Typology Model Based Building and Land Infrastructure Structure Organization and Duties Bali Area Police

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Abstract. Polsek was a police station in the district that provides police services to the community. There are four types of Polsek, namely A, B, C, and D. Polsek in the Bali Area are 58 with types B and C. Polsek is expected to have adequate supporting infrastructure such as Integrated Police Service Center rooms, facilities for the disabled, children's playgrounds, breastfeeding rooms, detention cells, and parking, open spaces. However, the land area is only sometimes adequate. The analysis used interview methods, observation, literature studies, and SWOT analysis. The results show that Polsek's need for land Type B is 631.54 m², and Type C is 377.14 m². The SWOT analysis was in the strength and threat quadrant, so a policy is needed to evenly distribute the development of each Polsek type B and C, starting from land acquisition by the main tasks and functions of the police in serving the community.

Keywords: Police Station, urban health, green infrastructure, certification impact, public well-being

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1. Introduction

National Police of the Republic of Indonesia is the National Law Authorization Organization and the State Police in Indonesia which is mindful reply straightforwardly underneath President Republic of Indonesia. The National Police of the Republic of Indonesia could be a state instrument that plays a role in support security and public arrange, law authorization, protection, assurance and benefit to the community carried out by the National Police of the Republic of Indonesia as a apparatus a state that's helped by society by maintaining rights human rights[1]. In running errand central and work, Polri continuously confront to confront with open so that must can provide great benefit to Society[2]. In making it happen giving great benefit to open so require exists Human Assets, Offices and Framework and frameworks the strategy is conceivable gotten to be measuring stick measuring quality benefit. Structure Organization [3] indicate conveyance work and appear How work or assorted exercises are connected to a few degree, moreover appears level specialization action work [4].

Infrastructure development as a support for the police's performance in carrying out their duties must adhere to Indonesian standards. Because Indonesia is located in the Ring of Fire, infrastructure buildings

designed, particularly police stations, must be earthquake resistant to prevent structural failure and casualties [5]. [6],[7] Many public buildings are located in disaster-prone areas, especially in mountainous areas, so they are at risk of being eroded by landslides [8] [9]. If the production building or warehouse is not arranged according to a good layout design, it will need help operating the process of moving products and services in and out, and its capacity will not be optimal [10]. Sum There are 60 police stations within the Bali Range sort Police Station B and C. Building Police a few have built unused and a few still in condition harmed light nor harmed overwhelming. From a few The police as of now have it built it turns out Still need room work and foundation bolster so that as server open Still not sufficient accessible offices[11]. The facilities provided are very important to encourage the smooth implementation of the workers' tasks.[12] Work facilities can be classified as machinery, infrastructure, office equipment, investment equipment, land, buildings, or transportation. According to Presidential Decree No. 73 of 2011 concerning the Construction of State Buildings [13], articles 6,7,8,9 were as follows [7]: the standard area of office building space is an average of 10 m2 per personnel for the classification of non-simple buildings, and the guarantee period for building failure is for at least 10 (ten) years [14]. As regulated in the Decree of the Chief of the Republic of Indonesia National Police Number: Skep/549/VIII/2005 dated August 24, 2005, concerning the Prototype of the Police Department Building, it still regulates general matters related to the area of the building, shape, and architecture. [15]. Police stations in the Province of Bali have varying areas, depending on the state's ability to purchase land for police office needs, so public services are not optimal because there is no update on the decision on this matter. Hence, it impacts the lag in organizational development in terms of the organizational structure of the Polsek and the main tasks and functions in Bali. Based on this, a study was conducted to design a comprehensive type B and C police station model, with green infrastructure based on the typology of land area and the number of services that the Polsek must carry out. The analysis was conducted to obtain a suitable land typology model to provide optimal service to the community. This research expects that stakeholders, namely police officials, will make policies on the room and land models needed based on Polsek type B and C's organizational structure and duties in Bali and Indonesia in general.

2. Methods

The research was carried out in stages, so that it was hoped that in the end it would fulfill the objectives to be achieved. Samples taken from overall amount Bali Area Police with break sample into 2 parts that is police station type Type C and police station type Type B. This thing done with Probability Sampling Probability method with *Simple Random Sampling*, intended that as many as N of samples taken from population N and each member population have the same opportunities For taken.[16]. SWOT analysis is A method planning strategic use [17] for evaluate strengths, weaknesses, opportunities and threats that occur in project or in a business business , or evaluate lines product [18]Alone nor competitors. For do analysis, determined objective business or identify the object to be analyzed. Strengths and weaknesses grouped to in internal factors, meanwhile opportunities and threats identified as factor external [19]. The research stages to be carried out are as follows:

- 1. Interview to source person related with condition existing Police and hope to need room Police in accordance with perpol number 2 of 2021 based on Structure organization and its main tasks and functions.
- 2. Gather results interview and conduct analysis brainstorming with get conclusion results interview.
- 3. Analyze the data that is compare with applicable regulation that is perpol number 2 of 2021 and regulations Presidential Decree no.73 of 2011 concerning development building building.
- 4. Create a requirements model Building and Land Infrastructure based on results summary interview and also appropriate with structure organization and duties Police.
- 5. SWOT analysis determine position quadrants and development strategies.

Research methodology diagram in Figure 1:

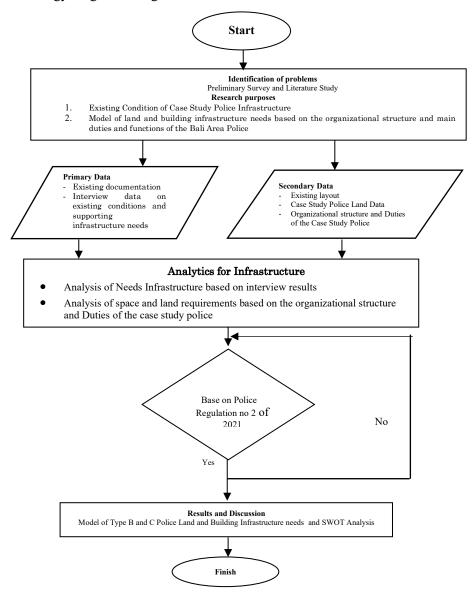


Figure 1. Research Methodology

This building needs planning model was based on the suitability of Polsek's duties and organizational structure based on Perpol No. 2 of 2021 and will be combined with other supporting infrastructure. The model to be planned was carried out as follows:

- 1. Identification of the land area owned by each type of Polsek from the total land area owned by the sample Polsek;
- 2. Division into three intervals adjusted to the land area owned by the existing Polsek sample, both type B and type C.

A sample was taken from 20 Polsek, which had a fairly wide range of land areas but almost identical buildings. SWOT analysis of the model from Polsek Type B and Type C by the results obtained from the questionnaire by giving weights and ratings to internal and external factors. The weight of internal and external factors is between 0.0 - 1.0, while the rating of internal and external factors is between 1 - 4.

3. Results and Discussion

Sector Police or later called Police is element executor task territoriality at level The police station is located under Resort Police or called Police. Located in the sub-district area, Polsek led by one Police Chief and responsible answer to Police Chief (Chief Resort Police). Police consists from a number of types that is Type A (Metro Police), Type B (Urban Police), Type C (Rural Police), and Type D (Polsek Prerural). On analysis study This will 2 types are discussed that is type B and type C. In research This done analysis condition existing from several police station samples Types B and C with total studies case totaling 20 police stations in the Bali Area. Election samples done in a way *random*. Analysis This done with method observation direct to location studies case and do interview. This matter aim know How condition existing Police from facet existing infrastructure available and wide land used. From the results observations and interviews that have been done done obtained results identification condition existing each police station namely, as following:

Table 1. Condition Existing at the Case Study Location In accordance with Duties Based on Political Regulation No. 2 of 2021

| Type Location of Police Space Based Structure Organization and Duties | | | | | | | | | | | | | |
|---|-------------------------|--------------|-----------|-----------|-----|------|-----|-----|--------|-----|-------|--------|----|
| Type | Location of Police | 2 | Space E | Based | Str | ucti | ure | Org | anızat | 10n | and I | Juties | |
| Police | Station | | | | | | | | | | | | |
| | | R.K | RWP | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| | Polsek Klungkung | | | | | | | | | | | | |
| | Polsek Kintamani | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Bangli | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Melaya | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Negara | $\sqrt{}$ | | | | | | | | | | | |
| T D | Polsek Mendoyo | $\sqrt{}$ | | | | | | | | | | | |
| Type B | Polsek Abiansemal | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Denpasar Timur | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Denpasar Selatan | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Denpasar Barat | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | |
| | Polsek Ubud | $\sqrt{}$ | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | |
| | Polsek Sukawati | \checkmark | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Tabanan | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Banjarangkan | | | | | | | | | | | | |
| | Polsek Selat | \checkmark | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Dawan | \checkmark | $\sqrt{}$ | | | | | | | | | | |
| Type C | Polsek Susut | $\sqrt{}$ | | | | | | | | | | | |
| | Polsek Tembuku | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Busungbiu | $\sqrt{}$ | $\sqrt{}$ | | | | | | | | | | |
| | Polsek Petang | $\sqrt{}$ | | | | | | | | | | | |

Information:

RK: Police Chief's Room

RWP: Deputy Chief of Police Room

- 1. Professional and Security Unit
- 2. General Section
- 3. Public Relations Section
- 4. Integrated Police Service Center or abbreviated as SPKT
- 5. Security Intelligence Unit
- 6. Criminal Investigation Unit;
- 7. Community Development Unit
- 8. Samapta Unit
- 9. Traffic Unit
- 10. Water Police Unit

From table above on on on type B not yet own room for officer's personnel water police, this is also influenced by the condition of the post office Actually must near with the monitored area. Then the polair post usually separated from police station. At the police station type C not yet own room for sexy connection Society and water police. From the results analysis condition existing police station studies case, then create a percentage diagram from availability room based on main duties Sector Police in Perpol No. 2 of 2021 in each Bali area police from overall police station Good customized type B and type C with perpol number 2 of 2021 is related with structure organization and duties police station

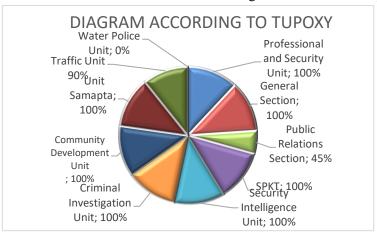


Figure 2. Percentage Diagram of Room Availability Based on Functions Police Regulation No. 2 of 2021

So, if seen from the diagram above seen that from a total of 20 studies case police station good type B and type C only 45% space available for main duties sexy Public Relations, 90% Traffic Unit, 0% for Water Police Unit. Sexy Public relations available only 1 out of 7 police stations type C studies case. This matter No in accordance with where is Perpol No. 2 of 2021? should fulfil all existing duties namely 10 main tasks from police station. However, for water police units have own office separated from police station good types B and C. This Of course become A reference he did planning in know wide buildings that are needed for all main duties fulfilled in one police station.

Need wide building building police station with referring to regulations Presidential Decree no.73 of 2011 concerning development building building, needs room per personnel for building police station is 10 m² per personnel which can be seen recap For Type B and Type C police stations in the Bali area. In calculations This only take into account need for amount existing personnel, and adjusted with 10 main tasks police station. So that suitable ideal area with standard rules and amounts existing personnel for location studies case is as following:

Table 2. Land Requirements for Police Type B Based Presidential Decree No.73 of 2011

| No | Police name | Total Press | Extent/ Personnel Standards | Keb Building Size Per Police Station |
|----|-------------------|----------------|--------------------------------|---|
| 1 | Polsek Klungkung | 54 | 10 | 540 |
| 2 | Polsek Melaya | 52 | 10 | 520 |
| 3 | Polsek Mendoyo | 52 | 10 | 520 |
| 4 | Polsek Negara | 36 | 10 | 360 |
| 5 | Polsek Kintamani | 42 | 10 | 420 |
| 6 | Polsek Bangli | 50 | 10 | 500 |
| 7 | Polsek Tabanan | 44 | 10 | 440 |
| 8 | Polsek Abiansemal | 75 | 10 | 750 |

| 9 | Polsek Ubud | 86 | 10 | 860 |
|----|-------------------------|----|--------|-----|
| 10 | Polsek Sukawati | 91 | 10 | 910 |
| 11 | Polsek Denpasar Timur | 77 | 10 | 770 |
| 12 | Polsek Denpasar Selatan | 82 | 10 | 820 |
| 13 | Polsek Denpasar Barat | 80 | 10 | 800 |
| | | | 631.54 | |

Table 3. Land Requirements For Police Type C Based Presidential Decree No.73 of 2011

| No | Police name | Total Press | Extent/ Personnel Standards | Keb Building Size Per Police Station |
|----|---------------------|-------------|-----------------------------|---|
| 1 | Polsek Selat | 39 | 10 | 390 |
| 2 | Polsek Banjarangkan | 47 | 10 | 470 |
| 3 | Polsek Dawan | 41 | 10 | 410 |
| 4 | Polsek Busungbiu | 44 | 10 | 440 |
| 5 | Polsek Petang | 36 | 10 | 360 |
| 6 | Polsek Tembuku | 28 | 10 | 280 |
| 7 | Polsek Susut | 29 | 10 | 290 |
| | | Average | | 377,14 |

From the results calculations in table 2 and table 3 are obtained results wide land required for police station in accordance with amount existing personnel members or seen from structure organization each police station. Planning model need building This based on suitability to main tasks and structures organization police station based on Presidential Decree No. 2 of 2021, and will combine with infrastructure supporter other. So that will obtain the ideal area model for police station types B and C.

Table 4. Space Requirements Based on Organizational Structure and Type B Police Task Force

| Land Area Interval | Amount Police | Personnel Average | Addition Polair M ² | Planned Area 10 M ² /Personnel | Space Requirements |
|-----------------------|------------------|----------------------|-----------------------------------|--|-----------------------|
| 300-1000 | 5 | 57.20 | 10.00 | 10.00 | 582.00 |
| 1001-5000 | 6 | 66.17 | 10.00 | 10.00 | 671.67 |
| >5000 | 2 | 69.00 | 10.00 | 10.00 | 700.00 |

Table 5Area Requirements for Space Based on Organizational Structure and Duties of Type C Police

| Land Area Interval | Amount Police | Personnel Average | Addition Polair M ² | Planned Area 10 M ² /Personnel | Space Requirements |
|-----------------------|------------------|----------------------|-----------------------------------|---|-----------------------|
| 300-1000 | 4 | 36,00 | 10,00 | 10,00 | 370,00 |
| 1001-5000 | 3 | 40,00 | 10,00 | 10,00 | 410,00 |
| >5000 | 0 | 0,00 | 10,00 | 10,00 | 0,00 |

So, we get 1 model with ideal area of each type police station. On type police station B was found wide the ideal land is land with an interval of 1,001-5,000 m² where in this interval there is dominant 6 police stations of a total of 13 sample type B police stations were compared with 2 other intervals. In area This own wide suitable room with an average of amount structure organization and also duties from police station type B. Quantity where is the ideal room? with wide room the accommodate average

number of structures existing organization . So that selecting this model is the ideal choice from the 3 models that have been made For Police Type B. Likewise with type C, a wide model land and room in accordance The ideal main task is in the interval range of 300-1,000 m². This matter based on dominant 4 of a total of 7 studies case police station C has wide land in that range. So that facilities built optimize with average amount needed from police station this type C.

Type B Model with a Building Area of 670 m², consisting of 3 floors. Ground Floor: 250 m², including SPKT room, Criminal Investigation Unit, restroom, and detention room. Second Floor: 210 m², including Intelligence Unit room, Traffic Unit, Sium (Administrative Unit), meeting room, pantry, restroom, and Public Relations. Third Floor: 210 m², including Police Chief room, Deputy Police Chief room, waiting area, Community Police Unit, *Samapta* Unit (Public Order Unit), *Propam* Unit (Professional and Security Unit), and Water Police Unit.

Type C Model with a Building Area of 370 m², consisting of 3 floors. Ground Floor: 123 m², including SPKT room, Criminal Investigation Unit room, Samapta Unit room, Binmas Unit room, Traffic Unit room, and restroom. Second Floor: 123 m², including detention room, Intelligence Unit room, Propam Unit room, and restroom. Third Floor: 123 m², including Police Chief room, Deputy Police Chief room, Sium (Administrative Unit) room, meeting room, and restroom.

SWOT analysis with combination internal and external factors against the model of Police Type B and Type C are compatible with the results obtained, for devise a strategy if realized:

Table 6 SWOT Analysis of Sector Police Model Type B and C

| I able | Table 6 SWO1 Analysis of Sector Police Model Type B and C | | | | | | | |
|--|---|---------------------|---|--|--|--|--|--|
| | SWOT ANALYS | SIS MATRIX | | | | | | |
| POWER(S) | WEAKNESSES (W) | OPPORTUNITIES (0) | THREAT (T) | | | | | |
| Supporting the performance of both Type B and Type C police stations in service Supporting personned performance with room space that is in accordance with the existing organizational structure Improving the quality of the National Police in terms of infrastructure Improving the quality of service regarding local complaints and problems | Difficulty getting land of the planned area in the center of the coverage area There are regulations regarding building height limits in the local area of Bali Not yet adjusted to the future organizational structure | the National Police | interest occursInternal debate emerged | | | | | |

Table 7Strength and Weakness Scoring Table (IFAS Matrix)

| No | Strength | SCORE | WEIGHT | TOTAL |
|----|---|-------|--------|-------|
| 1 | Supporting the performance of both Type B and Type C police stations in service | 4 | 0.8 | 3,2 |
| 2 | Supporting personnel performance with room space that is in accordance with the existing organizational structure | 2 | 0.7 | 1.4 |
| 3 | Improving the quality of the National Police in terms of infrastructure | 2 | 0.7 | 1.4 |
| 4 | Improving the quality of service regarding local complaints and problems | 3 | 0.7 | 2.1 |
| | Total Strength | | | 8.1 |
| | Weakness | SCORE | WEIGHT | TOTAL |

| 1 | Limited land available | 3 | 0.7 | 2.1 | |
|------|--|---|-----|------|--|
| 2 | Difficulty getting land of the planned area in the center of the coverage area | 4 | 0.8 | 3,2 | |
| 3 | There are regulations regarding building height limits in the local area of Bali | 4 | 0.8 | 3,2 | |
| 4 | Not yet adjusted to the future organizational structure | 3 | 0.6 | 1.8 | |
| | Total Weakness | | | 10.3 | |
| Diff | Difference between Total Strength - Total Weakness | | | | |

Table 8. Opportunity and Threat Scoring Table (EFAS Matrix)

| | Opportunity | SCORE | WEIGHT | TOTAL |
|-----|---|-------|--------|-------|
| 1 | Opportunity to maximize the number of complaint services | 3 | 0.8 | 2,4 |
| 2 | Budget opportunities from Central, Provincial and Regency governments | 4 | 0.9 | 3.6 |
| 3 | Increasing public trust in the National Police | 2 | 0.6 | 1,2 |
| 4 | Get support from the surrounding community | 3 | 0.8 | 2,4 |
| | Total Opportunity | | | 9.6 |
| | Threat | SCORE | WEIGHT | TOTAL |
| 1 | A conflict of interest occurs | 3 | 0.5 | 1.5 |
| 2 | Internal debate emerged | 2 | 0.4 | 0.8 |
| 3 | The emergence of obstacles to the acquisition of land to be used | 3 | 0.7 | 2.1 |
| 4 | There is a conflict regarding validation | 2 | 0.4 | 0.8 |
| | Total Threat | | | 5.2 |
| Dif | ference between Total Opportunities - Total Threats | | | 4.4 |

The SWOT analysis quadrant Figure 3;

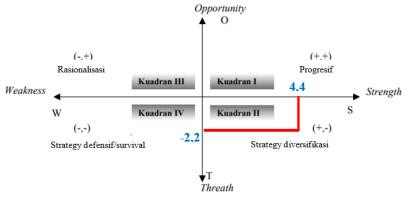


Figure 3. Quadrant SWOT Analysis Results

From the results of identifying these factors, it can be depicted in the Position Matrix in the SWOT diagram (Figure 3). Analysis of the Position Matrix shows that the analysis results are in quadrant II (*Strategy Diversification*), where the appropriate strategy in quadrant II is to focus on the ST strategy. The strategy is determined based on the strengths the organization has to overcome threats.

So that the analysis results are obtained in quadrant II (negative, positive). The position of quadrant one indicates that development needs to be carried out to further support the basic things related to the type B and C police planning model. The recommended strategy given is to carry out strength development activities to minimize or suppress possible threats. Apart from that, it can also be interpreted as increasing growth and achieving maximum progress so that you can achieve planned goals. In the discussion in this case, it is carrying out activities that lead to development [20], such as developing planned models for police stations, both type B and type C. Determination of development strategy done

with identify existing strengths, weaknesses and opportunities as well as analyzed threats with SWOT. The SWOT method can give condition objects and strategies in development object tourism [21]. Is a strategy that uses force to overcome threats, resulting in:

- a) Align the development of each type B and C police station starting from land acquisition to evaluating land and building needs for future use.
- b) Strengthen the role and function of relevant agencies in the development of police infrastructure by increasing the role of institutions to be responsible for development towards the community, especially police stations in accordance with SOPs.
- c) Conduct socialization regarding the benefits of developing land and building models in accordance with the needs of the existing organizational structure and main tasks and functions in maintaining the quality of police service
- d) Optimizing technical coordination with local government to increase support for program development related to developing police infrastructure model needs in accordance with the organizational structure and main tasks and functions

Referring to the Standard for the area of office building space [14], which states that an average of 10 m2 per personnel is a state building with a non-simple character and an average of 9.6 m2 per personnel is a character, the design of the type B and C police station models is based on the standards for state building buildings with limited land area, with a multi-story building model.

4. Conclusion

The police conclusions studies case Good type B and Sector Police type C in the Bali area has condition existing from facet availability room Not yet fulfil all main duties proven from No availability room separately for the Water Police Unit and Subsector Police , Average requirements land police station based on main tasks and structures organization from police station type B is 631.54 m 2 and type C is 377.14 m 2 , and room area ideal plan accordingly with structure organization and its duties based on wide existing land is POLSEK TYPE B (1,001 m 2 - 5,000 m 2) = 671.67 m 2 : TYPE C POLICE: (300 m 2 - 1,000 m 2) = 370.00 m 2 . The results of the SWOT analysis show position in quadrant II which means need done focuses on ST strategies. Defined strategy based the power it has organization for overcome threat. fundamental related with a planning model police station types B and C.

Research on state buildings, especially police stations, should be continued with a cost budget model and analysis of additional infrastructure models. Service management analysis must also be carried out on models B and C for service optimization and building sustainability.

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