

Evaluation of the Grojogan Sewu Twa management block, Karanganyar reGENCY, Central Java Province, area 64,124 Ha

Evi Heriyaningtyas

Master Program of Environmental Science, School of Postgraduate Study Diponegoro University, Semarang– Indonesia

Abstract. Grojogan Sewu Nature Tourism Park (TWA) was designated as a tourism park based on the Decree of the Minister of Agriculture Number 264/Kpts/Um/10/1968 with an area of 64.30 Ha in Karanganyar Regency, Central Java Province. The document for the arrangement of the management block of TWA Grojogan Sewu has been legalized through the Decree of the Director General of KSDAE Number SK. 191 / KSDAE / SET / SET.0 / 7/2016 dated 1 July 2016 on the Arrangement of the Management Block of the Grojogan Sewu Nature Tourism Park , Karanganyar Regency, Central Java Province with an area of 61.7 Ha. Considerations in conducting a review of the management block are: (1). There is a difference between the area of the block arrangement document and the area on the determination map, (2). There is a refinement of the block document as a basis for making policies for the management of the Grojogan Sewu TWA.

1 Introduction

Grojogan Sewu Nature Tourism Park (TWA) is one of the conservation areas managed by the Central Java KSDA Center which is a leading tourist destination in Karanganyar Regency. This area was designated as a tourism park based on the Decree of the Minister of Agriculture number 264/Kpts/Um/10/1968 with an area of 64.3 hectares and its natural tourism has been developed by PT Duta Indonesia Djaya since 1969. The Grojogan Sewu TWA area has been demarcated by the BPKHTL Region XI Yogyakarta in 2012. Furthermore, the management block arrangement was carried out which was approved by the Director General of KSDAE through Decree Number SK. 191 / KSDAE / SET / SET.0 / 7/2016 dated 1 July 2016 concerning the Arrangement of the Management Block of the Grojogan Sewu Nature Tourism Park in Karanganyar Regency , Central Java Province with an area of 61.7 hectares. However, based on the Decree of the Minister of Environment and Forestry number SK.5956/MENLHK-PKTL/KUH/PLA.2/11/2017 dated November 7, 2017, the Grojogan Sewu TWA area was set at 64.124 hectares. With the difference in area, an evaluation was carried out on the management block that had been approved to adjust it to the area stated in the determination of the area. The evaluation of the management block is guided by the Regulation of the Director General of KSDAE number P.14/KSDAE/SET/KSA.0/9/2016 concerning Technical Instructions for the Evaluation of Management Zones or Management Blocks of Nature Reserve Areas and Nature Conservation Areas which will be used as a

consideration in the proposed change of the management block . The purpose of the evaluation activity of the Grojogan Sewu TWA management block is to re-evaluate the development of the implementation of the criteria and activities of the management block , as well as to compare the development of the realization of input , output and results (*outcomes*) against the implementation of criteria and activities as a basis for decision makers to take the necessary actions in adjusting the criteria and activities in the management block in the Grojogan Sewu TWA and to prepare recommendations for the arrangement of the Grojogan Sewu TWA block.

2 Research Methods

Evaluation of block arrangement in the Grojogan Sewu TWA area is to assist managers in determining management blocks. This study began with spatial data processing with Geographic Information Systems (GIS). Using the Spatial Data overlay method between the Grojogan Sewu TWA area shapefile with an area of 61.7 with the determination shapefile data with an area of 64.124 hectares. The results of the spatial analysis were then checked in the area, while looking for primary data in the area.

3 Results and Discussion

3.1. Overview of the Grojogan Sewu TWA Management Block

The document for arranging the management block for the Grojogan Sewu TWA area has been approved through Decree of the Director General of KSDAE Number SK. 191 / KSDAE / SET / SET.0 / 7/2016 dated 1 July 2016 on the Arrangement of the Management Block of the Grojogan Sewu Nature Tourism Park , Karanganyar Regency , Central Java Province . In accordance with the decree, the Grojogan Sewu TWA area is managed into 2 (two) management blocks, namely a protection block of 40 hectares and a utilization block of 21.7 hectares with the area of the Grojogan Sewu TWA area being 61.7 hectares. The Grojogan Sewu TWA area was determined through the Decree of the Minister of Environment and Forestry number SK.5956/MENLHK-PKTL/KUH/PLA.2/11/2017 dated November 7, 2017 concerning the Determination of the Grojogan Sewu Nature Tourism Park Forest Area of 64.124 (Sixty Four and One Hundred Twenty Four Thousand) Hectares in Karanganyar Regency, Central Java Province, which is based on the Minutes of the Determination of the Forest Area Boundaries of the Grojogan Sewu Nature Tourism Park, Karanganyar Regency dated November 13, 2013. Referring to the two legalities, there is a difference in the area of the Grojogan Sewu TWA area. The preparation of the management block arrangement document was carried out before the issuance of the area determination decision and was based on the definitive boundary area as stated in the Work Instruction of the Head of BPKH Region XI Java-Madura number INS-30/BPKH-XI-4/2012 dated September 14, 2012 with an area of 61.7 hectares. In the consideration of the Decree of the Director General of KSDAE Number SK. 191 / KSDAE / SET / SET.0 / 7/2016 point c, it is stated that *the Minutes of Boundary Arrangement have not been attached because they are still in the process of being determined by the Minister; if the determination is complete, the block arrangement will be revised immediately* . based on these considerations, it is deemed necessary to revise the management block arrangement that has been approved to adjust the area as stated in the determination of the area by the Minister of LHK .

3.2. Management Review

The Grojogan Sewu TWA area is managed based on the results of the management block arrangement that has been approved by the Director General of KSDAE covering an area of 61.7 hectares which is divided into a protection block of 40 hectares and a utilization block of 21.7 hectares. The protection block is an area that still has fairly good land cover, while in the utilization block there is an area that has been developed for natural tourism by PT Duta Indonesia Djaya covering an area of 20 hectares based on the Decree of the Minister of Forestry number SK.661/Menhut-II/2009, the rest is a community crossing route and a water utilization route covered by the Water Utilization Permit issued by the Head of the Central Java KSDA Office. Based on spatial data, the difference in area is on the edges of the area bordering the APL, but the condition of these areas is still an area that has fairly good land cover. The management block bordering the APL is mostly a protection block. Given the high level of vulnerability of the area, the management activities of the area must be readjusted to the designation of the block.

3.3. Block Allocation Suitability Analysis

Based on the results of *the ground check* of the Grojogan Sewu TWA area, it can be said that the evaluation of the management block was carried out because of the difference in area stated in the block arrangement document that has been approved with the area of the area in the area determination issued by the Minister of Environment and Forestry. The analysis carried out in this evaluation report is descriptive and based on spatial data. The next method is to compile an overlapping matrix of ecological sensitivity and socio-cultural economic sensitivity to determine the direction of the management block.

Table 1. Determination of management block directions using overlapping ecological sensitivity with economic and socio-cultural sensitivity.

Criteria		Sensitivity Ecology		
		Tall	Currently	Low
Economic and Socio-Cultural Sensitivity	Tall	Protection	Utilization	Utilization
	Currently	Protection	Utilization	Utilization
	Low	Protection	Protection	Utilization

Based on the overlapping of ecological sensitivity and economic and socio-cultural sensitivity, the results obtained are as presented in Table 2. This directive will still undergo an adjustment process *referring* to applicable policies, input from experts and the results of public consultations.

Table 2. Development allocation block area

No.	Location	Current Block		Management	Analysis	Recommendation	
		Block	Area (m ²)			Block	Area (m ²)
1	Natural Waterfall Thousand between : pal 1 to pal 6, pal 18 to pal 22, pal 23 to pal 28, pal 67 to pal 75, pal 83 to pal 91, pal 92 to pal 106, pal 113 to pal 122, pal 124 to pal 127, pal 129 to pal 131, pal 132 sd pql 133, pal 136 to pal 143, pal 166 to pal 176	-	43,680,5664	There is a difference in the location of the boundary marker and the coordinate points, resulting in a shift in the area boundaries towards the outside of the area.	It is not in accordance with	Protect- ion	43,680,5664
2	Natural Waterfall Thousand between : Pal 155 to pal 158, Pal 144 to pal 152, Pal 176 to the river boundary	-	16,556,248	There is a difference in the location of the boundary marker and the coordinate points, resulting in a shift in the area boundaries towards the outside of the area.	It is not in accordance with	Utiliza- tion	16,556,248
3	Natural Waterfall Thousand between : pal 8 to pal 18, pal 28 to pal 31, pal 32 to pal 41, pal 46 to 67, pal 158 to pal 166	Protect- ion	33,357,384	There is a difference in the location of the boundary marker and the coordinate points so that there is a shift in the boundaries of the area into the area	It is not in accordance with	-	33,357,384

Based on the table above, there will be changes in the area of each block with the following considerations:

3.3.1. Protection block

Protection block is an area indicated will change, in addition or reduction, because there is difference location of boundary markers and points coordinates that will change in shifting of regional boundaries outside and inside areas in several areas.

3.3.2. Utilization block

Utilization block indicated will be wider. Because there is difference location of boundary and points coordinates that result in shifting of regional boundaries outside and inside areas in several areas.

4 Conclusion

Based on description and analysis as explained in the paper this , then in conclusion is Based on results field review there is difference wide Grojogan National Park area Sewu on documents arrangement blocks that have been approved with wide area on determination area issued by the Minister. Changes in the area of protection blocks and utilization blocks are caused by differences in the location of boundary markers and coordinate points that result in shifting area boundaries . Recommendations that can be given to managers are that the approved Grojogan Sewu TWA management block document needs to be reviewed and re-established based on an analysis of ecological, economic and socio-cultural principles by taking into account current area developments. Improve coordination with relevant *stakeholders* in order to optimize the development of tourism activities and secure the Grojogan Sewu TWA area.

References

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