84 |
| 10 | POLITICAL AWARENESS | 3 | 5 | 1 | 6 | 15 | 90 |
| 11 | PUBLIC SECURITY AND ORDER | 2 | 3 | 1 | 6 | 6 | 36 |
| 12 | AGRICULTURE | 2 | 5 | 1 | 6 | 10 | 60 |
| 13 | FISHERY | 2 | 3 | 1 | 6 | 6 | 36 |
| 14 | LIVESTOCK | 2 | 3 | 1 | 6 | 6 | 36 |
| 15 | EMPLOYMENT | 3 | 3 | 1 | 6 | 9 | 54 |
| 16 | SOCIO-CULTURE | 3 | 5 | 1 | 6 | 15 | 90 |
| 17 | SOCIAL ECONOMY | 3 | 7 | 1 | 6 | 21 | 126 |
| 18 | SOCIAL CONDITION | 2 | 2 | 1 | 6 | 4 | 24 |
| 19 | ADMINISTRATIVE ASPECT | 6 | 5 | 1 | 6 | 30 | 180 |
| TOTAL | | | | | | 280 | 1.680 |

According to table above, it is seen that **score above average is 1008**. It means that a district is declared to **be qualified** for establishment of new district if the score from measurement is equal to or greater than **1008**. On that basis, category for evaluation on potential of district in administration of government, development and social can be defined as shown in **Table 4**.

5. Result

Based on result of field study, several things can be described as follows:

5.1. Regional Potential of All Districts and Villages in Sarolangun Regency

Result of evaluation and measurement on potential of districts and villages in each district in Sarolangun Regency can be seen as follows (**Table 5**):

1) Potential of Districts in Sarolangun Regency

Based on table above, there are 5 districts in category of proper for formation,

Table 3. Score above average with score 3.6 with category of adequate potential.

| No | VARIABLE | NUMBER OF INDICATOR | VALUE | SCORE ABOVE AVERAGE | TOTAL SCORE |
|--------------|---------------------------|---------------------|-------|---------------------|-------------|
| 1 | DEMOGRAPHY | 3 | 5 | 3.6 | 54 |
| 2 | ORBITASI | 2 | 5 | 3.6 | 36 |
| 3 | EDUCATION | 4 | 11 | 3.6 | 158 |
| 4 | HEALTH | 5 | 11 | 3.6 | 198 |
| 5 | RELIGIOUS | 1 | 3 | 3.6 | 11 |
| 6 | SPORT | 1 | 3 | 3.6 | 11 |
| 7 | TRANSPORTATION | 1 | 7 | 3.6 | 25 |
| 8 | COMMUNICATION | 1 | 7 | 3.6 | 25 |
| 9 | PUBLIC LIGHTING | 2 | 7 | 3.6 | 50 |
| 10 | POLITICAL AWARENESS | 3 | 5 | 3.6 | 54 |
| 11 | PUBLIC SECURITY AND ORDER | 2 | 3 | 3.6 | 22 |
| 12 | AGRICULTURE | 2 | 5 | 3.6 | 36 |
| 13 | FISHERY | 2 | 3 | 3.6 | 22 |
| 14 | LIVESTOCK | 2 | 3 | 3.6 | 22 |
| 15 | EMPLOYMENT | 3 | 3 | 3.6 | 32 |
| 16 | SOCIO-CULTURE | 3 | 5 | 3.6 | 54 |
| 17 | SOCIAL ECONOMY | 3 | 7 | 3.6 | 76 |
| 18 | SOCIAL CONDITION | 2 | 2 | 3.6 | 14 |
| 19 | ADMINISTRATIVE ASPECT | 6 | 5 | 3.6 | 108 |
| TOTAL | | | | | 1008 |

Table 4. Category of action taken.

| NO | VARIABLE | INTERVAL OF TOTAL SCORE | VALUE |
|----|--------------------|-------------------------|--|
| 1 | High Potential | $1008 \leq TS < 1680$ | Qualified for formation |
| 2 | Adequate Potential | $644 \leq TS < 1008$ | Qualified for formation followed by improvement of potential within certain period of time |
| 3 | Low Potential | $280 \leq TS < 644$ | Unqualified for formation |

namely Batang Asai, Pelawan, Singkut, Sarolangun and Mandiangin. As for category of fairly proper for formation, there are 5 districts, namely Limun, Cernin Nan Gedang, Batin VIII, Pauh and Air Hitam. District with minimum score is Pauh by 807. District with maximum score is Mandiangin by 1171. Difference of regional potential of district between the highest and the lowest score is 364 or 45% of the lowest regional potential of district. For more complete comparison of potential per district between the highest and the lowest potential, the result can be shown as follows (**Table 6**).

Table 5. Recapitulation of potential of districts in Sarolangun regency.

| NO | REGENCY | DISTRICT | TOTAL SCORE | SCORE INTERVAL | CATEGORY |
|----------------------------|------------|-------------------|-------------|-----------------------|---------------|
| 1 | Sarolangun | Batang Asai | 1012 | $1008 \leq TS < 1680$ | Proper |
| 2 | | Limun | 980 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Cermin Nan Gedang | 832 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Pelawan | 1116 | $1008 \leq TS < 1680$ | Proper |
| 5 | | Singkut | 1032 | $1008 \leq TS < 1680$ | Proper |
| 6 | | Sarolangun | 1072 | $1008 \leq TS < 1680$ | Proper |
| 7 | | Batin VIII | 896 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Pauh | 807 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Air Hitam | 921 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Mandiingin | 1171 | $1008 \leq TS < 1680$ | Proper |
| TOTAL | | | 9839 | | |
| AVERAGE | | | 984 | | |
| TOTAL MINIMUM SCORE | | | 807 | | |
| TOTAL MAXIMUM SCORE | | | 1171 | | |

Source: Data Processing, 2017.

Table 6. Comparison of potential of districts in Sarolangun regency.

| NO | REGENCY | DISTRICT | TOTAL SCORE | DIFFERENCE | PERCENTAGE | NOMINATED DISTRICT |
|------------------------|------------|-------------------|-------------|------------|------------|--------------------|
| 1 | Sarolangun | Batang Asai | 1012 | 205 | 25 | 2 |
| 2 | | Limun | 980 | 173 | 21 | 1 |
| 3 | | Cermin Nan Gedang | 832 | 25 | 3 | 1 |
| 4 | | Pelawan | 1116 | 309 | 38 | 2 |
| 5 | | Singkut | 1032 | 225 | 28 | 2 |
| 6 | | Sarolangun | 1072 | 265 | 33 | 2 |
| 7 | | Batin VIII | 896 | 89 | 11 | 1 |
| 8 | | Pauh | 807 | 0 | 0 | 1 |
| 9 | | Air Hitam | 921 | 114 | 14 | 1 |
| 10 | | Mandiingin | 1171 | 364 | 45 | 2 |
| Total Formation | | | | | | 15 |

Source: Data Processing, 2017.

District with potential of equal to or greater than the lowest regional potential of district by 30% can be said as having great potential for formation. Based on table above, the result shows that from **10 (ten)** districts available, there are **15 (fifteen)** nominated districts if formation to be implemented. Qualified districts with better potential for formation are Batang Asai, Pelawan, Singkut, Sarolan-

gun and Mandiangin. With 5 (five) districts qualified for formation, each into parent district and newly formed district, the number of district will be from 10 into 15 districts.

2) Potential of Villages in each District in Sarolangun Regency

Based on result of analysis above (Table 7), by the mapping of villages in Sarolangun Regency, there are 38 (thirty-eight) villages in the category of proper for formation and 120 (one hundred and twenty) villages in the category of fairly proper for formation. Village with minimum score is Sungai Bemban village, Batang Asai district, by 835. And village with maximum score is Payo Lebar village, Singkut district, by 1140. Difference of regional potential of villages in Sarolangun Regency between the highest and the lowest score is 305 or 37% of the lowest regional potential of village. For more complete comparison of potential per village in Sarolangun Regency between the highest and the lowest potential, the result can be shown as follows (Table 8).

Villages in Sarolangun Regency with potential of equal to or greater than the lowest regional potential of village by 30% can be said as having great potential for formation. Based on table above, the result shows that from 158 (one hundred and fifty-eight) villages in Sarolangun Regency, there are 196 (one hundred and ninety-six) nominated villages can be formed if formation to be implemented. Qualified villages with better potential for formation are shown in table below.

5.2. Formation of Batang Asai District and Mandiangin District

Based on analysis result of evaluation and measurement on potential of districts and villages in each district in Sarolangun Regency, Sarolangun Regency Government shall implement formation of 2 (two) districts, namely Batang Asai and Mandiangin, because only those 2 (two) districts are qualified in terms of having minimum 10 villages/sub-districts. Below is the explanation:

1) Formation of Batang Asai District and Mandiangin District based on Aspect of Regional Potential

a) Formation of Batang Asai District

Potential of villages in Batang Asai district, Sarolangun Regency based on result of study on regional potential of Batang Asai district, Sarolangun Regency by scoring on 19 (nineteen) variables (attached), with category of proper, fairly proper or improper for formation are shown in table as follows (Table 9).

Based on result of analysis above, by the mapping of villages in Batang Asai District, Sarolangun Regency, there are 6 (six) villages in the category of proper for formation and 17 (seventeen) villages in the category of fairly proper for formation. In terms of formation of Batang Asai District, there are 3 (three) alternatives of formation of Batang Asai District:

1) Alternative 1 of Formation of Batang Asai District

Mapping of villages in Batang Asai District in alternative 1 is the formed district with nominated villages of Batin Pengambang, Tambak Ratu, Muara Air

Table 7. Potential of villages in whole Sarolangun regency.

| NO | DISTRICT | VILLAGE | TOTAL SCORE | SCORE INTERVAL | CATEGORY |
|----|-------------|-------------------|-------------|-----------------------|---------------|
| 1 | | Pekan Gedang | 1041 | $1008 \leq TS < 1680$ | Proper |
| 2 | | Bukit Kalimau Ulu | 868 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Raden Anom | 1011 | $1008 \leq TS < 1680$ | Proper |
| 4 | | Pulau Salak Baru | 857 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Rantau Panjang | 947 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Padang Jering | 843 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Kasiro | 939 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Kasiro Ilir | 847 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Datuk Nan Duo | 941 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Sungai Baung | 901 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Sungai Bemban | 835 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | Batang Asai | Lubuk Bangkar | 859 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Muara Pemuat | 862 | $644 \leq TS < 1008$ | Fairly Proper |
| 14 | | Muara Cuban | 872 | $644 \leq TS < 1008$ | Fairly Proper |
| 15 | | Batu Empang | 1009 | $1008 \leq TS < 1680$ | Proper |
| 16 | | Bathin Pengambang | 1014 | $1008 \leq TS < 1680$ | Proper |
| 17 | | Tambak Ratu | 1028 | $1008 \leq TS < 1680$ | Proper |
| 18 | | Muara Air Dua | 1018 | $1008 \leq TS < 1680$ | Proper |
| 19 | | Simpang Narso | 877 | $644 \leq TS < 1008$ | Fairly Proper |
| 20 | | Sungai Keradak | 893 | $644 \leq TS < 1008$ | Fairly Proper |
| 21 | | Bukit Sulah | 907 | $644 \leq TS < 1008$ | Fairly Proper |
| 22 | | Paniban Baru | 883 | $644 \leq TS < 1008$ | Fairly Proper |
| 23 | | Bukit Berantai | 884 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Mersip | 964 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Berkun | 918 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Lubuk Bedorong | 890 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Meribung | 862 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Napal Melintang | 898 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Panca Karya | 947 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | Limun | Demang | 932 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Ranggo | 923 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Muara Mensao | 990 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Tanjung Raden | 889 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Temenggung | 915 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | | Mounti | 932 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Pulau Pandan | 974 | $644 \leq TS < 1008$ | Fairly Proper |

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| | | | | | |
|----|-------------------|------------------|------|-----------------------|---------------|
| 14 | | Muara Limun | 1022 | $1008 \leq TS < 1680$ | Proper |
| 15 | | Suka Damai | 859 | $644 \leq TS < 1008$ | Fairly Proper |
| 16 | | Temalang | 960 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Lubuk Resam | 1016 | $1008 \leq TS < 1680$ | Proper |
| 2 | | Lubuk Resam Ilir | 983 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Tendah | 895 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Teluk Rendah | 930 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Teluk Tigo | 974 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | Cermin Nan Gedang | Sungai Keramat | 957 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Kampung Tujuh | 961 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Pemuncak | 874 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Tambang Tinggi | 986 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Sekamis | 884 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Pematang Kolim | 1052 | $1008 \leq TS < 1680$ | Proper |
| 2 | | Batu Putih | 1070 | $1008 \leq TS < 1680$ | Proper |
| 3 | | Pelawan | 950 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Sungai Merah | 1042 | $1008 \leq TS < 1680$ | Proper |
| 5 | | Penengah | 1040 | $1008 \leq TS < 1680$ | Proper |
| 6 | | Pulau Aro | 1024 | $1008 \leq TS < 1680$ | Proper |
| 7 | | Bukit | 959 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | Pelawan | Lubuk Sepuh | 1120 | $1008 \leq TS < 1680$ | Proper |
| 9 | | Muara Danau | 986 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Rantau Tenang | 935 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Mekarsari | 1046 | $1008 \leq TS < 1680$ | Proper |
| 12 | | Pasar Pelawan | 985 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Pelawan Jaya | 1042 | $1008 \leq TS < 1680$ | Proper |
| 14 | | Lubuk Sayak | 921 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Perdamaian | 955 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Sungai Gedang | 1002 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Sungai Benteng | 1012 | $1008 \leq TS < 1680$ | Proper |
| 4 | | Bukit Murau | 1064 | $1008 \leq TS < 1680$ | Proper |
| 5 | | Pasar Singkut | 1093 | $1008 \leq TS < 1680$ | Proper |
| 6 | Singkut | Bukit Tigo | 874 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Payo Lebar | 1140 | $1008 \leq TS < 1680$ | Proper |
| 8 | | Simpang Nibung | 885 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Siliwangi | 1029 | $1008 \leq TS < 1680$ | Proper |
| 10 | | Bukit Talang Mas | 1001 | $644 \leq TS < 1008$ | Fairly Proper |

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| | | | | | |
|----|------------|--------------------|------|-----------------------|---------------|
| 11 | | Bukit Bumi Raya | 1028 | $1008 \leq TS < 1680$ | Proper |
| 12 | | Sindang Sari | 1003 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Argo Sari | 982 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Tinting | 987 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Sungai Baung | 894 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Panti | 998 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Sungai Abang | 889 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Bernai | 1027 | $1008 \leq TS < 1680$ | Proper |
| 6 | | Dusun Sarolangun | 1002 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Pasar Sarolangun | 859 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Sukasari | 950 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | Sarolangun | Sarolangun Kembang | 1017 | $1008 \leq TS < 1680$ | Proper |
| 10 | | Ladang Panjang | 979 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Lidung | 966 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | | Baru | 880 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Aur Gading | 1118 | $1008 \leq TS < 1680$ | Proper |
| 14 | | Gunung Kembang | 1055 | $1008 \leq TS < 1680$ | Proper |
| 15 | | Ujung Tanjung | 982 | $644 \leq TS < 1008$ | Fairly Proper |
| 16 | | Bernai Dalam | 978 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Tanjung Gagak | 926 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Rantau Gedang | 971 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | PulaBuayo | 952 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Batu Penyabung | 881 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Teluk Kecimbung | 900 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Dusun Dalam | 959 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Pulau Lintang | 953 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | Batin VIII | Penarun | 954 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Pulau Melako | 855 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Tanjung | 1017 | $1008 \leq TS < 1680$ | Proper |
| 11 | | Limbur Tembesi | 971 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | | Bangun Jayo | 978 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Muara Lati | 917 | $644 \leq TS < 1008$ | Fairly Proper |
| 14 | | Teluk Mancur | 870 | $644 \leq TS < 1008$ | Fairly Proper |
| 15 | | Suka Jadi | 957 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Seko Besar | 904 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | Pauh | Taman Bandung | 940 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Sepintun | 872 | $644 \leq TS < 1008$ | Fairly Proper |

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| | | | | | |
|----|------------|--------------------|------|-----------------------|---------------|
| 4 | | Lamban Sigatal | 869 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Lubuk Napal | 953 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Pengidaran | 984 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Karang Mendapo | 1034 | $1008 \leq TS < 1680$ | Proper |
| 8 | | Batu Ampar | 910 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Batu Kucing | 846 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Pauh | 990 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Semaran | 1011 | $1008 \leq TS < 1680$ | Proper |
| 12 | | Kasang Melintang | 849 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Pangkal Bulian | 848 | $644 \leq TS < 1008$ | Fairly Proper |
| 14 | | Danau Serdang | 862 | $644 \leq TS < 1008$ | Fairly Proper |
| 1 | | Lubuk Kepayang | 880 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Desa Baru | 1007 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Semurung | 995 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Jernih | 927 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | Air Hitam | Lubuk Jering | 970 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Mentawak Baru | 1079 | $1008 \leq TS < 1680$ | Proper |
| 7 | | Pematang Kabau | 1069 | $1008 \leq TS < 1680$ | Proper |
| 8 | | Bukit Suban | 987 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Mentawak Ulu | 1013 | $1008 \leq TS < 1680$ | Proper |
| 1 | | Mandiingin Tuo | 874 | $644 \leq TS < 1008$ | Fairly Proper |
| 2 | | Mandiingin | 958 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Taman Dewa | 999 | $644 \leq TS < 1008$ | Fairly Proper |
| 4 | | Simpang Kertopati | 878 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Rangkiling | 861 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Rangkiling Simpang | 913 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Gurun Tuo | 878 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Gurun Tuo Simpang | 913 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | Mandiingin | Kertopati | 861 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Pemusiran | 982 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Gurun Mudo | 887 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | | Bukit Peranginan | 1019 | $1008 \leq TS < 1680$ | Proper |
| 13 | | Muaro Ketalo | 969 | $644 \leq TS < 1008$ | Fairly Proper |
| 14 | | Guruh Baru | 954 | $644 \leq TS < 1008$ | Fairly Proper |
| 15 | | Petiduran Baru | 970 | $644 \leq TS < 1008$ | Fairly Proper |
| 16 | | Butang Baru | 1047 | $1008 \leq TS < 1680$ | Proper |
| 17 | | Meranti Baru | 1023 | $1008 \leq TS < 1680$ | Proper |

Continued

| | | | | |
|----------------------------|------------------|----------------|-----------------------|---------------|
| 18 | Jati Baru | 997 | $644 \leq TS < 1008$ | Fairly Proper |
| 19 | Sungai Butang | 1019 | $1008 \leq TS < 1680$ | Proper |
| 20 | Talang Serdang | 959 | $644 \leq TS < 1008$ | Fairly Proper |
| 21 | Mandiingin Pasar | 1063 | $1008 \leq TS < 1680$ | Proper |
| 22 | Kute Jaye | 894 | $644 \leq TS < 1008$ | Fairly Proper |
| 23 | Sungai Rotan | 911 | $644 \leq TS < 1008$ | Fairly Proper |
| 24 | Suka Maju | 1012 | $1008 \leq TS < 1680$ | Proper |
| 25 | Gurun Baru | 854 | $644 \leq TS < 1008$ | Fairly Proper |
| 26 | Jati Baru Mudo | 979 | $644 \leq TS < 1008$ | Fairly Proper |
| 27 | Meranti Jaya | 1000 | $644 \leq TS < 1008$ | Fairly Proper |
| 28 | Jernang Baru | 976 | $644 \leq TS < 1008$ | Fairly Proper |
| TOTAL | | 150,802 | | |
| AVERAGE | | 954 | | |
| TOTAL MINIMUM SCORE | | 835 | | |
| TOTAL MAXIMUM SCORE | | 1140 | | |

Source: Data Processing, 2017.

Table 8. Comparison potential of villages in Sarolangun regency.

| NO | DISTRICT | VILLAGE | SCORE | DIFFERENCE | PERCENTAGE | NOMINATED VILLAGE |
|----|-------------|-------------------|-------|------------|------------|-------------------|
| 1 | | Pekan Gedang | 1041 | 206 | 25 | 2 |
| 2 | | Bukit Kalimau Ulu | 868 | 33 | 4 | 1 |
| 3 | | Raden Anom | 1011 | 176 | 21 | 2 |
| 4 | | Pulau Salak Baru | 857 | 22 | 3 | 1 |
| 5 | | Rantau Panjang | 947 | 112 | 13 | 1 |
| 6 | | Padang Jering | 843 | 8 | 1 | 1 |
| 7 | | Kasiro | 939 | 104 | 12 | 1 |
| 8 | | Kasiro Ilir | 847 | 12 | 1 | 1 |
| 9 | Batang Asai | Datuk Nan Duo | 941 | 106 | 13 | 1 |
| 10 | | Sungai Baung | 901 | 66 | 8 | 1 |
| 11 | | Sungai Bemban | 835 | - | - | 1 |
| 12 | | Lubuk Bangkar | 859 | 24 | 3 | 1 |
| 13 | | Muara Pemuat | 862 | 27 | 3 | 1 |
| 14 | | Muara Cuban | 872 | 37 | 4 | 1 |
| 15 | | Batu Empang | 1009 | 174 | 21 | 2 |
| 16 | | Bathin Pengambang | 1014 | 179 | 21 | 2 |
| 17 | | Tambak Ratu | 1028 | 193 | 23 | 2 |
| 18 | | Muara Air Dua | 1018 | 183 | 22 | 2 |

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| | | | | | | |
|----|---------|------------------|------|-----|----|---|
| 19 | | Simpang Narso | 877 | 42 | 5 | 1 |
| 20 | | Sungai Keradak | 893 | 58 | 7 | 1 |
| 21 | | Bukit Sulah | 907 | 72 | 9 | 1 |
| 22 | | Paniban Baru | 883 | 48 | 6 | 1 |
| 23 | | Bukit Berantai | 884 | 49 | 6 | 1 |
| 1 | | Mersip | 964 | 105 | 12 | 1 |
| 2 | | Berkun | 918 | 59 | 7 | 1 |
| 3 | | Lubuk Bedorong | 890 | 31 | 4 | 1 |
| 4 | | Meribung | 862 | 3 | 0 | 1 |
| 5 | | Napal Melintang | 898 | 39 | 5 | 1 |
| 6 | | Panca Karya | 947 | 88 | 10 | 1 |
| 7 | | Demang | 932 | 73 | 8 | 1 |
| 8 | | Rango | 923 | 64 | 7 | 1 |
| 9 | Limun | Muara Mensao | 990 | 131 | 15 | 1 |
| 10 | | Tanjung Raden | 889 | 30 | 3 | 1 |
| 11 | | Temenggung | 915 | 56 | 7 | 1 |
| 12 | | Mounti | 932 | 73 | 8 | 1 |
| 13 | | Pulau Pandan | 974 | 115 | 13 | 1 |
| 14 | | Muara Limun | 1022 | 163 | 19 | 2 |
| 15 | | Suka Damai | 859 | - | - | 1 |
| 16 | | Temalang | 960 | 101 | 12 | 1 |
| 1 | | Lubuk Resam | 1016 | 142 | 16 | 2 |
| 2 | | Lubuk Resam Ilir | 983 | 109 | 12 | 1 |
| 3 | | Tendah | 895 | 21 | 2 | 1 |
| 4 | | Teluk Rendah | 930 | 56 | 6 | 1 |
| 5 | Cermin | Teluk Tigo | 974 | 100 | 1 | 1 |
| 6 | Nan | Sungai Keramat | 957 | 83 | 9 | 1 |
| 7 | Gedang | Kampung Tujuh | 961 | 87 | 10 | 1 |
| 8 | | Pemuncak | 874 | - | - | 1 |
| 9 | | Tambang Tinggi | 986 | 112 | 13 | 1 |
| 10 | | Sekamis | 884 | 10 | 1 | 1 |
| 1 | | Pematang Kolim | 1052 | 131 | 14 | 2 |
| 2 | | Batu Putih | 1070 | 149 | 16 | 2 |
| 3 | | Pelawan | 950 | 29 | 3 | 1 |
| 4 | Pelawan | Sungai Merah | 1042 | 121 | 13 | 2 |
| 5 | | Penegah | 1040 | 119 | 13 | 2 |
| 6 | | Pulau Aro | 1024 | 103 | 11 | 2 |

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| | | | | | | |
|----|------------|--------------------|------|-----|----|---|
| 7 | 8 | Bukit | 959 | 38 | 4 | 1 |
| 8 | | Lubuk Sepuh | 1120 | 199 | 22 | 2 |
| 9 | | Muara Danau | 986 | 65 | 7 | 1 |
| 10 | | Rantau Tenang | 935 | 14 | 2 | 1 |
| 11 | | Mekarsari | 1046 | 125 | 14 | 2 |
| 12 | | Pasar Pelawan | 985 | 64 | 7 | 1 |
| 13 | | Pelawan Jaya | 1042 | 121 | 13 | 2 |
| 14 | | Lubuk Sayak | 921 | - | - | 1 |
| 1 | 8 | Perdamaian | 955 | 81 | 9 | 1 |
| 2 | | Sungai Gedang | 1002 | 128 | 15 | 1 |
| 3 | | Sungai Benteng | 1012 | 138 | 16 | 2 |
| 4 | | Bukit Murau | 1064 | 190 | 22 | 2 |
| 5 | | Pasar Singkut | 1093 | 219 | 25 | 2 |
| 6 | | Bukit Tigo | 874 | - | - | 1 |
| 7 | Singkut | Payo Lebar | 1140 | 266 | 30 | 2 |
| 8 | | Simpang Nibung | 885 | 11 | 1 | 1 |
| 9 | | Siliwangi | 1029 | 155 | 18 | 2 |
| 10 | | Bukit Talang Mas | 1001 | 127 | 15 | 1 |
| 11 | | Bukit Bumi Raya | 1028 | 154 | 18 | 2 |
| 12 | | Sindang Sari | 1003 | 129 | 15 | 1 |
| 13 | | Argo Sari | 982 | 108 | 12 | 1 |
| 1 | | Tinting | 987 | 128 | 15 | 1 |
| 2 | | Sungai Baung | 894 | 35 | 4 | 1 |
| 3 | | 2 Panti | 998 | 139 | 16 | 1 |
| 4 | | Sungai Abang | 889 | 30 | 3 | 1 |
| 5 | | Bernai | 1027 | 168 | 20 | 2 |
| 6 | | Dusun Sarolangun | 1002 | 143 | 17 | 1 |
| 7 | | Pasar Sarolangun | 859 | - | - | 1 |
| 8 | Sarolangun | Sukasari | 950 | 91 | 11 | 1 |
| 9 | | Sarolangun Kembang | 1017 | 158 | 18 | 2 |
| 10 | | Ladang Panjang | 979 | 120 | 14 | 1 |
| 11 | | Lidung | 966 | 107 | 12 | 1 |
| 12 | | Baru | 880 | 21 | 2 | 1 |
| 13 | | Aur Gading | 1118 | 259 | 30 | 2 |
| 14 | | Gunung Kembang | 1055 | 196 | 23 | 2 |
| 15 | | Ujung Tanjung | 982 | 123 | 14 | 1 |
| 16 | | Bernai Dalam | 978 | 119 | 14 | 1 |

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| | | | | | | |
|----|------------|------------------|------|-----|----|---|
| 1 | | Tanjung Gagak | 926 | 71 | 8 | 1 |
| 2 | | Rantau Gedang | 971 | 116 | 14 | 1 |
| 3 | | Pulau Buayo | 952 | 97 | 11 | 1 |
| 4 | | Batu Penyabung | 881 | 26 | 3 | 1 |
| 5 | | Teluk Kecimbang | 900 | 45 | 5 | 1 |
| 6 | | Dusun Dalam | 959 | 104 | 12 | 1 |
| 7 | | Pulau Lintang | 953 | 98 | 11 | 1 |
| 8 | Batin VIII | Penarun | 954 | 99 | 12 | 1 |
| 9 | | Pulau Melako | 855 | - | - | 1 |
| 10 | | Tanjung | 1017 | 162 | 19 | 2 |
| 11 | | Limbur Tembesi | 971 | 116 | 14 | 1 |
| 12 | | Bangun Jayo | 978 | 123 | 14 | 1 |
| 13 | | Muara Lati | 917 | 62 | 7 | 1 |
| 14 | | Teluk Mancur | 870 | 15 | 2 | 1 |
| 15 | | Suka Jadi | 957 | 102 | 12 | 1 |
| 1 | | Seko Besar | 904 | 58 | 7 | 1 |
| 2 | | Taman Bandung | 940 | 94 | 11 | 1 |
| 3 | | Sepintun | 872 | 26 | 3 | 1 |
| 4 | | Lamban Sigatal | 869 | 23 | 3 | 1 |
| 5 | | Lubuk Napal | 953 | 107 | 13 | 1 |
| 6 | | Pengidaran | 984 | 138 | 16 | 1 |
| 7 | Pauh | Karang Mendapo | 1034 | 188 | 22 | 2 |
| 8 | | Batu Ampar | 910 | 64 | 8 | 1 |
| 9 | | Batu Kucing | 846 | - | - | 1 |
| 10 | | Pauh | 990 | 144 | 17 | 1 |
| 11 | | Semaran | 1011 | 165 | 20 | 2 |
| 12 | | Kasang Melintang | 849 | 3 | 0 | 1 |
| 13 | | Pangkal Bulian | 848 | 2 | 0 | 1 |
| 14 | | Danau Serdang | 862 | 16 | 2 | 1 |
| 1 | | Lubuk Kepayang | 880 | - | - | 1 |
| 2 | | Desa Baru | 1007 | 127 | 14 | 1 |
| 3 | | Semurung | 995 | 115 | 13 | 1 |
| 4 | | Jernih | 927 | 47 | 5 | 1 |
| 5 | Air Hitam | Lubuk Jering | 970 | 90 | 10 | 1 |
| 6 | | Mentawak Baru | 1079 | 199 | 23 | 2 |
| 7 | | Pematang Kabau | 1069 | 189 | 21 | 2 |
| 8 | | Bukit Suban | 987 | 107 | 12 | 1 |
| 9 | | Mentawak Ulu | 1013 | 133 | 15 | 2 |

Continued

| | | | | | | |
|------------------------|--------------------|------------------|------|-----|------------|---|
| 1 | Mandiingin Tuo | 874 | 20 | 2 | 1 | |
| 2 | Mandiingin | 958 | 104 | 12 | 1 | |
| 3 | Taman Dewa | 999 | 145 | 17 | 1 | |
| 4 | Simpang Kertopati | 878 | 24 | 3 | 1 | |
| 5 | Rangkiling | 861 | 7 | 1 | 1 | |
| 6 | Rangkiling Simpang | 913 | 59 | 7 | 1 | |
| 7 | Gurun Tuo | 878 | 24 | 3 | 1 | |
| 8 | Gurun Tuo Simpang | 913 | 59 | 7 | 1 | |
| 9 | Kertopati | 861 | 7 | 1 | 1 | |
| 10 | Pemusiran | 982 | 128 | 15 | 1 | |
| 11 | Gurun Mudo | 887 | 33 | 4 | 1 | |
| 12 | Bukit Peranginan | 1019 | 165 | 19 | 2 | |
| 13 | Muaro Ketalo | 969 | 115 | 13 | 1 | |
| 14 | Mandiingin | Guruh Baru | 954 | 100 | 12 | 1 |
| 15 | | Petiduran Baru | 970 | 116 | 14 | 1 |
| 16 | | Butang Baru | 1047 | 193 | 23 | 2 |
| 17 | | Meranti Baru | 1023 | 169 | 20 | 2 |
| 18 | | Jati Baru | 997 | 143 | 17 | 1 |
| 19 | | Sungai Butang | 1019 | 165 | 19 | 2 |
| 20 | | Talang Serdang | 959 | 105 | 12 | 1 |
| 21 | | Mandiingin Pasar | 1063 | 209 | 24 | 2 |
| 22 | Kute Jaye | 894 | 40 | 5 | 1 | |
| 23 | Sungai Rotan | 911 | 57 | 7 | 1 | |
| 24 | Suka Maju | 1012 | 158 | 19 | 2 | |
| 25 | Gurun Baru | 854 | - | - | 1 | |
| 26 | Jati Baru Mudo | 979 | 125 | 15 | 1 | |
| 27 | Meranti Jaya | 1000 | 146 | 17 | 1 | |
| 28 | Jernang Baru | 976 | 122 | 14 | 1 | |
| Total Formation | | | | | 196 | |

Source: Data Processing, 2017.

Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, Batu Empang, Paniban Baru, Rantau Panjang, and Pulau Salak Ba² (Table 10). And parent district with nominated villages of Pekan Gedang, Bukit Kalimau Ulu, Raden Anom, Padang Jering, Kasiro, Kasiro Ilir, Datuk Nan Duo, Sungai Baung, Sungai Bemban, Lubuk Bangkar, Muara Pemuat, Muara Cuban, and Bukit Sulah. Mapping of villages in Batang Asai in alternative 1 can be pictured in map as follows (Figure 2).

Table 9. Potential of villages in Batang Asai district, Sarolangun regency.

| NO | DISTRICT | VILLAGE | TOTAL SCORE | SCORE INTERVAL | CATEGORY |
|----------------------------|-------------|-------------------|--------------|-----------------------|---------------|
| 1 | | Pekan Gedang | 1041 | $1008 \leq TS < 1680$ | Proper |
| 2 | | Bukit Kalimau Ulu | 868 | $644 \leq TS < 1008$ | Fairly Proper |
| 3 | | Raden Anom | 1011 | $1008 \leq TS < 1680$ | Proper |
| 4 | | Pulau Salak Baru | 857 | $644 \leq TS < 1008$ | Fairly Proper |
| 5 | | Rantau Panjang | 947 | $644 \leq TS < 1008$ | Fairly Proper |
| 6 | | Padang Jering | 843 | $644 \leq TS < 1008$ | Fairly Proper |
| 7 | | Kasiro | 939 | $644 \leq TS < 1008$ | Fairly Proper |
| 8 | | Kasiro Ilir | 847 | $644 \leq TS < 1008$ | Fairly Proper |
| 9 | | Datuk Nan Duo | 941 | $644 \leq TS < 1008$ | Fairly Proper |
| 10 | | Sungai Baung | 901 | $644 \leq TS < 1008$ | Fairly Proper |
| 11 | | Sungai Bemban | 835 | $644 \leq TS < 1008$ | Fairly Proper |
| 12 | Batang Asai | Lubuk Bangkar | 859 | $644 \leq TS < 1008$ | Fairly Proper |
| 13 | | Muara Pemuat | 862 | $644 \leq TS < 1008$ | Fairly Proper |
| 14 | | Muara Cuban | 872 | $644 \leq TS < 1008$ | Fairly Proper |
| 15 | | Batu Empang | 1009 | $1008 \leq TS < 1680$ | Proper |
| 16 | | Bathin Pengambang | 1014 | $1008 \leq TS < 1680$ | Proper |
| 17 | | Tambak Ratu | 1028 | $1008 \leq TS < 1680$ | Proper |
| 18 | | Muara Air Dua | 1018 | $1008 \leq TS < 1680$ | Proper |
| 19 | | Simpang Narso | 877 | $644 \leq TS < 1008$ | Fairly Proper |
| 20 | | Sungai Keradak | 893 | $644 \leq TS < 1008$ | Fairly Proper |
| 21 | | Bukit Sulah | 907 | $644 \leq TS < 1008$ | Fairly Proper |
| 22 | | Paniban Baru | 883 | $644 \leq TS < 1008$ | Fairly Proper |
| 23 | | Bukit Berantai | 884 | $644 \leq TS < 1008$ | Fairly Proper |
| TOTAL | | | 21136 | | |
| AVERAGE | | | 919 | | |
| TOTAL MINIMUM SCORE | | | 835 | | |
| TOTAL MAXIMUM SCORE | | | 1041 | | |

Source: Data Processing, 2017.

2) Alternative 2 of Formation of Batang Asai District

Mapping of villages in Batang Asai District in alternative 2 (Table 11) is the formed district with nominated villages of Batin Pengambang, Tambak Ratu, Muara Air Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, Batu Empang and Batu Empang. And parent district with nominated villages of Pekan Gedang, Bukit Kalimau Ulu, Raden Anom, Pulau Salak Baru, Rantau Panjang, Padang Jering, Kasiro, Kasiro Ilir, Datuk Nan Duo, Sungai Baung, Sungai Bemban,

Table 10. Mapping of villages in Batang Asai district.

| NO | ORMED DISTRICT | Nominated Village | Total Score | PARENT DISTRICT | Nominated Village Total Score |
|----|----------------|----------------------------|-------------|-----------------|-------------------------------|
| 1 | | Batin Pengambang | 1014 | | Pekan Gedang 1041 |
| 2 | | Tambak Ratu | 1028 | | Bukit Kalimau Ulu 868 |
| 3 | | Muara Air Dua | 1018 | | Raden Anom 1011 |
| 4 | | Sungai Keradak | 893 | | Padang Jering 843 |
| 5 | | Simpang Narso | 877 | | Kasiro 939 |
| 6 | | Bukit Berantai | 884 | | Kasiro Ilir 847 |
| 7 | | Batu Empang | 1009 | | Datuk Nan Duo 941 |
| 8 | | Paniban Baru | 883 | | Sungai Baung 901 |
| 9 | | Rantau Panjang | 947 | | Sungai Bemban 835 |
| 10 | | Pulau Salak Baru | 857 | | Lubuk Bangkar 859 |
| 11 | | | | | Muara Pemuat 862 |
| 12 | | | | | Muara Cuban 872 |
| 13 | | | | | Bukit Sulah 907 |
| | | TOTAL | 9,410 | | 11,726 |
| | | AVERAGE | 941 | | 902 |
| | | TOTAL MINIMUM SCORE | 857 | | 835 |
| | | TOTAL MAXIMUM SCORE | 1028 | | 1041 |

Source: Data Processing, 2017.

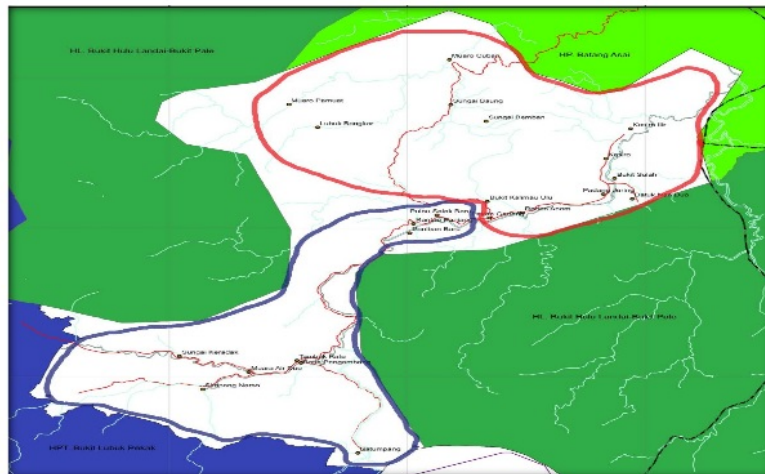


Figure 2. Mapping of Villages of Batang Asai district in alternative 1. Source: Data Processing, 2017.

2 Lubuk Bangkar, Muara Pemuat, Muara Cuban, Bukit Sulah, and Paniban Baru. Mapping of villages in Batang Asai in alternative 2 can be pictured in map as follows (**Figure 3**).

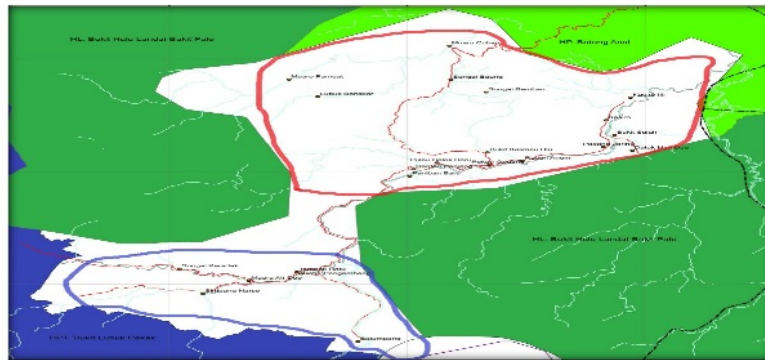


Figure 3. Mapping of Villages of Batang Asai District in Alternative 2 Source: Data Processing, 2017.

Table 11. Mapping of Villages in Batang Asai District Alternative 2.

| NO | FORMED DISTRICT | Nominated Village | Total Score | PARENT DISTRICT | Nominated Village | Total Score |
|----|-----------------|----------------------------|-------------|-----------------|-------------------|-------------|
| 1 | | Batin Pengambang | 1014 | | Pekan Gedang | 1041 |
| 2 | | Tambak Ratu | 1028 | | Bukit Kalimau Ulu | 868 |
| 3 | | Muara Air Dua | 1018 | | Raden Anom | 1011 |
| 4 | | Sungai Keradak | 893 | | Pulau Salak Baru | 857 |
| 5 | | Simpang Narso | 877 | | Rantau Panjang | 947 |
| 6 | | Bukit Berantai | 884 | | Padang Jering | 843 |
| 7 | | Batu Empang | 1009 | | Kasiro | 939 |
| 8 | | | | | Kasiro Ilir | 847 |
| 9 | | | | | Datuk Nan Duo | 941 |
| 10 | | | | | Sungai Baung | 901 |
| 11 | | | | | Sungai Bemban | 835 |
| 12 | | | | | Lubuk Bangkar | 859 |
| 13 | | | | | Muara Pemuat | 862 |
| 14 | | | | | Muara Cuban | 872 |
| 15 | | | | | Bukit Sulah | 907 |
| 16 | | | | | Paniban Baru | 883 |
| | | TOTAL | 6,723 | | | 14,413 |
| | | AVERAGE | 960 | | | 901 |
| | | TOTAL MINIMUM SCORE | 877 | | | 835 |
| | | TOTAL MAXIMUM SCORE | 1028 | | | 1041 |

Source: Data Processing, 2017.

3) Alternative 3 of Formation of Batang Asai District

Mapping of villages in Batang Asai District in alternative 3 (Table 12) is the formed district 1 with nominated villages of Batin Pengambang, Tambak Ratu,

Table 12. Mapping of villages in Batang Asai district alternative 3.

| NO FORMED | | | FORMED | | | PARENT | | |
|-----------|----------------------------|-------------|----------|-------------------|-------------|----------|-------------------|-------------|
| DISTRICT | Nominated Village | Total Score | DISTRICT | Nominated Village | Total Score | DISTRICT | Nominated Village | Total Score |
| 1 | | | 2 | | | | | |
| 1 | Batin | 1014 | | Sungai Baung | 901 | | Pekan Gedang | 1041 |
| 2 | Pengambang | | | Sungai Bemban | 835 | | Raden Anom | 1011 |
| 3 | Tambak Ratu | 1028 | | Lubuk Bangkar | 859 | | Pulau Salak Baru | 857 |
| 4 | Muara Air Dua | 1018 | | Muara Pemuat | 862 | | Rantau Panjang | 947 |
| 5 | Sungai Keradak | 893 | | Muara Cuban | 872 | | Padang Jering | 843 |
| 6 | Simpang Narso | 877 | | Bukit Kalimau Ulu | 868 | | Kasiro | 939 |
| 7 | Bukit Berantai | 884 | | | | | Kasiro Iilir | 847 |
| 8 | Batu Empang | 1009 | | | | | Datuk Nan Duo | 941 |
| 9 | | | | | | | Bukit Sulah | 907 |
| 10 | | | | | | | Paniban Baru | 883 |
| | TOTAL | 6723 | | | 5197 | | | 9216 |
| | AVERAGE | 960 | | | 866 | | | 922 |
| | TOTAL MINIMUM SCORE | 877 | | | 835 | | | 843 |
| | TOTAL MAXIMUM SCORE | 1028 | | | 901 | | | 1041 |

Source: Data Processing, 2017.

Muara Air Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, and Batu Empang. The formed district 2 with nominated villages of Sungai Baung, Sungai Bemban, Lubuk Bangkar, Muara Pemuat, Muara Cuban, and Kalimau Ulu. And parent district with nominated villages of Pekan Gedang, Raden Anom, Pulau Salak Baru, Rantau Panjang, Padang Jering, Kasiro, Kasiro Iilir, Datuk Nan Duo, Bukit Sulah and Paniban Baru. Mapping of villages in Batang Asai in alternative 3 can be pictured in map as follows (Figure 4).

Next, score difference between Formation of Batang Asai District in alternative 1, alternative 2 and alternative 3 is calculated.

Based on comparison (Table 13) of potential as shown in table above, it can be explained that in alternative 1, comparison between proposed parent district and proposed formed district is by -39, which means that proposed parent district has lower potential than proposed formed district. In alternative 2, comparison between proposed parent district and proposed formed district is by -59, which means that proposed parent district has lower potential than proposed formed district. In alternative 3, comparison between proposed parent district and proposed formed district 1 is by -38, which means that proposed parent district has lower potential than proposed formed district 1, and comparison

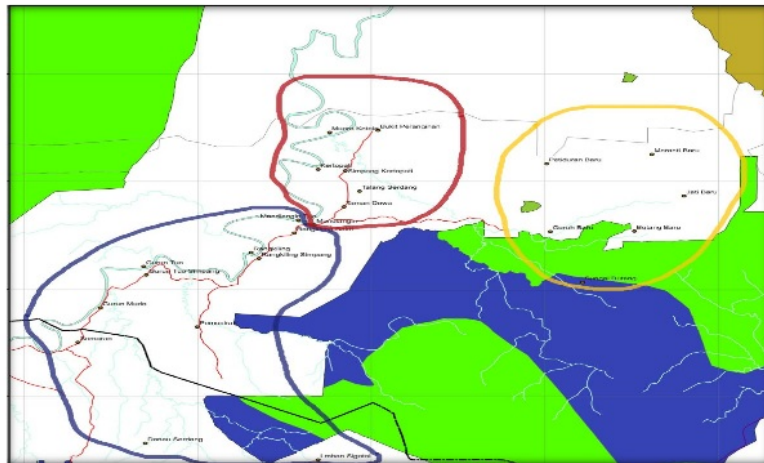


Figure 4. Mapping of Villages of Batang Asai District in Alternative 3. Source: Data Processing, 2017.

Table 13. Difference of mapping of villages in Batang Asai District.

| Mapping | Score Average | | | Difference |
|---------------|-----------------|-------------------|-------------------|------------|
| | Parent District | Formed District 1 | Formed District 2 | |
| Alternative 1 | 902 | 941 | | -39 |
| Alternative 2 | 901 | 960 | | -59 |
| Alternative 3 | 922 | 960 | 866 | -38 56 |

Source: Data Processing, 2017.

between proposed parent district and proposed formed district 2 is by 56, which means that parent district has higher potential than proposed formed district 2. Therefore, it is clear that alternative 3 is decided to be choice 1. This is based on consideration that formation according to division of governmental working area is relatively more balanced in terms of potential than formation by alternative 1 and alternative 2 regarding the 19 variables. Differences between parent district and proposed parent district and proposed formed district in alternative 3 are -38 and 56, while average distance in alternative 2 is -39 and in alternative 3 is -59. Therefore, it can be concluded that regional reordering by formation of Batang Asai District can be designed in 3 (three) best alternatives of regional reordering as follows:

Regional reordering by formation of Batang Asai District can be designed in 3 (three) best alternatives of regional reordering as follows:

4) Alternative 1 (score difference -39)

- ❖ Proposed parent district with average score of 902 consisting of 19 villages, namely Pekan Gedang, Bukit Kalimau Ulu, Raden Anom, Padang Jering, Ka-

siro, Kasiro Ilir, Datuk Nan Duo, Sungai Baung, Sungai Bemban, Lubuk Bangkar, Muara Pemuat, Muara Cuban, and Bukit Sulah.

- ❖ Proposed formed district with average score of 941 consisting of 10 villages, namely Batin Pengambang, Tambak Ratu, Muara Air Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, Batu Empang, Paniban Baru, Rantau Panjang, and Pulau Salak Baru.

5) Alternative 2 (score difference –59)

- ❖ Proposed parent district with average score of 901 consisting of 16 villages, namely Pekan Gedang, Bukit Kalimau Ulu, Raden Anom, Pulau Salak Baru, Rantau Panjang, Padang Jering, Kasiro, Kasiro Ilir, Datuk Nan Duo, Sungai Baung, Sungai Bemban, Lubuk Bangkar, Muara Pemuat, Muara Cuban, Bukit Sulah, and Paniban Baru.
- ❖ Proposed formed district with average score of 960 consisting of 7 villages, namely Batin Pengambang, Tambak Ratu, Muara Air Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, and Batu Empang.

6) Alternative 3 (score differences –38 and 56)

- ❖ Proposed parent district with average score of 922 consisting of 10 villages, namely Pekan Gedang, Raden Anom, Pulau Salak Baru, Rantau Panjang, Padang Jering, Kasiro, Kasiro Ilir, Datuk Nan Duo, Bukit Sulah, and Paniban Baru.
- ❖ Proposed formed district with average score of 960 consisting of 7 villages, namely Batin Pengambang, Tambak Ratu, Muara Air Dua, Sungai Keradak, Simpang Narso, Bukit Berantai, and Batu Empang.
- ❖ Proposed formed district 2 with average score of 866 consisting of 6 villages, namely Sungai Baung, Sungai Bemban, Lubuk Bangkar, Muara Pemuat, Muara Cuban, and Bukit Kalimau Ulu.

b) Formation of Mandiangin District

Formation of Mandiangin District, as explained above that potential of villages in Mandiangin District, Sarolangun Regency is based on result of study on regional potential of Mandiangin District, Sarolangun Regency by scoring on 19 (nineteen) variables, with category of proper, fairly proper or improper for formation are shown in **Table 14** as follows.

Based on result of analysis above, by the mapping of villages in Mandiangin District, Sarolangun Regency, there are 6 (six) villages in the category of proper for formation and 22 (twenty-two) villages in the category of fairly proper for formation. In terms of formation of Mandiangin District, there are 3 (three) alternatives of formation of Mandiangin District.

c) Alternative 1 of Formation of Mandiangin District

Mapping of villages in Mandiangin District in alternative 1 (**Table 15**) is the formed district 1 with nominated villages of Guruh Baru, Sungai Butang, Butang Baru, Jati Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petiduran Baru. And parent district with nominated villages of Mandiangin Tuo, Mandiangin, Taman Dewa, Simpang Kertopati, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Kertopati, Pemuširan, Gurun Mudo,

Table 14. Potential of Villages in Mandiangin District, Sarolangun Regency.

| NO | DISTRICT | VILLAGE | TOTAL SCORE | SCORE INTERVAL | CATEGORY |
|----------------------------|------------|--------------------|---------------|------------------|---------------|
| 1 | | Mandiingin Tuo | 874 | 644 ≤ TS < 1008 | Fairly Proper |
| 2 | | Mandiingin | 958 | 644 ≤ TS < 1008 | Fairly Proper |
| 3 | | Taman Dewa | 999 | 644 ≤ TS < 1008 | Fairly Proper |
| 4 | | Simpang Kertopati | 878 | 644 ≤ TS < 1008 | Fairly Proper |
| 5 | | Rangkiling | 861 | 644 ≤ TS < 1008 | Fairly Proper |
| 6 | | Rangkiling Simpang | 913 | 644 ≤ TS < 1008 | Fairly Proper |
| 7 | | Gurun Tuo | 878 | 644 ≤ TS < 1008 | Fairly Proper |
| 8 | | Gurun Tuo Simpang | 913 | 644 ≤ TS < 1008 | Fairly Proper |
| 9 | | Kertopati | 861 | 644 ≤ TS < 1008 | Fairly Proper |
| 10 | | Pemusiran | 982 | 644 ≤ TS < 1008 | Fairly Proper |
| 11 | | Gurun Mudo | 887 | 644 ≤ TS < 1008 | Fairly Proper |
| 12 | | Bukit Peranginan | 1019 | 1008 ≤ TS < 1680 | Proper |
| 13 | | Muaro Ketalo | 969 | 644 ≤ TS < 1008 | Fairly Proper |
| 14 | Mandiingin | Guruh Baru | 954 | 644 ≤ TS < 1008 | Fairly Proper |
| 15 | | Petiduran Baru | 970 | 644 ≤ TS < 1008 | Fairly Proper |
| 16 | | Butang Baru | 1047 | 1008 ≤ TS < 1680 | Proper |
| 17 | | Meranti Baru | 1023 | 1008 ≤ TS < 1680 | Proper |
| 18 | | Jati Baru | 997 | 644 ≤ TS < 1008 | Fairly Proper |
| 19 | | Sungai Butang | 1019 | 1008 ≤ TS < 1680 | Proper |
| 20 | | Talang Serdang | 959 | 644 ≤ TS < 1008 | Fairly Proper |
| 21 | | Mandiingin Pasar | 1063 | 1008 ≤ TS < 1680 | Proper |
| 22 | | Kute Jaye | 894 | 644 ≤ TS < 1008 | Fairly Proper |
| 23 | | Sungai Rotan | 911 | 644 ≤ TS < 1008 | Fairly Proper |
| 24 | | Suka Maju | 1012 | 1008 ≤ TS < 1680 | Proper |
| 25 | | Gurun Baru | 854 | 644 ≤ TS < 1008 | Fairly Proper |
| 26 | | Jati Baru Mudo | 979 | 644 ≤ TS < 1008 | Fairly Proper |
| 27 | | Meranti Jaya | 1000 | 644 ≤ TS < 1008 | Fairly Proper |
| 28 | | Jernang Baru | 976 | 644 ≤ TS < 1008 | Fairly Proper |
| TOTAL | | | 26,650 | | |
| AVERAGE | | | 952 | | |
| TOTAL MINIMUM SCORE | | | 854 | | |
| TOTAL MAXIMUM SCORE | | | 1063 | | |

Source: Data Processing, 2017.

Bukit Peranginan, Muaro Ketalo, Talang Serdang, Mandiangin Pasar, Kute Jaye, Sungai Rotan and Gurun Baru. Mapping of villages in Mandiangin District in alternative 1 can be pictured in map as follows (**Figure 5**).

Table 15. Mapping of Villages in Mandiagin district alternative 1.

| NO | FORMED DISTRICT | Nominated Village | Total Score | PARENT DISTRICT | Nominated Village | Total Score |
|----|-----------------|----------------------------|--------------|-----------------|--------------------|---------------|
| 1 | | Guruh Baru | 954 | | Mandiagin Tuo | 874 |
| 2 | | Sungai Butang | 1019 | | Mandiagin | 958 |
| 3 | | Butang Baru | 1047 | | Taman Dewa | 999 |
| 4 | | Suka Maju | 1012 | | Simpang Kertopati | 878 |
| 5 | | Jati Baru Mudo | 979 | | Rangkiling | 861 |
| 6 | | Jati Baru | 997 | | Rangkiling Simpang | 913 |
| 7 | | Meranti Baru | 1023 | | Gurun Tuo | 878 |
| 8 | | Meranti Raya | 1000 | | Gurun Tuo Simpang | 913 |
| 9 | | Jernang Baru | 976 | | Kertopati | 861 |
| 10 | | Petiduran Baru | 970 | | Pemusiran | 982 |
| 11 | | | | | Gurun Mudo | 887 |
| 12 | | | | | Bukit Peranginan | 1019 |
| 13 | | | | | Muaro Ketalo | 969 |
| 14 | | | | | Talang Serdang | 959 |
| 15 | | | | | Mandiagin Pasar | 1063 |
| 16 | | | | | Kute Jaye | 894 |
| 17 | | | | | Sungai Rotan | 911 |
| 18 | | | | | Gurun Baru | 854 |
| | | TOTAL | 9,977 | | | 16,673 |
| | | AVERAGE | 998 | | | 926 |
| | | TOTAL MINIMUM SCORE | 954 | | | 854 |
| | | TOTAL MAXIMUM SCORE | 1047 | | | 1063 |

Source: Data Processing, 2017.

d) Alternative 2 of Formation of Mandiagin District

Mapping of villages in Mandinagin District in alternative 2 (Table 16) is the formed village 1 with nominated villages of Sungai Rotan, Bukit Peranginan, Muaro Ketalo, Simpang Kertopati, Kertopati, Talang Serdang, Taman Dewa, Kute Jaye and Mandiagin Pasar. The formed district 2 with nominated villages of Guruh Baru, Sungai Butang, Butang Baru, Suka Maju, Jati Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petiduran Baru. And parent district with nominated villages of Mandiagin, Mandiagin Tuo, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Pemusiran, Gurun Mudo and Gurun Baru. Mapping of villages in Mandiagin District in alternative 2 can be pictured in map as follows (Figure 6).

e) Alternative 3 of Formation of Mandiagin District

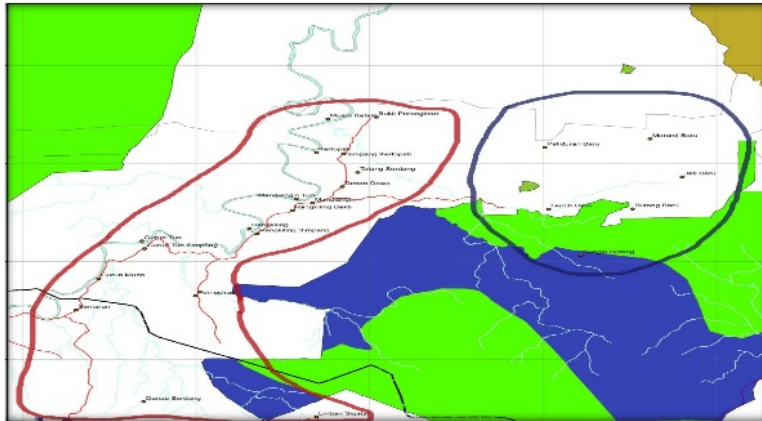


Figure 5. Mapping of Villages of Mandiangan district in alternative 1 Source: Data processing, 2017.

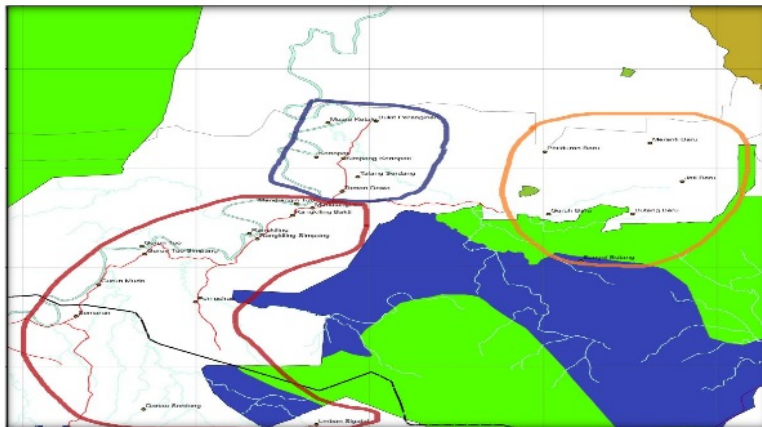


Figure 6. Mapping of villages of Mandiangan district in alternative 2. Source: Data processing, 2017.

Mapping of villages in Mandiangan District in alternative 3 (**Table 17**) is the formed district 1 with nominated villages of Mandiangan Tuo, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Pemusiran, Guru Mudo and Gurun Baru. The formed district 2 with nominated villages of Guruh Baru, Sungai Butang, Butang Baru, Suka Maju, Jati Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petiduran Baru. And parent district with nominated villages of Sungai Rotan, Bukit Peranginan, Muaro Ketalo, Simpang Kertopati, Kertopati, Talang Serdang, Taman Dewa, Kute Jaye, Mandiangan Pasar and Mandiangan. Mapping of villages in Mandiangan District in alternative 3 can be pictured in map as follows (**Figure 7**).

Next, score difference between Formation of Mandiangan District in alternative 1, alternative 2 and alternative 3 is calculated:

Based on comparison of potential as shown in **Table 18**, it can be explained

Table 16. Mapping of villages in Mandiingin district alternative 2.

| NO | Formed District 1 | Nominated Village | Total Score | Formed District 2 | Nominated Village | Total Score | Parent District | Nominated Village | Total Score |
|----|-------------------|----------------------------|--------------|-------------------|-------------------|--------------|-----------------|--------------------|--------------|
| 1 | | Sungai Rotan | 911 | | Guruh Baru | 954 | | Mandiingin | 958 |
| 2 | | Bukit Peranginan | 1019 | | Sungai Butang | 1019 | | Mandiingin Tuo | 874 |
| 3 | | Muaro Ketalo | 969 | | Butang Baru | 1047 | | Rangkiling | 861 |
| 4 | | Simpang Kertopati | 878 | | Suka Maju | 1012 | | Rangkiling Simpang | 913 |
| 5 | | Kertopati | 861 | | Jati Baru Mudo | 979 | | Gurun Tuo | 878 |
| 6 | | Talang Serdang | 959 | | Jati Baru | 997 | | Gurun Tuo Simpang | 913 |
| 7 | | Taman Dewa | 999 | | Meranti Baru | 1023 | | Pemusiran | 982 |
| 8 | | Kute Jaye | 894 | | Meranti Raya | 1000 | | Gurun Mudo | 887 |
| 9 | | Mandiingin Pasar | 1063 | | Jernang Baru | 976 | | Gurun Baru | 854 |
| 10 | | | | | Petiduran Baru | 970 | | | |
| | | TOTAL | 8,553 | | | 9,977 | | | 8,120 |
| | | AVERAGE | 950 | | | 998 | | | 902 |
| | | TOTAL MINIMUM SCORE | 861 | | | 954 | | | 854 |
| | | TOTAL MAXIMUM SCORE | 1063 | | | 1047 | | | 982 |

Source: Data Processing, 2017.

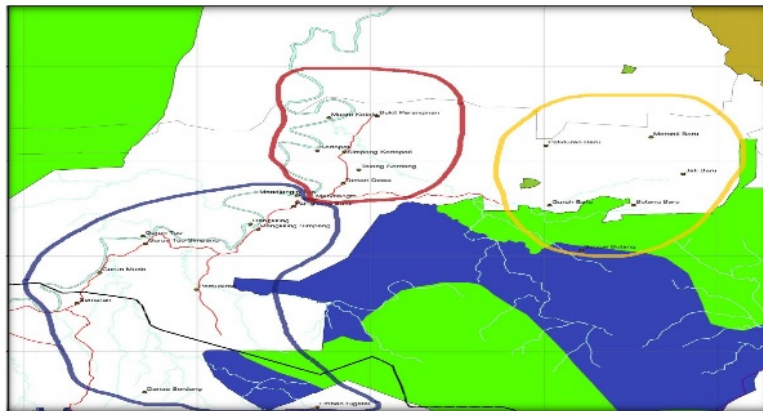


Figure 7. Mapping of villages of Mandiingin district in alternative 3. Source: Data processing, 2017.

that in alternative 1, comparison between proposed parent district and proposed formed district is by -71 , which means that proposed parent district has lower potential than proposed formed district. In alternative 2, comparison between proposed parent district and proposed formed district -48 is by -95 , which

Table 17. Mapping of villages in Mandiangin district alternative 3.

| NO | Formed | Total | Formed | Total | Parent | Total |
|----------------------------|--------------------|--------------|----------------|--------------|-------------------|--------------|
| | District 1 | | District 2 | | District | |
| 1 | Mandiingin Tuo | 874 | Guruh Baru | 954 | Sungai Rotan | 911 |
| 2 | Rangkiling | 861 | Sungai Butang | 1019 | Bukit Peranginan | 1019 |
| 3 | Rangkiling Simpang | 913 | Butang Baru | 1047 | Muaro Ketalo | 969 |
| 4 | Gurun Tuo | 878 | Suka Maju | 1012 | Simpang Kertopati | 878 |
| 5 | Gurun Tuo Simpang | 913 | Jati Baru Mudo | 979 | Kertopati | 861 |
| 6 | Pemusiran | 982 | Jati Baru | 997 | Talang Serdang | 959 |
| 7 | Gurun Mudo | 887 | Meranti Baru | 1023 | Taman Dewa | 999 |
| 8 | Gurun Baru | 854 | Meranti Raya | 1000 | Kute Jaye | 894 |
| 9 | | | Jernang Baru | 976 | Mandiingin Pasar | 1063 |
| 10 | | | Petiduran Baru | 970 | Mandiingin | 958 |
| TOTAL | | 7,162 | | 9,977 | | 9,511 |
| AVERAGE | | 895 | | 998 | | 951 |
| TOTAL MINIMUM SCORE | | 854 | | 954 | | 861 |
| TOTAL MAXIMUM SCORE | | 982 | | 1047 | | 1063 |

Source: Data Processing, 2017.

Table 18. Mapping of villages in Mandiangin district.

| Mapping | Score Average | | | Difference |
|---------------|-----------------|-------------------|-------------------|------------|
| | Parent District | Formed District 1 | Formed District 2 | |
| Alternative 1 | 926 | 998 | | -71 |
| Alternative 2 | 902 | 950 | 998 | -48 |
| Alternative 3 | 951 | 895 | 998 | 56 |
| | | | | -47 |

Source: Data Processing, 2017.

means that proposed parent district has lower potential than proposed formed district 1, and proposed parent district has higher potential than proposed formed district 2. In alternative 3, comparison between proposed parent district and proposed formed district 56 is by -47, which means that proposed parent district has higher potential than proposed formed district 1, and proposed parent district has higher potential than proposed formed district 2.

Therefore, it is clear that alternative 3 is decided to be choice 1. This is based on consideration that formation according to division of governmental working area is relatively more balanced in terms of potential than formation by alternative 1 and alternative 2 regarding the 19 variables. Differences between parent district and proposed parent district and proposed formed district in alternative 3 are 56 and -47, while average distance in alternative 1 is -71 and in alternative 2 is -48 and -95. Therefore, it can be concluded that regional reordering by formation of Mandiangin District can be designed in 3 (three) best alternatives of regional reordering as follows:

Regional reordering by formation of Mandiangin District can be designed in 3 (three) best alternatives of regional reordering as follows:

1) Alternative 1 (score difference -71)

- ❖ Proposed parent district with average score of 926 consisting of 18 villages, namely Mandiangin Tuo, Mandiangin, Taman Dewa, Simpang Kertopati, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Kertopati, Pemusiran, Gurun Mudo, Bukit Peranginan, Muaro Ketalo, Talang Serdang, Mandiangin Pasar, Kute Jaye, Sungai Rotan and Gurun Baru.
- ❖ The proposed formed district with average score of 998 consisting of 10 villages, namely Guruh Baru, Sungai Butang, Butang Baru, Suka Maju, Jati Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petiduran Baru.

2) Alternative 2 (score differences -48 and -95)

- ❖ Proposed parent district with average score of 902 consisting of 9 villages, namely Mandiangin, Mandiangin Tuo, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Pemusiran, Gurun Mudo and Gurun Baru.
- ❖ The proposed formed district 1 with average score of 950 consisting of 9 villages, namely Sungai Rotan, Bukit Peranginan, Muaro Ketalo, Simpang Kertopati, Kertopati, Talang Serdang, Taman Dewa, Kute Jaye and Mandiangin Pasar.
- ❖ And the proposed formed district 2 with average score of 998 consisting of 10 villages, namely Guruh Baru, Sungai Butang, Butang Baru, Suka Maju, Jati Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petiduran Baru.

3) Alternative 3 (score differences 56 and -47)

- ❖ The proposed parent district with average score of 951 consisting of 10 villages, namely Sungai Rotan, Bukit Peranginan, Muaro Ketalo, Simpang Kertopati, Kertopati, Talang Serdang, Taman Dewa, Kute Jaye and Mandiangin Pasar.
- ❖ The proposed formed district 1 with average score of 895 consisting of 8 villages, namely Mandiangin Tuo, Rangkiling, Rangkiling Simpang, Gurun Tuo, Gurun Tuo Simpang, Pemusiran, Gurun Mudo and Gurun Baru.
- ❖ And the proposed formed district 2 with average score of 998 consisting of 10 villages, namely Guruh Baru, Sungai Butang, Butang Baru, Suka Maju, Jati

Baru Mudo, Jati Baru, Meranti Baru, Meranti Raya, Jernang Baru and Petidungan Baru.

a) Formation of Batang Asai District and Mandiangin District based on Aspect of Public Aspiration and Availability of Public Services

From the aspect of public aspiration, in both districts in Sarolangun Regency, namely Batang Asai District and Mandiangin District, in principle, a majority of community, public figures, religious leaders, youth figures, female leaders and educational figures, **are agreed on the formation of district**. One of the importances of public aspiration in supporting the formation of district is the inclusion of public aspiration in determining the district capital in case formation of district is implemented.

Planned capital for newly formed Batang Asai district is Batin Pengambang village or Muara Air Dua village for alternative 1 and alternative 2, and planned capitals for 2 newly formed districts for alternative 3 are Sungai Baung village and Muara Air Dua village. Planned capital for newly formed Mandiangin District for alternative 1 is Butang Baru village or Meranti Baru village, for alternative 2 are Simpang Kertopati village and Butang Baru village, and for alternative 3 are Rangkiling Simpang village and Butang Baru village.

From the aspects of public services and quality of public services in the area of education, health, public facilities, licensing and public participation, it is shown that public services provided in almost all districts is much more poorly than at the level of regency and village/sub-district.

b) Formation of Batang Asai District and Mandiangin District based on Regional Condition

A region is categorized as underdeveloped due to several factors such as:

1) Geography Geographically in general, underdeveloped region is relatively difficult to access since the location is in hinterland, mountains, islands, coastal area, and remote island or due to other geomorphological factors making it difficult to access by transportation and communication media.

2) Natural Resources. Some underdeveloped regions don't have natural resources, or they have great natural resources but situated in area that is preserved or unable to exploit, or they are underdeveloped due to over-exploitation of natural resources.

3) Human Resources. In general, people living in underdeveloped regions have relatively low level of education, knowledge and skills and underdeveloped customary institution.

4) Facilities and Infrastructures Limited availability of facilities and Infrastructures of communication, transportation, clean water, irrigation, health, education, and other services has made community in underdeveloped region difficult to do economic and social activities.

5) Disaster-Prone and Social Conflict Area A region that frequently suffer from natural disaster such as earthquake, water shortage and flood, and social conflict is more likely to experience disturbance in activities of social and eco-

conomic development.

6) Developmental Policy A region may be underdeveloped due to poor policies, such as paying less attention to development of the underdeveloped areas, unsuitable approach and priority of development, and not involving the customary institution in planning and development.

Distribution of underdeveloped regions is geographically classified into several groups:

1) Regions located in hinterland areas, the edge or middle of forest, and mountains that generally have no or little access to other relatively more developed regions.

2) Regions located in small islands, group of islands that are populated and have difficult access to other more developed regions.

3) Regions that are in part or in whole located administratively at the borderland, either maritime or land borders.

4) Regions located in areas that are more likely suffer from natural disasters, such as earthquake, landslide, eruption, or flood.

5) Regions that most of its areas are coastal.

Based on result of analysis and direct observation by District Formation Team, it is found that both districts, Batang Asai District and Mandiangin District, have different regional condition, in which Batang Asai District is categorized as **underdeveloped region (underdeveloped district)**, contrast with Mandiangin District which is categorized as fairly proper and developable without needing any specific intervention from government.

6. Conclusion

To ensure the successful implementation of regional reordering and development, it is necessary to consider capability of government, from the lowest to the highest level, in implementation of public services, governance and development effectively and efficiently, and it is recommended as follows:

1) Providing that there are three alternatives presented, it is expected to have continuous development model.

2) As district is local agency of regency/city government, it is necessary to have system of delegation of authority from Regent to Camat in Sarolangun Regency due to geographically difficult area.

3) Making organizational design of district according to potential and characteristic of districts (typology of district) along with model and nature of authority delegated by Regent to Camat;

4) Making performance and logistic budgeting for district according to significance of the variable of authority of Camat, potential and solution of each district;

5) Making design of measurement and evaluation of performance for district according to authority of Camat, potential and solution of each district;

6) All equipment, personnel and expenses needed for implementation of re-

gional reordering are under responsibility of Local Government, including improvement of all citizenship administration services for regions related to formation of district, including Identity Card (KTP), Family Register (KK), and other citizenship administration.

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PAGE 3

PAGE 4

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PAGE 6

PAGE 7

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12

PAGE 13

PAGE 14

PAGE 15

PAGE 16

PAGE 17

PAGE 18

PAGE 19

PAGE 20

PAGE 21

PAGE 22

PAGE 23

PAGE 24

PAGE 25

PAGE 26

PAGE 27

PAGE 28

PAGE 29

PAGE 30

PAGE 31

PAGE 32

PAGE 33

PAGE 34

PAGE 35

PAGE 36

PAGE 37

PAGE 38

PAGE 39
