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COMMUNITY EMPOWERMENT IN COASTAL COMMUNITY: CASE STUDY OF SOCIAL FORESTRY IN NORTH SUMATRA, INDONESIA

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THESIS

COMMUNITY EMPOWERMENT IN COASTAL COMMUNITY: CASE STUDY OF SOCIAL FORESTRY IN NORTH SUMATRA, INDONESIA

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Malang, Oktober 2019

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Longgak Arianto Tampubolon was born on September 24, 1981 in Jakarta. He is the first child of Daulat Tampubolon and Rospita Purba. He started his formal education in Public Elementary School of 04 Pulogadung, Jakarta in 1988. In 1994, he continued to Public Junior High School of 92 Rawamangun, Jakarta. Three years later, he entered Public Senior High School of 21 Kayu Putih, Jakarta. He Universities and was accepted in Bogor lava Unive Agricultural University in 2000. Bachelor of Forestry was acquired in 2005. S Brawijaya Universit He works for Ministry of Environment and Forestry since 2006. His office is Agency for Production Forest Management Region II Medan. In 2017, he was awarded scholarship on Linkage Program from Pusbindiklatren Bappenas. He

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universit ACKNOWLEDGEMENT rawijaya This thesis will not be finished without supports and cooperation from many parties. Therefore, I wish to greatly thank: ve 1.1. Minister of Environment and Forestry and her related officers; Unive 2. Agency Head for Production Forest Management Region II Medan; Sitas Brawijaya 3. Dean of Faculty of Administrative Science, Brawijaya University; Versitas Brawijaya awijaya 4. Program Head of Master of Public Administration, Faculty of Administrative Universita Science, Brawijaya University;vijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Unive 5. Dr. Hermawan, S.IP, M.Si and Dr. rer. pol. Romy Hermawan, S.Sos, M.AP as Universit SUPERVISORS Universitas Brawijava Universitas Brawijava awijaya Unive 6. Functionaries and members of Mekar; Aversitas Brawijaya awijaya All informants and their institutions;
 Village apparatus of Lubuk Kertang, Langkat; Universitas Brawijaya 9. My father and mother; awijaya 10. My wife and children; awijaya 11. My colleagues; awijaya 12. Dr. Elisheva Sadan, Paul Baerwald School of Social Work and Social Welfare, awijaya sitas Brawijaya the Hebrew University of Jerusalem. awijaya Malang, October vers 2019 rawijaya awijaya awijaya

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Longgak Arianto Tampubolon, Master of Public Administration, Faculty of Administrative Science, Brawijaya University, Malang, "Community Empowerment in Coastal Community: Case Study of Social Forestry in North Sumatra, Indonesia". Supervisor: Dr. Hermawan, S.IP, M.Si; Co-supervisor: Dr. rer. pol. ^{ve} Romy Hermawan, S.Sos, M.AP awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universit Coastal communities have to be empowered because of their low capacities lave University and reliance on mangrove ecosystem. Empowerment through social forestry aims liava not only to lift up their capacities but also to delegate authority in managing mangrove. This inquiry tries to analyze the process of empowerment conducted by coastal community by using Sadan's theory (2004) and its constraints. None has used the framework, so it is claimed as a pioneer in social forestry.

According to Sadan (2004), the process of empowerment consists of powerlessness, support, wish, consciousness, confidence and empowered organization. The process is happened both in individual and collective level with influence from external organizations.

Case study (Yin, 2009) is employed in this research through documentation study, in-depth interviews and direct observations. Further, construct validity, external validity and reliability are used to validate the data. In addition, the data is analyzed through self-articulation, manipulating data and information, confirming findings and expert review (Yin, 2009; Hancock and Algozzine, 2006).

Prior to 2013, the group was not fully empowered. The group was established as a prerequisite in government projects. In addition to the projects, the group was inactive. Post 2013, the group is active and conducts regular activities. External interventions are considered to have significant impacts either on individual or group capabilities. However, two constraints are emerged from the process i.e. high dependency on economic incentive and the weak enforcement of rules and sanctions.

This research also suggests to modify Sadan's theory (2004). The finding reveals that the process of empowerment is implemented through powerlessness, wish, support, consciousness, confidence and empowered organization. It is argued that the group needs to raise its wish to reach the support. In other word, Unive the wish is a prerequisite for the support.

Unive Keywords: empowerment, Sadan, social forestry, coastal community ersitas Brawijaya

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Longgak Arianto Tampubolon, Magister Administrasi Publik, Fakultas Ilmu Administrasi, Universitas Brawijaya, Malang, "Pemberdayaan Masyarakat pada Masyarakat Pesisir: Studi Kasus Perhutanan Sosial di Sumatera Utara, Indonesia". Pembimbing Utama: Dr. Hermawan, S.IP, M.Si; Pembimbing Kedua: Dr. rer. pol. Romy Hermawan, S.Sos, M.AP Masyarakat pesisir harus diberdayakan karena mereka memiliki kapasitas yang rendah dan bergantung pada ekosistem mangrove. Pemberdayaan melalui

perhutanan social bertujuan tidak hanya untuk mengangkat kapasitas mereka tapi juga untuk mendelegasikan wewenang dalam mengelola mangrove. Penelitian ini mencoba menganalisis proses pemberdayaan yang dilakukan masyarakat pesisir dengan menggunakan teori Sadan (2004) dan hambatan-hambatannya. Belum ada yang menggunakan kerangka ini, sehingga ini diklaim sebagai yang pertama dalam perhutanan sosial.

Menurut Sadan (2004), proses pemberdayaan terdiri dari ketidakberdayaan, dukungan, keinginan, kesadaran, kepercayaan and kelompok yang berdaya. Prosesnya berlangsung baik pada level individu maupun pada level kolektif dengan pengaruh dari organisasi luar.

Studi kasus (Yin, 2009) diaplikasikan pada penelitian ini melalui studi dokumentasi, wawancara mendalam dan pengamatan langsung. Lebih lanjut, validitas konstruk, validitas eksternal dan reliabilitas dipergunakan untuk memvalidasi data. Sebagai tambahan, data dianalisis dengan artikulasi sendiri, manipulasi data dan informasi, konfirmasi temuan dan ulasan pembimbing (Yin, 2009; Hancock and Algozzine, 2006).

Sebelum 2013, kelompok tidak sepenuhnya berdaya. Kelompok didirikan sebagai salah satu syarat dalam proyek pemerintah. Selain proyek, kelompok tidak aktif. Setelah 2013, kelompok aktif dan melaksanakan kegiatan rutin. Intervensi eksternal dianggap memiliki dampak penting terhadap kemampuan individu dan kelompok. Namun, dua hambatan muncul dari proses, seperti ketergantungan yang tinggi terhadap insentif ekonomi dan penerapan aturan dan sanksi yang lemah.

Penelitian ini juga menyarankan untuk memodifikasi teori Sadan (2004). Temuan mengungkapkan bahwa proses pemberdayaan terlaksana melalui ketidakberdayaan, keinginan, dukungan, kesadaran, kepercayaan dan kelompok yang berdaya. Hal ini karena kelompok perlu membangkitkan keinginan untuk mencapai dukungan. Dengan kata lain, keinginan adalah syarat bagi dukungan. Keywords: pemberdayaan, Sadan, perhutanan sosial, masyarakat pesisir

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawinger PREFACE

By giving thanks to the Lord Jesus Christ, I would like to present this thesis entitled Community Empowerment in Coastal Community: Case Study of Social Forestry in North Sumatra, Indonesia. This thesis analyzes the process of ^{ve} empowerment conducted by a farmer group in Lubuk Kertang, Langkat through lave social forestry. Initially, local people are powerless because of their physical and social environment. Awareness and external intervention drive them to act Unive individually and collectively. So that they can become empowered. Universit However, it is realized that this work still has many deficiencies linguistically lava and technically. Any suggestion is considered helpful to perfect this inquiry. In addition, deeper and wider research is still needed to enrich our comprehension relating social phenomena.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya LIST OF ABBREVIATIONS awijaya UniverAD's Brawija Anggaran Dasar (statute) Universitas Brawijaya UniverART Brawija Anggaran Rumah Tangga (ordinance) Brawijaya UniverBNIs BrawijaBank Negara Indonesia ya Universitas Brawijaya Univer BPDAS will Balai Pengelolaan Daerah Aliran Sungai (Watershed Management Vilava Universitas Brawija Agency) ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya BPHM Balai Pengelolaan Hutan Mangrove (Mangrove Management Agency) ersitas Brawijaya Universitas Brawijaya Community forestry wijava Universitas Brawijaya CF CFM Collaborative forest management CSR Corporate social responsibility Dinas Kehutanan dan Perkebunan (Regency's Service of Forestry Dishutbun and Plantation) Dinas Kehutanan Provinsi Sumatera Utara (Forestry Service of Brawlaya Univer Dishutsu^{wija} Universitas Brawijaya North Sumatra) UniverFUG B Forest users group Univer GNRHL Gerakan Nasional Rehabilitasi Hutan dan Lahan (National itas Brawijaya awijaya Movement for Forest and Land Rehabilitation) HD Hutan Desa (Village forest) HTR Hutan Tanaman Rakyat (Community plantation forest) versitas Brawijava Indonesian Rupiah IDR JFM Joint forest management Kementerian Lingkungan Hidup dan Kehutanan (Ministry of as Brawijaya KLHK Environment and Forestry) Kesatuan Pengelolaan Hutan (Forest Management Unit) KPH KTP Kartu Tanda Penduduk (Identity card) Pengakuan dan Perlindungan Kemitraan Kehutanan (Recognition Kulin and Protection for Forestry Partnership) LPM Lembaga Pemberdayaan Masyarakat (Community Empowerment Institute) **UniverMPA** Mangrove Protection Area Univer MoU Memorandum of Understanding Non-governmental organization UniverNGO Naskah Kerjasama Kemitraan (Manuscript of Partnership stas Brawlava UniverNKK Cooperation) Univer NTFP Non-timber forest product PT Pelita Nusantara Sejahtera PNS R Rencana Kerja Tahunan (Annual Work Plan) RKT SBB PT Sari Bumi Bakau Universitas Brawijaya VFPMC Village Forest Protection and Management Committee awijaya VLP Village Land-use Plan awijaya Yayasan Gajah Sumatera Yagasu Universitas Brawijava^{XIII}niversitas Brawijava

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Universitas Brawijaya Page awijaya Universitas Universitas Browijaya Universitas Brop/ijaya Iniversitas Brawijaya awijaya awijaya awijaya Universitas Bravijava INTRODUCTION awijaya Universitas Brawijaya Universitas Brawijaya 1.1. Background awijaya awijaya Empowerment has become a prominent issue worldwide since development awijaya awijaya relied on economic growth has been blamed to create inequality (Chambers, 1983; awijaya ijaya Universitas Brawijaya Unive Peet and Hartwick, 2009). The conventional practice of development is not only lava awijaya awijaya Unive creating inequality among population (Milanovic, 2016) characterized by a huge lava awijaya awijaya wealth gap between the rich and the poor (Chambers, 1983; Peet and Hartwick, awijaya awijaya 2009) but also in tune with the denial of local community existence. Further, awijaya awijaya Andersen and Siim (2004) argue that the politics of inclusion and empowerment, awijaya awijaya and the paradigms of inclusion/exclusion are to underline the close link between awijaya awijaya issues surrounding economic inequality and the recognition of cultural difference. awijaya awijaya Echoing this issue, the notion of development needs to be enlarged (UNDP, awijaya Unive 2010), but in specific context (Pieterse, 2010). It emphasizes people's freedom available awijaya awijaya (UNDP, 2010). It also focuses on people as individual and community; uses human awijaya awijava resources, social capital, local knowledge, and bottom-up approach; features awijaya equality; is based on participation, sustainability and democratization; is conducted awijaya awijaya through partnership and mutual obligation; is indicated by human development awijaya awijaya index (Pieterse, 2010). Focus on local circumstance is not negotiable because awijaya awijaya natural and social orders must be produced together, and nature and society are Universitas Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive inseparable (Jasahoff, 2004). Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universit Local involvement usually features greater access and representation applying java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive to all social and economic groups (Goodsell, 2006). These include vulnerable Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya groups in societies such as people which are prone to disasters (Mimaki et al, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 2009), elderly population and women (Sodei, 1993), natural-resourceand awijaya dependent communities (Kusel, 2001). The latter communities such as coastal communities need to be prioritized and assisted because of their dangerous Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University environments (Kusky, 2008), climatic change (Houghton et al, 1996; Watson et al, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 1996), and low level of development (Hossain et al, 2006; Mondal et al, 2006). awijaya awiiava Their participation is the most important element because those living in a given awijaya awijaya area know that area's problems and difficulties very well, and their involvement can awijaya awijaya lead to better and more effective decisions and initiatives (Argiolas et al, 2009). awijaya awijaya [©] Furthermore, the active participation of the entire community can promote long and awijaya ersitas Brawijaya awijaya lasting local development. This participation stimulates the distribution of awijaya awijaya responsibilities and resources among a plurality of people. awijaya Many nations use empowerment approach in different ways. Developing awijaya awijaya countries which have abundant forest resources apply empowerment to devolve awijaya awijaya their discretion in forest management (Balooni and Inoue, 2007). Meanwhile awijaya awijaya developed countries, such as Japan, employ empowerment in order to strengthen awijaya awijaya their population in anticipating natural disasters (Mimaki et al, 2009) and to assist awijaya awijava their vulnerable groups (Sodei, 1993). Japan is known for its vulnerability to awijaya Unive disasters such as tropical cyclones, earthquakes, volcanoes and tsunamis. The liava awijaya Universitas Brawijaya Unive government employs empowerment through organization establishment to java awijaya Universitas Brawijaya Universitas Brawijaya awijaya improve community-based disaster preparedness (Mimaki et al, 2009). awijaya awijaya Government assists local communities and groups through financial supports, awijaya awijaya trainings and sharing information. It is expected that it can promote residents' participation and contribute to building a resilient community. In developing countries, community empowerment in forest management is considered as a shift in forestry regime from command and control approach to versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava collaborative governance (Balooni and Inoue, 2007). Previous state-centric mechanism focused on the production of wood and timber (Castañeda, 2000) and practiced unsustainable levels of exploitation of forest resources (FAO, 2016). It Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive has been criticized because it failed to account for a wide range of economic, social awijaya university and cultural benefits (Wang, 2004), benefited elites and stakeholders in available awijaya awiiava governmental and industrial entities (Lebel et al, 2004), and led to deforestation awijaya awiiava (FAO, 2016). Furthermore, this has resulted in local community impoverishment awijaya awijaya itas Brawijaya (Lebel et al, 2004) awijaya awijaya In India, indigenous recognition was not as part of forestry regime and local awijaya awijaya existence tended to be neglected (Corbridge and Jewitt, 1997), further, local awijaya awijaya protests directed at state monopoly over commercial extraction and restrictions on awijaya subsistence use of the forests become one of triggers in paradigm shift in forestry awijaya awijaya regime (Baumann, 1998). Indonesian policies on forestry development tend to awijaya awijaya utilize forest resources through large-scale companies and negate the community awijaya awijaya in and around forests (Soepijanto et al, 2013). For decades, Ghana's experiences awijaya awijaya have focused on timber industry and this has marginalized local communities in awijaya awijava forest management (Akamani et al, 2015). The Nepalese exclusionary model of awijaya Unive forest management has contributed to unregulated extraction, creating conflicts java Unive between local communities and government, and these further have led to forest laya awijaya Universitas Brawijaya Universitas Entranta Unive degradation (Springate-Baginski et al, 2003). In addition, facing the depletion of awijaya awijaya natural forest and to create local-context development, Laos has developed awijaya awijaya community forestry (Hodgdon, 2010). Many South and Southeast Asian countries translate shift on forest governance into national policies aiming to increase local livelihoods, and to restore and to protect forest. India adopts joint forest management (JFM) where government sets versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava forest management objectives while responsibilities and benefits are shared awijaya between government and local people (Balooni and Inoue, 2007). Communitybased forest management is employed in Philippines in form of responsibilities Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya transfer from government to local communities (Pomeroy and Carlos, 1997; Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive Balooni and Inoue, 2007). Nepal handovers community forestry to forest user available awijaya awijaya groups (FUGs) for their collective management and benefits (Balooni and Inoue, awijaya awijaya 2007). Laos introduces village forestry which gives villagers control over all aspects awijaya awijaya of forest management. However, this has evolved become participatory awijaya awijaya sustainable forest management where villagers are not allowed to sell logs freely awijaya tas Brawijaya awijaya to maximize the benefits sharing of revenues from timber sales (Hodgdon, 2010). awijaya awijaya Indonesia has similar experience and it is applied in multi-level national niversitas Brawijaya awijaya regulations. Forestry Law No. 41 of 1999 explicitly states that forest management awijaya awijaya has to consider local communities and their traditions. Its derivative (Governmental awijaya awijaya Regulation No. 6 of 2007) also clearly mentions that community involvement can awijaya awijaya be applied through hutan tanaman rakyat (community plantation forest), hutan awijaya awijaya desa (village forest), hutan kemasyarakatan (community forest), and kemitraan awijaya awijaya ^{ve} (partnership). Each form has specific scope and mechanism, and is further lave awijaya Univerregulated through ministerial regulations. Except kemitraan, all kinds of ava awijaya Unive empowerment are held in no-permit areas and are intended to develop societal awijaya Universitas Brawijaya Universitas Entrine Unive capacity and to give community access in managing forest area sustainably in lava awijaya awijaya order to create employment, to alleviate poverty, and to solve social matters. It awijaya awijaya aims to improve local community welfare by means of forest resource utilization awijaya optimally, fairly and sustainably while maintaining the sustainability of forest and environmental functions. Its location is considered as area from which local ^{Unive} community depend on ersitas Brawijaya Universitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Many authors have revealed the practices of forest governance in developing countries. Agrawal and Yadama (1997) argue that India became the first nation practicing forest devolution in 1931. In 1988, forest policy recognized the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive importance of local people's involvement in forest management for improving local Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive livelihood and the protection of forest resources (Behera and Engel, 2006). Further, java awijaya awiiava in 1990, the guidelines of JFM were issued. It gives local people management awijaya awiiava rights. Behera (2009) finds that people awareness in JFM has increased. Realizing awijaya awijaya that forests have high economic value, local communities tend to protect the forests awijaya awijaya for collective present and future benefits. In addition, small-size groups are more awijaya awijaya likely to have better managed forests than the larger size, because smaller JFM awijaya awijaya communities are more likely to cooperate for collective management and iversitas Brawijaya awijaya protection of forests than larger communities, as free riding problems can more awijaya easily be overcome in small groups. However, JFM implementation faces some awijaya awijaya problems (Behera and Engel, 2006). First, local groups are very dependent on awijaya awijaya outsiders such as governmental officers and non-governmental organizations awijaya awijaya (NGOs). Second, they do not practice appropriate silviculture. Third, rule awijaya awijava ^{ve} enforcements are barely applied. Fourth, information asymmetric and rent-seeking awijaya Unive practices are existed. Universit Nepal started its community forestry (CF) in 1975 by giving limited incentive to java awijaya Universitas Brawijava Universitas Brawijava Unive local users. In 1982, change in policy prioritized people's participation in forest awijaya awijaya management to fulfil their subsistence needs. The concept of 'Forest User Groups' awijaya awiiava was introduced in 1987. Further, forests in the Middle hills handed over to FUGs in 1988, and government allocated 47% of investment to support CF. Each FUG is in charge in developing and executing management plans, including the use of forest resources and the level of products harvested (Springate-Baginski et al,

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 2003). Studies by Yadav et al (2003) and Dev et al (2003) show that FUGs have positive perception on CF. There is a general sense that forest product supply has improved and is more accessible, and that supply has been ensured for the future. Universitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In addition, there is also positive changes in the levels and security of forest Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive products and benefit flows. Therefore, household livelihood/income generation awijaya awiiava gives more opportunities. Furthermore, human, social and physical capital of local awijaya awiiava people are increased. However, its implementation results in some problems such awijaya awijaya as marginalization of the poor, elite domination and poor exclusion in decision awijaya awijaya making, inequity of high royalty charges, disproportionate restrictions of forest use, awijaya awijaya and less support from government. awijaya awijaya Study by Aheto et al (2016) in Ghana elucidate that in 1991, local people awijaya established a group to halt the unsustainable exploitation of mangrove and to awijaya improve mangrove ecosystem. This group was formally registered with 20 awijaya members. In 1992, the group initiated systematic mangrove rehabilitation. It awijaya awijaya conducted simple silvicultural technique such as collecting wild seedlings, and awijaya awijaya planting and weeding them. Internally, the group strengthened its capacities and awijaya ^{ve} this resulted in greater trust among leaders and members. The experiences have awijaya Unive helped all members in gaining credibility in their community. Furthermore, the jaya Unive group reached a deal on benefit sharing between group, local government and lava awijaya Universitas Brawijaya Universitas unive land owners. The group has also built effective networks with other local awijaya awijaya institutions. Massive planting has increased mangrove extent as a result of the awijaya awijaya socio-economic benefits derived from the initial natural mangrove cover. This activity has also given additional income from mangrove exploitation. In addition, the credibility has created access to credit, loans and investment opportunities. The rehabilitated mangrove also becomes good grounds for the continued supply versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava of fisheries resources including crabs, oysters, clams and tilapias. As of 2012, the awijaya group members became 43 villagers. ijaya Universitas Brawijaya awijaya Versi Research on community based mangrove management in Indonesia by Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Damastuti and de Groot (2017) show that each group has unique characteristic in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya applying community empowerment. An independent group stimulates selfawijaya awiiava empowerment in mangrove management. All activities are carried out awijaya awiiava independently using funds collected from membership dues. However, the awijaya awijaya activities are only temporary and depend on external funding. Groups assisted by awijaya awijaya external entities rely their activities on NGOs and government supports. awijaya ersitas Brawijaya awijaya Government assistances are usually in planting activity only, meanwhile NGOs awijaya awijaya assist local group in long term period including mangrove planting and monitoring, niversitas Brawijaya awijaya education and training, construction, and income diversification projects. However, awijaya awijaya some drawbacks are existed. First, community is very dependent on outsiders' awijaya awijaya help. Second, planting activities are exercised with inappropriate silviculture. Third, awijaya awijaya elite members still dominate in membership mechanism and project execution. awijaya awijaya From many experiences, community empowerment is conducted collectively awijaya University and needs active participation from all stakeholders. Self-empowerment cannot awijaya Unive survive because of group limitations (Damastuti and de Groot, 2017). Outsiders' Java Unive interventions are needed to strengthen local community capabilities (Agrawal and Java awijaya Yadama, 1997; Behera and Engel, 2006; Springate-Baginski et al, 2003; ava awijaya awijaya Damastuti and de Groot, 2017; Sadan, 2004). These interventions can be in the awijaya awijaya forms of funding, knowledge transfer and capacity building (Springate-Baginski et awijaya awijaya al, 2003; Damastuti and de Groot, 2017; McDougall et al, 2013). Empowerment results in better local ecosystem (Aheto et al, 2016; Damastuti and de Groot, 2017; Pénelon, 1994), increasing people's awareness (Behera, 2009), positive versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava perception on community forestry (Yadav et al, 2003; Dev et al, 2003), improving local livelihoods (Behera, 2009; Aheto et al, 2016; Damastuti and de Groot, 2017), increasing human, social and physical capital of local people (Yadav et al, 2003; Universitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Dev et al, 2003), and gaining credibility in community (Aheto et al, 2016). Las Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit However, the implementation also delivers some relative problems such as java awijaya awiiava local dependency on outsiders, i.e. governments and NGOs, and inappropriate awijaya awiiava silvicultural practices (Behera and Engel, 2006; Damastuti and de Groot, 2017), awijaya awijaya elite domination (Yadav et al, 2003; Dev et al, 2003; Damastuti and de Groot, 2017; awijaya awijaya McDougall et al, 2013; Persson and Prowse, 2017), discriminative treatments awijaya awijaya (Yadav et al, 2003; Dev et al, 2003; Corbridge and Jewitt, 1997), low rule awijaya awijaya enforcements (Behera and Engel, 2006; Corbridge and Jewitt, 1997; Persson and iversitas Brawijaya awijaya Prowse, 2017), information asymmetric (Behera and Engel, 2006; Persson and awijaya Prowse, 2017) and rent-seeking practices (Behera and Engel, 2006). In some awijaya cases, local people are still timber-oriented (Pénelon, 1994). awijaya awijaya Behera (2009) gives warn that promoting collective forest management in a awijaya awijaya degraded forest may not provide economic incentives for the local communities. awijaya Unive Therefore, people's sacrifice in rehabilitating degraded environment requires trade awijaya Unive off especially in short term (Damastuti and de Groot, 2017; Corbridge and Jewitt, Java awijaya Universitas Brawijaya Unive 1997). Any funded project is usually coupled with direct benefits to compensate lava awijaya Universities Unive local people works (Damastuti and de Groot, 2017). Persson and Prowse (2017) awijaya awijaya also stress that government should not restrict local opportunities for generating awijaya awijaya endogenous benefits, because it will trigger community to be depended on the external sources of funding. Therefore, fund-dependent attitude must be avoided. Corbridge and Jewitt (1997) and Damastuti and de Groot (2017) suggest that local ^{ve} communities need assistances such loans or grants to set up small businesses. versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava As a part of coastal environment, mangrove ecosystem gets distinctive awijaya attention from many scholars and international institutions because of its unique ecosystems, functions, and existence. Mangrove is only found along sheltered Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive coastlines, in deltas and river banks in the tropics and subtropics (FAO, 2006). Due Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive to its location, mangrove formations are constantly influenced by marine and lava awijaya awiiava terrestrial factors which make them salt-tolerant forest ecosystems. This also awijaya awiiava governs to a great extent the local distribution of species and their succession. awijaya awijaya Because of its unique characteristics, mangrove is very important to human awijaya awijaya populations (Lodhia, 2011; Nguyen et al, 2016). Mangrove ecosystem provides not awijaya awijaya only goods for fulfilling individuals' needs but also services for general functions. awijaya awijaya Many coastal communities rely on mangrove ecosystem for goods and services and services niversitas Brawijaya awijaya (FAO, 1994, 2005, 2007, 2016; Ahsan, 2014; Basyuni et al, 2016; Hastuti and awijaya awijaya Yuliati, 2017; Malik et al, 2015). They utilize mangrove either directly or indirectly awijaya awijaya through the extraction of wood and non-wood forest products. Uddin et al (2013) awijaya awijaya report that the average annual revenue of the provisioning services of the awijaya awijaya Sundarbans mangrove in Bangladesh is estimated US\$744,000 annually. Among awijaya awijava ^{ve} all products, revenue earning is highest from timber (US\$0.4 million), followed by awijaya Unive fish (US\$0.2 million), thatching materials, fuelwood, crab, honey and wax. Further, java Unive the economic value of cultural services is estimated US\$42,000 annually. Study by awijaya Universitas Brawijava Universitas Brawijava Unive Singh et al (2010) show that even though the percentages of non-timber forest lava awijaya awijaya product (NTFP) collectors are only between 6% and 9%, the contribution of NTFPs awijaya awijaya is enormous in the total annual household income (79%). In Brazil, as many as 83% of rural households are dependent on mangrove either for subsistence or for commercial mangrove production (Glaser, 2003). Mangrove also plays an important role in providing habitats for animal species. rsitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava Study by Anneboina and Kumar (2017) shows that the percentage contribution of mangrove to marine fisheries is estimated 23 percent giving the monetary value as Rs. 68 billion in India in 2012-2013. Mangrove ecosystems are not only rich in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University but they also serve as protection areas from natural disasters such as java awijaya Unive cyclones, erosion from sea level rise and tsunamis (FAO, 1994, 2005, 2007, 2016). awijaya awiiava Despite its essential benefits, mangrove ecosystem faces many pressures from awiiava awiiava high population, mangrove conversion, overexploitation and pollution (FAO, 2006, awijaya awijaya 2007; Ilman et al, 2011; Maryantika and Lin, 2017; Barbier, 2016; Davie, 1997; awijaya awijaya Kustanti et al, 2014; Malik et al, 2015). Mangrove is losing its habitats (FAO, 1994) awijaya awijaya and this has resulted in declines in local fish catches (FAO, 2005). The continuing awijaya versitas Brawijaya awijaya degradation and depletion of mangrove will reduce not only terrestrial and aquatic awijaya production and wildlife habitats, but more importantly, the environmental stability awijaya of coastal forests that afford protection to inland agricultural crops and villages will awijaya awijaya become seriously impaired (FAO, 1994). awijaya awijaya Because of these situations, the existing mangrove needs to be maintained and awijaya awijaya the degraded mangrove needs to be restored. Mangrove conservation must awijaya Unive involve various stakeholders such as government agencies, NGOs, local lave awijaya Unive communities and scientists (Abdullah et al, 2014; Farley et al, 2010). Besides these Java awijaya Universitas Brawijaya Universtakeholders, Auladi (2013) adds that mangrove conservation through available awijaya Universitas Brawijaya Universitas Stationer unive environmental education must also include educational institutions and awijaya awijaya enterprises. Further, Baral and Stern (2011) state that the success of conservation awijaya awijaya programmes is depended on marginalized people participation. Many scholars have studied people empowerment in forest governance and conservation projects. However, it is claimed that these scientists give focus for certain parts such as shortfalls (Akamani et al, 2015; Persson and Prowse, 2017;

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awijaya Corbridge and Jewitt, 1997), history (Corbridge and Jewitt, 1997; Damastuti and awijaya de Groot, 2017), individual level and researcher intervention (McDougall et al, 2013), economic outcome (Damastuti and de Groot, 2017), and participation in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive projects (Baral and Stern, 2011). wijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit This inquiry tries to relatively comprehend these aspects by including awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya rationales, history, individual and collective level, outsiders' intervention awijaya awijaya (governmental agencies, NGOs and enterprises), and relative outcomes. By awijaya awijaya connecting various aspects, its analysis is expected to be comprehensive and the awijaya awijaya findings can become reference for interested parties. However, it is realized that awijaya awijaya this inquiry faces some challenges. First, it uses relative outcomes. As Sadan awijaya awijaya (2004) argue, empowerment framed in social context is a dynamic process and awijaya awijaya there is no final outcome. Second, it does not consider economic outcomes through java awijaya guantitative approach. awijaya awijaya awijaya awijaya 1.2. Research Questions awijaya awijaya From propositions in sub-chapter 3.2. and literature review in chapter 2, awijaya awijaya research questions are constructed as follows: awijaya awijaya 1) How is the process of empowerment through social forestry implemented by awijaya Universitas ersitas Brawijaya awijaya Universit coastal community? Universitas Brawijaya Universitas Enteringura Universitas Brawijaya awijaya awijaya 2) What are the constraints in the process of empowerment through social forestry awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit implemented by coastal community? Universitas Brawijaya awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Based on research questions and the examination of existing theories, this Universitas Brawijaya Universitas Brawijaya research tries to: Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya 1) Analyze the empowerment process through social forestry implemented by awijaya Universitas Bravijaya Universitas Brawijaya Universitas Brawijaya versitas Brawijaya 2) Describe the constraints and possible solutions in the process of empowerment Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit through social forestry implemented by coastal community. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Univer1.4. Research Benefits as Brawijava Universitas Brawijaya awijaya awijaya 1.4.1. Academic Benefits awijaya awijaya Some academic benefits derived from this research are: awijaya awijaya (1) Researcher has searched the topic of research through Emerald Insight awijaya awijaya ProQuest, ScienceDirect and JSTOR with no result. Researcher has used the awijaya awijaya words "empowerment", "coastal", "mangrove", "forest", "governance", "Lubuk ersitas Brawijaya awijaya awijaya Kertang", "Sadan" and their combinations. It is claimed that the topic has not awijaya been analyzed yet. Therefore, it tries to pioneer an inquiry by using Sadan's awijaya awijaya theory (2004). awijaya awijaya (2) Regarding to the previous argument, it is also to enrich the existing literature. awijaya awijaya awijaya awijava 1.4.2. Practical Benefits awijaya awijaya Universit Some practical benefits derived from this research are: ava awijaya awijaya 1) The findings will provide basic understanding on empowerment process. awijaya awijaya Universit Further, they can support governmental regulations and programs. Sites Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive 2) Constraints and possible solutions can assist local community to improve available awijaya awijaya Universit empowerment process Brawijaya Universitas Brawijaya awijaya awijaya awijaya

Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universitas Bravijava awijaya Universita Universita LITERATURE REVIEW rawijaya Universitas Brawijaya Universitas Brawijaya 2.1. Public Administration Brawijaya Universitas Brawijaya wiiava Universitas Brawijaya awijaya awijaya The earlier practices of public administration are characterized by loyalty to awijaya awijaya certain people instead of state. This usually results in corrupt practices or abuse of awijaya aya Universitas Brawijaya Universitas Brawijaya Univergovernmental means for individual interests. In nineteenth century, the available awijaya awijaya University administration of the United States is characterized by spoils system where awijaya awijaya politicians have a great influence in appointing every administrative job without awijaya awijaya considering any expertise. Britain has similar system where patronage becomes awijaya awijaya its main notion (Hughes, 2003). awijaya awijaya Administrative reform in the United States is greatly influenced by Woodrow awijaya awijaya Wilson whereas Max Weber affects Europe. Wilson makes dichotomy between awijaya awijaya politics and administration. He argues that policy making is the domain of awijaya Univerpoliticians, while administrative apparatus is responsible for its implementation. awijaya awijaya Administration is also presumed to be anonymous and neutral. Meanwhile, Weber awijaya awijava formulates the theory of bureaucracy by introducing merit system. Weberian awijaya awijaya system emphasizes the importance of an organization and its rules. The idea of awijaya awijaya bureaucracy is mostly efficient form of organization applied to large organizations awijaya awijaya either private or public (Hughes, 2003). awijaya Universitas Brawijaya Universitas Brawijaya awijaya

The theory of bureaucracy is further influenced by Taylor's scientific management. It fits with the competencies of administrator, the assortment of manuals to deal with every possibility, the advancement of rationality, and impersonality. Mayo's theory of human relations gives influence to the management of public sector. Mayo considers that workers' interests is more awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava important in increasing productivity rather than economic incentives (Hughes 2003). Further, Gulick (1937) introduces POSDCORB or Planning, Organizing, Staffing, Directing, Coordinating, Reporting, and Budgeting. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit However, the traditional theory of public administration faces some challenges Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive especially bureaucracy problem and criticism in public service (Hughes, 2003). awijaya awiiava Two problems emerge from bureaucracy theory i.e. ambiguous link between awijaya awiiava bureaucracy and democracy, and bureaucracy is considered as an inefficient type awijaya awijaya of organization. On the other side, public choice proponents criticize the rigid form awijaya awijaya of bureaucracy. They argue that it is not efficient than market mechanisms. Public awijaya awijaya choice arguments are reducing public sector roles and emphasize market roles in awijaya awijaya providing public goods and services. awijaya Traditional approach is considered as insufficient system of administration. The awijaya awijaya approach has shifted through inducing managerial approach. Two common terms awijaya awijaya are "public management" or "new public management" (Hughes, 2003). Since the awijaya awijaya early 1980s Britain and the United States have become two main countries awijaya awijaya transforming 'public administration' into 'public management' (Chandler, 2010). awijaya awijava Universit The shift changes the traditional administrative model in few aspects. First, it awijaya Unive gives greater attention on individual performance. Second, bureaucracy becomes java Unive more flexible. Third, the measurement of organizational and personal achievement is available. awijaya Universitas Brawijaya Universitas Dramava Unive is conducted through performance criteria. Fourth, higher-rank staff tends to be ava awijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawiiava awijaya politically entrusted to government. Fifth, government functions are gradually awijaya awijaya replaced by private sector (Hughes, 2003). However, managerialism is also criticized because it is opposed to the attitude of public service, contrary to service provision and not democratic. The capacities of public services are seemed to be disenchanted for several reasons. First, oil

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava crisis of the 1970s squeezed public service with less budget and fewer staff. awijaya Second, in the 1980s, shift on the management of the public service dominantly awijaya derived from politicians, rather than government. Third, economic crisis demanded Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University private sector to enhance competitiveness and management. Finally, the growth Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive of government resulted in an intellectual atmosphere favorable for reducing awijaya awijava government roles (Hughes, 2003). awijaya itas Brawijaya awiiava The shift is still continuing along with its implementation. The previous reform awijaya awijaya characterized by cost efficiency and technical specialization has been replaced awijaya awijaya with new public management representing a shift of public sector and its awijaya awijaya connection with bureaucracy and community (Hughes, 2003). awijaya awijaya Some perspectives on public management reforms have been phrased by awijaya scholars such as Hood (1991), Holmes and Shand (1995), and Pollit (2001). Hood awijaya awijaya (1991) terms the reform as new public management based on managerial awijaya awijaya programme. Adopting World Bank and OECD perspectives, Holmes and Shand awijaya awijaya (1995) regard new public management as a good managerial approach. Pollit awijaya awijaya (2001), Frederickson et al (2012) and Chandler (2010) argue that new model has awijaya awijava Universide some general elements such as focus on result, more measurement on lave awijaya Univerperformance, specialized and autonomous organizations, downsizing and java Unive decentralizing government's role through public-private partnership (hybrid lava awijaya Universitas Brawijaya Universitas Datamate awijaya Unive organization), contractual hierarchical relationship, public service delivery through lava awijaya awijaya market mechanism, and efficiency and individualism. Brawijava awijaya awijaya Regardless, new public management has been challenged by some issues. awijaya awijaya These issues include economic basis, incompatibility in private applving management, politicization, reduced accountability, and ethical and morale problems (Hughes, 2003). Critiques on new public management has raised debate versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava on governmental roles and functions. Government is regarded to have fundamental roles differently from private mechanism. It also redistributes income from the rich to the poor. Stiglitz (2001) in Frederickson et al (2012) argues that Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya univergovernment also has special responsibility to create institutional infrastructure awijaya Unive including adequate policies and authorized institutions to carry out the policies. awijaya awiiava The incompatibility of private management induced to public sector has raised another mode of administration. Governance is viewed as general types of awijaya governing which are not merely formal government (Hughes, 2003). Governance awijaya awijaya has reached popularity in expanding the horizon of public administration either in awijaya awijaya practical field or theoretical field (Frederickson et al, 2012). Although the term of awijaya awijaya governance is defined and demonstrated in many different ways, it exhibits some awijaya generic characteristics. It recognizes the roles among stakeholders Bi.e. ijava awijaya government and non-government (Krahmann, 2003) to promote joint partnership awijaya among them in order to improve the performance of the implementation of public awijaya programs as well as to reflect the diverse values of citizens and groups in making awijaya awijaya policies and solving social problems (Jun, 2006). For Peters and Pierre (1998), it awijaya Ve is one way to govern society with less intervention from government. Versitas Brawijaya jaya Universitas Brawijava Universit Governance is a general concept, including a various aggregate of factors and lava University of stakeholders. It incorporates intricate activities and interrelations awijaya Universitas Brawijaya Universitas Brawijaya Unive (World Bank, 2009). In Steurer's (2013) argument, governance becomes a general java awijaya awijaya term for diverse types of governing by governmental and non-governmental awijaya awiiava entities at all geographical tiers and even across them. Moreover, Howlett and Ramesh (2014) and Kettl (2002) state that it is about creating and encouraging a certain form of relation between governmental and non-governmental stakeholders in governing mechanism and delivering public services. Its aim is government ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava guiding main stakeholders to execute wanted activities in achieving of collective awijaya purposes (Howlett and Ramesh, 2014). awijava Universitas Brawijava Universitas Brawijava Peters and Pierre (1998) indicate that governance is characterized by four Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University basic aspects. First, the importance of networks. Public goods and services are awijaya Unive produced by various actors having influence over them. Second, less control from lava awijaya awiiava state. Governments can still influence public policy in forms of negotiation in policy awijaya awijaya networks. Third, the mixture of public and private resources. Governmental and awijaya awijaya non-governmental entities can mutually complement each other in utilizing awijaya awijaya resources. Fourth, the application of numerous means. Instead of traditional awijaya awijaya approach such as command-and-control regulations, indirect instruments such as awijaya awijaya tax incentives can be employed to persuade behavior. awijaya awijaya Governance reforms have become a central issue in policy debates in both java awijaya industrial and non-industrial governments since the 1980s (Howlett and Ramesh, awijaya awijaya 2014). Most of these movements are indicated by less direct involvement of awijaya awijaya government (Treib et al, 2007). awijaya awijaya In a simple way, many scholars conclude governance as collaboration awijaya awijava (Fairholm, 2010). Governance needs the engagement of various actors in resulting awijaya Unive joint decision (Ansell and Gash, 2007). In the recent public administration studies, Java Unive collective management has become an important issue and the importance of lava awijaya Universitas Brawijaya Universitas Brawijaya Unive public participation in public policy process has been revealed from their findings awijaya awijaya (Kumar et al, 2007). The need for collaboration escalates as knowledge is more awijaya awijaya specific and dispersed and as institutions are more intricate and coordinated awijaya (Ansell and Gash, 2007). As a consequence, this situation imposes governmental actors to collaborate with non-governmental actors by considering them as companions in the process of developmental activities (Kumar et al, 2007). Serawlaya versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Collaborative governance is defined as an administrative arrangement between awijaya governmental actors and non-governmental actors in a collaborative process of decision making in order to create or carry out public policy or to administer public Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya projects or resources (Ansell and Gash, 2007). Even though governments are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive usually the originators of collaborative governance, it needs cooperation by nonawijaya awijaya state actors. Collaboration also indicates that non-state entities possess actual awijaya awijaya obligation for policy results. Thus, it imposes that actors should be directly involved awijaya awijaya in decision making. awijaya awijaya Bosselmann et al (2008) state that some good governance indicators are awijaya awijaya participation, openness, accountability, transparency and predictability. However, awijaya awijaya Frederickson et al (2012) argue that governance obviously deal with accountability awijaya and legitimacy dilemmas. This possible solution comes from Koliba et al (2011) awijaya awijaya who provide an accountability structure for governance arrangements in three awijaya awijaya distinct forms i.e. democratic, market, and administrative, and eight distinct awijaya awijaya accountability kinds. The structure is originated from an analysis of crisis awijaya awijaya management responses, and is considered as the most suitable procedure for awijaya awijaya preventing the blame game among governmental agencies and encouraging a awijaya Unive common awareness of general concern. It is expected that all related stakeholders is available to the stakeholders is a stakeholder of the stakeholders is a stakeholder of the st awijaya Universitas Brawijaya awijaya Unive can coincide on primary image of accountability and legitimacy (Frederickson et al, Java awijaya Universitas Brawijaya Universitas Entiment awijaya Univer2012) Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Univer2.2. Development iversitas Brawijaya Universitas Brawijaya awijaya awijaya Universit Development is about how to make people life better and meaningful. It means have meeting people essential demands such as food, residence, health, basic services, and respect (Peet and Hartwick, 2009). Development aims to make a far better Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava world for all. However, development conception has developed based on the work of international organizations such as the World Bank (Willis, 2005; Chandler, 2010). Economics becomes its main notion and it is mainly expressed in some Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive wealthy standard such as Gross National Product (GNP), Gross Domestic Product Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya (GDP) and Gross National Income (GNI) (Peet and Hartwick, 2009; Willis, 2005; awijaya awijaya Ammendola, 2011), iversitas Brawijava Universitas Brawijava awijaya awijaya Development rooted in Western history was built in rationality approach. awijaya awijaya Science and technology, democracy and social organization, rationalized ethics awijaya awijaya and values integrate into the sole altruistic project to deliberately and cooperatively ersitas Brawijaya awijaya awijaya create a preferable life for everyone (Peet and Hartwick, 2009). As an ideal awijaya awijaya concept, development comes from Enlightenment originated in western Europe. It is a second seco awijaya roots on economic concepts influenced by philosophical belief of Western scientific awijaya awijaya rationalism which entails human emancipation. This emancipation includes awijaya awijaya scientific application on nature and self-emancipation. awijaya awijaya Classical development is influenced by Adam Smith's thought. For Smith, awijaya awijaya economic growth depends on capital accumulation. Productivity and growth can awijaya awijava be achieved through trade and markets and without state intervention. Market has awijaya Unive its own mechanism so called "invisible hand". However, Smith's view is criticized laya awijaya Universitas Brawijaya Unive by Jeremy Bentham, J. S. Mill and Friedrich List. Their critiques are related to Java awijaya Universitas Brawijava Universitas Brawijava awijaya Unive ethical value and state's intervention (Peet and Hartwick, 2009). Universitas Brawijava awijaya awijaya Economics moved from social notion to scientific area. Marginalist neoclassical awijaya awijaya economists constructed the idea of marginal productivity to encompass the replacement of a productive resource for another one in rational production approach. Alfred Marshall's work resulted in an approach of efficiency based on the cost minimization of production. Neoclassical economics is characterized by Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava market competitiveness, and that market mechanisms generally create the best amount of production and distribution. Government has limited interventions in ^a supplying sufficient education and promoting savings and investment. The theory Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya directs development into capitalism system where economic development is Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive influenced by production efficiencies by realistic producers and buyers meeting in lava awijaya awiiava free markets (Peet and Hartwick, 2009). awijaya Universitas Brawijaya Keynesian system attacks neoclassical economics by accentuating real awiiava awijaya awijaya investment as crucial variable. An investment will result in multiplier effects and awijaya awijaya state can intervene the mechanism through monetary and fiscal interventions. In awijaya awijaya long run, this effort must also be accompanied with technological development. awijaya awijaya However, economic crisis and political shift cause stagnation in Keynesian iversitas Brawijaya awijaya economies. Some political actors blamed soft-hearted Keynesianism and preferred awijaya to turn back to a more traditional political-economic system (Peet and Hartwick, awijaya 2009). awijaya awijaya Development economics emerges as a doubt towards the usability of awijaya awijaya neoclassical economics, with its premises of simply functioning markets, and saw awijaya ^{ve} government as being solution to the development progress. Big push theory or awijaya Unive balanced growth introduced by Rosenstein-Rodan suggests that development can jaya Unive be achieved through industrialization supported by international investment (Peet Java awijaya Universitas Brawijaya Universitas Brawijaya unive and Hartwick, 2009). Some programs started concurrently in various industries awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya may support markets for everyone. However, this approach is criticized by the awijaya awiiava theory of unbalanced growth. It is based on establishing conditions where citizens are imposed to create investment arrangements by intentionally unbalancing various fields of economy. Another notion of development economics is growth ^{ve} poles characterized by investments in propulsive industries in certain location. The

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava growth-pole strategy typically focused on investment at some certain locations to promote economic business and thereby increase levels of income and welfare within a region. Development economics is considered as a mixture of neoclassical Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive economics and Keynesianism. Relating to periphery-center relationship, Prebisch Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya (1972) in Peet and Hartwick (2009) suggests import substitution to support awijaya awiiava industrialization in Latin America. The strategy results in the impressive growth of awiiava industry. However, it also causes negative impacts such as expensive, inferior awijaya industrial goods and neglecting agriculture, and countries become very dependent awijaya awijaya on foreign capital. awijaya awijaya Many oppositions are addressed to previous mainstreams because of their awijaya awijaya failures. Based on the hypothesis of rationality, neoliberalism considers market as ilaya hiversitas Brawijaya awijaya the utmost factor of the direction of economic growth. Therefore, state intervention awijaya is not necessary needed. It is very clear when becoming standard in conventional awijaya international economic policy circles mainly Washington Consensus. Its policies awijaya awijaya could be outlined as reasonable macroeconomic approaches, apparent direction, awijaya awijaya and liberal market capitalism (Peet and Hartwick, 2009). Structural adjustment awijaya applied to high-debt nations by international financial institutions is criticized by awijaya ve Rodrik (2006) as a coercion against specific locality of the Third World. He further laya Unive introduces three steps in economic development. First, diagnostic analysis of the awijaya Universitas Brawijaya Universitas Dramin unive critical restraints on economic development. Second, proper policy making available awijaya awijaya targeted at the restraints. Third, institutionalizing two previous steps to guarantee awijaya awiiava that economic growth stays active. Universitas Brawijaya Universitas Brawijaya However, development relied on economic growth has been blamed to create inequality. Milanovic (2016) argues that inequality occurs among individuals within a nation, among countries and among all citizens in the world. Peet and Hartwick rersitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava (2009) state that its basic ethical aspect does not happen as economic wealth belongs to a small number of people, making the rich richer and more income ^{ve} inequality for most people. In this case, basically economic growth functions to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive convey resources to the existing rich. In the latest approach, the revolutionary form Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive of growth is basically distinct from the traditional economic development. Las Brawijava awijaya awiiava Regret with the conventional approach is a progressively general view awiiava awiiava (Pieterse, 2010). The key is not the national economy but citizen development. To awijaya awijaya enlarge the context of development, UNDP (2010) conceptualizes human awijaya awijaya development in 1990 "as a process of 'enlarging people's choices', emphasizing awijaya awijaya the freedom to be healthy, to be educated and to enjoy a decent standard of living." awijaya awijaya Pieterse (2010) says that the alternative of development can be social awijaya transformation. Korten (1990) in Pieterse (2010) describes development as a shift awijaya against fairness, inclusiveness and sustainability. He further suggests to redefine awijaya awijaya development as a mechanism by which citizens expand their capacities to organize awijaya awijaya resources to generate continuous and fairly allocated enhancements in their daily awijaya awijaya life corresponding with their desires. Sustainability is important because it has to awijaya fulfill the rights of the existing without sacrificing the capability of next generations awijaya Unive to fulfill their own rights (UNDP, 2010). Ammendola (2011) states that the Unive interaction of ideas such as economic development, fairness, personal ava awijaya Unive development, and the policies related to their enhancement is an aggregate portion liava awijaya awijaya of the course of development economics including poverty and institutions. awijaya awiiava In contrasting development models, Pieterse (2010) argues that development through social transformation must be originated from local context. It focuses on people as individual and community; uses human resources, social capital, local knowledge, and bottom-up approach; features equality; is based on participation, versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava sustainability and democratization; is conducted through partnership and mutual obligation; is indicated by human development index. Further, UNDP (2010) states ^{ve} that the inherent elements of citizens' privilege to lead their lives are empowerment, ^{java} Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya equity, and sustainability. Moreover, empowerment and participation become Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive central themes in development management (Pieterse, 2010). awijaya awiiava awijaya awiiava Unive 2.3. Empowerment awijaya awijaya 2.3.1. Background awijaya awijaya Demand for autonomy and independence are existed in human being, and that awijaya awijaya rights and obligations socially exist together in a specific equilibrium. Even though awijaya awijaya everyone does not have absolute freedom, individual has to be soreveign from awijaya awijaya restraints and situations of exploitation, discrimination and suppression. awijaya awijaya Sometimes people are restricted to develop their ability so that they cannot be able awijaya to act completely. Individuals endure and are abused because of disrespect, available awijaya awijaya discrimination. Marginalized Unive apathy, oppression and people produce awijaya awijaya powerlessness enforcing their livelihood and destiny (Sadan, 2004). Communities awijava feel tired with helplessness, unfairness and accusing the victim. awijaya The idea of empowerment emerges as an effort to tackle harsh social issues awijaya which are hard to overcome (Sadan, 2004). It also appears frequently in awijaya awijaya governmental policies dealing with poverty reduction (Alsop et al, 2006). The poor awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya has to be supported by fully engaging them in any programme for poverty reduction awijaya Unive and local development, and making sure that the programme indicate their needs java (Lister, 2004). Empowered activity means escaping from indifference, poverty and feel of irrelevancy that are many people have no influence over what influences them (Sadan, 2004).

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava The theory develops in social theories trying to link the person and the community, the micro and the macro (Sadan, 2004). From micro view, individual empowerment is a mode of expanding power and leaving the condition of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive powerlessness. From macro perspective, community empowerment is a common Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Unive social process mainly aiming at attaining power over environment, and decisionawiiava making process in collective level or society. Empowering professional practice is awijaya awijaya the other significant aspect through which procedures are converted into a practical awijaya intervention awijaya awijaya awijaya awijaya 2.3.2. Definition of Empowerment awijaya awijaya Sadan (2004) defines empowerment as "power of attorney-authorization to awijaya act on behalf of society, a kind of delegation of authority on the social and personal awijaya sphere". It is related with the enhancement of personal or collective ability to create awijaya awijaya intended preferences and to translate them into wanted activities and goals (Alsop awijaya awijaya et al, 2006). It is to increase people's participation and power in decision making awijaya

and can conceivably result in collective activities in an inclusive way (Andersen aviage University and Siim. 2004).

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Universit Empowerment process is defined as a shift from a situation of powerlessness lava Unive to a condition of having power over livelihood and circumstance. Powerlessness awijaya Universitas Brawijaya Universitas Brawijaya Unive can lead to self-confidence deficiency, to neglect towards and seclusion from the lava awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava awijaya environment (Sadan, 2004), in addition to disability to conduct activity (Sadan, awijaya awijaya 2004; Alsop et al, 2005). Because powerlessness is existed in social systems, empowerment intends to intervene marginalized people and communal arrangement within constraints and opportunities (Sadan, 2004). It leads to the interplay between individuals and social structure and this can increase people Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava ability to create intended options (Alsop et al, 2005). People who can control their livelihood and involve in decision making relating ^{ve} to their destiny and circumstance contribute to democratic community collectively Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive (Sadan, 2004). It is expected that these changes can enhance the perceived and awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive real capacity to control. Empowerment not only results in more authority over awijaya awiiava someone's life but also raises social capital. Empowerment, then, supplies a awijaya awiiava Universitas Brawijaya legalization to social changes on site level. awijaya awijaya Empowerment aims to change three aspects of a social state, such as personal awijaya awijaya sense and abilities, community's life and professional activity. The changes are awijaya /ersitas Brawijava awijaya resulted from three connected practices: individual empowerment, which is related awijaya awijaya to personal change; community empowerment, which is related to social change; Java awijaya and empowering professional practice, which is related to organizational and awijaya awijaya practical shift driving the realization of both processes. Sadan (2004) argues that awijaya awijaya all aspects must be achieved so that people can increase control over their lives. awijaya awijaya awijaya awijaya 2.3.3. Individual Empowerment awijaya Universit Individual empowerment can take place in various situations independently awijaya Universeparated from the other processes. However, if it is happened over viable Unive participation in social processes it has a unique meaning not only for the individual lava awijaya Universitas Brawijaya Universitas Erania Unive but also for the environment (Sadan, 2004). versitas Brawijaya Universitas Brawijaya awijaya awijaya Alsop et al (2006) introduce psychological assets which are very important in awijaya empowerment process on individual level. These assets include education, awijaya information, mental sensibility, and resources. Experiences have revealed that they are associated with changes in traditional informal institutions. Further, the increase of an asset can simultaneously improve other assets. Consciousness is

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava the most important asset because it is a prerequisite in translating assets into choices. During empowerment process, an individual can develop critical It will allow people to acquire a progressively better consciousness. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive comprehension of socio-cultural circumstances that form their lives, and of the awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive scope of their capability to manipulate the circumstances (Sadan, 2004; awijaya awiiava Zimmerman, 2000). Realization of consciousness will change the self-sense as a meaningless into a self-confident person. It will further result in abilities such as a awijaya critical consciousness in political field, a capability to work with other people, an awijaya awijaya ability to overcome disenchantments and to grapple for control over circumstance awijaya awijaya (Kieffer, 1984; Zimmerman, 2000). awijaya awijaya As an active process, the process of empowerment is shaped by environments hiversitas Brawijaya awijaya and occasions, and is centered on personal activities. The process leads to an awijaya assimilation of self-acceptance and self-assurance, socio-political comprehension, awijaya and a capability to undertake a prominent portion in decision making and in power awijaya awijaya over resources in circumstance. Individual empowerment is expressed in the awijaya awijaya personal level of a multi-stage activities exercised to institutions and public policy awijaya (Zimmerman and Rappaport, 1988). awijaya Universit Internal and external changes are two processes in empowerment. Internal laya Unive change is individual's confidence in making decisions and solving problems. Java awijaya University Unive Meanwhile, external process is expressed by capability to do something and to have awijaya awijaya apply practicable knowledge, information, expertise, and other resources awijaya awijaya (Parsons, 1989). For some authors, internal transformation can be said psychological empowerment and external transformation can be said political empowerment. While the first occurs on the tier of an individual's consciousness, the latter is related with an actual change enabling an individual to participate in versitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava decision-making process that influence one's livelihood. People must understand their state and external coercions suppressing them. The of outcome niversitas Brawijaya empowerment depends on how people see themselves and comprehend the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive environment (Sadan, 2004; Zimmerman, 2000). Itas Brawijaya Universitas Brawijaya awijaya Universit To some extent, people need to collaborate and to commit to common concern, java awijaya awiiava and therefore to ignore individual interests. Empowerment is a political concept awijaya awijaya because it supports this view, and links people with communities and politics awijaya awijaya (Sadan, 2004). The process in individual level starts with one's self-confidence awijaya awijaya moves to interactions with other people, and proceeds with common actions for awijaya awijaya social change. An intensive extent of individual action makes social relation more awijaya awijaya effective. awijaya However, individual empowerment is not an exclusive aspect of empowerment awijaya because powerlessness is also social problem (Sadan, 2004). In addition, awijaya individuals are constrained by social structure (Alsop et al, 2006). Sometimes, awijaya awijaya people are not powerless because of themselves, but because they belong to a awijaya awijaya powerless group (Sadan, 2004). Alsop et al (2006) argue that local institutional awijaya awijava ^{ve} contexts influence individuals in enabling their ability. Unconducive social structure awijaya University may be blamed in creating and maintaining inequality and oppression (Sadan, Java Unive 2004) Brav awijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive 2.3.4. Community Empowerment ava Universitas Brawijava awijaya awijaya Individual empowerment can encourage community empowerment. In order to be actualized, it requires resources that come from two sources: individuals, who have interest in acting not only to achieve their own desires, and external agents participated in a social process and supporting in organizing a community and its versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava abilities to intervene environment (Sadan, 2004). The process includes creating and organizing a community. It aims to increase people's control over consequences meaningful to their livelihood. A community Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive suffering from prejudice needs abilities to deal with its circumstance and to alter its Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive destiny. The process develops awareness, commitment, problem-solving skills, java awijaya awiiava and political adequacy to improve their life condition. awijaya awiiava Communal empowerment is characterized by more real authority of communal awijaya awijaya organizations so that they can manage their own affairs especially in decision awijaya awijaya making (Biegel, 1984). It is related to mutual knowledge of issues and their awijaya awijaya and abilities in presenting the issues, leadership, and solutions. group iversitas Brawijaya awijaya awijaya implementing strategies when residents accept their organization's agenda awijaya (Fawcett et al, 1984). awijaya Collective action constructs personal will to mutually cooperate in the course of awijaya awijaya making decisions, solving issues and mobilizing resources for collective goal. awijaya awijaya Dynamic democracy, resident participation, recognition of people's right are the awijaya awijaya center premises of empowerment, and definitely emerge from senses of collective awijaya Universaction (Sadan, 2004). awijaya Universit The fruitfulness of community empowerment is indicated by the more degree java Universitas Brawijaya Unive of empowerment conducting by a community and less interventions by outsiders. Java awijaya Universitas Brawijava Universitas Unive Many scholars argue that this empowerment is articulated in communal capability lava awijaya awijaya to raise new humanistic values for people, as an option to malfunctional senses of awijaya awijaya capitalist system. However, factors such as social structure, political regime, policy and resources give significant influence to social involvement and character and direction of the empowerment process, and are critical aspects for the possibility of its initiative rersitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava (Sadan, 2004). An attention must be considered on a negative effect of empowerment. It can be happened when people who do not participate in the process indeed receive important changes. Empowering people who has no Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya connection with the empowerment approach have to be avoided. Therefore, the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive empowerment should not focus on final outcomes only, but must pay attention to lava awijaya awijava the process. awijaya awiiava For an empowered community, an organizational network is important to awijaya awijaya respond menaces or to initiate attempts to improve its quality (Sadan, 2004). In awijaya awijaya leadership and citizens' addition, institutional networks, heterogeneous awijaya awijaya participatory abilities are the characteristics of an empowered community awijaya awijaya (Zimmerman, 2000). However, these conditions are rarely attained in most awijaya processes. Therefore, we cannot disregard the importance of initial steps in awijaya awijaya empowerment such as developing people's control over circumstance and creating awijaya awijaya a community (Sadan, 2004). awijaya awijaya When defending its empowered status, it is essential for empowered awijaya awijaya community to deal with external hazards threatening it. To survive, a community awijaya awijava Unive has to act effectively and efficiently (Sadan, 2004). Communal empowerment awijaya awijaya University emanates from the enormous value of attainment coming from securing jaya awijaya Unive community's presence, ensuring people's lives, and the struggle itself (Couto, lava awijaya Universitas Brawijaya Universitas Brawijaya awijaya Univer1989; O'Sullivan et al, 1984). Brawijava Universitas Brawijava Universitas Brawijava awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya 2.3.5. Organizational Empowerment awijaya An organization is a group of people tied by similar interest to attain some goals (Alsop et al, 2005). Involvement in communal organization is the element of empowerment definition either in individual or collective level (Sadan, 2004). This versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava combination is twofold, i.e. the individual contribution to the organization and the individual benefit from the organization. Organizations are considered as a channel to empower people and society, and are not the objectives of empowerment. Brawlava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Community is empowered via organizations, and this can be characterized and awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive recognized by them. Empowered community can be indicated by the establishment lava awijaya awiiava of communal organizations (Couto, 1989). It can be also characterized by the awijaya awijaya refinement of the organization and the extent of its member's coherence. It is awijaya awijaya argued that organizations made by individuals rather than by external stakeholders awijaya awijaya have better development such as more stable community, the emergence of a awijaya iversitas Brawijaya awijaya sense of togetherness, and ability for problem solving (Florin, 1989 in Sadan, awijaya awijaya 2004). Further, Kirst-Ashman (2007) argues that social groups can be used to niversitas Brawijaya awijaya empower group members internally and to enhance their strength for altering the awijaya awijaya external environment. This is because communication can expand members' awijaya awijaya understanding on certain issues, members who have overcome aspects of awijaya awijaya powerlessness can inspire and motivate others, consciousness among members awijaya awijaya can be raised, and it can provide mutual support among members and increase awijaya awijava Unive communication and cooperation concerning the macro change process. Stas Brawijaya awijaya Universit In framing individual involvement in an organization, Wandersman and Florin Java (2000) link individual characteristics with environmental characteristics. This awijaya Universitas Brawijava Universitas Erecting Unive connection further emerges a question "when and why do people participate?" Its java awijaya awijaya answer depends on how effective the organization is. Simon (1990) argues that awijaya awijaya organizations can create empowering environments by providing atmosphere, connections, resources and managerial medium which facilitate their members to manage their lives. These can be further translated into processes such as participation opportunities in making decisions, mutual responsibility and mutual versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya awijaya awijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava leadership (Wandersman and Florin, 2000). Leadership also becomes valuable organizational resource and has direct link to affect organization effectiveness. Leadership skills include facilitation of organizational processes, data collection Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universities and evaluation, and execution of organizational activities. Java Universities Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit The success of an organization can be analyzed through managerial awijaya awiiava arrangement, abilities and adaptation (Alsop et al, 2005). Furthermore, beside the awijaya awiiava organization's success such as effectiveness, networks, and policy influence awijaya awijaya (Zimmerman, 2000), the presence of communal institutions also becomes an awijaya awijaya implication of empowerment process (Rappaport, 1984). Both organizational awijaya awijaya advancement and evolution are fundamentally influenced by the institutional awijaya awijaya framework (North, 1990). awijaya

2.3.6. Some Issues of Community Empowerment

a. Resistance

awijaya Community empowerment is developed in unfair circumstances by struggle awijaya awijaya against the abusive conditions, the alienation and the inadequacy of cooperation awijaya awijava on the part of the governmental agencies. Because of indifference and absence of awijaya Unive interest happening in the community, people can make a specific degree of group laya University and empowering effort (Sadan, 2004). The process of empowerment may be lave awijaya Universitas Brawijava Universitas Brawijava awijaya Unive developed regardless of enmity in a certain mixture of environments and aspects. Java awijaya awijaya However, some situations and environments may cause disempowerment. awijaya awijaya b. Conflict Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Conflict is part of the phenomenon in which community is organized. Any separation between participants and non-participants in community may form a iniversitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava very frigid framework. Conflicts can emerge if there is indirect but systematic violence toward marginalized people. Violence may manifest in the diverse forms especially when important resources such as knowledge and information are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya inaccessible for people (Sadan, 2004). Kelly et al (2000) also argue that role design awijaya Unive and mechanism may result in conflict if they are not set properly and deliberately. awijaya awijaya However, for participated individuals, stronger senses of political potency can be awijaya awijaya resulted from conflicts. Losing friends resulted from the conflicts can encourage awijaya awijaya them to develop new friendships (Zimmerman, 2000). Therefore, a decision to face awijaya awijaya or to avoid conflict needs a critical awareness awijaya awijaya awijaya awijaya Univ Awareness C. awijaya (1989), awareness is important for community awijaya According to Couto awijaya empowerment. It is considered as a process of how community discovers its awijaya awijaya weakness. Empowerment is more than activities; it also includes reflection. awijaya awijaya Realizing external sources of problems is also important for people's awijaya awijaya on enhancing their circumstance and comprehension against pressures awijaya awijava ^{ve} empowerment. Awareness is about how community evaluates its power and asset awijaya Unive and of how to positively employ these. Critical awareness may also help individuals if available awijaya awijaya Unive to deal with conflict, and to recognize and manage resources required to attain available awijaya Unive intended purposes (Zimmerman, 2000). Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya d. Organizing Community as Brawijaya Universitas Brawijaya One of empowerment principles is self-managing among people over typical similarities. Because its context is coping with hard reality of seclusion and indifference, it can only be exercised in a steady and continuous relations with Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava other people (Sadan, 2004). An organizing activity transforms a group into a community, while a group is made up of citizens with similarities such as age, gender, race, occupation, etc. The absence of organization can limit individuals' Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive strengths and understandings of reality. Organizing a community is an initial stage Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Univerto provide a tangible arena for its members. versitas Brawijaya Universitas Brawijaya awijaya awiiava awijaya awiiava e. Outcome and Product awijaya awijaya Empowerment is expected to change marginalized people into more capable awijaya awijaya ones. Citizens having a common goal or experience turn into a community with awijaya Iniversitas Brawijava awijaya advanced abilities and impacts of which disperse outside its location. awijaya awijaya Empowerment is an active mechanism, and thus has no final or absolute outcome. hiversitas Brawijaya awijaya It is an ongoing process that encourages the ability to successfully act in adjusting awijaya awijaya environments. The process can be differentiated from the outcome where the awijaya awijaya former encompasses a sense of power and skill to successfully act, and the latter awijaya awijaya is considered as actual skills to effectively act (Staples, 1990). awijaya awijaya The process of empowerment has a close relation with its outcome (Sadan, awijaya awijava 2004; Alsop et al, 2006). The success of empowerment at certain time can be awijaya Unive determined through outcomes of its process. The outcomes are the existence of lava awijaya Universitas Brawijaya University common actions, the effectiveness of decision making, the degree of its awijaya Universitas Brawijava Universitas awijaya Unive purposiveness, the organizational standard of common actions, and the utility of awijaya awijaya this standard to communal concerns (Sadan, 2004). Further, Matton and Salem awijaya awijaya (1995) add that qualified leadership encourages members to adopt and to commit to organizational principles. It can also develop organizational needs, keep organization harmony, and counter dynamic circumstances. Community empowerment depends on context, environment, behaviors and ersitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava circumstances. Its study intends to analyze some aspects such as personal awijaya interests characters in empowerment, and and professional activities, s Brawijaya tas Brawijava awijaya organizational system. The specific contents of empowerment can be varied, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive nevertheless they must cover activities either contributing to the development of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive people and collectives, or having a positive contribution on circumstance (Hegar & Java awijaya awijaya UniverHunzeker, 1988). Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Powijaya Universitas Brawijaya awijaya Universitas Brawijaya awijaya awijaya 2.3.7. Empowerment as a Professional Practice awijaya awijaya As a concept, empowerment was emerged in the situation of professional awijaya Universitas Brawijaya awijaya discussion on societal disputes. Empowering professional practice is systematized awijaya awijaya intervention aiming at strengthening empowerment processes in individual and lave awijaya communal level (Sadan, 2004). It is also to encourage people so that they can awijaya awijaya have better control over their lives and environment (Sadan, 2004; Zimmerman, awijaya awijaya 2000). awijaya awijaya Professional activities through learning process also try to develop people's awijaya awijaya ability either to deal with common disputes or to develop common resources. awijaya awijava Training may improve people's abilities and knowledge in order to have control awijaya University over their lives (Zimmerman, 2000). It advances intervention ways so that citizens java awijaya awijaya Unive can enforce adjustments in their livelihood (Sadan, 2004). Empowerment educates java awijaya Universitas Brawijaya Universitas Erterinave awijaya Universe people on how to take part on social life, to employ social abilities, to utilize available awijaya awijaya relational impacts, to build commitments, to have responsibilities and to get political awijaya awijaya

abilities. Even though empowerment can be carried out without practitioner's input, theoretically, the discourse of empowerment is mixture between practical and theoretical approach. Many people have insufficient ability and need outsider

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava intervention in order to free them from weaknesses (Sadan, 2004). Damastuti and de Groot (2017) prove that self-empowerment cannot survive because of group Unive limitations, ijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit The process of empowerment creates a synergy developing its maintenance awijaya unive and reproduction (Katz, 1984). When it runs, professional activity is applied, and it inve awijaya awijaya can result in effectiveness and legitimation from the system. However, the process awijaya awijaya also limits the professional practice based on the need for its services. For awijaya awijaya empowered community, professional intervention is no longer needed. awijaya awijaya awijaya awijaya 2.3.8. Empowerment Process awijaya awijaya In developing the theory of empowerment, Sadan (2004) adopted structuration awijaya theory (Giddens, 1984). She argues that his theory is critical and comprehensive, java awijaya awijaya directly connects to theory of power, and ties micro and macro events in an awijaya awijaya analysis. In addition, Ritzer (2011) argues that its strength is it integrates micro and awijaya awijaya macro levels of inquiry very well. awijaya awijaya The basis of duality of structure is applicable for both empowerment levels awijaya awijava (Sadan, 2004). It underlines a crucial facet of the process of empowerment i.e. awijaya Unive empowerment may exist in the terms of either individuals' abilities or social java awijaya awijaya Unive structure. Giddens (1984) links social structure with citizens where empowerment liava Universitas Brawijava Universitas Entrance awijaya Unive in community level can reinforce individual level. Therefore, empowerment is level awijaya awijaya considered as a continuous process of social change by which people's abilities awijaya awijaya and common resources can be activated. awijaya awijaya Communication is very vital in and empowerment. Both individuals organizations must create effective communication and avoid misunderstandings. Two barriers that must be avoided through meaningful communication are lying iniversitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya and distortion (Kirst-Ashman, 2007). The quality of communication depends on awijaya how information is transferred. It also gives empowered individuals ability to comprehend their situation and relationship with other people (Sadan, 2004). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Normatively, people also learn to regard newly certain social norms affecting them lave awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive by taking part in ethical communication and adjusting it.awijava awijaya awijava This situation explains how individuals' ability affect some changes in social awijaya awijaya structure. However, one cannot express his own power without connecting it to the awijaya awijaya current structures. Individual potency ties its energy from structural shapes of awijaya awijaya control entrenched in social systems (Clegg, 1989). Even though, the process of awijaya awijaya empowerment relies upon the existing state of community, its realization is defined awijaya awijaya by alterations on individual level, collective level, and social systems. Further, lave niversitas Brawijaya awijaya Alsop et al (2005) argue that people can be effectively empowered through awijaya awijaya equitable rules and expanded entitlements so that they are allowed to translate awijaya awijaya their resources into effective abilities. awijaya awijaya resources and Community empowerment relies highly upon allocative awijaya awijaya authoritative resources. The former is material resources such as raw materials, awijaya awijaya technologies, and products resulted from the mixture of previous resources. The awijaya Unive latter is organizational resources consisted of the organization of daily social life, java awijaya awijaya Universitas Brawijaya Unive human beings in mutual association, and life chances (Giddens, 1984). Sites Brawijaya awijaya Universitas Brawijaya Universitas Enterior Universit Access to these capitals will determine one's capability to act and to influence. Java awijaya awijaya Empowerment shapes dynamics in personal behavior and in the social structure. awijaya awijaya According to Maton and Rappaport (1984), individual and community awijaya empowerment can have a mutual reinforcement. Universit Theoretically, process of using expected outputs in each step. the ^{Unive} empowerment is as follows (Sadan, 2004): iversitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 1. A sense of frustration originated from an unbridgeable gap between hope and chances to realize it triggers the empowerment process in most cases. People discover that effort to actualize their hopes relies on their capabilities and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit unreachable resources (Kieffer, 1984). Iversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive 2. At first, this feeling must be espoused by initial capability and resources to awijaya awiiava facilitate arranged action, and social support to allow the action (Sadan, 2004). awijaya awijaya Cislaghi et al (2016) mention this phase as community enabling conditions i.e. awijaya awijaya support from family, friends, community leader and community as a whole. awijaya awijaya 3. Empowerment commences when people have an intention to acquire means awijaya ersitas Brawijaya awijaya and resources to expand capability in achieving something in their livelihood. awijaya awijaya Mobilizing provision and wish is considered as the initial output of awijaya empowerment (Sadan, 2004). It is also community enabling conditions in term awijaya of desire for better knowledge and life, and aspiration to work together (Cislaghi awijaya awijaya et al, 2016). awijaya awijaya The acknowledgement of people's right in expressing their hopes and people's awijaya awijaya ability in defining them is considered as a result of the development of a critical awijaya consciousness in the current state (Freire, 1985 in Sadan, 2004). awijaya Unive 5.1 People feel confident about their ability to seize results (Bandura, 1997). This laya awijaya Universitas Brawijaya Universit can be considered as an attainment concerning a meaning of personal available awijaya Universit competence to deal with daily life. Individual potency can result in mutual awijaya awijaya potency if it is transformed into collective practical ability to arrange itself for a awijaya awijaya common action to attain goal in circumstance. This can result in unsettling (Cislaghi et al, 2016). However, people will expand their experiences aspirations and visions, experience voice equality, see oneself in new ways, Universitaand increase self-understanding.ava Universitas Brawijaya ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 6. The process continues through resources mobilization by individuals, including establishing and arranging communal institutions. These can be considered as outputs of empowerment process (Mann, 1986). This becomes an evidence Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit that individuals can securely apply their continuous skills to attain results such available Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya universit as controlling their livelihoods, participating in making decision, and influencing awijaya awiiava circumstance. In this stage, Cislaghi et al (2016) argue that there is a consonance of values and practices. Individuals and collective will transfer their abilities to daily activities. In the longer term, outsiders will see the community awijaya awijaya as changed and this will further strengthen collective efficacy. Universitias Brawijaya awijaya awijaya awijaya awijaya Since empowerment is situated in social context, arrangement is lava the awijaya hypothetical and can be different depending on the process of empowerment. Any change happened in the process depends on the initial situations. awijaya awijaya 2.4. Forest Management awijaya awijaya 2.4.1. Forest Management awijaya Many scholars and institutions define forest in many ways. Lanly (1995) defines awijaya ^e forests as "all vegetation types in which the trees constitute the dominant woody awijaya element, with the crowns covering more than 10% of the ground". Forests are awijaya viewed as primary product of great economic importance (Young and Giese, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive 2003). Many countries utilize their forests aiming to supply local demand and to java awijaya awijaya Univerfulfill external market versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Guldin and Guldin (2003) give a short definition of forest management as a way to organize a certain area of forest in order to produce forest products. In broader term, Buongiorno and Gilless (2003) and Gene (2007) add other activities such as Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava the utilization and preservation of forests and their products. Practically, management of a forest area integrates silvicultural activities and economic considerations to attain some desired goals (Bettinger et al, 2009). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Silvicultural techniques can be site preparation, nursery activities, tree Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive regeneration, weeding, climber control, liberation operations, improvement, ava awijaya awiiava salvage, control of tree growth (Fujimori, 2001). Meanwhile economic aspects awijaya awiiava include the need to make a profit (Bettinger et al, 2009). awijaya awijaya Most governments make guidelines on forest management through policy awijaya awijaya instruments. These regulations are usually mandatory for permit holders and awijaya awijaya voluntary for private landowners (Bettinger et al, 2009). In Indonesian sphere, Law awijaya awijaya No. 41 of 1999 concerning Forestry describes that forest management consists of Java hiversitas Brawijaya awijaya forest arrangement and planning, forest utilization, forest rehabilitation and awijaya reclamation, and forest preservation and conservation. Forest arrangement is awijaya awijaya conducted by dividing forest into blocks and compartments in order to manage the awijaya awijaya forest intensively, optimally and sustainably. This division further become basis on awijaya awijaya forest planning for certain period. Then forest is utilized through appropriate awijaya ^{ve} mechanism. Forest utilization includes wood, non-wood forest products and awijaya Unive ecological services. Meanwhile forest rehabilitation and reclamation aim to recover java Unive its ecological condition. In addition, preservation and conservation are intended to java awijaya Unive preserve some certain types of forest va Universitas Brawijaya Universitas Brawijaya awijaya awijaya According to Indonesian Constitution, all forests are controlled by state and awijaya awiiava government is authorized for administering them. Under the New Order regime, government managed 143 million ha of forest (Barr, 1998). Local governments had almost no role in forest administration (Barr et al, 2006). The commercialization era of forest resources began in 1960s when government introduced system of forest versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava concessions (Chandrasekharan, 2005). In the next decades, the number of awijaya concessions always increased annually. This was followed by the increase in wood processing industries. This uncontrolled growth drove overexploitation and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive overutilization of forest products. Further, current practices of forest management Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive by private companies has resulted in rampant illegal logging (ITTO, 2001). ITTO awijaya awijava (2001) reports that production of logs from illegal sources is between 30 and 50 awijaya awijaya million m³ per annum, meanwhile the production of legal wood is approximately 20 awijaya awijaya million m³. Moreover, from demand-supply perspective, annual industry capacity is awijaya awijaya 74 million m³, meanwhile the production is only 23 million m³. This shortage is awijaya versitas Brawijaya awijaya suspected to come from unclear sources (Wardojo et al, 2001). awijaya awijaya Most forest concessionaires did not manage their areas properly and failed to day awijaya comply the prevailing regulations. This situation has triggered government to awijaya awijaya rearrange its policies and practices by conducting performance appraisal of awijaya awijaya concessions. However, the results were very disappointed. Most concessions were awijaya awijaya not technically and financially feasible (Chandrasekharan, 2005). awijaya awijaya Decentralization in 1999 changed regime direction in forest management. awijaya awijava District governments received significant discretion in forest management awijaya Unive (Chandrasekharan, 2005; Barr et al, 2006). However, this shift did not run well lava awijaya awijaya Universitas Brawijaya Unive because they were not technically and institutionally ready (Chandrasekharan, Java awijaya Universitas Brawijaya Universitas Enternava awijaya 2005). To counter this situation, Ministry of Forestry tried to redesign forest awijaya awijaya decentralization by recalling district's authority in forest management (Barr et al, awijaya awijaya 2006) Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive 2.4.2. Mangrove Management Brawijaya Universitas Brawijava Mangrove ecosystem is characterized by coastal plant compositions (FAO, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 1994). Mangroves are salt-tolerant forest ecosystems and have a well adaptation to tidal environments (FAO, 2006). They only exist on tropical and subtropical Universitas Brawijaya ^{ve} coastlines (FAO, 1994, 2006).^{Brawij}aya, Universitas Brawijaya, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Globally, in 2010, the area of mangrove ecosystems is approximately 15.6 awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive million ha, compared to 18.8 million ha in 1980. Most mangrove ecosystems exist lava awijaya awijaya in Indonesia, Brazil, Nigeria, Australia and Mexico (FAO, 2006, 2010). In the 1980s, awijaya awijaya 185.000 ha of mangrove vanished annually (-1.03%) and the area still decreased awijaya awijaya 105.000 ha per annum (-0.67%) during the 2000-2005 period (FAO, 2005). awijaya awijaya Summarizing the existing references, Ilman et al (2011) states that area of awijaya awijaya mangrove in Indonesia varies between 2,930,000 ha and 7,758,410 ha. Revising awijaya awijaya FAO's (2007) calculations, Rahman and Asmawi (2016) states that Indonesia had niversitas Brawijaya awijaya 3,062,300 ha of mangrove and during 2000-2005, the annual change was -1.6%. awijaya awijaya North Sumatra itself had 103,425 ha in 1977, but it remained 41,700 ha in 2006, a awijaya loss of about 59.68% (Onrizal, 2010). awijaya awijaya Mangroves have a great function in providing suitable habitats for coastal awijaya awijaya species. These ecosystems are known as rich-biodiversity sites and can mitigate awijaya impacts of natural disasters (FAO, 1994, 2005, 2007, 2016). People also utilize awijaya Unive mangrove landscapes for educational, scientific and recreational purposes (FAO, java Unive 1994, 2016). awijaya Universit The uses and values of the products obtainable from mangroves are many and liava awijaya awijaya important (FAO, 1994). Most people in coastal area highly depend on mangroves awijaya awijaya for daily needs (FAO, 1994; Ahsan, 2014; Basyuni et al, 2016; Hastuti and Yuliati, 2017; Malik et al, 2015). They utilize mangroves either directly or indirectly through harvesting timber and non-timber forest products (FAO, 1994, 2005, 2007). Even though mangrove provides various essential benefits, mangrove versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya Ilniversitas Brawijava Ilniversitas Brawijava Ilniversitas Brawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava conversion is unavoidable due to pressure from population in coastal areas (FAO, 2006, 2007; Ilman et al, 2011; Maryantika and Lin, 2017). Overexploitation and pollution have fragmented and degraded mangrove area (FAO, 2006; Barbier, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 2016; Davie, 1997; Ilman et al, 2011; Kustanti et al, 2014; Malik et al, 2015). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive Further, mangrove area is gradually decreased. This reduction becomes a serious lava awijaya awiiava cause of environmental and economic issues to developing nations. Consequently, awijaya the ecological resistance of coastal environment that provides protection to inland awijaya awijaya awijaya agriculture and dwelling will become critically damaged (FAO, 1994). awijaya awijaya Mangroves are practically easier to manage compared to other types of forest. awijaya awijaya However, there is a need to adopt an integrated approach in their management. awijaya awijaya Mangrove utilization must consider ecological and social aspects. In particular, awijaya mangrove management should consider the existence and need of local people awijaya awijaya (FAO, 1994). awijaya awijaya FAO (1994) describes that mangrove management must at least include five awijaya awijaya activities such as planning, silviculture, harvesting and extraction, conservation, awijaya awijaya and monitoring and evaluation. Planning consists of three levels according to its awijaya awijava ^{ve} periods. First, long-term planning focusing on land use. It includes activities and awijaya Unive information such as mapping, surveys, land-use, legal and institutional issues. Java awijaya Universitas Brawijaya Unive Second, medium term describing forest management. It includes activities and lava awijaya Universitas Brawijaya Universitas Enternado awijaya Unive information such as mapping, surveys and forest inventories, silviculture, and java awijaya awijaya utilization. Third, annual planning detailing operational activities. It includes awijaya Brawijaya Universitas Brawijaya Universitas Brawijay awijaya activities and considerations such as forest inventory, silviculture, harvesting, marketing, conservation, human resources, construction and maintenance of infrastructure. Silviculture is applied in term of the choice of silvicultural system, the choice of versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava species, regeneration, weed control, disease and pest control, thinning and the choice of rotation. Meanwhile harvesting is related to the felling plan and the selection of harvesting system. Conservation and protection mean maintaining Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University, controlling erosion, maintaining natural reserve for avifauna, fishery Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive and other wildlife, and allocating area for recreational and educational value. awijaya awiiava Furthermore, some activities in monitoring and evaluation are making awijaya activity/technical and financial report, archiving plan and implementation, awijaya awijaya awijaya itas Brawijaya supervision, and plan evaluation and revision. awijaya awijaya Universit Management conducted by of mangrove in Malaysia has been awijaya Universitas Brawijaya awijaya Chandrasekharan (2005). Mangrove forest is managed by Perak State Forestry awijaya awijaya Department. It covers a total area of 40,151 ha. Its management has considered inve hiversitas Brawijaya awijaya comprehensive aspects and is arranged continously. The main goal is continual awijaya awijaya production of mangrove, with provision for preservation of the ecosystem. awijaya awijaya Besides wood, non-wood products are also limitedly harvested. Mangrove awijaya awijaya ecosystem also supports fishery such as capture fisheries, aquaculture, and awijaya awijaya traditional fishermen. Moreover, ecotourism also emerges as an alternative awijaya awijava Unive business. awijaya Universit The tenable utilization of mangroves has contributed not only to government lava Unive income but also local entity revenue. Mangroves have supported government java awijaya Universitas Brawijava Universitas Unive income of US\$ 425,300 annually. Meanwhile the direct tangible economic value is tava awijaya awijaya estimated US\$ 42 million. The succeed of sustainable management of mangrove awijaya awijaya ecosystem in Matang is supported by contributing factors such as a strong policy awijaya and legal framework; high quality of planning, implementation, supervision and monitoring; strong and continuing political commitment; regular revision of management plans; clear objectives of management; long-term security of versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya concession tenure; support for local educational and research organizations; awijaya adequate staffing; and the goodwill of the local community. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univer2.5a Social Forestry versitas Brawijaya Universitas Brawijaya awijaya universities From the view of economic, forests provide many tangible and intangible awijaya awijaya benefits that support socioeconomic livelihoods (FAO, 2014). However, this ideal awijaya awijaya does not reach people who should be entitled. Historically, the core of forest awijaya awijaya management was frequently on sustaining timber production (Castañeda, 2000; awijaya awijaya Chazdon et al, 2016), it was centralized (Datta and Varalakshmi, 1999) and it awijaya awijaya neglected local communities (Datta and Varalakshmi, 1999; Sabogal et al, 2013). awijaya awijaya Forest administration has marginalized local people (Mohammed and Inoue, awijaya 2014). This conventional practice has been challenged because it fails to consider awijaya awijaya various forest functions (Castañeda, 2000). Wang (2004) argues that there should awijaya awijaya be more to managing forests than just timber extraction. awijaya awijaya Jasanoff (2006) argues that we cannot separate natural system from social awijaya awijaya system and vice versa. Many poor people in rural areas are very depended on awijaya awijaya forests (FAO, 2014). Many scholars argue that rural families depend on forest awijaya Unive products to meet their subsistence including food, firewood and/or medicinal plants is a second secon awijaya awijaya Universitas Brawijaya Unive (Byron and Arnold, 1997; Shanley, et al, 2008; Aigbokhaevbo, 2013; Hamade, Java awijaya University awijaya Unive 2016; Rai et al, 2017; Matiku et al, 2013; Sabogal et al, 2013). Furthermore, they java awijaya awijaya also generate income from selling forest products. Byron and Arnold (1997) state awijaya awijaya that forest product extractions can become an important additional source of awijaya awijaya income especially when villagers experience crop failure. Forests can become an economic safeguard for forest-adjacent people. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya **Hniversitas Brawijava** Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava In explaining the relationship between forests and indigenous people, Kusel (2001) introduces forest-dependent communities as people living near forests and having a high dependency on forest resources. Their dependence relates to not Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University only timber but also non-timber, such as amusement and ecotourism (Power, available) Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 2006). Because of their dependency on and intimate relationship with forests, awijaya awiiava indigenous communities must be considered in managing forests. In this awijaya awiiava circumstance, local people and their environment are arranged along similar awijaya awijaya economic channel (Aicher, 2014) and their reliance indicates an obvious link awijaya awijaya between their livelihoods and forest resources (Matiku et al, 2013). awijaya awijaya Out of political shift, devolution in forest administration is usually based on awijaya awijaya severe local socioeconomic conditions. Akamani et al (2015) argue that local iversitas Brawijaya awijaya communities experienced poverty due to farmland degradation, less income and awijaya employment and inadequate basic infrastructure. They also lacked institutional awijaya awijaya competency and had no chance to participate in forest management. They were awijaya awijaya legally excluded from generating benefits from the adjacent forest. Even though awijaya awijaya government legally controls forests, it is argued that government fails to effectively awijaya ^{ve} manage forests. Forests become open access and may be exploited by everyone awijaya Unive (Rai et al, 2017). Universitas Datta and Varalakshmi (1999) argue that the absence of customary rights lava awijaya Universitas Brawijava Universitas Brawijava unive recognition of and the lack of emphasis on the subsistence functions of local awijaya awijaya dependent populations have contributed to the massive destruction of forests. awijaya awijaya Further, Baumann (1998) argues that local riots addressed to government monopoly over commercial utilization and prohibition on traditional use of forests become one of triggers in paradigm shift in forestry regime. Forest needs to be governed by people, stakeholder groups, and institutions through acquiring and versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava exercising right in managing forest resources in order to maintain and to enhance the degree of life for those whose livelihood rely upon forests (World Bank, 2008). Echoing World Bank, FAO (2012) explains that this relates to how local people Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive assure access to, manage, conserve and benefits from forests. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universities Local involvement in forest management is important because communities lava awijaya awiiava living in certain part of forest know the area characteristics sufficiently, and their awijaya awiiava participation can lead to more effective management (Argiolas et al, 2009). awijaya awijaya Furthermore, the active support of community can promote long and lasting local awijaya awijaya development. This participation prompts the dispersion of responsibilities and awijaya ersitas Brawijaya awijaya resources among local people. In contrast, Tolo (2013) argues that the awijaya awijaya abandonment of the public participation in forest governance can lead to the failure awijaya of forestry decentralization. awijaya Participatory governance in the course of forest management has been awijaya awijaya studied by many scholars and its practices have varied terms such as collaborative awijaya awijaya forest management (Mohammed and Inoue, 2014; Rai et al, 2017; Akamani et al, awijaya awijaya 2015; Akamani and Hall, 2015), participatory forest management (Worah, 2008; awijaya ^{Ve} Matiku et al, 2011 and 2013; Obiri and Lawes, 2002; Mongbo, 2008; Mohammed awijaya University and Inoue, 2013; Purnomo et al, 2017; Lund et al, 2009), joint forest management laya wijaya Universitas Brawijaya Unive (Obiri and Lawes, 2002; Corbridge and Jewitt, 1997; Appiah, 2002; Pradhan and Java awijaya Universitas Brawijaya Universitas Erania Patra, 2013; Behera and Engels, 2006; Behera, 2009; Desai and Sidhu, 2017; Java awijaya awijaya Djamhuri, 2012; Datta and Varalakshmi, 1999; Matta and Kerr, 2006), community awijaya awijaya forestry (McDougall et al, 2013; Robinson, 2010; Vernon, 2007; Oyono et al, 2012; Pacheco, 2012; Paudel et al, 2012; Lyman et al, 2013; Poudel et al, 2014; Stapp et al, 2016; Sikor, 2006; Dressler et al, 2010; Persson and Prowse, 2017; Glasmeier and Farrigan, 2005; Beukeboom et al, 2010; Lawler and Bullock, 2017). versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava community-based forest management (Kumar et al. 2007; Nelson et al. 2008; Brown and Lassoie, 2010; Matose and Watt, 2010; Ribot et al, 2010; Sakurai et al, 2004; Adhikari, 2005; Soltani et al, 2014; Ianni et al, 2010; Saunders et al, 2008; Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Takahashi and Todo, 2012; Wakjira et al, 2013; Chomba et al, 2015; Porterawijaya Unive Bolland et al, 2012; Lee et al, 2017; Cheng and Sturtevant, 2012), co-management java awijaya awiiava (Folke et al, 2005; Berkes, 2010; Kubo, 2008; Kimdung et al, 2013; Matose, 2006), awijaya awiiava community-based co-management (Ting et al, 2012; Chen et al, 2012), and social awijaya awijaya forestry (Maier and Abrams, 2018; Djamhuri, 2012). awijaya awijaya Many authors agree that various stakeholders are involved in forest awijaya awijaya governance practice i.e. governmental agencies, local people, and NGOs. The awijaya awijaya former usually devolves authority on forest management to local community and lave awijaya the latter assists local people in exercising their discretion. The degree of awijaya awijaya devolution is varied from fully authorized to least authorized (Mohammed and awijaya awijaya Inoue, 2014). awijaya awijaya Besides to improve local livelihoods, the underlying principle of community awijaya awijaya forest is people's willingness in preserving forest that is adjacent to them (Rai et awijaya awijava al, 2017). Generally, indigenous people are organized into groups or cooperatives awijaya Unive (Mohammed and Inoue, 2014; Rai et al, 2017; Akamani et al, 2015; Matiku et al, java awijaya Universitas Brawijaya Unive 2013) and through this collective, government delegates authority to local available awijaya Universitas Brawijava Universitas Brawijava awijaya Unive community in forest management by means of agreement signed by both parties lava awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive (Mohammed and Inoue, 2014). awijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya NGOs play major and dominant role in these processes. Their roles are awijaya awijaya

happened in almost all activities such as establishing group (Akamani et al, 2015) and facilitating community in courses and livelihood exercises (Mohammed and Inoue, 2014). Prior to management practices, it must be started with management

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava plan (Mohammed and Inoue, 2014; Rai et al, 2017). In some cases, government and NGOs assist local people in developing forest management plans (Mohammed and Inoue, 2014). Groups and its members are also assisted on how Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive to undertake management activities (Mohammed and Inoue, 2014; Rai et al, 2017). awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya They also establish norms relating rights and obligations among participants awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava awijava (Akamani et al, 2015), ersitas Brawijava Universitas Brawijava awijaya awijaya In practicing social forestry, local communities employ accountability awijaya awijaya practices either internally or externally (Mohammed and Inoue, 2014). For its awijaya awijaya internal environment, members and leaders apply mutual accountability. The awijaya ersitas Brawijaya awijaya former is accountable to the latter, who are authorized to impose rules and penalize awijaya awijaya rule breakers. Contrarily, the latter is accountable to the former through regular awijaya election. In addition, the accountability of groups to government is based on the awijaya awijaya agreement signed between them. Government can recall the permit if the forest is awijaya awijaya improperly managed. awijaya awijaya In certain conditions, groups are given a leeway by authorized agencies to awijaya awijaya harvest and to sell forest products. Decisions to do these are based on specific awijaya awijava ^{ve} regulations. However, groups sometimes need written permission in term of awijaya Unive income generation from selling certain forest products (Mohammed and Inoue, Java awijaya Universitas Brawijaya Univer2014)Brav awijaya Universitas It is argued that local empowerment through community forest enhance awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya human capital of groups and their members. Devolution improves access to awijaya awijaya important forest resources and allows community to sell them in order to increase awijaya income. Local people are also allowed to utilize logs for housing (Mohammed and Inoue, 2014). In addition, since they have rights in managing and protecting forest, Unive threat from illegal logging has been decreased. Sitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya However, these benefits are also accompanied with negative situation and awijaya impact. Mohammed and Inoue (2014) and Rai et al (2017) report that the unequal awijaya awijaya distribution of benefit between the poor and the rich, and between gender is still Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive existed. In addition, elite capture is a common phenomenon in some cases (Cinner Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive et al, 2007). Rai et al (2017) further warn that the exclusion of the poor users from Java awijaya awijava the benefits of collaborative governance may create a social conflict in the longawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Un awijaya Universitas Brawijaya Universitas Brawijaya Furthermore, local population pressure on forest threatens environmental awijaya awijaya awijaya outcomes. It is mainly because overutilization of forest (Mohammed and Inoue, awijaya awijaya 2014). A dilemma also occurs in tradeoffs between economic and ecological awijaya awijaya outcomes in social forestry. For specific case where villagers can only make awijaya income from timber plantation and are burdened to conserve the remaining natural awijaya awijaya forest, the increasing sales will frustrate environmental outcomes. The continuous awijaya awijaya harvesting of planted woods will drain the plantation and will have less incentives awijaya awijaya to conserve natural forest. awijaya awijaya The other factor affecting income generation is local susceptibility and socioawijaya awijava economic situations such as average farm holding, household size and lessawijaya Unive productive farmland. If these conditions exist improperly, forest existence will be lave awijaya awijaya Universitas Brawijaya Unive threatened because this will force villagers to seek any chance that guarantees java awijaya Universitas Brawijaya Universitas Entimentar awijaya Unive their livelihoods (Mohammed and Inoue, 2014). sitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya awijaya Universitas Brawijaya awijaya awijaya awijaya In the simple meaning, coast is where land and ocean meet (Kay and Alder. 1999; Charlier and Charlier, 1995). This "meeting" cannot be clearly defined because the natural processes are highly dynamic in forming coast (Kay and Alder, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 1999; Kusky, 2008; Charlier and Charlier, 1995; Lodhia, 2011). The dynamics is awijaya usually influenced by the rise and fall of tides and passing of storms (Kay and Alder, 1999; Charlier and Charlier, 1995). Therefore, coastal regions are very fragile Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya (Lodhia, 2011). Some parts of the coastal environment have strong interactions Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya between land, sea and atmosphere (Kusky, 2008) such as beaches, coastal awijaya awiiava marshes, mangroves and coral reefs (Kay and Alder, 1999; Kusky, 2008). awijaya awiiava Because of its unique characteristics, coast produces diverse and productive awijaya awijaya ecosystems which are very important to human populations (Kay and Alder, 1999; awijaya awijaya Lodhia, 2011; Nguyen et al, 2016). Coastal uses are resource exploitation, awijaya niversitas Brawijaya awijaya infrastructure, tourism and recreation, and biodiversity conservation (Kay and awijaya awijaya Alder, 1999; Gowing et al, 2006; Lodhia, 2011). Local resource-dependent niversitas Brawijaya awijaya livelihoods are very depended on agriculture, shrimp farming, fishing and awijaya awijaya mangrove (Gowing et al, 2006). Coastal villagers usually cultivate low-yielding awijaya awijaya crops because of local varieties, soil salinity, and lack agricultural infrastructure awijaya awijaya (Mondal et al, 2006). awijaya awijaya Low agricultural result and the tempting economic value of shrimp make shrimp awijaya awijava farming became very interesting in this area (Mondal et al, 2006). Many local awijaya people convert mangrove to ponds (Barbier and Sathirathai, 2004; Kay and Alder, Java awijaya Universitas Brawijaya Unive 1999; Charlier and Charlier, 1995; Adger, 1999). Some households operate small-liava awijaya Universitas Brawijava Universitas awijaya Unive scale shrimp farms in traditional way, with little or no scientific assistance and lava awijaya awijaya limited access to credit (Vandergeest et al, 1999). The poor usually hire their lands awijaya to the rich (Majid and Gupta, 1997). They are also economically susceptible on awijaya awijaya fisheries resources for subsistence and income generation (Kay and Alder, 1999) Coastal forestry focusing on the commercial and subsistence exploitation of mangrove stands has resulted in rapid loss of mangrove coverage (Kay and Alder. versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava 1999; Gowing et al, 2006). Further, the conversion of land to ponds has also contributed to mangrove loss (Kay and Alder, 1999; Barbier and Sathirathai, 2004; Charlier and Charlier, 1995). This loss can adversely affect shoreline stability and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya local livelihood (Kay and Alder, 1999). In addition, inland practices, such as forestry Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive and agriculture, can have indirect impacts such as increased sedimentation due to have awijaya awiiava soil loss and herbicides and pesticides. awijaya awiiava As population increases, people's interests also grow. Consequently, the awijaya awijaya competing uses of coast engender the intense and long-standing pressure on awijaya awijaya coastal resources (Kay and Alder, 1999; Goldberg, 1994; Gowing et al, 2006; awijaya awijaya Mondal et al, 2006; Charlier and Charlier, 1995). Population pressures, land awijaya awijaya conversions, exploitative utilizations and the indirect impacts of inland practices lave niversitas Brawijaya awijaya have resulted in environmental and human problems (Gowing et al, 2006). awijaya awijaya Environmental problems can be in form of mangrove and aquatic habitat awijaya awijaya destruction, water pollution, land salinization and acidification, spread of aquatic awijaya awijaya animal diseases, negative effects on biodiversity, and negative impact on awijaya awijaya vegetation cover and terrestrial livestock. Meanwhile human problems are in term awijaya awijava of restricted access, loss of land, reduced employment opportunities, loss of awijaya Universubsistence fishery, increased vulnerability, health and social impacts, and lave Unive increased inequity and social unrest. awijaya Universitas Brawijava Universitas Brawijava Universit Kusky (2008) argues that as a home for almost half of global population, coastal java awijaya awijaya area is considered to be one of the most dangerous environments, being the site awijaya awijaya of most of the global deadliest disasters. Coastal environments and communities are threatened by climate change (Houghton et al, 1996). Coastal areas may face primary impacts as a result of a change in the risk of storm impacts, changes in ocean temperatures or rising sea level alongside secondary effects as changes in versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava economic performance and human well-being (Watson et al, 1996). Many current studies suggest that sea level is always increasing and affecting some of the most dramatic and costly environmental changes (Kusky, 2008). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Malaysian study by Alam et al (2017) show that climate change can severely affect Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive household food security. These disasters make coastal communities characterised lava awijaya awiiava by less development (Hossain et al, 2006; Mondal et al, 2006) with high population awijaya awiiava density (Rawlani et al, 2011), lower incomes (Alam et al, 2017; Christensen et al, awijaya awijaya 2007) and income inequality (Adger, 1999) become more vulnerable (Cuevas, awijaya awijaya 2011; Mustelin et al, 2010; Bindoff et al, 2007; Wong et al, 2014; Bigano et al, awijaya awijaya 2008; Nguyen et al, 2016; van Putten et al, 2014; Rawlani and Sovacool, 2011; awijaya awijaya Lodhia, 2011). Susceptibility of coastal people and their response to these awijaya awijaya disasters may also be affected by anthropogenic disruptions (Ellison and awijaya Strickland, 2015). awijaya awijaya awijaya awijaya 2.7. Previous Studies awijaya (a) Collaborative Forest Management in Ghana (Akamani et al, 2015) awijaya awijaya awijava Ghana adopted collaborative forest management (CFM) in 1994. It was awijaya Unive partially shaped by international issues on sustainable development and forestry. Unive Under the CFM program local people are arranged into collectives and these lava awijaya Universitas Brawijaya Universitas Eranina Unive groups are further involved in agroforestry and other forestry projects. Its common java awijaya awijaya characteristic is the sharing of benefits and responsibilities among concerned awijaya awijaya stakeholders. Local communities have an obligation to protect forests from fire and illicit activities. Consequently, they can plant agricultural species in the first few years of

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awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava yield, and 40% of incomes from planting trees. Meanwhile government's responsibilities are supplying seeds, organizing course and extension activities, and providing funding for the program. NGOs have important role in establishing Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univergroups and empowering them Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas However, the implementation of CFM faces several shortfalls i.e. inadequacy java awijaya awiiava of political support, inadequate incentives, deficiency of opportunities, and less awijaya awiiava capacity. Government lacks interest and political will in establishing local awijaya awijaya collectives and sharing authority with these organizations. It also lacks financial awijaya awijaya support, as well as less interplays with the groups, causing a diminished awijaya awijaya commitment and ability of local people to guard forest area. awijaya awijaya Government projects comprise limited financial and non-financial incentives. awijava In terms of financial incentives, most villagers perceive the arrangement on share awijaya awijaya of benefits and responsibilities in the program to be discriminatory. State orders awijaya awijaya local communities to restore forests without sufficient support. The impacts of less awijaya awijaya financial incentives are also amalgamated by poor non-financial incentives due to awijaya awijaya the weakening of traditional social institutions. awijaya awijava Universita Community involvement gives them slight chance for bargaining and awijaya Unive cooperation in preparing and formulating the program. They dissatisfy with the jaya awijaya Universitas Brawijaya Universisting contract on rights and obligations, some villagers lack commitment to lava awijaya Universities awijava Unive collaborate and have exercised various opportunistic behaviors. Indigenous awijaya awijaya community also does not have impartial connection to related information and awijaya awijaya chance for cooperation. sitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Poor attention was given to developing the capability of local people to collaborate in the project. The deficiency of financial, social, and physical capital limits the ability of villagers to engage in the program. Furthermore, the ability of niversitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya villagers to collectively act to express their collective interests also appears to have been diminished resulting from the deterioration of local institutions and social Univervalues rawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive (b) Community Forestry in Cambodia (Persson and Prowse, 2017) iversities Brawijava awijaya awijaya The concept of Cambodian community forest (CF) was finalized in 2006 awijaya awijaya based on a complicated regulatory scheme. It is characterized by institutionalizing awijaya awijaya deliberate process of decision-making and devolving authorities over forest awijaya awijaya resources to indigenous people. It is also considered as a political support to native awijaya awijaya population. awijaya awijaya However, CF development often experiences some ample resistances. CF awijaya sites face disputes from illegal logging, conversion for farmland, and insufficient awijaya awijaya governance ability. It is also challenged by poor partnership between villagers and awijaya awijaya stakeholders, and non-responsive governmental officers. awijaya awijaya Incentives for participation in collective actions are limited for some reasons. awijaya awijaya First, conforming the norms of CF encompasses considerable costs. Second, the awijaya awijaya ^{ve} applicable regulations contain very complex mechanisms for the utilization of awijaya Unive timber and non-timber forest products (NTFPs). Third, the policies restrict local awijaya Unive people in generating endogenous income, further this can make local people are laya awijaya Universitas Brawijava Universitas Unive very depended on external funding java Universitas Brawijava Universitas Brawijava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya The formalization mechanism allows CF to accomplish some minimal awijaya awijaya requirements in organizational creation. Local people create organizational documents and area map, formalize managerial settings, and conduct some internal meetings. However, the previous activities do not necessarily support Unive collective action to emerge. Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universities The lack of relationship between CF and local authorities will discourage awijaya awijaya local people in conducting forest management activities. Further, patronage awijaya awijaya phenomenon remains a main challenge and frustrates the ability of existing formal Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive organizations to counter governance problems. In spite of its certain autonomy, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive focus on protecting the forest from criminals has burdened CF because it becomes it available awijaya awijaya very depended on outsiders for funding and facilitations. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya (c) Joint Forest Management in India (Corbridge and Jewitt, 1997) awijaya awijaya awijaya Universitian India introduced joint forest management (JFM) in order to recognize the awijaya Iniversītas Brawijaya awijaya existence and right of indigenous communities. The preliminary requirement for awijaya awijaya joining JFM is the creation of Village Forest Protection and Management hiversitas Brawijaya awijaya Committee (VFPMC). Further, this establishment needs formalization from Forest awijaya awijaya Department. In this scheme, each VFPMC must acknowledge the state's awijaya awijaya authorities by paying a certain amount of money. Also, it is given both rights and awijaya awijaya responsibilities in managing forest. awijaya awijaya However, experiences show that JFM aimed primarily at degraded forests awijaya awijava unive requires local people to invest much time and effort in replanting the areas. In awijaya unive addition, local effort is less supported by local government. Forest Department is awijaya awijaya Universitas Brawijaya University also less responsive to the violation conducted either by insiders or by outsiders. awijaya Universitas Brawijava Universitas Entremere awijaya Unive Consequently, local communities become less motivated in participating in JFM. witava awijaya awijaya Because forestry project consumes much time, it is argued that local people awijaya awijaya need direct incentives to act. For short term, it can be done by providing them awijaya awijaya limited seasonal employment in tree-planting activities at an attractive rate. Further, they need assistances such as agricultural means or low-rate loans to versītas Brawijaya Unive initiate small enterprises itas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava (d) Community Forest in Nepal (McDougall et al. 2013) External intervention has encouraged local people to take a learning process to community forestry in Nepal by considering each step as an opportunity to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive improve forest governance as Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Local capacity was empowered through activities such as courses, awijaya awiiava experience, reflection and networking. Technical abilities and knowledge improved awijaya awijaya through participation in collective level, such as for generating income, constructing awijaya awijaya infrastructure and managing conflict. Regular capacity-strengthening activities awijaya awijaya coordinated by outsiders, likely also contributed to technical skills, knowledge, and awijaya ersītas Brawijaya awijaya confidence. awijaya awijaya With the shift to collaborative governance, local people modified their plans hiversitas Brawijaya awijaya to become more informative and inclusive. The new norms embraced activities awijaya such as shared reflection, self-evaluation, formulation of visions and priorities, and, awijaya in some cases, conflict management or executive committee election. In terms of awijaya awijaya decision-making arrangements, they shifted from centralized towards more awijaya awijaya inclusive and deliberative. awijaya They also became more involved in higher connections and more active in awijaya Unive exchanging information and cooperation with NGOs and other stakeholders. The Java awijaya Universitas Brawijaya Unive development of network also included regularly asking governmental officers or laya awijaya Universitas Brawijaya Universitas Brawijaya Unive researchers to involve in group processes as observers or facilitators. ersitas Brawijava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya The governance process made issues such as information exchange, awijaya awijaya cooperation, and transparency unequivocal and held them in public sphere, thereby providing accountability. The deliberate decision-making processes also encouraged poor people by prompting information exchange and changing the ^{Unive} condition of decision making. Brawijaya Universitas Brawijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya These improvements demonstrate that the awareness of marginalized people have been increased toward their position. Awareness also improved ¹⁰ through interplay with outsiders. The improvement of awareness and knowledge Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive has increased marginalized members' confidence to pressure the functionaries to lave awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive recognize their rights and opinions. Java Universitas Brawijava Universitas Brawijava awijaya awiiava However, it was also argued that female members increasingly experienced awiiava power inequality either as individuals or as collective. In this case, women made awijaya an opposition to the current leadership. In other cases, marginalized members awijaya awijaya claim of rights emerged tensions or conflicts. This is because elite members awijaya awijaya sometimes did not want to shift power. awijaya awijaya awijaya (e) Community-Based Mangrove Management in Indonesia (Damastuti and de awijaya Groot, 2017) awijaya Study on Community Based Mangrove Management in Demak District by awijaya Damastuti and de Groot (2017) show that numerous restoration attempts have awijaya awijaya been conducted by various stakeholders such as local people, governmental awijaya agencies and non-governmental actors. The rehabilitated mangroves can support awijaya Unive local livelihoods characterized by the increase of local income. Universit Either funded or self-effort, community established group prior to rehabilitation. Java awijaya Iniversitas Brawijaya Universitas Brawijaya Inive There are two kinds of membership system, i.e. representativeness and nepotism. awijaya awijaya The latter means membership is determined by elites based on individual relations awijaya awijaya and political relationships. This practice resulted in communal refusal, conflict, and support withdrawal. Even though awareness and leadership can encourage local involvement, people are dependent on the direct incentives. In conducting projects, government usually gets in touch with groups without Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya involving communities and local authority. Furthermore, there is no post-project awijaya activities. Therefore, activities are only limited to the project. In contrast, NGO conducted long-term project such as plantation, training, and income generation Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya activities. Decision making process were made in partnership with NGO awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive assistance. However, activities are constrained by NGO's financial and program. awijaya awijava Other group independently conducted mangrove restoration and management awijaya awijaya by using internal funds. Unfortunately, these are only short-termed activities and awijaya awijaya rely upon outsider funding. Member participation is frequently decreased after awijaya awijaya leadership transition. awijaya awijaya In conducting rehabilitation, communities apply common silvicultural practices. awijaya awijaya However, it is done without any prior observation relating site and planting iversitas Brawijaya awijaya schedule is mainly based on projects constraints rather than climate. awijaya awijaya Consequently, this results in high mortality rate. Local people rarely conduct awijaya awijaya monitoring and maintenance after planting activity. Only one group conducts awijaya awijaya regular monitoring. Regarding the maintenance, only NGO-aided project conducts awijaya awijaya regular maintenance. Site selection depends on decision made by associations awijaya awijaya and funding institutions. Meanwhile for project funded by government, the choice awijaya Unive is decided by government. Some groups integrate income diversification into their laya awijaya University management practices. However, this effort is unsuccessful due to insufficient java awijaya Universitas Brawijava Universitas ----awijaya unive capital. Local communities also formalize the management of mangrove and awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive coastal area through village regulations. Universitas Brawijava awijaya awijaya In sum, mangrove rehabilitation contributes not only in providing protection awijaya awijaya service but also supporting local income. However, in rehabilitation activity, local people rely heavily on external funding. Universitas Brawijaya Universitas Brawijaya Ilniversitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijuyu	Title/Authors/ Journal Research Method	Findings	Limitations
awijaya	Table 1. Summary of Previous Studies	Iniversitas Brawijava	
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awijaya	Table 1. Summary of Previou	us Studies	Universitas Brawijay	a	
awijaya	Title/Authors/Journal	Research Method	Findings	Limitations	Link to current research
awijaya	Barriers to Collaborative	 Employing qualitative 	Some barriers in collaborative forest	It focuses only on	Barriers in applying
awijaya	Forest Management and	approach with purposively	management are the lack of political	barriers that inhibit	collaborative forest
awijaya	Implications for Building the	selected sites and informants	will on the part of government awijay	community resilience	management
awijaya	Resilience of Forest-	 Using various sources of 	representatives to share power and	to policy change.	
awijaya	Dependent Communities in	data i.e. interview and official	responsibilities with local resource	a	
awijaya	the Ashanti Region of	document	users; inadequate economic		
	Ghana	A STALL W	incentives; marginalization and		
awijaya	K. Akamani, P. I. Wilson		weakening of informal institutions;	ci	
awijaya	and T. E. Hall (2015)		unequal access to information and ay	a	
awijaya	Journal of Environmental		opportunities for participation; and ay	a	
awijaya	Management 151:11-21		inadequate attention to building the	a	
awijaya	Universita		capacity of communities.	a	
awijaya	Collective Action on Forest	 Employing quantitative and 	Community forestry is characterised	It focus on	Challenges in applying
awijaya	Governance: An	qualitative methods with	by the exclusion of younger and	challenges facing	community forest
awijaya	Institutional Analysis of the	purposively selected sites	poorer households from formal	local forest users to	
	Cambodian Community	and informants	meetings, high costs and limited benefits for members, informal	organize community	
awijaya	Forest System J. Persson and M. Prowse	 Using interview and 	information channels where women	forest.	
awijaya	(2017)	vequestionnaire availation on versita	and poorer households are	a	
awijaya	Forest Policy and	Descriptive, univariate versita	excluded, low levels of formalisation,	a	
awijaya	Economics 83:70-79	analyses, logistic regression	high enforcement costs and massive	a	
awijaya	Universitas Brawijaya Un	and OLS models	external pressures.	a	
awijaya	Joint Forest Management	- Employing fieldwork method		It does not describe	 Theoretical conception
awijaya	in Indiaitas Brawijaya Un		management is flawed in five key jay	specific	of joint forest
awijaya	S. Corbridge and S. Jewitt	reviewing previous literature	respects. First, indifference toward	empowerment	management
	(1997)	 Using various sources of 	local knowledge. Second, less	process.	 Constraints in applying
awijaya	Environment and Planning	data i.e. previous study,	support from government. Third,	c7	joint forest management
awijaya	29:2145-2164	interview, observation and	insufficient implementation of rule	8	,
awijaya	Universitas Brawijaya Un	regulatory document	enforcement. Fourth, low leadership	a	
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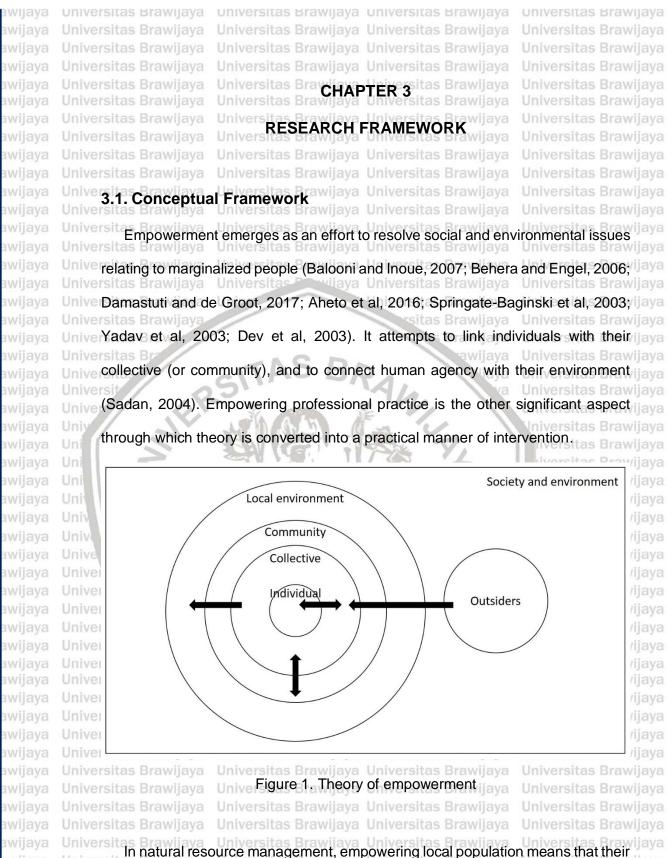
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In natural resource management, empowering local population means that their existence must be recognized (Corbridge and Jewitt, 1997; Behera and Engel, 2006). It includes involving them in the practices (Corbridge and Jewitt, 1997; 61 awijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Behera and Engel, 2006; Pomeroy and Carlos, 1997; Hodgdon, 2010; Springate-Baginski et al, 2003; Damastuti and de Groot, 2017; Yadav et al, 2003; Dev et al, 2003). In many cases, local involvement can be applied in short term or in long Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive term. Temporary empowerment is usually conducted in form of small-scale project Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive such as forest replanting (Damastuti and de Groot, 2017). However, this activity awijaya awiiava can exist in the longer time when it becomes forest rehabilitation (not only planting, awiiava but also maintenance and monitoring) (Damastuti and de Groot, 2017; Aheto et al, awijaya awijaya 2016). In contrast, long-term empowerment is usually accompanied by giving local awijaya awijaya group right to manage forest ecosystem independently. Permit granting aims to awijaya awijaya give group not only right but also responsible (Balooni and Inoue, 2007; Pomerov awijaya awijaya and Carlos, 1997; Hodgdon, 2010; Behera and Engel, 2006; Springate-Baginski et awijaya al, 2003). awijaya Management right is only starting point in empowerment process. Marginalized awijaya people need to be empowered through professional practices to create their awijaya confidence and to develop their human capital individually and collectively awijaya awijaya (Damastuti and de Groot, 2017; Behera and Engel, 2006). NGOs, governments awijaya ^{ve} and academicians are usually very concerned with local livelihoods (Agrawal and awijaya UniverYadama, 1997; Damastuti and de Groot, 2017; Behera and Engel, 2006; awijaya Universitas Brawijaya Unive Springate-Baginski et al, 2003; Yadav et al, 2003; Dev et al, 2003; Aheto et al, java awijaya Universitas Brawijaya Universitas Dicting 2016). In addition, enterprises play role too trough their corporate social awijaya awijaya responsibility programs (Damastuti and de Groot, 2017). Outsiders' interventions awijaya awijaya are mostly in the forms of funding, capacity building, organizational development, and forest governance (Damastuti and de Groot, 2017; Behera and Engel, 2006; Springate-Baginski et al, 2003; McDougall et al, 2013). As the process runs, some issues may emerge and threat the existence of rsitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava organization. These issues are resistance, conflict, awareness, organizing community, and outcome and product (Sadan, 2004; Behera and Engel, 2006; Dev et al, 2003; Yadav et al, 2003). Resistance usually happens when indifference and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya the absence of interest exist (Damastuti and de Groot, 2017). Dichotomy of awijaya Unive member and non-member, and active member and inactive member may cause lava awijaya awiiava dispute. The indirect but systematic violence against weak people is an excuse for awijaya awiiava the rise of conflicts (Yadav et al, 2003; Dev et al, 2003). Awareness relates to the awijaya awijaya individuals' and collective's evaluation of their strengths and weaknesses and how awijaya awijaya to employ these positively (Behera, 2009; Yadav et al, 2003; Dev et al, 2003; awijaya awijaya Damastuti and de Groot, 2017; Pénelon, 1994). Organizing individuals sets in awijaya awijaya interpersonal relationship (Behera, 2009; Yadav et al, 2003; Dev et al, 2003; Aheto awijaya et al, 2016). It is argued that a steady and continuous relations with others can awijaya awijaya improve empowerment process. It is possible to determine the success of awijaya awijaya empowerment at certain time based on process outcomes, such as the existence awijaya awijaya of community activity (Aheto et al, 2016), the quality of its decision-making (Yadav awijaya awijaya et al, 2003; Dev et al, 2003; Aheto et al, 2016), the degree of its purposiveness awijaya awijava (Yadav et al, 2003; Dev et al, 2003; Aheto et al, 2016), the standard of organization awijaya Unive of community activity (Behera and Engel, 2006), and the usefulness of the latter to Java awijaya Universitas Brawijaya Unive the community's interests (Behera and Engel, 2006). Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava Universit Based on expected outputs in each step, the process of empowerment is as java awijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya Initial situation makes people powerless. They cannot actualize their hopes awijaya because of the lack of abilities and resources. 2. Supports must be given to leverage people's will to facilitate arranged action. 3. People wish to expand their capabilities by acquiring means and resources. iniversitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya awijaya awijava 4. A critical consciousness is developed as people acknowledge their rights and Universit abilities. 5. Confidence to deal with daily life emerges among people. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 6. The process continues through resources mobilization by individuals. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Individuals and collective will transfer their abilities to daily activities. It as Brawijava awijaya awiiava awijaya awiiava 3.2. Propositions awijaya Many third-world governments utilize their natural resources to boost national awijaya awijaya growth (Gomide et al, 2012). However, previous regime on forest administration awijaya awijaya has only focused on timber exploitation (Castañeda, 2000; Corbridge and Jewitt, awijaya awijaya 1997; Soepijanto et al, 2013; Akamani et al, 2015) and tended to indifference awijaya awijaya forest-border communities (Corbridge and Jewitt, 1997; Soepijanto et al. 2013). awijaya This practice has marginalized them (Lebel et al, 2004; Akamani et al, 2015) and awijaya awijaya local struggles have been directed at state monopoly over commercialization on awijaya awijaya forests (Baumann, 1998). Shift on forest governance has led to collaborative awijaya awijaya approach (Balooni and Inoue, 2007; Pomeroy and Carlos, 1997; Hodgdon, 2010) awijaya where local communities become one of the main player in forest management awijaya ^(e) (Fujimori, 2001; Bellefontaine et al, 2000; Buongiorno and Gilless, 2003).^{Las Brawijaya} sitas Brawijaya awijaya Local people need to be empowered because of their powerlessness and awijaya poverty (Sadan, 2004; Alsop et al, 2006) and their high dependency on forest awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive resources (Ahsan, 2014; Basyuni et al, 2016; Hastuti and Yuliati, 2017; Malik et al, java awijaya awijaya 2015). These vulnerable groups, especially coastal communities, become more fragile because of exogenous aspects such as climate change and natural disasters (Kusky, 2008; Houghton et al, 1996; Watson et al, 1996; Alam et al, 2017; Lodhia, 2011; Ellison and Strickland, 2015; Cuevas, 2011; Franck, 2009;

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Preston et al. 2006; Rawlani and Sovacool, 2011; Shaffril et al. 2017; Scheraga and Grambsch, 1998; Mustelin et al, 2010; Bindoff et al, 2007; Wong et al, 2014; Bigano et al, 2008; Nguyen et al, 2016; van Putten et al, 2014). ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Empowering communities aims to lift up their abilities and economies awijaya Unive (Damastuti and de Groot, 2017), and to improve forest ecosystem (Damastuti and Java awijaya awiiava de Groot, 2017; Ellison, 2000). In short term, funded empowerment may give local awijaya awijaya people trade off to fulfil their subsistence (Damastuti and de Groot, 2017; Indrawan awijaya awijaya et al, 2014). For longer period, empowerment may increase local ability, and, awijaya awijaya together with recovered ecosystems, improve community income (Damastuti and awijaya awijaya de Groot, 2017). Empowered communities are characterized by high confidence awijaya awijaya and increased ability in terms of positive perception (Yadav et al, 2003; Dev et al, awijaya 2003), increased participation (McDougall et al, 2013), mutual trust among awijaya members and leaders (Aheto et al, 2016), increased awareness (Behera, 2009) awijaya and credibility in community (Aheto et al, 2016). awijaya awijaya However, community empowerment framed in social context is characterized awijaya awijaya by the dynamics and the complexity of social processes. These situations can be awijaya related to access, capital, institution, legal framework and contextual environment awijaya Unive (Damastuti and de Groot, 2017; Clifton, 2013; Hastuti and Yuliati, 2017; Page et Java Univeral, 2009; Rahman and Asmawi, 2016; Alsop et al, 2006). Many scholars argue that laya awijaya Universitas Brawijaya Universitas Erection Unive shortfalls emerge from the process of empowerment such as dependency on java awijaya awijaya outsiders (Behera and Engel, 2006; Damastuti and de Groot, 2017), low rule awijaya awijaya enforcement (Behera and Engel, 2006; Corbridge and Jewitt, 1997), discriminative awijaya treatments (Dev et al, 2003; Yadav et al, 2003; Corbridge and Jewitt, 1997; Damastuti and de Groot, 2017; Akamani and Wilson, 2015; Persson and Prowse, 2017; McDougall et al, 2013), elite domination (Yadav et al, 2003; Dev et al, 2003; versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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awijaya Universitas Brawijaya awijaya awijaya Damastuti and de Groot, 2017; McDougall et al, 2013; Persson and Prowse, 2017), and information asymmetric (Behera and Engel, 2006; Persson and Prowse, Universitas Brawijaya Univer2017) Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit The process of empowerment is also linked with human agency, both as Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya individual and as collective, ability to conduct empowerment, constraints and awijaya awijaya possible solutions, and process dynamics (Damastuti and de Groot, 2017; Clifton, awijaya awijaya 2013; Hastuti and Yuliati, 2017). In addition, outsiders' intervention can affect awijaya awijaya empowerment process (McDougall et al, 2013; Sangchumnong, 2018; Damastuti awijaya awijaya and de Groot, 2017). The last one which is important enough to be considered is awijaya awijaya about the relative outcome. Even though this part only gets less attention, as awijaya awijaya Sadan (2004) and Alsop et al (2006) argue, it will be useful to connect the process hiversitas Brawijaya awijaya with it. It is possible to determine the success of empowerment at certain time java awijaya awijaya based on process outcomes (Sadan, 2004). awijaya awijaya awijaya awijaya 3.3. Definitions of Operational Terms awijaya awijaya Several terms are often used to explain a certain situation or meaning by awijaya awijaya different people and this can be confusing. To avoid this, the terminology used awijaya Unive throughout this study is defined below and then used consistently. Iniversitas Brawijaya awijaya awijaya Unive (a) Empowerment niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit Empowerment relates to power and authority. It is an active process through java awijaya awijaya which authority on social sphere is delegated (Sadan, 2004). In defining awijaya awijaya empowerment, Alsop et al (2006) and Andersen and Siim (2004) give emphasize on process and outcomes. Process relates to enhancing individual or collective'

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awareness and capacity. Meanwhile outcomes can be seen from the level of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya participation and the power in decision making. Therefore, empowerment can be awijaya defined as a kind of delegation of authority on social sphere in an active process through enhancing individual or collective's awareness and capacity in order to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive increase the level of participation and the power in decision making. According to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive Sadan (2004), empowerment exists both in individual level and in collective level. awijaya awijaya awijaya Antipaga Universitas Brawijaya Universitas Brawijaya awijaya (b) Professional practice awijaya awijaya Professional practice is considered as a learning process aiming to educate awijaya awijaya people either to deal with problems or to increase capacity. Trainings provide awijaya tas Brawijava awijaya people with skills and knowledge important to act and to achieve individual and awijaya awijaya common goals (Sadan, 2004; Zimmerman, 2000; Parsons, 1989). Professional awijaya practice is carried out by outsiders and is considered as intervention in available awijaya awijaya empowerment process (Sadan, 2004). awijaya awijaya awijaya awijaya (c) Empowerment outcomes awijaya awijaya Individually and collectively, outcomes can be in forms of awareness or awijaya awijaya University consciousness, capacity, collective actions, the quality of decision-making lave awijaya Unive process, mutual trust and relations, organizational means, organization existence, Java awijaya Unive qualified leadership, responsiveness and adaptability, social legitimation (Sadan, Java awijaya University awijaya 2004; Alsop et al, 2005; Couto, 1989; Simon, 1990; Matton and Salem, 1995; Java awijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Wandersman and Florin, 2000; Rappaport, 1984; Behera, 2009; Yadav et al, 2003; awijaya awijaya Dev et al, 2003; Aheto et al, 2016; Damastuti and de Groot, 2017). Meanwhile awijaya awijaya ecologically, outcome relates to improved mangrove ecosystem (Aheto et al, 2016; Damastuti and de Groot, 2017; Pénelon, 1994). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya (d) Outsiders' interventions Brawijaya Universitas Brawijaya awijaya Outside stakeholders are government, non-governmental organization and awijaya enterprise. Outsiders' interventions can be in form of funding, knowledge transfer Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya and capacity building (Springate-Baginski et al, 2003; Damastuti and de Groot, ava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive 2017; McDougall et al, 2013). Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universitas Provijava Universitas Brawijava awijaya (e) Coastal community awijaya In the simple meaning, coast is where land and ocean meet (Kay and Alder, awijaya awijaya awijaya 1999; Charlier and Charlier, 1995). In tropical and subtropical regions, coastal awijaya versitas Brawijaya awijaya environment is usually characterized by mangrove ecosystem (FAO, 1994, 2006; awijaya awijaya Kay and Alder, 1999; Kusky, 2008). Therefore, coastal community is people who iversitas Brawijaya awijaya live close to mangrove ecosystem. The community is characterized by high awijaya awijaya dependency on agriculture, shrimp farming, fishing and mangrove to fulfil their awijaya awijaya subsistence and livelihood (Gowing et al, 2006; FAO, 1994; Ahsan, 2014; Basyuni awijaya awijaya et al, 2016; Hastuti and Yuliati, 2017; Malik et al, 2015). Specifically, mangrove is awijaya awijaya utilized in forms of timber and non-timber products, and recreational use (FAO, awijaya s Brawijaya awijaya Unive 1994, 2005, 2007). awijaya awijaya Unive (f) Social forestry awijaya Universit Social forestry is a generic term in forest governance. It involves the delegation in available awijaya awijaya of authority to local community in managing forest by means of agreement signed awijaya awijaya by both government and community (Mohammed and Inoue, 2014). It is a kind of awijaya awijaya sharing of benefits and responsibilities among stakeholders (Akamani et al, 2015; Persson and Prowse, 2017; Corbridge and Jewitt, 1997). Universitas Brawijaya Universitas Brawijaya

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69 Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Univer(g) Forest management sitas Brawijaya Universitas Brawijaya awijaya sitas Brawijaya Universitas Brawijaya awijaya Forest management is a way to organize a certain area of forest in order to awijaya awijaya produce forest products (Guldin and Guldin, 2003). It involves the integration of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University silvicultural activities and economic considerations to attain some desired goals Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya (Bettinger et al, 2009). Its activities are planning, silviculture, utilization and awijaya awijaya Unive protection. Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas De wijaya Universitas Brawijaya awijaya (h) Silviculture awijaya awijaya awijaya Silviculture is a kind of human interventions on forest. It aims to improve forest awijaya versitas Brawijaya awijaya productivity (Wadsworth, 1995; Bellefontaine et al, 2000; Gomide et al, 2012). awijaya awijaya techniques can be site preparation, activities, tree laya Silvicultural nursery awijaya awijaya regeneration, and control of tree growth (Fujimori, 2001). awijaya
awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya

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Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universitas Bravijava RESEARCH METHOD Brawijaya Universitas Brawijaya Universitas Brawijaya 4.1. Type of Research awijaya awijaya This research employed case study approach and focused on single case. The awijaya awijaya data collected and its analysis are in qualitative form. Case study is used for some awijaya Unive arguments (Yin, 2009). First, it is suitable to examine a decision, a program, or a laya awijaya itas Brawijaya Universitas Brawijaya awijaya Unive policy of any organization. Its focus can be individuals, collectives, organizations, lava awijaya awijaya processes, and institutions. It tries to reveal why and how a program is awijaya awijaya implemented, and to some extent, it also relates with the result. Second, study on awijaya awijaya community is usually free from researcher's control and intervention. Third, it awijaya awijaya deeply scrutinizes a recent event in real-life context, especially when the awijaya awijaya boundaries between them are not clear. awijaya awijaya However, this kind of inquiry faces some limitations too. First, many scholars awijaya Unive argue that researcher tends to be careless, not to follow systematic procedures, or lave awijaya awijaya Unive to allow vague evidence or biased views to influence the direction of the findings awijaya awijava and conclusions. To overcome this negativity, researcher will evaluate daily awijaya awijaya activities based on scientific procedure, and make comparison among proofs. awijaya awijaya Second, the findings cannot provide enough basis for analytic generalization. awijaya awijaya However, it is argued that case study is generalizable to theoretical propositions. awijaya awijaya Third, a complaint is that it is take too long and results in massive documents. Universitas Brawijava Universitas Brawijaya Universitas Brawijaya awijaya awijaya Duration can be challenged by taking data source variations and combining them awijaya Unive in order for validation. Enormous data is relative and avoiding unnecessary data java Unive can be conducted by collecting only relevant data. In addition, any deficit can be Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya complemented through indirect data collection such as internet and telephone. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava70 niversitas Brawijava Universitas Brawijava

awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Single case is chosen for some reasons. First, it represents the critical case in challenging an existing theory. The theory has specified a clear set of propositions as well as the circumstances within which the propositions are believed to be true. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive A single case can confirm, challenge, or extend the theory. Second, the case Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive represents a unique and typical case. Mangrove ecosystem is unique among other lava awijaya awijaya forests concerning its characteristics and functions. It also represents only a small awijaya awijaya part of world or national forests. Moreover, its uniqueness affects local livelihoods awijaya awijaya in wider social context in the course of land and marine life. Third, the excellence awijaya awijaya of single case is related to accessibility. It is preferred when researcher has wide awijaya awijaya access on unit analysis. Another access is related to outside parties influencing awijaya awijaya unit analysis. awijaya Case study method tries to obtain evidences from various sources. Some awijaya awijaya evidences can be generated from documentations, archival records, interviews awijaya awijaya and direct observations. In collecting data and information, researcher resided in awijaya awijaya community as near as possible. In addition, sometimes, case study plan can awijaya awijaya change as a result of the initial data collection, and researcher is encouraged to awijaya awijaya consider this flexibility to be an advantage of this method. However, it must be awijaya Unive conducted properly and without bias (Yin, 2009). awijaya awijaya Unive 4.2. Focus of Researchas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit In this research, unit analysis is collective level so-called the group of Mekar. awijaya awijaya This research focuses on the process of empowerment through social forestry implemented by the group of Mekar and constraints in empowerment process.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 33/Km.M/VII/LBK/2017 (second party number). This agreement further got Pengakuan dan Perlindungan Kemitraan Kehutanan (Kulin-Recognition and Protection of Forestry Partnership) from Minister of Environment and Forestry Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive through decree No. SK.1671/MENLHK-PSKL/PKPS/PSL.0/4/2018. This group is Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive given a concession of 60 ha of production forest. This concession lies in Lubuk awijaya awiiava Kertang Village, Brandan Barat District, Langkat Regency, North Sumatra. awijaya awiiava The area of Lubuk Kertang is 3,026 hectare and its distance to capital of awijaya awijaya Brandan Barat District is 13 km. It comprises five sub-villages i.e. Janggus, Paluh awijaya awijaya Tabuhan, Tepi Gandu, Alur Lebah, and Kelapa Enam. Its population is 3,063 awijaya awijaya people or 753 households. Most villagers work as farmers and traditional fishermen awijaya awijaya (BPS Kabupaten Langkat, 2017). awijaya Study by Basyuni et al (2016) reveal that Lubuk Kertang Village has 638.47 ha awijaya awijaya of mangrove. According to another author, it has 1,200 ha (Hafni, 2006). Ten awijaya awijaya mangrove species exist in this village such as Avicennia marina, A. lanata, awijaya awijaya Bruguiera sexangula, Rhizophora apiculata, Ceriops tagal, Xylocarpus granatum, awijaya awijaya ^{Ve} Lumnizera racemosa, Sonneratia caseolaris, Excoearia agallocha and Acanthus awijaya awijava ^{ve} ilicifolius (Basyuni et al, 2016). As many as 48.17% villagers utilize mangrove to awijaya Unive fulfil subsistence, meanwhile other 35.58% respondents use it for recreational java Unive activity, and commercial utilization is the least motive. In addition, some 13.8% ava awijaya Universitas Brawijava Universitas Brawijava Unive community do not recognize mangrove ecosystem. Employing SWOT analysis, java awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya they conclude that some weaknesses in mangrove utilization are low perception of awijaya awijaya community and visitors, insufficient support from local government, and lack of awijaya information on ecotourism. Meanwhile the threats are negative impacts of ecotourism and conflict of interests. Hafni (2006) argues that land-use changes ^{ve} into palm oil plantation and pond driven environmental damage in this area and as versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava many as 740 hectare of mangrove are heavily damaged. She further explains that the damage results in income decreasing of traditional fisherman. Fishermen's Universitas Brawijaya Inive income declines as many as 75%. Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive 4.4. Technique of Data Collectiona Universitas Brawijaya awijaya awiiava Unive 4.4.1. Technique of Data Collection a Universitas Brawijava awijaya awijaya Sources of data consist of informants, phenomena and documents. Meanwhile awijaya data collection technique was done through interviews, observations and awijaya awijaya documentation study. Sources of data and data collection technique are explained awijaya awijaya below. Using various sources of data is very useful because they can complement awijaya awijaya each other (Yin, 2009). Data collection was conducted for approximately 30 days awijaya (4 June 2018 to 13 July 2018, Saturdays and Sundays were excluded). Stas Brawijava awijaya awijaya (1) Documentation study awijaya Documentation study was employed toward documents and archival records. awijaya awijaya Documents consist of group statute, contracts, meeting notes, group proposals. awijaya group records, previous studies, and news and articles in the mass media. awijaya Meanwhile archival records consist of statistical data, governmental regulations awijaya and policies, and spatial data concerning geographical characteristics of location. awijaya Universit Group statute, contracts, meeting notes, group proposals and group records awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universe were obtained from the group. Previous studies are in the forms of national and java awijaya awijaya unive international scholarly journals obtained from internet and libraries. Institutional reports were obtained from governmental agencies, enterprises and NGOs. News and articles were obtained from either printed or online mass media. Statistical wijaya data was obtained from statistic office and the village government. Governmental

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava regulations and policies were obtained from official websites and related offices. Spatial data concerning geographical characteristics of location was obtained from Inivergovernmental agencies: sitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Univer(2) Interviewsva Universitas Brawijaya Universitas Brawijaya awijaya awijava The interviews used semi-structured conversations rather than structured awijaya awijaya queries. However, actual questions were likely to be fluid rather than rigid. In-depth awijaya awijaya interviews were employed in order to ask informants about facts and their opinion awijaya awijaya about events. In certain situations, interviewees were encouraged to propose their awijaya awijaya personal statements into certain occurrences and used such statements as a basis awijaya awijaya for further examination. Therefore, interviews took place over an uncertain niversitas Brawijaya awijaya duration. Some interviewees also suggested other people for researcher to awijaya awijaya interview, as well as other sources of evidence. awijaya awijaya conversations During interviews. the were recorded with recorder. awijaya awijaya Furthermore, after interviews, informants were asked to clarify their statements. awijaya awijaya Interviews were around stakeholders' perception, behavior and attitudes; awijaya awijava ^{ve} organizational aspects of group; vulnerable aspects of local community, mangrove awijaya Univercondition and its management (history and current practices); empowerment lava awijaya Unive process (history and current practices); local wisdoms and regulations; and lava awijaya Universitas Brawijava Universitas Brawijava awijaya Unive external interventions (assistance and supervision).s Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava awijaya In total, informants were 19 people (see Appendix 2). Purposive sampling was awijaya awijaya applied to choose informants based on their involvement and interest in the awijaya process of empowerment. The informants consist of six group's members, three group functionaries, two village authorities of Lubuk Kertang (village head and a Unive member of va Lembaga Pemberdayaan Masyarakat (LPM-Community Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Empowerment Institute)), three governmental officers (Dinas Kehutanan Provinsi Sumatera Utara (Dishutsu-the Forestry Service of North Sumatra), Agency for Social Forestry and Environmental Partnership, and KPH), two staff members of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive non-governmental organizations (Yayasan Gajah Sumatera and Keluarga Bahari), awijaya Unive a staff member of PT. Pertamina EP Aset 1 (Pertamina), a retired staff member of awijaya awijava Provincial Forestry Service and an ex staff member of PT. Sari Bumi Bakau. awijaya Universitas Brawijaya Universitas Dowijaya Universitas Brawijaya awijaya awijaya (3) Observations awijaya awijaya awijaya To obtain specific and comprehensive understandings about empowerment awijaya Jniversitas Brawijaya awijaya process, researcher conducted observation. Some observed activities were awijaya awijaya mangrove management and ecotourism awijaya awijaya awijaya 4.4.2. Principles awijava awijaya Some principles in collecting data are utilizing various sources of data, awijaya awijaya establishing a database and keeping a set of evidence. These principles are useful awijaya awijaya to ward challenges addressed to case study method, mainly validity and reliability awijaya awijava Unive (Yin, 2009). awijaya Unive 4,4.3. Ethics awijaya Universit In conducting data collection, some ethical practices were given enough available awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya consideration (Yin, 2009). These were done trough: awijaya awijaya awijaya awijaya a. Letter of introduction It was intended to inform any subject about the study. This was done prior to field works and data collection. This letter was issued by the university. Stas Brawlaya Universitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya Ilniversitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universita Requesting approval Brawijaya Universitas Brawijaya Permission was needed from any subject, especially formal institutions. It was written and verbal. Prior to interview, letter of information (appendix 1) was read to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya give interviewee comprehension concerning this research. Further, he/she gave Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Univerhis/heBapproval. Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya awijaya c. Protecting human subjects awijaya awijaya

Protecting subjects means treating their privacy confidentially. This aims to

avoid any potential harm to them.

4.5. Technique of Data Validation

To improve the quality of case study, the design needs to be maximized through some critical conditions such as construct validity, external validity and reliability

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(Yin, 2009).

Univer Univer 4.5.1. Construct Validity niversitas Brawijaya Iniversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universit It was done by identifying proper operational terms, defining them in local awijaya awijaya awijaya context and relating them to the original objectives of this study. Some related awijaya awijaya activities were utilizing various sources of data, creating chain of evidence, and awijaya awijaya unive asking key informants to confirm their statements. These were done through data awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive collection and preliminary report composition.ersitas Brawijaya awijaya awijaya The utilization of various sources of data is considered as a process of awijaya triangulation and corroboration. Therefore, any finding or conclusion is likely to be awijaya more satisfying and precise. Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Univer4.5.2. External Validity Itas Brawijaya Universitas Brawijaya sitas Brawijaya Universitas Brawijaya Case study was intended not to generalize statistical findings but to generalize theory. Therefore, its activity was employing theory in single-case studies through Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univereisearch design. Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 4.5.3. Reliability awijaya tas Brawijaya awijaya It aims to reduce biases and errors in an inquiry. Some related activities were awijaya awijaya employing case study design and developing case study database. These were awijaya awijaya done through data collection. AW, awijaya awijaya awijaya Iniversitas Brawijaya awijaya 4.6. Technique of Data Analysis awijaya awijaya Data was analyzed through preliminary and general analytic approach. Four awijaya strategies were employed such as self-articulation, manipulating data and awijaya awijaya information, confirming findings, and expert review (Yin, 2009; Hancock and awijaya awijaya Algozzine, 2006). awijaya awijaya awijaya awijava 4.6.1. Self-articulation awijaya awijaya Universit Researcher's articulation of personal biases is needed to avoid the potential Java Universitas Brawijaya awijaya awijaya impacts of those biases (Hancock and Algozzine, 2006). Self-articulation is based awijaya awijaya University on researcher's knowledge and experiences. Furthermore, this strategy was awijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya 4.6.2. Manipulating Data and Information Data manipulation relates with its arrangements and was done by simplifying, combining, integrating and summarizing data, and cross-checking among data Universitas Brawijava Universitas Brawijava Universitas Brawijava **Hniversitas Brawilava**

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava (Yin, 2009; Hancock and Algozzine, 2006). This resulted in "better" data and was further processed into data displays. According to Miles et al (2014), data can be displayed in the forms of matrix, table, flowchart and graphic. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive 4.6.3. Confirming Findings Brawijaya Universitas Brawijaya awijaya awiiava This was done by relying on theoretical propositions (Yin, 2009) and examining awijaya awijaya rival explanations (Yin, 2009; Hancock and Algozzine, 2006). According to Yin awijaya awijaya (2009), theoretical propositions are useful to guide research. Meanwhile rival awijaya awijaya explanation was employed rival theory as a part of real-life rivals. It aims to awijaya awijaya compare findings with existing theory (Yin, 2009). It is also to gain feedback from awijaya awijaya the theory so that the findings can be confirmed (Hancock and Algozzine, 2006). awijaya awijaya awijaya 4.6.4. Expert Review

Data and findings were scrutinized by supervisors and any relevant suggestion will be useful for accuracy, clarity and meaningfulness (Hancock and Algozzine, Unive 2006).

4.7. Case Study Model

awijaya Case study method has six steps such as planning, designing, preparing, awijaya collecting, analyzing, and sharing (Yin, 2009). Research planning is the first step awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University in case study. It has three sub-steps such as identifying research question or other lave awijaya awijaya Unive reason for conducting a case study, deciding to use the case study instead of other lava method, and understanding the strengths and weaknesses. Second step is research design consisting of defining the unit of analysis, developing theory and propositions, identifying case study design (single or Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

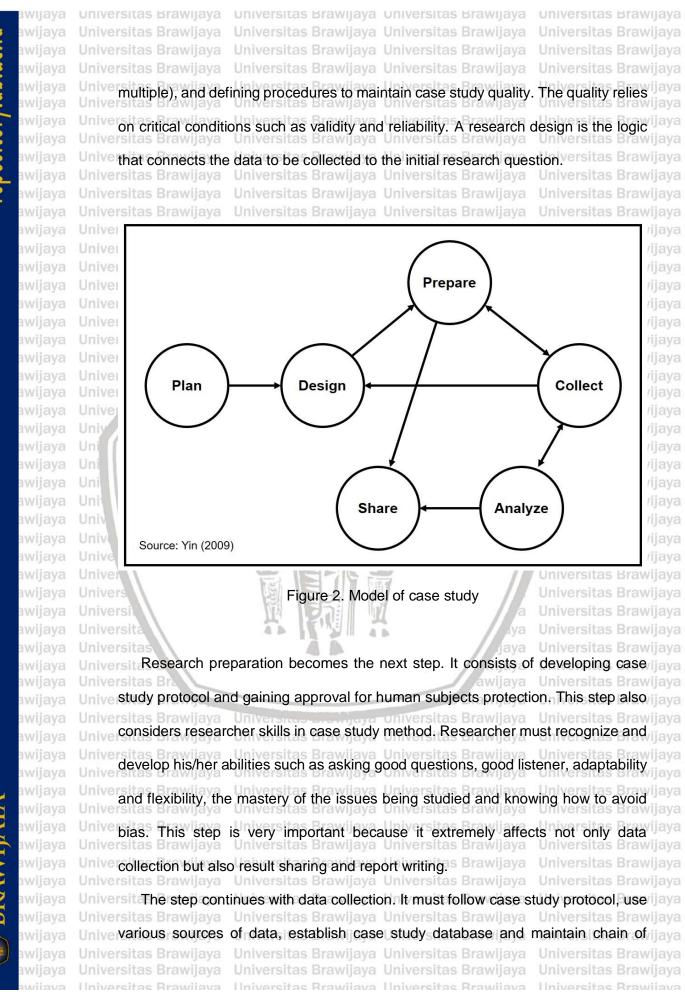
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awijaya awijaya step afterward, and appropriate sources of data and technique of data collection awijaya awijaya Univerwill determine and will be determined by these steps. Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Then the data is analyzed based on theoretical prepositions, is explored with Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya University of the data and is displayed apart from interpretations. Finally, the data and itaya awijaya awijaya results are shared in terms of composing textual and visual materials, displaying awijaya awijaya sufficient evidence, and reviewing and re-writing the report. awijaya awijaya awijaya awijaya NERSI NURLY awijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya

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evidence. Data collection has a reciprocal relation with the previous step and the

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Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava Universitas Bravijava Universitas Bravijava **Universitas Braw** RESULT AND DISCUSSION Universitas Brawijaya Universitas Brawijaya 5.1. Result awijaya Universitas Brawijaya Universitas Brawijaya ^{Univer}5.1.1. ^BThe History of Mangrove Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya At the beginning of the 1980s, government promoted the empang paluh (fish awijaya aya Universitas Brawijaya awijaya Unive pond) program in coastal areas. To succeed the program, the fishermen in the lava awijaya Univercoastal area of Langkat Regency formed groups incorporated in Himpunan available awijaya awijaya Nelayan Seluruh Indonesia (Indonesian Fishermen Association). These groups awijaya awijaya were maintaining mangrove stands in order to succeed the empang paluh awijaya awijaya program. Thus, mangrove had survived for more than fifteen years and were safe awijaya awijaya from illegal logging threat. awijaya awijaya Since 1996, illegal loggers from outside had entered Lubuk Kertang Village awijaya awijaya (hereinafter referred to as Lubuk Kertang). They cut down mangrove trees as raw awijaya Unive material for charcoal. Regarding illegal logging, an informant said, niversitas Brawijaya awijaya awijaya "I (fisherman) saw the illegal loggers were cutting down mangroves every day and were awijaya bringing them to their village. However, I can only see and cannot prohibit them" (R10). awijava awijaya Further, another informant confirmed, awijaya "They (illegal loggers) cut not only the trunk but the whole stand" (R2). awijaya awijaya As a result, charcoal factories had spread everywhere including in Lubuk Kertang. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Those illegal loggers worked individually. Universitas Brawijava awijaya Universit Hutan tanaman industri (industrial plantation forest) concession of PT Sari Bumi Bakau (SBB) was issued in 1999, it covered the coast of Langkat Regency covering an area of 20,100 ha with mangroves as a main plant. Its concession also covered the area of Mekar group (Mekar). Encroachments in the mangrove forests Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava safe because it were still spreading out, but the area of SBB was relatively conducted cooperation with the Navy in securing mangrove. In 2000 and 2001, SBB drawn up Rencana Kerja Tahunan (RKT-Annual Work Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Plan). According to these RKTs, SBB conducted mangrove exploitation and awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive planting activities including in Lubuk Kertang. In 2001, the North Sumatra House awijaya awiiava of Representative suspended the operational activities of SBB, because it was awijaya awijaya indicated that the company abused the document use for log transport and awijaya awijaya monopolized charcoal production. Encroachment then occurred in the SBB area. awijaya awijaya Mangrove encroachments continued and resulted in the conversion of awijaya awijaya mangroves into ponds and palm oil plantations around 2002. Inactive ponds had awijaya awijaya also switched into palm oil plantations. These land use changes were done by lave niversitas Brawijaya awijaya individuals and companies. Because it was not active, the permit of SBB was java awijaya revoked in 2005. Then the former area of SBB was redesigned by the Ministry of awijaya Forestry for hutan tanaman rakyat (HTR-community plantation forest). Of the awijaya awijaya 20,100 ha, 3,050 ha was reserved for HTR. As a result of revocation, the former awijaya awijaya area of SBB became open access and there was massive land clearing for palm awijaya Ve oil plantations, including in Lubuk Kertang. According to an informant, ersitas Brawijaya awijaya Unive "Until 2004, the conversion of mangroves to oil palm plantations reached 800 ha" (R9). awijaya awijaya niversit In 2006, Dinas Kehutanan dan Perkebunan Kabupaten Langkat (Dishutbun ava awijaya Langkat-Langkat's Service of Forestry and Plantation) launched Gerakan Nasional awijaya awijaya Rehabilitasi Hutan dan Lahan (GNRHL-National Movement for Forest and Land awijaya awijaya Rehabilitation) project in two locations involving two groups, namely Mekar and Kertang II, each project was 25 ha. Over time, the area of Mekar survives from encroachment, while Kertang II area had been converted into palm oil plantation. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive During plantation, Dishutbun Langkat monitored the work conducted by the groups. Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava Around 2007, the conversion of mangroves to palm oil plantations also occurred in other areas, outside 800 ha in 2004, and reached 400 ha. If added up, the conversions in 2004 and 2007 was 1,200 ha. This figure was confirmed by Universitas Brawijaya awijaya awijaya "Mangrove forests were damaged due to the conversions occurred in the entire area" (R1). awiiava awijaya iversitas Brawijava Other confirmations were obtained from several informants who said, awijaya "In order to plant mangroves, I sought seeds from outside the village" (R1). Universitas Brawi awijaya Unive "Amat Ali¹ searched seeds from outside the village" (R2). awijaya awijaya awijaya Unive The conversion process carried out by an oil palm plantation company was java awijaya awijaya inseparable from the change of the provincial forest area since the issuance of the awijaya awijaya concerning the lava Minister of Forestry's Decree No. SK.44/Menhut-II/2005 awijaya awijaya Appointment of North Sumatra Forest Areas. An informant said, awijaya awijaya "Part of the mangrove forest area in Lubuk Kertang had changed from production forest to awijaya daily area for other purposes. Besides converting some part of this area for other purposes into daya Unive oil palm plantations, the company had also penetrated production forest" (R18). Les Brawijava awijaya awijaya awijaya There are two versions of the conversion of mangroves into palm oil plantations. The first said that the initiative came from the community, while the second said the initiative came from entrepreneurs. The first version said that some awijaya villagers of Lubuk Kertang offering land to outsiders i.e. entrepreneurs and palm awijaya awijaya oil plantation companies, such as PT Pelita Nusantara Sejahtera (PNS) and awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya businessman Akam. These villagers plotted 2-ha parcels and offered local University community these parcels. Relating to this plotting, local community did not Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya understand the process. Those land sellers just gave villagers the parcels without Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava ¹ Amat Ali is a member of Mekar. Previously, he was the secretary of Mekar. Now, he is Unive the vice chairman of Mekar. tas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya payment and they asked the villagers to sign a letter with a stamp. In addition, the villagers were also asked to hand their copy of identity card (KTP) and Family Register. The parcels were given freely because those land sellers were convinced Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive that the villagers were unable to manage the parcels and would sell the parcels awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya back to them. The parcels were unmanageable because the area had been awijaya awijaya deforested and they did not have capital to manage the parcels, for example for awijaya awijaya ponds. So the villagers resold the parcels to the land sellers, they further sold the awijaya awijaya parcels to the entrepreneurs. awijaya awijaya The second version said that the entrepreneurs from Medan, such as PNS and awijaya awijaya Akam, lured villagers with money as compensation for the purchase of their ponds awijaya awijaya and made the transactions in receipts. The price was IDR 2,500,000 per person niversitas Brawijaya awijaya for a parcel of two ha. In this case, the entrepreneur was represented by the awijaya awijaya coordinator, then the coordinator visited the villagers. awijaya awijaya Regarding this compensation, the villagers acknowledged that the land is state awijaya awijaya forests. This compensation also created pros and cons in society. The proawijaya awijaya compensation people were very happy and accepted the money, while the contraawijaya awijaya compensation were not happy and rejected the money. Those who refused awijaya Universalized that they did not have land in the forest, after all they are generally ava awijaya awijaya Universitas Brawijaya Unive fishermen who have a living from the mangrove. They argued that if the mangroves liava awijaya Unive were converted, their livelihood would be threatened. Brawijaya Universitas Brawijaya awijaya awijaya Since then the entrepreneurs stemmed the area so that sea water cannot enter awijaya awijaya the land and the tidal process become disturbed (Figure 3). The fortification was awijaya awijaya carried out at 30 meter up to 50 meter from the coast. In preparing the land, they used heavy equipment such as excavators. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Figure 3. Area fortification (courtesy of Azhar Kasim) iversitias Brawijaya Universitas Brawijaya

Because sea water cannot enter the land, sea water inundated the settlements of Lubuk Kertang's neighbors such as Perlis Village and Kelantan Village. Then, this also impacted traditional fishermen of ambai. Ambai which requires a tidal process cannot be optimal anymore because the land was dammed. So that their income dropped. With this situation, people felt that their livelihoods were threatened, many fishermen changed over their profession or moved to other ^{ve} places. Small fishermen also felt the effects such as difficulty in finding crabs, lave Unive shrimps and fish, so that their income dropped dramatically. An informant said, awijaya Unive "Fishermen can earn more than IDR 150,000 per day previously, but it dropped to IDR 20,000 per day" (R4). Recognizing the negative impacts of mangrove conversion, a number of people were worried. They met Tajruddin Hasibuan and Azhar Kasim and made a complaint. Together with non-governmental organizations (NGOs) such as Kesatuan Nelayan Tradisional Indonesia (KNTI), Koalisi Rakyat untuk Keadilan Unive Perikanan (KIARA) and Wahana Lingkungan Hidup (WALHI), they advocated the Java community. Then they analyzed the existing situation from legal perspective. Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava awijaya awijaya awiiava Finally, they concluded to destroy the embankments. Tajruddin Hasibuan, Azhar Kasim and the community from Brandan Barat Subdistrict, Perlis Village, Kelantan Village, Sei Bilah Village, and several other places destroyed some embankments versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive in 2009. Whereas only a few people from Lubuk Kertang joined. The destruction of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive the embankments was repeated, because when the embankments were awijaya demolished, the entrepreneurs fixed them again at night. After several times, when the embankments were destroyed, the mass guarded the locations for two days so that the embankments were not fixed again, even though there had been physical awiiava clashes with entrepreneur's thugs. For this incident, the villagers were prosecuted awijaya awijaya to the Langkat Police on charges of crop damage and had been examined by the awijaya awijaya police, but none was detained by the police, because the land is state forest. The lave niversitas Brawijaya awijaya destructions of embankments were done with makeshift tools, such as hoes, lumps java and pumping machines. The latter was used to spray the embankments with water awijaya so that the soil can be easily hoed. In conducting the destructions, the villagers awijaya were only assisted by the NGOs. Based on informant's acknowledgment awijaya awijaya "The embankments that were destroyed covered an area of 462 ha" (R9). awijaya Another informant said. Unive "The area was around 400 ha" (R4). Iniversitas Brav After the destructions of the embankments, the villagers assisted by the NGOs planted around 80,000 mangrove seedlings in an irregular pattern. At that time the awijaya awijaya entrepreneurs were still resisting by damaging crops and flushing the seedlings with diesel fuel. The entrepreneurs also tried to divisive the villagers by giving a certain amount of money to certain people (related to the people who receive Universitas Brawijaya
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Figure 4. Palm oil plant conditions: Left: Pre-embankment destruction; Right: Post-embankment destruction (courtesy of Azhar Kasim) Further, complaints emerged from the community supported by the NGOs and

these complaints were heard by Balai Pengelolaan Hutan Mangrove Wilayah II (BPHM-II-Mangrove Forest Management Agency Region II). Then BPHM-II made Java niversitas Brawijaya a 25-ha mangrove rehabilitation model in Lubuk Kertang. This model was to support the community involved in the destructions of the embankments. The implementation of this model also involved Dishutbun Langkat. In addition to plantation by BPHM-II, Yayasan Gajah Sumatera (Yagasu-Sumatran Elephant Foundation) also planted mangrove in 2011 and 2013, as well

^{Unive} as insertion at the GNRHL area of Mekar in 2012. In 2012, *Dinas Lingkungan Hidup* Unive Kabupaten Langkat (the Environmental Agency of Langkat) planted 25 ha of Java awijaya Universitas Brawijaya Unive mangrove. PT. Pertamina EP Aset 1 (Pertamina) also planted around 29,040 ava Universitas Brawijaya Universitas Eranijaya Unive mangrove seedlings between 2012 and 2014. In 2013, Dishutbun Langkat planted java 25 ha of mangrove. Meanwhile planting by Balai Pengelolaan Daerah Aliran Sunga

(BPDAS) Wampu Sei Ular (Watershed Management Agency) was carried out on an area of 305 ha. Around 2015, Dompet Dhuafa planted mangrove on an area of

8 ha and Kompas on an area of 1 ha. These planting activities always involved ^{Unive} local community. An informant said lava Universitas Brawijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Brawilava Universitas Brawijava Universitas Brawijava Universitas Brawijava

UNIVERSITAS BRAWIJAYA UNIVERSITAS BRAWIJAYA UNIVERSITAS BRAWIJAYA awijaya awijaya awijava "I participated in planting between 2012 and 2015" (R5). Serawlava sitas Brawijaya Seeing the massive conversion of forest areas into non-forest areas, at the Unive direction of the Governor of North Sumatra, Dinas Kehutanan Provinsi Sumatera Unive Utara (Dishutsu-the Forestry Service of North Sumatra) carried out the Operation awijaya awijaya of Restoring the Function of Forest Areas in Langkat District in 2015 with a target awiiava awijaya of aquaculture and oil palm plantations with an area of ± 609.28 ha in Lubuk awiiava awijaya Kertang. This operation involved various institutions, such as Dishutsu, regional awijaya offices of Ministry of Environment and Forestry, Tentara Nasional Indonesia (TNIawijaya awijaya Unive the Indonesian National Army), Kepolisian Republik Indonesia (Polri-the National awijaya Unive Police), kejaksaan (the Attorney Office of North Sumatra and the Attorney Office Java awijaya awijaya of Langkat), Biro Hukum Sekretariat Daerah Sumatera Utara (the Provincial awijaya awijaya Bureau of Law), Sekretariat Daerah Kabupaten Langkat (the Regional Secretariat awijaya awijaya of Langkat), Dishutbun Langkat, and Camat Brandan Barat (District Head of awijaya awijaya Brandan Barat) and his staff. This operation aimed to reduce the rate of forest awijaya awijaya destruction, to carry out the execution of forest area, to destroy aquaculture and to awijaya awijaya fell palm oil trees inside the forest area. As a result, the team succeeded to execute awijava awijaya Unive an area of 105.79 ha contained palm oil plantations and ponds from several people. Unive The land execution was carried out with the acquisition of land, the destruction of lava awijaya unive embankments, the felling of palm oil trees, the installment of 20 ban signs and tava awijaya socialization to local community regarding the operation and its follow-up. Based awijaya awijaya on the statement of an informant, wijaya Universitas Brawijaya awijaya "There are currently around 800 ha of palm oil plantations controlled by the enterprises" awijaya (R9).5 braw Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive 5.1.2. BThe History of Mekar Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Mekar was established in 2005 prior to GNRHL project in Lubuk Kertang. At awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava the time of group formation, the chairman was Abdul Jalil and the secretary was Amat Ali with a total of 13 members. Dishutbun Langkat conducted the project in 2006 where Mekar was one of the groups involved in the project on an area of 25 Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In the project was a province of the project was awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Kertang II chaired by Sahbudin. awijaya Universitas Brawijaya awijaya awiiava In 2008, Mekar carried out maintenance activity for 80 ha of mangrove awiiava awiiava rehabilitation plants in Lubuk Kertang. This activity was monitored by Dishutbun awijaya awijaya Langkat. At the same time, the group requested Dishutbun Langkat to be given a awijaya awijaya mandate to maintain the rehabilitated area of the group. Dishutbun Langkat gave awijaya awijaya a positive response, and issued a letter in 2010. The letter gives the group a awijaya awijaya mandate to protect, to guard and to maintain the GNRHL plant independently. rawijava iversitas Brawijaya awijaya In 2013, Mekar experienced a leadership transfer from Abdul Jalil to Hadyan awijaya Jamili Batubara (hereinafter referred to as Dian or chairman). This transition was awijaya decided through a meeting held on 10 June 2013. Since Dian's leadership, the awijaya awijaya group became active. awijaya awijaya In line with Yagasu's focus, in 2014, it conducted projects in Lubuk Kertang awijaya ^{ve} relating to mangrove protection. Mangrove protection area was established and awijaya Unive Mekar was appointed as its manager. In the same year, the group set its second laya Unive organizational rules i.e. Anggaran Dasar (AD-statuta) and Anggaran Rumah ava awijaya Univer**Tangga (ART-**ordinance)._{Itas} Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya The group initiated ecotourism in the early 2016 by building jungle track. In April awijaya awiiava 2016, the group opened ecotourism for the first time and conducted voluntary donation collection. This practice experienced turmoil because of journalist's protest and Lembaga Pemberdayaan Masyarakat Desa Lubuk Kertang (LPM-Community Empowerment Institution) involvement in ticketing. However, the group versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava continued to collect donations voluntarily. Over time the ecotourism has developed and this further made the group ^{ve} arranged ecotourism. Besides independently, the group also has received many Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive assistances from outsiders such as Pertamina, Yagasu, Dishutbun Langkat, KPH awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive and the Village Government. The group also has built working system relating to have awijaya awiiava ecotourism. Since ecotourism was initiated, the group has organized itself but with awijaya awijaya weak rule enforcement awijaya awijaya awijaya awijaya 5.1.3. **Empowerment Process** awijaya awijaya The process of empowerment can be divided into two periods i.e. prior to 2013 awijaya awijaya and 2013 afterwards. 2013 becomes a milestone for the group because in this year awijaya awijaya the group experienced leadership transition. Further, the group has different awijaya mission. For the first empowerment, the group focuses on planting, maintenance awijaya awijaya and guard. Meanwhile in the latter period, the group focus on ecotourism. as Brawlava awijaya awijaya awijaya awijaya 5.1.3.1. Powerlesness awijava Illegal logging in and encroachment of mangrove forests in Lubuk Kertang had awijaya led to the conversion of mangrove into ponds and palm oil plantations. The massive awijaya land clearing for these two illegal activities had resulted in natural landscape awijaya changes in coastal area. Embankments carried out by irresponsible parties had awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya resulted in significant negative impacts for the coastal community of Lubuk Kertang awijaya Unive and its neighborhoods. The primary impact is the disruption of tidal process. While java the subsequent impacts are the inundation of residential area, decreasing environmental quality in the form of damage to the natural habitat of coastal flora and fauna, decreasing the income of coastal fishermen who depend on mangrove

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava ecosystems and losing job as a fisherman. Realizing the massive conversion of forest areas into non-forest areas and recognizing the negative impacts of mangrove conversion, Abdul Jalil and his Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive fellows were worried that this situation had threatened their livelihoods. However, java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive their awareness cannot be continued into actions because they had no power lava awijaya awiiava because the entrepreneurs had controlled the area and local community had been awijaya awijaya splitted into two opposites. awijaya awijaya Between 2005 and 2013, the group was only active when there were projects

from government. Members' inactivity complicated collective action to conduct further activities. The individual efforts of Amat Ali were threatened by rampant

illegal logging and encroachment.

5.1.3.2. Support

The group has received many supports either internally or externally. Internal supports come from fellow members, meanwhile external supports come from outsiders' interventions. Internal support came from Abdul Jalil who let Amat Ali ^{ve} planting mangrove. Dian²'s advice also became an impetus to Amat Ali who further Univergathered the previous members and recruited new members. Dian's inspiration java Unive along with other outsiders' aids further encouraged the group to start ecotourism. Vijava Universitas Brawijaya Universitas Ditalina Universit Since its establishment, the group has been assisted by various institutions. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya These institutions are Dishutbun Langkat, Yagasu, PT. Elnusa, Pertamina, the village government of Lubuk Kertang and KPH. Aids are given in the forms of fund, Brawijaya Universitas Brawijaya Universitas Brawijaya ² The history of Mekar is inseparable from the figure of Dian. As a newcomer, Dian first came to Lubuk Kertang in 2011. Dian quickly adapted and socialized with local community, and acquainted with Amat Ali in 2012. Then familiarity intertwined quickly through intense communication between them. Their discussion directed to the state of ^{ve} Mekar, the group had members but was inactive. Further, Dian gave Amat Ali an as Brawijaya Unive inspiration to establish an ecotourism attempt. It versit as Brawilava Universit as Brawilava Ilniversitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava material and equipment, infrastructures, training, coaching and comparative studies. In their realization, the group has implemented them either individually or collectively. ava awijaya Unive 5.1.3.2.1. Dishutbun Langkat rawijaya Universitas Brawijaya awijaya awiiava GNRHL project from Dishutbun Langkat gave Abdul Jalil and his fellows awijaya awiiava strength in order to restore the mangrove. Prior the execution of the project, they awijaya awijaya gathered several other villagers who had similar awareness and commitment. awijaya awijaya Then they formed farmer group under the name of Mekar in 2005. At the time of awijaya awijaya the formation, the group was chaired by Abdul Jalil and Amat Ali was secretary awijaya awijaya with a total of 13 members. The formation of the group which was a community hiversitas Brawijaya awijaya initiative was needed as a prerequisite for participating in the project. awijaya Regent Decree of Langkat No. 522.4-16.a/SK/2006 of 3 April 2006 concerning awijaya awijaya Executing and Working Farmers Groups for Activities of the National Movement awijaya awijaya for Forest and Land Rehabilitation (GN-RHL/GERHAN³) 2005 DIPA-L 2006 awijaya awijaya appointed Mekar and other twenty farmer groups as work partners in GNRHL awijaya projects in 2006. awijaya Universit In accordance with the project mechanism, the designated planting area was liava awijaya Unive determined by Dishutbun Langkat. At that time, the designated-GNRHL area of Java Universitas Brawijava Universitas -----Unive Mekar also experienced encroachment and fortification, but had not been planted liava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya ³ The funding provider for GNRHL project was Ministry of Forestry delegated to BPDAS Wampu Sei Ular. It coordinated with Dishutbun Langkat in order to determine the farmer's Unive area and group. The determination of the intended group can be in the form of an existing java unive group or the formation of a new group. In determining or forming groups, Dishutbun groups, and a new group of the formation of a new group. Langkat was looking for people who had will to rehabilitate forests and land. Procurement of seeds was carried out by the third party winning the tender and the seedlings were handed over to the farmer group for planting. In planting, farmer groups were given wages. By planting by local farmer groups, it was expected that a sense of ownership will

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Universities and they will maintain and care the plants, versitias Brawijava Universitias Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awiiava with palm oil plants. In this regard, an informant said, "The founder of Mekar (Abdul Jalil) maintained Mekar area and insisted on planting" (R6). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive So there was no further action from the entrepreneurs. During this time, problems University arose between local community and the founder due to the rampant giving of awijaya money by the entrepreneurs to local community as compensation for the land. Both awiiava awijaya Abdul Jalil and the group were pressured not only by the entrepreneurs, but also awiiava awijaya by fellow villagers. The magnitude of the influence of entrepreneurs made some awijaya people supported the entrepreneur's business. awijaya awijaya Universit Two year after the planting project, the group became active again. Mekar was lave awijaya awijaya appointed by Dishutbun Langkat to conduct maintenance of rehabilitated awijaya mangrove in Lubuk Kertang in accordance with the Cooperation Agreement No. awijaya 522.4-03/SPKS/GN-RHL/2008, with a contract of IDR 10,125,000. Further, awijaya awijaya Dishutbun Langkat had also issued a mandate letter to support the group to guard awijaya awijaya and to maintain the GNRHL plants independently. However, this support was not awijaya awijaya accompanied with resources. awijaya awijaya Universi In addition to planting and maintenance activities, Dishutbun Langkat still Universupported the group through coaching. According to an informant, inversitas Brawijaya Unive "Dishutbun Langkat held coaching activities to farmer groups every year" (R18). tas Brawijava Universitas Brav These farmer groups were invited to Dishutbun Langkat office and were given awijaya awijaya briefings and directions. Communication was still being established because it was awijaya awijaya considered that these groups were the spearhead of Dishutbun Langkat. In addition, it also provided opportunities for farmer groups for comparative study. The comparative study followed by the functionaries of Mekar was to Pemalang, UniverYogyakarta and Banyuwangi. Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya In 2016, Dishutbun Langkat budgeted certain funds from Dana Alokasi Khusus awijaya (special allocation funds) to develop ecotourism by building several facilities such awijaya as a watchtower, a guard post, a 90-m track and an entrance gate. Dishutbun Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Langkat has made a master plan for ecotourism development. In the master plan, lave Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive the facilities to be built were the extension of track, dock, cottage and others. But have awijaya awiiava this development plan was not exposed and published, besides Dishutbun Langkat awijaya awijaya had limited funds to fulfill the needed facilities. awijaya awijaya awijaya awijaya 5.1.3.2.2. Yagasu awijaya awijaya Yagasu was formed in 2002. Until 2005, Yagasu focused on conserving awijaya Jniversitas Brawijaya awijaya elephant ecosystems. Since 2006 (after the 2004 tsunami), Yagasu has focused hiversitas Brawijaya awijaya on preserving mangroves. The big project that Yagasu has done was Carbon awijaya awijaya Corridor funded by USAID (2011-2015), while Carbon Credit with Livelihood awijaya awijaya funding runs from 2010 to the present. Relating to the latter, Yagasu has signed a awijaya awijaya long term (20 years) land-use carbon credit contract with the Livelihoods Fund, a awijaya awijaya consortium of eight multinational companies from Europe (Yagasu, 2013) awijaya awijava Universit In determining the location of the project, the criteria are mangrove-possessed awijaya Unive villages that can still be maintained. Of the many villages, Lubuk Kertang is one of Java awijaya Universitas Brawijaya Unive them. Yagasu's focus on preserving mangroves appears clearly from projects lava awijaya Universitas Brawijava Universitas Brawijava Unive aided by USAID. The project was to form village regulations regarding the Village lava awijaya awijaya Land-use Plan (VLP), Mangrove Protection Area (MPA) and MPA manager. The awijaya awijaya VLP project helped communities making participatory mapping in planning the awijaya land-use of Lubuk Kertang. The direction of land use was focused on the agricultural, plantation, fishery and tourism by maintaining the sustainability of the Unive mangrove ecosystem (Yagasu, 2014). Universitas Brawijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Village regulation on Mangrove Protection regulates mangrove management awijaya and utilization, community involvement, and rules and sanctions. Even though the awijaya title is mangrove protection, it gets less attention in its description. Whereas the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya MPA project includes the determination of the MPA and the appointment of its awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive manager. Determination of the MPA is regulated in the Village Head Regulation awijaya awijaya Number 1 of 2014, while the appointment of Mekar as a MPA Manager is awijaya awijaya determined through a Village Head Decree No. 141.01/1162/LBK/IX/2014. The awijaya awijaya area of MPA is set as 19.13 ha consisting of 3.86 ha of core zone, 1.44 ha of buffer awijaya awijaya zone, and 13.83 ha of utilization zone. awijaya awijaya The appointment of Mekar as MPA manager resulted in consequences in the awijaya awijaya form of responsibility in "protecting" mangroves. This decree regulates not only awijaya right but also obligations. However, their proportion is disproportionate. From four awijaya awijaya main items, it only regulates one right i.e. managing MPA based on its allotment. awijaya awijaya The term "managing" is not explained further. Meanwhile Mekar's obligations are awijaya awijaya supervising and preventing environmental damage caused either by natural forces awijaya awijaya or by anthropogenic activities; giving oral or written warnings to parties that have awijaya awijaya the potential to do damage; and informing village apparatus or related institutions awijaya Universities Concerning environmental damages conducted by these parties. Universities Brawijaya awijaya Universitas Brawijaya Universit The project target for the formation of the two regulations is Lubuk Kertang, not lava awijaya Universitas Brawijaya Universitas - -----Unive Mekar. However, the Village Head appointed Mekar as the MPA manager based awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava awijaya awijaya These regulations have been launched in an audience in Regent's Office of awijaya awijaya Langkat in 2015. Based on the informant's explanation, "In this year (2015) also Yagasu initiated the village to propose the Village Forest scheme, Unive due to the formation of these village regulations to support the submission of Village Forest" Univer(R13) Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava However, this process cannot be continued because the group is considered s Brawijaya Universitas Brawijaya Universitas Brawijaya immature. Yagasu claimed, as Brawijaya Universitas Brawijaya Universitas Brawijaya ^{ve} "The group (Mekar) did not attend the meetings held by the village. The meeting aimed to Unive introduce the management of group to all parties" (R13).s Brawijaya Universitas Brawijaya awijaya Universit In accordance with the focus of the project, community empowerment is carried days awijaya awijaya out through planting and maintaining mangroves, and assisting the community with awijaya awijaya its economic activities. However, economic development is a secondary activity. awijaya awijaya Regarding Mekar, Yagasu admitted, awijaya awijaya Unive "Yagasu conducted less activities on ecotourism" (R13). awijaya awijaya Analysis of Yagasu's intervention on Mekar can not be done specifically awijaya awijaya because it does not provide specific report of each activity. Yagasu makes periodic awijaya awijaya report based on the program i.e. quarterly and annually. Based on the letter of awijaya awijaya working agreement for the construction of information hall No. 061/ADM/YGSawijaya awijaya MDN/IX/2014 of 26 September 2014 between Yagasu and a representative of awijaya awijaya Unive Mekar, Yagasu give the group some money to build an information hall in Mekar Uava awijaya University area. This construction employed 12 people within 25 days. Further, this hall was awijaya Unive used to conduct group meetings. However, lately it is used for praying room. Brawlava Universit The concept of ecotourism⁴ was originated from Amat Ali's thoughts during a lava awijaya discussion with Yagasu in early 2015. He wanted Mekar to get income from awijaya mangrove. On this basis, and several other considerations, Yagasu wanted to give awijaya awijaya him the opportunity to realize his idea of ecotourism. In the same year, Yagasu awijaya conducted a comparative study of mangrove management for economic Universitas Brawijaya Universitas Brawijaya development. Yagasu engaged Amat Ali in as a representative from Lubuk Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya ⁴ Even though Yagasu assumes that this idea came from Amat Ali, the researcher argues Unive that this came from Dianersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Lepository.ub.a awijaya awijaya awijaya awijaya awijaya awijaya awijaya awijaya	Kertang. In this study, Amat Ali visited Yogyakarta, Klaten, Solo, N	/lalang, Surabaya			
awijaya awijaya	and Situbondo for six days. It was hoped that by observing mangrove management				
isoo awijaya	in these places, it could change Amat Ali's mindset about manground the second se	ove management			
e awijaya	so he might be motivated to do the same in Mekar.				
awijaya	Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya				
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awijaya	a conflict by the chairman of Mekar, Yagasu did not know this. Y	agasu argued, awijaya			
awijaya	"The appointment of personnel was Yagasu's right with the consideration was highly dedicated figure in preserving mangroves" (B13)	n that the personnel			
awijaya	was highly dedicated figure in preserving mangroves" (R13).				
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awijaya	Unive Yagasu further argued, AS P	Universitas Brawijaya			
awijaya	Universitas	Universitas Brawijaya			
awijaya	"This comparative study was to provide an opportunity for Amat Ali concerning ecotourism. In addition, the appointment of Amat Ali was pe				
awijaya awijaya	represent the group. Dian was not appointed because of being young				
awijaya	(R13).	niversitas Brawijaya			
awijaya		niversitas Brawijaya			
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awijaya	Regarding the appointment of Amat Ali, Yagasu did not coordina	ate with the group			
awijaya	leader, but coordinated with the village head.	niversitas Brawijaya			
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awijaya	Universe Regarding this conflict, Yagasu thought,	Universitas Brawijaya			
	Univer				
awijava		Universitas Brawijava			
awijaya awijaya	"This might be related to giving fund to the group through Amat	Universitas Brawijaya Ali and treasurer			
awijaya awijaya awijaya	"This might be related to giving fund to the group through Amat (Rasmianto) ⁵ to make bamboo-made tracks in 2015. The handover of fu	Ali and treasurer			
awijaya	"This might be related to giving fund to the group through Amat (Rasmianto) ⁵ to make bamboo-made tracks in 2015. The handover of fu	Ali and treasurer			
awijaya awijaya	"This might be related to giving fund to the group through Amat (Rasmianto) ⁵ to make bamboo-made tracks in 2015. The handover of fu	Ali and treasurer inds was witnessed			
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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava Regarding the clarification of this conflict, Yagasu claimed, "When Yagasu conducted activities in Lubuk Kertang, the chairman never wanted to Brawlaya Univermeet" (R13). Jaya Universital Bcarrying out community empowerment programs, Yagasu always coordinated with the village head, but there was no coordination with the forestry awijaya awijaya agency⁶. Coordination⁷ with the village head is considered important because of awijaya awijaya three things. First, the approval of the village head will smooth the course of the awijaya awijaya program. Second, the village head plays an important role in conveying Yagasu's awijaya awijaya Unive programs to the community. Third, in planning assistance, Yagasu is also based lave awijaya awijaya on the Rencana Pembangunan Jangka Mengengah Desa (Village Mid-Term awijaya Development Plan). The assistances given to the group included funding for the awijaya awijava construction of track, clean water facilities, educational activities for local awijaya community on ecotourism, planting and nursery. awijaya awijaya Regarding coordination with interested parties, Yagasu has fulfilled the awijaya awijaya invitation from Pertamina to present what had been done and what would be done. awijaya awijaya Unive This coordination is important to do in order to synergize empowerment towards awijaya Unive the group and to reduce the potential of claim each other. awijaya Universit In ensuring the program works well, Yagasu uses an emotional approach java Unive through meetings with groups and not with the audit system. Evaluation of the lave awijaya success of the program is carried out by donors by going directly to the village awijaya awijaya through direct observation of the results of the work and asking the community. awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya ⁶ This statement was raised by R16 ^{e 7} The researcher wonders if Yagasu realized the importance of coordination with institution leaders, but why Yagasu did not coordinate with the chairman when appointing Unive Amat Ali for comparative study. Brawijava Universitas Brawijava Universitas Brawijava awijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava 5.1.3.2.3. PT Elnusa versitas Brawijaya Universitas Brawijaya In the early 2016, PT Elnusa (Pertamina's subsidiary) conducted seismic activity in Lubuk Kertang. To support its activity, PT Elnusa built temporary dock Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University and its connecting track. Because this enterprise used Mekar area, both parties way awijaya Unive had an agreement regulating the use of a small part of Mekar area for PT Elnusa's lava awijaya awiiava activities and the utilization of some PT Elnusa's wood by Mekar. This wood was awijaya awiiava used to establish other tracks connecting Yagasu-made track and enterprise-made awijaya awijaya track, and the group also expanded the existing tracks. awijaya awijaya awijaya awijaya 5.1.3.2.4. Pertamina awijaya awijaya Pertamina's policy on community empowerment is divided into four kinds, awijaya namely infrastructure, charity, capacity building and community empowerment. awijaya awijaya These four kinds include programs such as education, health, economics and the awijaya awijaya environment. Assistances are in the form of corporate social responsibility (CSR) awijaya awijaya Before 2015, CSR programs have been given in the form of infrastructure and awijaya awijaya charity such as schools, mosques, roads, and others. For Pertamina, CSRs like awijaya these have no continuation and after being built it will be left. However, since 2015 awijaya Unive there has been a change in the CSR trend focusing on capacity building and lava awijaya Unive community empowerment of the communities around the company's location. This java University Unive trend is caused by Pertamina's efforts to participate in the award by Ministry of awijaya awijaya Environment and Forestry in environmental management such as Proper. awijaya awijaya To provide CSR, Pertamina approaches the potential groups. Pertamina wants the program benefiting both parties. If the target group has been obtained, Pertamina will do group recognition. This means that this the target group must already have activities. Then Pertamina drives the group in developing its activities. versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava In implementing CSR, Pertamina issues a program for a certain duration. Pertamina's environmental program on Mekar is called the Pengembangan Kawasan Ekowisata Mangrove (Mangrove Ecotourism Development). The Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya program lasts for five 5 years from 2016 to 2020. The program-related objectives Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive are to rehabilitate critical areas of mangrove forests, develop mangrove ecotourism lava awijaya awiiava and create environmental-based community economic enterprises (Pertamina, awijaya awijaya 2018). Prior to this program, in 2015, Pertamina invited the chairman and vice awijaya awijaya chairman to do a comparative study to Deli Serdang. This comparative study to awijaya awijaya observe mangrove management by one group. awijaya awijaya Activities that have been carried out are mangrove planting and maintenance awijaya awijaya (2016 - 2018), track construction and maintenance (total 800 meters) (2016 iversitas Brawijaya awijaya 2018), group assistance, such as optimization of social media (facebook, youtube) awijaya as a means to promote tourism and group management (2016 - 2018), siswa cinta awijaya bakau programs (2016 - 2018), signboard making and maintenance (2017 - 2018) awijaya awijaya (Figure 5), mangrove nurseries (2017), entry access improvement (2018), awijaya awijaya mangrove area spatial improvement (2018) and financial literacy training (2018). awijaya In addition, Pertamina also monitors and evaluates annually on the development Unive of these activities (Pertamina EP Aset 1, 2018).

awijaya awijaya awijaya awiiava



Universitas Brawijaya Figure 5. Signboard: (a) At entrance gate; (b) At site ersitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava



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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Assistance is given directly to the group after notifying the village government. awijaya In providing assistance for physical development, Pertamina only provides awijaya materials, while labor wages are not given. Through the Community Development Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Officer, Pertamina supervises the work. This is to ensure that the work runs Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive smoothly. Based on Pertamina's evaluation, so far the realization of physical awijaya awijaya activities is in line with the target. The implementation of Pertamina's CSR awijaya awijaya programs such as the Siswa Cinta Bakau invited several related parties, such as awijaya awijaya KPH, District Head, Village Head, and Yagasu. awijaya awijaya Based on evaluation, Pertamina (2018) claims that group members' income awijaya awijaya increases at least 35% of their initial income as fishermen. This revenue increase awijaya awijaya also reaches IDR 1,000,000 per month⁸. In addition to economic benefits, other lave awijaya positive impacts are an increase in the number of beneficiaries, positive awijaya awijaya perceptions of local community, ecotourism of Lubuk Kertang as a new icon of awijaya awijaya tourism destinations in Langkat District and as a research destination. awijaya awijaya Regarding with parties who provide assistance to groups, Pertamina has awijaya awijaya coordinated with other institutions in 2018. This coordination aims to synergize awijaya awijaya Unive assistances among institutions so they are not overlapping and redundant. awijaya Unive Coordination is carried out during joint meetings, not in written term. Versitas Brawijaya awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Village government supports ecotourism in the form of village head frequent awijaya awijaya Jniversitas Brawijaya visits. These visits are usually accompanied with official visits of various awijaya awijaya institutions. Village support has also shown by endorsing the organizational structure of group. This endorsement aims to strengthen the functionaries to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive⁸ This is consistent with the result of this research. I stars Brawijava Universitas Brawijava awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Universitas Bravijava Universitas Bravijava Universitas Bravijava Even though regulations concerning MPA and MPA manager were dominantly set by Yagasu, village government had a role in issuing these regulations. Village Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive government also has a role in acknowledging partnership by signing NKK. This java awijaya Unive role is regulated in related governmental regulations such as Regulation of Ministry lava awijaya awijaya of Environment and Forestry and Regulation of Director General of Social Forestry awijaya awijaya and Environmental Partnership. awijaya Village government has allocated a number of funds to assist farmer groups in awijaya awijaya awijaya Lubuk Kertang based on their proposals. From many proposals, village awijaya awijaya government agreed to build a dock in ecotourism site in 2017. This facility is awijaya awijaya functioned to support boat tour and as entrance gate from sea. Other proposals awijaya awijaya cannot be realized yet because the village has limited fund awijaya awijaya

5.1.3.2.6. KPH

awijaya The role of KPH in empowering the group has been carried out since it awijaya awijaya submitted a partnership proposal. The preparation and discussion of NKK were awijaya awijava carried out together. Then KPH assisted the group in making a proposal for awijaya Unive ecotourism development. Even though it was compiled by KPH, all ideas came java awijaya Universitas Brawijaya awijaya Unive from the group. KPH only helped in its preparation because of the limitations of java Universitas Brawijaya Universitas Erecting Unive group human resources. This plan regulates the needs of the group to support awijaya awijaya ecotourism. It is hoped that this plan can be a reference for outsiders so that the awijaya awijaya assistances provided do not overlap and there is no claim each other. KPH also awijaya plays a role in helping groups to develop 10-year work plan and the first annual work plan. Regarding Mekar's limitations in making proposals, KPH realized, "KPH is not yet intensive in assisting the group to increase the group capacity. Mentoring Unive is still limited to the functionaries" (R12) ava Universitas Brawijava Universitas Brawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

awijaya

awijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijava Since the establishment of KPH, outsiders who want to carry out community empowerment activities must coordinate with KPH. Coordination built with Brawijaya Pertamina has been outlined in the form of a Memorandum of Understanding Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya (MoU). The implication is that in planning and executing the program, Pertamina awijaya Unive must coordinate with KPH. So that it is expected that Mekar does not walk alone lava awijaya awiiava and KPH knows group activities. The MoU with Yagasu has not yet been made awijaya awiiava because Yagasu has no activity in the group. In spite of no activity, Yagasu awijaya awijaya continues to coordinate with KPH. awijaya awijaya Other outsiders planning to make CSR activities are Bank Negara Indonesia awijaya awijaya (BNI) and PT. Indonesia Power. Communication with these institutions has been awijaya awijaya built. But the progress for PT Indonesia Power does not yet exist. While BNI has hiversitas Brawijaya awijaya coordinated with KPH and Pertamina regarding its CSR. BNI will provide CSR in jurya awijaya awijaya the form of physical building, namely the construction of 10 stalls. awijaya awijaya Because it was newly formed, KPH has less budget and facilities. So that this awijaya awijaya will make it difficult for KPH to empower the group. However, KPH will continue to awijaya awijaya empower the group on a non-budgetary basis. In budgetary terms, for 2018, KPH awijaya awijava has a budget for community empowerment aimed at the group. In the near future, awijaya Unive KPH will develop beekeeping at ecotourism sites. This assistance is expected to java Unive stimulate the development of group productive businesses, available awijaya University Universit To monitor group activities, KPH only conducts informal visits and awijaya awijaya Unive communication and are done intensely. Group monitoring and evaluation has not awijaya awijaya been carried out because NKK was signed at the end of 2017, while these activities will be carried out at the end of 2018. In its long-term plan, KPH plans to develop ecotourism at a budget of IDR 2.4 billion (KPH Wilavah I, 2018). This budget is planned to come from the state Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awiiava budget, provincial budget and non-binding funds. Unive 5.1.3.3. Wish Universitas Brawijaya Before the implementation of planting activities, Dishutbun Langkat organized Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive a one-day training for group functionaries and members. The training aimed to lava awijaya awijaya provide technical knowledge about planting mangroves to the group. Based on the awijaya awijaya statement of an informant, awijaya "At that time, representatives of Mekar who attended the training were four people, namely awijaya Universitas Brawijaya the chairman, the secretary and two members" (R1). awijaya awijaya awijaya Universit Dishutbun Langkat had also conducted coaching to the group. However, the lava awijaya representatives of the group were invited. In the coaching, Dishutbun Langkat gave awijaya awijaya them practical knowledge, such as planting mechanism, plant maintenance and awijaya group cooperation. Dishutbun Langkat only invited group representatives because awijaya awijaya of the number of groups invited and the budget limitation. Even though only a few awijaya awijaya members taken part in the training and the coaching, it was hoped that they could awijaya awijaya pass on the knowledge to the others. awijaya Universit When Dishutbun Langkat monitored and evaluated maintenance activity in java jaya awijaya Unive 2008, the group asked the team to be given a mangrove guarding letter/mandate lava Unive to maintain the rehabilitated area. The group's rationales at that time were threats ways awijaya from illegal conversion and pressure from various parties. Then the group's awijaya awijaya proposal was submitted to the Head of Dishutbun Langkat. Regarding this awijaya awijaya proposal, Dishutbun Langkat responded positively, however the process of letter's awijaya awijaya issuance was very slow. The intended letter was issued 1.5 years later. The Head of Dishutbun Langkat issued a letter No. 522.4-1594/HUTBUN/2010 of 17 June 2010 concerning Protection, Pacification, Surveillance and Maintenance of Unive GNRHL Plant on State Forest Areas. The letter covers two important matters, first, ijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava awijava assignment for Mekar to protect, safeguard, guard and maintain the GNRHL plant independently, and second, assertion that the GNRHL plant and the plants planted Independently by the group are forest areas controlled by the state. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Besides this mandate. Amat Ali conducted independent mangrove planting. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive maintenance and protection during group inactivity. Relating to this, he said, Brawijava awijaya "I routine planted (mangrove) independently because of (my) concern, so that erosion is not prolonged, marine biota still exists and survives" (R1). Even though Amat Ali's efforts were still threatened by rampant illegal logging awijaya Universitas Brawijaya awijaya Unive and encroachment, he did not stop. He kept maintaining his will and effort instead liava awijaya Unive of surrender. However, due to the turmoil of dismantling the embankments by local lava awijaya awijava people in 2009, illegal logging activities stopped. awijava awijaya Dian's inspiration to open ecotourism made Amat Ali enthusiastic to reactivate awijaya the group and started gathering members. He approached local people personally awijaya and persuaded them to join the group to guard and to utilize the well-established awijaya awijaya mangrove. Some members gathered by Amat Ali were different from previous. awijaya awijaya Unive Amat Ali embraced the Subvillage V villagers to become a member. At that time, Java awijava Unive the number of members gathered was 23 people. Universit Support from Yagasu was in line with group's mission in managing mangrove. Unive Mekar was involved in the preparation of village regulations directing mangrove management. Assistances from Yagasu had commenced the group to expand its awijaya vision by accepting these aids and further implemented them either individually or awijaya awijaya collectively. Universitas Brawijaya Universitas Brawijaya Universit By participating in the project, group members acknowledged their right to lava unive conduct mangrove planting and maintenance. Further, practical knowledge awijaya

awijaya

awijava obtained from the training become a new asset for the members so that they planted mangrove based on the contract. For maintenance project in 2008, planting experience in 2006 became additional knowledge for the group in Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive conducting plant maintenance. The mandate letter from Dishutbun Langkat Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya became basis for the group to guard and to maintain the GNRHL plants awijaya awiiava independently. However, this letter did not provide any resource for the group. awijaya Prior to leadership transition, Dian's inspiration and support as well as Amat awiiava awijaya awijaya Ali's vision made the members enthusiastic to reactivate the group. The members awijaya awijaya gathered and discussed the development of the group. Two main attempts agreed awijaya awijaya by the members were a leadership transition and an ecotourism attempt. awijaya awijaya Yagasu's projects regarding local regulations on mangrove were one of means awijaya to express group vision on mangrove management. Further, external assistances awijaya awijaya also strengthened the group in expressing its aspirations and realizing these awijaya awijaya aspirations. awijaya awijaya awijaya awijaya Univers.1.3.5. Confidence awijaya awijava Universitan Lubuk Kertang, Mekar participated in mangrove planting project on an area Java awijaya Unive of 25 ha. Another group that also participated in the project was Kertang II chaired liava awijaya Unive by Sahbudin. Over time, Mekar's area survives from encroachment, while Kertang Universitas Brawijaya Universitas Entranti Unive II's area turned into a palm oil plantation. Mekar's area was relatively safe because java awijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya of plants guard by the group especially Amat Ali. Brawleya awijaya awiiava Dishubun Langkat monitored directly the work done by the groups. This monitoring aimed to ensure that the work carried out by the groups was in accordance with technical instructions and directions. In accordance with the prevailing regulations, after planting activities, the groups were obliged to make a versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava report on planting implementation to Dishutbun Langkat and it further would be held an accountability both administratively and physically in the field. In 2008, the group carried out maintenance activity for 80 ha of rehabilitated Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya mangrove in Lubuk Kertang. The result of this activity was examined by the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Monitoring and Evaluation Team of Dishutbun Langkat and contained in the Official awijaya Record of Work Examination No. 522.4-/HUTBUN-V/2008 of 11 December 2008. In the Official Record, the team concluded that the plant maintenance work was itas Brawijaya carried out properly. awijaya In the same year, Dishutbun Langkat gave assignment to Mekar to protect and awijaya awijaya to maintenance planted mangrove. However, this was not accompanied by any awijaya awijava assistance. As a result, only few members involved where Amat Ali was the most lave active member in conducting mangrove protection and maintenance. The letter did not provide information about the extent of the area, but an informant said, awijaya "The area was 80 ha (R1). Furthermore, he said, awijaya awijava "A part of the 80 ha area was in the converted area and had an embankment, but palm oil Unive plantation did not exist yet. This area was successfully recaptured for planting activities. Unive (R1). Amat Ali acknowledges that he had conducted planting from 2007 to 2014. Amat Ali himself planted and guarded the plants without any help and without the involvement of any members. In conducting independent planting, Amat Ali took awijaya awijaya an initiative to find seeds outside Lubuk Kertang because at that time, the Universitas Brawijaya Universitas Brawijaya mangrove in Lubuk Kertang were disappeared and no tree could be used as a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive source of seeds. Every year, about 20,000 seeds had been planted. The types of java Unive mangrove planted were cronata (long fruit) and apiculata. In planting, Amat Ali java preferred planting seeds rather than seedlings. Amat Ali reasoned that seedlings

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava will be stressed when moved to the area and had a lower survival rate, while seeds will grow faster with survival rate up to 75%. Amat Ali used a 3 meter x 1 meter iversitas Brawijaya Universitas Brawijaya spacing. Each seed planted marked with a stake, so it was safe from fishermen Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive steps. Furthermore, the plants were maintained and cared for, because the planted lava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive seeds might be uprooted or dead, if there were dead or uprooted plants, they will have awijaya awijaya be enriched. Amat Ali did planting independently according to the training he has awijaya Universitas Devijava Universitas Brawijava Universitas Brawijava awijaya participated in. awijaya awijaya In 2013, individuals' vision towards group development had triggered the awijaya awijaya others' vision to make a change in organizational structure and a plan in awijaya Universitas Brawijaya awijaya organizational activities. Collective vision had been realized through a leadership awijaya awijaya transition and an ecotourism attempt. awijaya Collectively, Mekar was involved in the preparation of village regulations awijaya awijaya directing mangrove management. Village regulations concerning mangrove had awijaya awijaya increased group's confidence in managing mangrove. Through these regulations, awijaya awijaya and managing local community acknowledged Mekar's role in protecting awijaya awijaya mangrove. In addition, Yagasu gave the group some assistances conducted either awijaya awijava Unive individually or collectively. Aid directed to a certain member also aimed to develop awijaya Unive group capacity. awijaya awijaya awijaya Unive 5.1.3.6. Empowered Group Brawijaya Universitas Brawijaya awijaya awijaya Universit. In the first period, individual such as Amat Ali had a main and dominant role in awijaya Universitas Brawijaya Universitas Brawijaya awijaya planting and securing mangrove continuously. In this first process, the group was awijaya not fully empowered. The group was only active when there were projects from government. As stated by an informant, Unive "...there was no activity...only planting, (activities were) limited to projects" (R1). The Brawlava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya In 2013, Mekar experienced a leadership transfer. This transition was decided awijaya through a meeting held on 10 June 2013. The meeting was attended by all group awijaya members (23 people) and at the meeting, Abdul Jalil made an Official Record of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Resignation from the Management of Mekar as a form of written statement of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive resignation as the chairman of Mekar. An informant confirmed, awijaya awijaya "Abdul Jalil was old and maybe he was unable to run the group" (R2). awijaya Universitas Brawijaya Universitas Dowijaya Universitas Brawijaya awijaya awijaya The Official Record also explained that it was made to get approval from the Village awijaya awijaya Head of Lubuk Kertang. Abdul Jalil had served as chairman since the formation of awijaya awijaya Unive the group, thus he had served for about 8 years. awijaya awijaya For almost two years (2013 and 2014), Mekar was involved in the preparation awijaya of village regulations concerning Village Land-Use Plan (VLP), Mangrove java awijaya awijaya Protection, Mangrove Protection Area (MPA) and MPA Manager facilitated by awijaya awijava Yagasu. Even though this Yagasu's project targeted Lubuk Kertang, the Village awijaya awijaya Head appointed Mekar as the MPA Manager based on Decree No. awijaya awijaya 141.01/1162/LBK/IX/2014. The group created its second organizational rules⁹ in awijaya awijaya September 2014. However, these rules were not enforced properly because it still awijava A 15 awijaya University adopted a kinship mode in leadership. Universit In September 2014 Mekar constructed an information hall in the site from Java awijaya awijaya Unive Yagasu's fund. This construction employed 12 people within 25 days. In October lava awijaya awijaya 2015, Amat Ali represented Lubuk Kertang to take a comparative study about awijaya mangrove management for economic development facilitated by Yagasu. This awijaya awijaya awijaya appoinment further caused conflict with the chairman. awijaya Brawijaya In the late 2015, the group built a bamboo-made track from Yagasu's fund. In Universitas Brawijaya ⁹ Regarding to the rules, the current chairman said that previously the group has set the Universities. However, none knew their existence, even the previous chairman himself. The Brawijava awijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava the early 2016, the group established other tracks connecting Yagasu-made track and PT Elnusa's track, and also expanded the existing tracks. The latter activity Inive was done by utilizing some enterprise's woods. Sitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universite With the limited existing facilities and resources, the group opened ecotourism awijaya unive for the first time in April 2016 by collecting visitors' donations. The ecotourism awijaya awiiava attempt has been challenged not only internally but also externally. In managing awijaya ecotourism, the group has established working system, financial management and awijaya awijaya awijaya meeting mechanism. The group also has legalized its tenure right and looks for awijaya awijaya aids from outsiders to support ecotourism. awijaya h. awijaya awijaya 5.1.3.6.1. Licensing Process awijaya awijaya Considering the increasingly advanced ecotourism, and this further also made awijaya awijaya the potential of the village more developed, the village government wanted to awijaya awijaya participate in ecotourism. A discussion between the village government, Mekar and awijaya awijaya Bakau Mas¹⁰ resulted in an idea for managing mangrove ecotourism under the awijaya awijaya village authority. The administrative process of Hutan Desa (HD-Village Forest) awijaya awijava ^{ve} began around June 2016. However, the process conducted by the village awijaya Unive government run very slowly. The long process made Mekar skeptical to complete java awijaya Unive the concept of ecotourism. The long duration of the administrative process in the laya awijaya Universitas Brawijava Universitas awijaya Unive village government was due to the very limited village budget.a Universitas Brawijava awijaya awijaya Fortunately, KPH informed the group concerning training on Natural Resources awijaya awijaya and Environmental Management for Community Leaders held in Pematang Siantar from 14 to 23 February 2017. Based on this information, the group assigned the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya ¹⁰ At that time, Mekar became a pilot group in managing mangrove ecotourism. So Mekar ^{Unive} became a source of learning for Bakau Mas. Bakau Mas itself is located in Lubukas Brawijaya Unive Kertang rawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava awijaya awijaya awijava chairman to attend the training. In this training, the chairman obtained information awijaya about social forestry. After completing the training, the result was delivered to the e group. Then the group discussed and formulated licensing towards Kemitraan. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya On 18 April 2017, the proposal of Kemitraan was submitted to KPH. In the awijaya Unive process of preparing the application letter, the group was facilitated by facilitators, inve awijaya awiiava namely Ilham Iskandar Zein and Aramico. KPH strongly supported the group awijaya awiiava proposal in ecotourism and assisted in the administrative process in Dishutsu and awijaya awijaya Kementerian Lingkungan Hidup dan Kehutanan (KLHK-Ministry of Environment awijaya awijaya and Forestry). After receiving the group proposal, KPH conducted administrative awijaya awijaya and field verification. In carrying out field verification, KPH team inspected the awijaya awijaya ecotourism area managed by the group. Then KPH and the group formulated and niversitas Brawijaya awijaya discussed the NKK together. When the agreement regarding the draft of NKK was awijaya awijaya reached, KPH sent the proposal and draft of NKK to KLHK on 28 April 2017. awijaya awijaya Then, the KLHK team verified the proposal by conducting an inspection to the awijaya awijaya ecotourism site. This aimed to ensure the ecotourism carried out by the group. awijaya awijaya Unive Then, the draft of NKK was discussed by KPH, the group and KLHK team and was awijaya awijava Ve agreed on 26 July 2017. Discussion on the draft of NKK related to binding articles awijaya Unive that must be obeyed and agreed by both parties. After signing the NKK, KPH Java awijaya Unive continued the licensing process by submitting Kulin proposal to KLHK. The Decree Java awijaya Universitas Brawijaya Universitas -----awiiaya Unive of Minister of Environment and Forestry on Kulin was issued on 10 April 2018. In Java awijaya awijaya the decree, the number of members is 33 people. as Brawleya awijaya awijaya awijaya 5.1.3.6.2. Rules and Sanctions awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Rules tas Brawijava As discussed earlier, the group was only established to participate in GNRHL versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya

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awiiava awijava projects. At that time the group had organizational rules. However, none knew their existence, even the previous chairman himself. For a year since leadership ^{ve} transition, the group has not had rule yet. It can be said that during this time the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive new functionaries have tried to adapt with group characteristics especially for the awijaya Unive chairman. Prior to rules endorsement, the chairman himself created the rules ava awijaya awiiava adapted from other organizational rules. These rules were not drafted or discussed awiiava with other functionaries or members. Finally, AD and ART were endorsed on 3 awijaya awijaya September 2014 by the Village Head. The group has only AD and ART that awijaya awijaya regulate the organization. There is no other regulation governing the rules of the awijaya awijaya game and sanctions such as group regulation, chairman regulation, chairman awijaya awijaya decree and chairman directive. awijava AD contains principle and purpose; organization structure; mission and function awijaya of organization, and organizational work arrangements; and meetings. Meanwhile awijaya ART contains the election and appointment of functionaries; member's rights and awijaya awijaya obligations; job description of advisors and functionaries; working procedures; awijaya awijaya meetings; financial administration; and sanctions. However, their enforcement is awijaya ^e "applied" after ecotourism and their implementation is carried out in a familial mode awijaya ve and group wisdom. There are still many wisdoms and no sanction enforcement. Universit ART regulates the obligations and the rights of members. Their obligations are liava awijaya Iniversitas Brawijava Universitas Brawijava Unive complying organizational rules, paying dues such as basic fee, mandatory fee and awijaya awijaya voluntary fee, and participating in organizational activities. Meanwhile the rights awijaya awiiava are choosing functionaries and chosen to be functionaries, getting help from group facilities, getting information and counseling, and expressing opinions for group advancement. ^{Universit} In the implementation, members know and understand these obligations and ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava sanctions, but they do not recognize their rights. ART does not regulate the right of receiving wage when conducting daily activities. But an informant said, Ve "Members who actively participate in group activities will earn income" (R1) versities Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya UniverThe same informant furher added, ijava Universitas Brawijaya awijaya awijaya "Rights such as expressing opinions, attending meetings and obtaining information are awijaya unregulated" (R1). awijaya Universitas Brawijaya Universitas Dewijaya Universitas Brawijaya awijaya awijaya Unive Another informant said awijaya Unive "Member rights, I don't understand" (R5) awijaya awijaya Unive Meanwhile another one said, awijaya awijaya The written rules of the group are not existed" (R6). Iniversitas Brawijaya awijaya awijaya awijaya s Brawijaya organization. The Members recognize their obligations in daily life of awijaya awijaya implementation of obligations is as follows: awijaya awijaya Members must participate in daily activities (Figure 7). Each member has been i ava awijaya placed in certain section. In conducting their works, the members are awijaya awijaya considered understand their job description and responsibilities because the awijaya work system has been discussed and approved in the meeting. Members have awijaya certain reasons when not participated in the activities, for example because of awijaya certain personal activities and earning a living outside. awijaya - Members must participate in mutual cooperation (Figure 6). Each mutual awijaya awijaya cooperation has been discussed and agreed in the meeting. So that appointed awijaya niversitas Brawijay personnel must conduct it together. Members have certain reasons when not Universit participated in the mutual cooperation, for example because of certain personal Universit activities and earning a living outside.Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya - Members must pay monthly due. Either active or inactive, members have to pay monthly due. This due has been agreed in the meeting. It aims to increase group capital. But its implementation was only carried out around 2013/2014. rersitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya Universit After its one-year implementation, members agreed to suspend its application awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit related to the economic problems of the members. But the group want to java awijaya awijaya reactivate this due after 2018 Eid. awijaya awijaya Members must comply with group rules and functionary's directives. awijaya Concerning the group finance, the chairman entrusts fully the secretary and awijaya awijaya members on its management including its daily and monthly records. The awijaya awijaya mechanism of group finance is not explicitly written. It is formed in the daily awijaya awijaya activites of group. However, deviations in collecting donations or utilizing awijaya money are still potential. These can be happened by slipping money or marking awijaya up procurement. awijaya The salary difference between members and non-members is also regulated. awijaya The non-members get 60% from the member income. A half-day salary is also awijaya awijaya applied. awijaya Universit Relating to these obligations, an informant said that: Unive "All members have to be responsible and must coordinate with each other because the Unive prospect of ecotourism depends on member's compliance with the rules" (R10). Tas Brawilava awijaya Universitas Brawijaya Universitas Brawijaya awijaya 2) Sanctions awijaya awijaya According to ART, if members violate the obligations, they will be given a reprimand, and/or dismissed based on meeting. Generally, members who do not comply these rules will be reprimanded through a personal approach. If this ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive approach does not succeed, he/she will be dismissed verbally in a daily ave Unive conversation at a coffee shop or ecotourism site or through meetings. Sometimes java Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya social sanctions are also applied to inactive members, for example, mentioning the absence in mutual cooperation. It is hoped that this will create an embarrassing

effect on inactive members, so that they may participate in the next events. Other Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universanction is position deactivation. However, this sanction is not regulated in any lava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive regulation. All these sanctions are decided in group consensus. awijaya awijaya awijaya

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Figure 6. Mutual cooperation in building a hut



Figure 7. Daily activities: (a) Entrance gate; (b) Cleanliness section There is no written standard in imposing sanctions. In organizational daily Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive activities, terms in imposing sanctions develop naturally. Warning is imposed when java Unive members did their works improperly or did not do the works at all. The attitude of lava

the member still obeys and realizes the fault. To overcome the absence of

awijaya

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava members in sections, there must be a replacement by other members. Meanwhile, dismissal is imposed when members did not participate in mutual cooperation between three times and six times or member did not pay due for three months. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Position deactivation is imposed when members misuse group's money. It as Brawlaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit However, the dismissal sanction is not applied yet because the functionaries lava awijaya awijaya still regard kinship approach. According to sanction imposition, members' reactions awijaya awijaya are varied. Some members accept the sanction, meanwhile the others ignore it. awijaya awijaya Member who accepted the sanction did not protest because they realized their awijaya awijaya fault. Although members disobey the rules, they can still be directed. awijaya awijaya The group is planning to establish the new arrangement of rules and sanctions. awijaya awijaya This arrangement will be discussed in meeting. It is expected that this can be hiversitas Brawijaya awijaya conducted after management transition. In the future, the group will plan to impose awijaya awijaya sanctions on inactive members. The imposition of sanctions must be carried out awijaya awijaya and emphasized so that members do not repeat it and each member really does awijaya awijaya his job and is always responsible so that no member will undermine his duties. awijaya awijaya awijaya awijava Unive 5.1.3.6.3. Membership awijaya Universit According to ART, a person that can be a member of group is the villager of lave awijaya Universitas Brawijaya Unive Lubuk Kertang, but priority is given to the villagers of Subvillage V because Java awijaya Universitas Brawijava Universitas Brawijava Unive mangrove exists in Subvillage V. However, only a few villagers of Subvillage V java awijaya awijaya concern about the mangrove, so there is recruitment from other subvillages. In the awijaya awijaya initial recruitment, the members who joined the group had awareness to improve the forest. At that time, ban was imposed on non-Lubuk Kertang villagers. An informant said, ^{Unive} "It is pure from my consciousness. Because I earn a living from this forest" (R5). The Brawliave Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava At present there are three members from outside the Subvillage V, they are recruited by the chairman. This recruitment was requested by the chairman during ^{ve} the member meeting. The recruitment process is not regulated, but requirements ^{lave} Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya In the for becoming a member only submit a copy of KTP and have willingness to work Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive together. The majority of members still have kinship. This is understandable awijaya awiiava because they want to stay in the group. Member registration is very open. The awijaya awijaya fluctuation of membership occurs because of member inactivity. However, the awijaya awijaya group has no member database and management. The process of dismissal is awijaya awijaya done verbally, meanwhile by giving KTP a villager can become a member. awijaya awijaya The group has issued some verbal policies relating membership. First, for awijaya awijaya members who migrate or are not active can still be acceptable after hearing their lave iversitas Brawijaya awijaya confessions. During their inactivity, the members are still called a member. awijaya awijaya Second, the number is limited to 40 people, the reason for this is that from the awijaya awijaya existing members there are still inactive members, so the group does not open the awijaya awijaya recruitment. Each member is equipped with a badge name. According to ART, the awijaya awijaya number of members has been decided as many as 30 people. But this number can awijaya awijava be added after being agreed by the group. awijaya Universit In judging his members, the chairman said that the strength of this group is jaya awijaya Universitas Brawijaya Universembers' awareness. As many as 80% of the members are very aware of lave awijaya Universitas Brawijaya Universitas Brawijaya Unive protecting the forest because they have a dark history related to the mangrove lave awijaya awijaya unive conversions. The members are also increasingly aware that the forest provides a awijaya awijaya living. Even so, the members are less motivated in managing mangrove. To increase their motivation, the chairman often persuades and motivates members related to mangrove management. Relating to motivation, members are still ^{we} money-oriented, members think that every act must have money. Similar to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava motivation, members' capacity is also low. Many members do not understand administrative and financial affairs, and technical knowledge about mangrove. Some members are still young and they are rarely involved in meetings. Some Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya efforts conducted by the chairman and the vice chairman are giving Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive comprehension regarding this knowledge. Even though members have limited awijaya awijaya knowledge, they have high creativity and enough adaptation in daily activities. awijaya Universitas Bra awijaya In general, the activity of members is quite good. It can be said that members awijaya awijaya are very active during weekends or many visits, but are less active when weekdays awijaya awijaya or less visits. Some inactive members usually make a living outside. There are awijaya awijaya even members who only come during Eid. IN AL awijaya awijaya awijaya 5.1.3.6.4. Working System awijaya awijaya 1) Working System awijaya awijaya After forming a new management with a different member composition than awijaya awijaya before, the fishermen who are members of the group supervised the mangrove awijaya awijaya area. Supervision was carried out when these fishermen go to the sea to catch fish awijaya awijaya Unive and when returning home after catching fish (travel from home to the sea through University) awijaya Unive the mangrove area and vice versa). However, safekeeping cannot be done at any jaya Unive time. At that time there were still illegal logging carried out by people outside Lubuk lava awijaya University Unive Kertang. These illegal loggers operated in groups at night and morning and armed lava awijaya awijaya with machetes and axes. The illegal loggers were thought to have charcoal factory. awijaya awijaya Although they have been forbidden by group members, they still continued to carry out logging furtively and often gave resistance. Regarding illegal logging, an informant said, Unive "We cannot blame them, because that (charcoal) was their income" (R3). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava As group are active, illegal logging is no longer happening. An informant stated, "The last case of illegal logging in Mekar occurred in 2015" (R3). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit In September 2014 Yagasu gave the group some money to build an information hall in Mekar area. This construction employed 12 members within 25 days. awijaya awijaya Further, this hall was used to conduct group meetings. In the late 2015, Yagasu awiiava awijaya gave the group a number of fund through Amat Ali and Armansyah (Head of awiiava awijaya Subvillage V) to make bamboo-made track. In the early 2016, PT. Elnusa gave awijaya wood to the group to support group activities in tracking. Although the track was awijaya awijaya unive made from leftover and rough wood, the construction run smoothly. At that time, Java awijaya awijaya the activities carried out by the group were not assisted by anyone. All expenses awijaya for eating, drinking and cigarette come from themselves. Construction of tracking java awijaya awijaya facilities was estimated about three months. During the first one and a half months awijaya awijaya the active members were eight people, but the next one and a half months, awijaya awijaya because they received support from the local community, the other members awijaya awijaya become active. The group opened ecotourism for the first time in April 2016 by awijaya awijaya collecting visitors' donations. Mangrove was becoming more widely known for the awijava awijaya Unive villagers' curiosity regarding group activities and Pertamina employee posts java Unive through online social media when seismic activities. At that time, the group set lava awijaya donation for entry rate of IDR 2,000 and provided a carton box for visitors' Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya donations and asked them to donate voluntarily. The value of donations was awijaya awijaya determined through group meetings. awijaya The increase of the number of visitors and donations' collection by group awijaya awijaya members attracted village apparatus. Then LPM involved in ecotourism through ticketing. It set and provided the ticket, meanwhile the group bought it from LPM. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya LPM wrote down entrance rate of IDR 2,000 and each ticket was stamped by LPM Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya stamp. In this ticketing, LPM cooperated with the village government. The group continued collecting donations with LPM-made tickets. A journalist protested this ticketing practice and asked group permit to collect ticket. However, the group Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive presented its arguments and the village government supported the group. Further, java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive the group continued to collect donations voluntarily.s Brawijava Universitas Brawijava awijaya awijaya This ticketing raised anxiety among members. Then the chairman consulted awijaya awijaya with a Dishutsu senior officer and asked about donation collection in the mangrove awijaya awijaya area managed by the group. This officer suggested LPM to stop this practice and awijaya awijaya if the group used the term of donation, it could be continued because it was awijaya awijaya voluntary and non-binding. This ticketing practice was only run for three months. awijaya awijaya After being stopped, the group continued to collect donations. The group applied awijaya the words of environmental donation in collecting levy. awijaya awijaya . The group still uses the term donation without having to "mention" the entry awijaya awijaya

rate. In collecting, group members persuade visitors to give donation of IDR 2,000.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Figure 8. (a) Ticket making; (b) Ticket design The increase of the number of visitors and donations made members more unverse excited and came up with the idea of arranging collection mechanism. The Universitas Brawijava Universitas Brawijava Universitas Brawijava

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awijaya awijaya awijava collection arrangement was done by applying a "ticket". Ticketing is done manually by members (Figure 8). In the ticket, the entry rate is not written. The group only writes date, Mekar, and the sign of the entrance gate coordinator. Along with the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya development of ecotourism, group creativity raised new ideas such as cottages, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive parking arrangement, toilets, clean water facilities, stalls and tour boats. These lava awijaya awiiava ideas were discussed in group meetings and some of these were realized based awiiava on member agreement. awijaya To support the group in maintaining mangroves and improving ecotourism awijaya awijaya several outsiders have participated in providing assistances. These assistances awijaya awijaya include funding, physical buildings, planting activities, group capacity building and awijaya awijaya comparative studies. These outsiders are Pertamina, Yagasu, Dushutbun Langkat awiiava and the village government. awijaya Based on group agreement, the group's routine activities are mutual awijaya awijaya cooperation held once a week. Because the mutual cooperation is voluntary, not awijaya awijaya all members participate. Members who cannot participate are due to outside awijaya awijaya activities, such as earning a living. In general, the number of members participating awijaya Unive in mutual cooperation is at least ten people, but when the activities are quite many, Uava awijaya University around 70% – 75% of the members participate in weekly mutual cooperation. This lave Unive is related to the group's daily activities. The activities carried out are road cleaning. awijaya Universitas Brawijava Universitas Stating Unive tree branch cutting, and making and repairing facilities such as tracks and huts. awijaya awijaya Mutual cooperation is not carried out on a certain day, but sometimes considering awijaya awiiava the condition of facilities and infrastructures and the need to add facilities. If needed, mutual cooperation can be carried out to add or improve facilities and infrastructure. In this case, the activities will be discussed in group meeting and activities can run if the materials and equipment are available or purchased. An versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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awijaya awiiava awijava informant said, "The improvement of facilities depends on available funds" (R1). versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit For daily activities, the average number of active members on weekdays is 7 -Univer12 people, while on Sundays or holidays, the number of members involved reaches java awijaya around 30 people or more. This huge variation is caused by the number of visitors. awiiava On weekdays the number of visitors is few, so the income is little or even minus. When this happens, some members look for work. For certain cases such as fasting, there are very few visitors and no income. For certain periods, sometimes awiiava awijaya Unive members just sit around because there is no visitor and mutual cooperation. Brawlava awijaya awijaya In leading the group, the chairman and the vice chairman share tasks and roles. awijaya The chairman has a greater role in external affairs, while the vice chairman in live awijaya internal affairs. According to the chairman, awijaya "This is an agreement between them" (R15). awijaya awijaya However, in carrying out daily tasks the chairman sometimes handles internal awijaya awijaya affairs as well. Related to this external function, the chairman builds the image of awijaya Unive mangrove ecotourism through relationships with other organizations and by social lava Unive media. In addition, this function also aims to find support or assistance. In doing lava Unive his external affairs, commonly the chairman does it by himself. However, the chairman always persuades other functionaries or members to accompany him on awijaya awijaya external affairs. Other administrators or members rarely want to take part in the awijaya awijaya affairs because of not being able to leave internal affairs (vice chairman) or cost efficiency. For affairs conducted around the village, the chairman always attends it with others. But when the chairman gets an invitation to attend an event or Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya comparative study out of town, the chairman goes alone. When the chairman Unive carries out his duties externally, he always announces it to the group and the group inve

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava facilitates his traveling expenses. Demand for traveling expenses was started to be applied when ecotourism has been running for a year. Whereas previously the chairman always used personal money. All traveling expense requests are Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive recorded by secretary. Upon returning from an external assignment, the chairman Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive informs the group about the results of the external duties. awijaya awiiava The vice chairman has more role in overseeing member's activities, hearing awijaya awijaya member's complaints and checking infrastructure condition. In addition, sometimes awijaya he conducts seed collecting, planting or plant maintenance (Figure 9).

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Figure 9. The vice chairman is collecting mangrove seeds

The secretary plays roles in presenting the meeting plan to members and preparing daily financial administration. Besides these duties, the secretary is supposed to assist the works at entrance gate, but because the secretary supervises internal work such as at toilet, she has more role in internal affairs. The treasurer along with the secretary has the role of preparing financial bookkeeping. At the monthly meeting, he presents financial administration. In addition, the treasurer also helps the works at entrance gate replacing the secretary role. awijaya

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Universitas Brawijava Figure 10. Some ecotourism facilities: Track and hut ersitas Brawijava awijaya

Universit To support ecotourism businesses and carry out daily activities, the group lava awijaya awijaya forms work teams in the form of sections. These sections consist of entrance gate, awijaya awijaya parking, hut and stall levies, cleanliness, helmet storage, boat tours and sea lane awijaya awijaya entrance, and toilets (Figure 10). In determining the sections, the group adopts the awijaya concept of tourism. Determination of sections, assignment of personnel and awijaya awijaya description of duties and responsibilities of members and coordinators are awijaya awijaya Unive discussed in group meetings. However, these appointments have not been stated awijaya unive in written form such as decree, but only group agreements. The mechanism for determining personnel is one's initiative, appointed by the coordinator and determined through deliberation. For the coordinator of each sections, the functionaries appoint directly and asks for their willingness, if they are willing, they awijaya awijaya will be appointed. In carrying out sections' tasks, although the coordinators are not awijaya ^{ve} present, there must be members' presence.^{Iversitas} Brawijaya Universitas Brawijaya awijaya ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya For certain conditions, the group can ask non-member villagers to be involved Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University in ecotourism. This is commonly happened during holidays where visitors are Unive crowded. Usually they already know when they are needed, so that when needed, java they just inform the functionaries and then the functionaries will decide their

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positions. Except for cleanliness section, groups set tariff for each section. This tariff is determined based on group agreement in the meeting. Universitas Brawijaya Universitas Brawijaya



Figure 11. Visitor entry by sea

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Since 2018 Eid, entrance donation and boat tour levy have been adjusted. According to the chairman, this adjustment was due to greater responsibility, Unive increased assets, longer track, more huts, more diverse photo spot and better lava Unive facilities. Entrance donation is IDR 3,000/person, while boat tour levies are IDR java 10,000/adult and IDR 6,000/children (see Table 2). Before 2018 Eid, boat travel levy was only for adults. Because the boat does not belong to the group, the distribution of levy is IDR 6,000 for boat owners, IDR 2,000 for groups, IDR 2,000 for officers (group members). Boat tours have been implemented since mid-2016 If visitors take a tour boat in group, they sometimes ask for discounts. The discount is free of charge for one person. Boat ride is about 25 minutes going along the Universitas Brawijaya Universitas Brawijaya creek. Parking fee is paid in conjunction with the donation in the entrance gate, this Unive is done to simplify the collection, so it does not bother visitors by paying twice. The java University of hut usage does not depend on usage time, it means the rate is fixed no lava matter how long the usage. The stall levy applies not only to vendors who used the

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awijaya	hut but also to mo	bile vendors. Sometim	es visitors do not enter	ecotourism through
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awijaya	Unive Table 2. Tariff for I	Each Section (in IDR)	rawijaya	 Universitas Brawijaya
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awijaya	Unit 4. Boat tour	8,000/person	10,000/adult	hiversitas Brawijaya
awijaya	Univ		6,000/child	niversitas Brawijaya
awijaya	Univ 5. Toilet		00/usage	Iniversitas Brawijaya
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Regarding the entry rate, the group applies a different treatment between awijaya visitors from Lubuk Kertang and outside Lubuk Kertang. The latter is obliged to pay Universitas Brawijava the donation, while Lubuk Kertang villagers is voluntary. For official or personal Universitas Brawijaya awijaya univervisits by governmental officials and the purpose of education (students and Unive researchers), the group does not collect entrance donation and parking fee.s Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Univer2)taWorking Time Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Since February 2018, the group has arranged the working hours of the members. Prior to this, working hours has not been regulated, it means anyone can come anytime. The deadline for working hours is 10 am, whereas if there is a Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava priority activity, it is set at 9 am. Meanwhile, working hour ends at 6 pm. If a member comes at 1 pm and above, then it is considered as a half-day work and the wage is 50%. When coming to work, each member must fill in the list of attendees on the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive entrance gate. The application of this working time was driven by protests launched Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive by several members. In the case of internal activities, the vice chairman always lava awijaya awiiava coordinates with the chairman if there are members who deceive the work. awijaya Universitas Brawijaya Universitas Powijaya Universitas Brawijaya awijaya awijaya awijaya 5.1.3.6.5. Financial Management awijaya awijaya 1) Cash Flow awijaya awijaya The money collected in each section flows to the secretary, this flow is clearly awijaya awijaya recorded, both in each section and in the secretary (Figure 12). This flow has been awijaya agreed upon group agreement. Another informant said, awijaya awijaya "The money is collected at the treasurer (R4). awijaya awijaya awijaya Note that the daily income of each section will be signed by the secretary to ensure awijaya awijaya that the numbers do not change. So if questioned by members, the number is awijaya awijaya same. Then the total of daily income will be reduced by treasury cash, operational awijava Unive costs (eating, drinking, and cigarette) and members' salaries. In addition to these java awijaya Unive costs, an informant adds another component of costs such as functionaries lava awijaya Unive traveling expenses, guest visits (local government, forestry) and endowment to the lave Universitas Brawijava Universitas Brawijaya Universitas Brawijaya awijaya village (IDR 300,000 per month) (R3). Operational costs are inversely proportional awijaya to the salaries, meaning that the more cost incurred for activities, the smaller awijaya awijaya members' salaries. There is no standard for operational costs that are allowed to be used, treasury cash and salaries, and proportions for these allocations. However, according to the previous chairman's statement, the priority order of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive income deduction is operational costs, treasury cash and salaries. Another version Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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said that the total income collected at the secretary is reduced by 20% of treasury cash and the 80% of wages (R2, R5 and R6). Regarding operational cost, an informant said, "It uses personal money" (R5). But the treasurer said, "The operational costs are taken from daily total income" (R10).

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But the treasurer said, "The operational costs are taken from daily total income" (R10).

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Figure 12. Money counting at entrance gate

Universitas Brawijaya

awijaya Regarding to operational needs, the group determines them in one stall. Another awijaya Universion said that the first deduction of income is the salary, then the remainder lava awijava awijaya Unive becomes treasury cash (R4). While the treasurer said that the order of income java Unive deduction is operational costs, salaries and treasury cash (R10). Regarding cash lava awijaya awijaya flow and its usage, the chairman fully entrusts the secretary and members. He only awijaya awijaya receives information on accumulation cash in the secretary and complaints from awijaya awijaya members who object to the distribution and usage. Although the chairperson entrusts the secretary and members, many members also question whether the chairman knows about the daily income and its allocation. Universitas Brawijaya Universitas Brawijaya Universit To anticipate members who question income and salary, the group has available Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava



Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava installed a notice board containing the information. Detailed records of cash flow are also listed in the group cash book and this book can be accessed by all niversitas Brawijaya members. However, some members are still questioning and suspecting. In Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive addition, members can also question this in group meetings. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 2), Payroll System niversitas Brawilava, Universitas Brawilava awijaya awijaya Payroll system is applied daily. The amount of salary a member receives awijaya awijaya depends on the number of visitors and the number of members who works. The awijaya awijaya daily system is applied at the request of members for economic reasons. According awijaya versītas Brawijaya awijaya to an informant, awijaya "Members are paid off IDR 20,000 - IDR 30,000 when weekdays, while on Sundays or awijaya holidays it can reach IDR 75,000 - IDR 100,000" (R1). awijaya awijaya awijaya Regarding this salary, there was no difference between functionaries and awijaya awijaya members. In certain conditions, members are not paid when visitors are few. awijaya awijaya During holidays or crowded visitors, there is usually non-member involvement in awijaya awijaya Unive ecotourism. For them their income is 60% of the members. The interesting thing lava awijaya Unive about payroll is the provision of salaries for Efendi¹¹ who serves as the entrance i ava awijaya awijaya iava Unive gate coordinator. At certain times, Efendi obtains a salary, while other members Unive (who also works) do not get a salary (the group's daily record proves this). awijaya awijaya Unive Regarding this, he argued, as Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya "I am indeed fully responsible in work related to working hours and responsibilities" (R2). awijaya awijaya The analogy of salary calculation is as follows: "Sitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Unive On a certain day the money collected is IDR 1 million, while the number of member University who work are 10 people and the expenditure is IDR 500,000, then the remaining Universitas Brawijaya Unive¹¹ Efendi is the section coordinator of entrance gate. sitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava is IDR 500,000. Of the remainder, for example the vice-chairman makes a decision 20% goes into treasury (this determination based on agreement, not by rule), which is IDR 100,000. The remaining IDR 400,000 then is divided by 10, making it IDR Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 40,000 per person. If there is a member who worked for half a day, the wage will awijaya unive be IDR 20,000, the remaining IDR 20,000 will go to treasury. The determination of awijaya 20% depends on the situation and are not regulated. It could be 10%. This is to avoid member objections. awijaya awijaya 3) Treasury Cash awijaya awijaya Cash management is the treasurer's responsibility. Treasury cash is generally awijaya niversitas Brawijaya awijaya used to finance priority activities, especially those related to ecotourism facilities. awijaya A different version is made by the vice chairman. He said, awijaya "The income collected at the secretary is used to repair or build facilities. This activity is conducted almost every day so that it must be available to finance these activities. awijaya However, there is a notification to the treasurer regarding the cash usage. If there is a surplus in cash balance at secretary, then the money goes to the treasurer" (R1). Unive Regarding cash flow, an informant said, awijaya awijava "I do not know the usage (of treasury cash) because I am not a functionary" (R6). 4) Income and Expense In a year, the group can earn IDR 288,536,000 consisting of IDR 220,296,000 awijaya (76.3%) of entry donation, IDR 41,339,000 (14.3%) of hut levy, IDR 14,507,000 awijaya awijaya (5.0%) of boat levy, IDR 6,590,000 (2.3%) of toilet fee, IDR 5,544,000 (1.9%) of awijaya ersitas Brawijava unive stall levy, and IDR 260,000 (0.1%) of other incomes. Meanwhile expenses are IDR Unive 276,703,000 consisting of IDR 162,296,000 of wages, IDR 44,285,000 of food and java drink, IDR 32,346,000 of other expenses, IDR 31,619,000 of materials and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya equipment, and IDR 6,157,000 of cigarettes. Therefore, the revenue is IDR

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awijaya	Universitas i	Brawijaya Univers	sitas Brawijaya	univer	sitas Brawija	aya u	niversitas	вrawijay	а
awijaya	Universitas I	Brawijaya Univers	sitas Brawijaya	Univer	sitas Brawija	aya U	Iniversitas	Brawijay	а
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awijaya	Universitas I		sitas Brawijaya		· · · · · · · · · · · · · · · · · · ·		Iniversitas		а
awijaya	Universit 83	3,000 (Table 3). In	a month the a	roup pro	fit can reach	almo	st IDR 1 m	Brawijay	а
awijaya	Universitas I	Brawijaya Univers	sitas Brawijaya	Univer	sitas Brawija	aya U	Iniversitas	Brawijay	а
awijaya	Unive Mean	while weekly profit i	is IDR 227,558	and dai	ly profit is ID	R 32,4	19. 19.	Brawijay	
awijaya	Universitas I	Brawijaya Univers	sitas Brawijaya	Univer	sitas Brawija	aya U	Iniversitas	Brawijay	
awijaya	Universitas I		sitas Brawijaya			1.5	Iniversitas		
awijaya	Universitas I		sitas Brawijaya			- C.	Iniversitas		
awijaya	UniverTable 3	Income and Expen		· /	2	1	Iniversitas		
awijaya	UniversNo.s	Descriptions nivers	sitas Brawij in co	omeniver	s Expense i ja	iy‰ L	niversitas		
awijaya	Universitas	Stall levy University	sitas Brawij <u>5</u> ,5	44,000	sitas Brawija	¹ /1.9	niversitas	Brawijay	а
awijaya	Universitas I	Entry donation	sitas Bra 220,29	96,000	sitas Brawija	76.3	niversitas	Brawijay	а
awijaya	Universitas	Hut levy	41,3	39,000	sitas Brawija	14.3	niversitas		
awijaya	Universitas	Toilet fee		90,000	sitas Brawija	2.3	niversitas		
awijaya	Universitas	Boat levy		07,000	sitas Brawija	5.0	niversitas		
awijaya	Universitias			100 million (100 million)	sitas Brawija	J	niversitas		
awijaya	Universites	Other income		60,000	S Brawija	y 0.1			
awijaya	Universitas	Material and equipr	nent		31,619,000	-	niversitas		
awijaya	Universites	Food and drink	Nº DI	YA.	44,285,000	16.0	niversitas		
awijaya awijaya	University Univer	Cigarette			6,157,000	2.2	niversitas		
awijaya	Unive 10	Wage	AL	it i	162,296,000	58.7	niversitas niversitas		
awijaya	Uni 11	Other expense	Charles and		32,346,000	11.7	hiversitas		
awijaya	Uni	Sum	288.53	36,000	276,703,000		niversitas		
awijaya	Uni		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Alle -		11	niversitas		
awijaya	Unit				1	- 11	niversitas		
and a land	Th	a group corpo mov	imum income i	n luna 2		752.0	00) moon	while	1.1

The group earns maximum income in June 2018 (IDR 61,752,000), meanwhile the lowest is in October 2017 (IDR 10,874,000) (Table 4). Maximum income is parallel with Eid and this further caused by many public day offs in June 2018. The group spends maximum expense in January 2018 (IDR 48,316,000), meanwhile Unive the lowest is in November 2017 (IDR 10,089,500). January 2018 gives maximum java Unive expense because the group organizes live music to entertain visitors. Live music Unive is organized few times and many members are involved in daily activities in this lava month. As many as five months the group has positive balance, meanwhile the group sustains negative balance in the rest months. The group receives the biggest net income in June 2018 (IDR 18,677,000), meanwhile in October 2017 the group receives the biggest net expense (IDR -5,326,500). Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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	Brawijaya	Universitas B		ersitas Bra
SITAS	Brawliava	ncome and Expe	awijava Univ	ersitas Bra
No.	Month	Income	Expense	Balance
sitas	Jul-17	23,985,000	25,466,000	-1,481,000
sit2s	Aug-17	13,800,000	16,563,500	-2,763,500
isit3is	Sep-17	25,554,000	18,575,500	er 6,978,500
rsit 4 1s	Oct-17ya	10,874,000	16,200,500	-5,326,500
rsitas	Nov-17	11,214,000	10,089,500	1,124,50
sitas 6	Dec-17	16,947,000	19,321,000	-2,374,000
'sitas	Jan-18	49,278,000	48,316,000	962,000
8	Feb-18	23,020,000	22,924,000	96,000
9	Mar-18	20,147,000	23,967,000	-3,820,000
si10s	Apr-18	18,740,000	18,916,000	-176,00
sitas	May-18	13,225,000	13,289,000	-64,000
si12s	Jun-18	61,752,000	43,075,000	18,677,000
rsitas	Sum	288,536,000	276,703,000	11,833,000

Table 5. Accumulative Daily Income and Expense (in IDR)No.DayIncomeExpenseBalance1Monday33,842,00031,807,0002,035,000

nit	1	Monday	33,842,000	31,807,000	2,035,000
niv	2	Tuesday	23,937,000	33,766,000	-9,829,000
niv	3	Wednesday	21,169,000	25,305,000	-4,136,000
nive	4	Thursday	20,684,000	30,531,000	-9,847,000
nive	5	Friday	27,179,000	25,048,000	2,131,000
nive	6	Saturday	30,456,000	27,491,000	2,965,000
nive	si 7	Sunday	131,269,000	102,755,000	28,514,000
nive	sita	Sum	288,536,000	276,703,000	11,833,000
nve	SILday				

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In daily basis, Sundays contribute the largest income (IDR 131,269,000) and

expense (IDR 102,755,000), meanwhile Thursdays contribute the lowest income (IDR 20,684,000) and Fridays contribute the lowest expense (IDR 25,048,000) (Table 5). Even though Sundays contribute the largest income and expense, they also contribute the highest earnings (IDR 28,514,000), meanwhile Thursdays contribute the lowest balance (IDR -9,847,000). From this figures, it can be concluded that visitors conduct many visits in day offs i.e. Sundays, and this parallel with group activities which are commonly conducted. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Unive 5.1.3.6.6. Meetings awijaya Mekar was established aiming to take part in the GNRHL project in 2006. Group ^{ve} activities were only for planting and plant maintenance relating to projects, and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya universe held any group meeting. But after the transition of the functionaries, the awijaya group have conducted many meetings. The process of the transition of awijaya awiiava functionaries itself was done through a meeting. awijaya Universitas Brawijaya Universitas Dowijaya Universitas Brawijaya awiiava awijaya 1) Kinds of Meeting awijaya awijaya awijaya Based on AD, there are four types of meeting, namely monthly meetings, awijaya awijaya annual meetings, accountability meetings and extraordinary meetings. Whereas awijaya awijaya ART mentions that there are five types of meetings, namely meetings covered in Java iversitas Brawijaya awijaya AD and quarterly meetings. In their implementations, meetings that have been held awijaya awijaya are quarterly meetings in 2017 and monthly or bimonthly meetings in 2018. awijaya awijaya Extraordinary meetings are held if there are important and urgent matters awijaya awijaya regarding proposals from members, for example an infrastructure damage. This awijaya awijaya damage must be anticipated quickly so that visitors are not wretched when using awijaya awijava Unive it. Important thing like this must be discussed first in the meeting so that the result awijaya Unive is satisfying and no one is blaming each other. The last monthly meeting held by Java awijaya Unive the group was before fasting. While the next monthly meeting has not been held inve EISING awijava Unive because of Eid. awijaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava 2) Meeting Invitations Brawijaya Universitas Brawijaya The functionaries communicate a meeting invitation to the members through verbal notification. They also inform the topic of meeting to be discussed. The notification is intended to direct members so that the discussion will not widen. awijaya Ilniversitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 3) Meeting Locations Brawijaya Universitas Brawijaya The meeting location depends on the member's agreement and always moves. The locations that have been used for meetings were Amat Ali's house, Efendi's Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive house, ecotourism site and Rasmianto's house.sitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive 4) Attended Members rsitas Brawijava Universitas Brawijava awijaya Universitas Brawijaya awijaya In general, the number of members attended the meeting was between 20 awijaya awijaya people and 30 people. Members cannot attend meetings due to wander and certain awijaya awijaya ^{ve} activities. Members who also rarely attend meetings are youth members. awijaya awijaya awijaya awijaya 5) Meeting Topics awijaya Generally, issues that are often discussed by the group include financial awijaya awijaya administration, ecotourism infrastructure, task division and membership issues. To awijaya awijaya absorb the aspirations and opinions of members, in addition to meeting, the awijaya awijaya chairman also does it through conversations in the coffee shop. Some issues that awijaya awijaya have been discussed by the group are as follows: awijaya awijaya Universit Income and expenses and finance (treasury cash) awijaya Universite Physical work related to construction and renovation, especially tracks and huts laya awijaya awijaya awijaya Universit (ecotourism development) awijaya Universita Directives of functionaries regarding mangrove sustainability Universitas Brawijava awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit, Division of tasks, appointment of members and rules of the game ersites Brawijava awijaya awijaya Application of sanctions regarding the obligation to pay contributions Universita awijaya Universitas Brawijaya Universitas Brawijaya awijaya - Entrance donation tas Brawijaya Universitas Brawijaya Pertamina's CSR plan Determination of mutual cooperation related to day, works and members Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya - Membership issues such as complaints from section coordinators and how to overcome them versita Salary allocation iversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University Sometimes, functionaries also give warnings to inactive members Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya ve 6) Meeting Mechanism sitas Brawijava Universitas Brawijava awijaya awijaya The implementations of meeting have adopted the concept of general awijaya awijaya meetings, where in each meeting there are a meeting chairman, a meeting minutes awijaya awiiava and an attendance list. awijaya awijaya Meetings are held openly. Each member has the same opportunity to voice awijaya awijaya opinions, objections and proposals. The meeting has a certain agenda that has iversitas Brawijaya awijaya been set before, however the discussion can be widened and out of context. On awijaya awijaya several occasions, members always ask for income and expenditure. The meeting awijaya awijaya provides a discussion session and invites the meeting participants to debate. awijaya awijaya However, the majority of members have less experience and knowledge about awijaya awijaya mangroves so they are passive. Some passive members express their opinions or awijaya eprotests via other members or express them outside the meeting. When the awijaya Unive functionaries want to transfer information, the member usually does not jaya awijaya understand. Even though members have less knowledge and only follow the Universitas Brawijava Universitas Brawijava Unive functionaries' instructions, they have also given a number of proposals, such as java awijaya awijaya making swimming pools, prayer rooms, cottages and permanent tracks. The awijaya awijaya coordinators of each section are also welcomed to submit complaints in their sections, especially those relating to the condition of physical buildings that have begun to decay. In attaining a consensus, the forum always takes one of the best opinions/suggestions from the many opinions. Members whose proposals cannot ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava be fulfilled understand that the group has limited resources. Sometimes, inactive members do not understand about this and feel disappointed, because they never Universitas Brawijaya Universit On several occasions, the functionaries emphasize the importance of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive mangroves and persuade members to always conserve mangroves. The available awijaya awijaya functionaries also motivate members to make ecotourism better in the future. awijaya Universitas Brawijava Universitas Powijava Universitas Brawijava awijaya awijaya 7) Meeting Follow-ups awijaya awijaya awijaya Universit When consensus is attained, its follow-up requires a soft approach. Thus, the awijaya awijaya management's wisdom is needed in responding to it. If the meeting produces a awijaya awijaya physical work plan, there is a grace period for preparation, including the awijaya determination of personnel and the provision of materials. Not every work plan is awijaya awijaya carried out by members, because the character of most of the members are not awijaya awijaya work-bound. An informant stated, awijaya awijaya "Even though the meeting results in a decision, there is no realization" (R6). awijaya awijaya awijaya Unive 5.1.3.6.7. External Relations awijaya Ab awijaya Univer1) Other Groups Universit The relation between Mekar and Lestari Mangrove is not harmonious. The laya awijaya Unive reason for this disharmony is Lestari Mangrove's jealousy towards Mekar. Lestari java awijaya Mangrove is jealous for four reason. First, many stakeholders assist Mekar in term awijaya of infrastructure building and capacity building. These stakeholders are Pertamina, awijaya awijaya Yagasu, Dishutbun Langkat, KPH and the village government. Pertamina itself has a 5-year empowerment program to Mekar, meanwhile Pertamina has no ersitas Brawila diava Universitas Brawijava assistance to Lestari Mangrove. Relating to these assistances, the chairman of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Mekar said jaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava "External parties see the independence of group before providing assistance. Mekar itself is a good example in developing its potential. According to him, other groups were unable Unive to foster independence" (R15):s Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Second, Mekar is an active group. It has daily activities and its members have active participation. Local community sees this as a positive effort to empower awijaya awijaya community. Third, Mekar has generate income from ecotourism. Its income almost awijaya awijaya continues in daily basis. This income attracts its members to participate in group awijaya awijaya tas Brawijaya activities. Relating to income, an informant said, awijaya Unive "... jealousy must be existed because ecotourism business generates income" (R3). Brawlava awijaya awijaya Unive Fourth, Mekar become famous because of its ecotourism. Many visitors admire awijaya awijaya Mekar because it can manage ecotourism very well. Its reputation has also lifted awijaya awijaya Lubuk Kertang so Lubuk Kertang is widely known not only in Indonesia but also awijaya awijaya overseas. The village head said, awijaya awijaya "This disharmony relation makes conflict between them. However, this conflict can still be controlled" (R14). awijaya awijaya awijaya However, in general, Mekar relationships with others has no problem. Mekar awijaya awijaya has given opportunity to local villagers (both members and non-members) to be involved in ecotourism, for example by giving the opportunity to local community to become vendor in ecotourism or to other groups to promote and market their awijaya featured products. awijaya awijaya However, some members have an opposite opinion. They said both groups awijaya Universitas Brawijaya awijaya have good relationship. In some cases, there is cooperation in guarding forest, awijaya Unive both invite each other if there is an event. An informant said, ya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya "There was no social gap and envy between both" (R5). Brawleve Universitas Rrawijava Universitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive 2) Village Government sitas Brawijaya Universitas Brawijaya sitas Brawijaya Universitas Brawijaya Mekar has a good relationship with the village government. It supports ecotourism in the forms of village head frequent visits, intense communication and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive coordination, assistance in the form of dock from village funds. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit A different opinion is conveyed by the chairman. He often heard from outside, juva awijaya awiiava ...that there is no coordination with the village government and no good relationship" Universitas Brawijaya Universit<u>as Povija</u>ya Universitas Brawijaya Universitas Brawijava Uni awijaya The village head also implicitly confirmed, awijaya Unive "The coordination is not fully happened because of their respective activities" (R14). Brawijaya awijaya awijaya awijaya Unive Relating to this disharmony, it can be said that it is caused by two factors. First, the liava awijaya awijaya kind of social forestry. The village head argued, awijava "...in the beginning of licensing process, the group and village have agreed to propose awijaya village forest" (R14). awijaya awijaya awijaya He further reasoned, awijaya Unive "Village forest can be controlled by village" (R14). awijaya awijaya awijaya However, the group then proposed partnership. In this license, the group is under KPH. Second, one-door policy. This policy is applied by the village head to control outsiders' assistance to the village. Further village will allocate this assistance awijaya according to village's needs. awijaya awijaya Relating to this, the village head wants a synergy between mangrove awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive management with village development. This synergy will be built in the near future. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive However, the chairman argued, awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Univer "This is only personal¹²" (R15). Brawlava Universitas Brawliava ¹² The chairman is a migrant and in the election of the village head in 2006, the chairman had become a candidate for the village head. Thus, the chairman was the elected village Unive head's rival ijava Universitas Brawijava Universitas Brawijava Universitas Brawijava Ilniversitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava The chairman does not want to bother relating this disharmony, he still intertwines relationship with the village. Further, the chairman argued, ** "Mekar only wants to lift up Lubuk Kertang through good management of ecotourism" Unive (R15). Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit The relations with the village government was also established when the group awijaya awijaya and the village government wanted to make the area of Mekar as a HD. However, awijaya awijaya the administrative process in the village was so slow, so the group proposed the awijaya Unive Kemitraan scheme. awijaya awijaya awijaya Univer3) Forestry Institution awijaya awijaya At its formation, the group participated in the GNRHL project in 2006. At that awijava awiiava time the communication between the group and Dishutbun Langkat was well awijaya established. Dishutbun Langkat also conducted group coaching. In addition, awijaya awijaya Dishutbun Langkat had provided assistance in the form of infrastructures such as awijaya awijaya a watchtower, a guard post, a 90-m track and an entrance gate. awijaya awijaya Relation with KPH goes very well. Before submitting an application for awijaya Unive Kemitraan, KPH conveyed information about training in Pematang Siantar. This jaya Unive information was welcomed by the group, so the group leader attended training in lava Unive Pematang Siantar on the basis of KPH Head assignment letter. Good relation is also established when the group proposed Kemitraan. At that time, KPH guided awijaya awijaya the group in the licensing process. If KPH visits ecotourism or if the group have awijaya awijaya affairs in KPH, KPH always gives direction. It also continues to build regular communication with the groups related to group development. The group also has an obligation to report its activities and developments to KPH. So far the report is Unive still verbal, but later it will be made in written form. This good relationship must be lave Unive maintained because with the issuance of Kemitraan, the group is a KPH's partner. awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Ecotourism development in the future also requires cooperation with KPH. Relationship with BPSKL also works well. The chairman occasionally coordinates with Balai Perhutanan Sosial dan Kemitraan Lingkungan (BPSKL-Agency for Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Social Forestry and Environmental Partnership) about social forestry. ersites Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 4) Pertamina awijaya awijaya The mangrove area of Mekar is included in the core area of the concession of awijaya awijaya Pertamina. So that Mekar is a Pertamina priority in the community empowerment awijaya awijaya program in Lubuk Kertang. The relationship with Pertamina is well established awijaya awijaya through the implementation of the company's CSR. Pertamina's CSR will continue awijaya awijaya until 2022, so that relations with Pertamina will be maintained until 2022. Pertamina awijaya also establishes intense communication with the group through its CSR staff who awijaya awijaya always come to ecotourism. In addition, Pertamina also carries out coaching to the awijaya awijaya group. awijaya awijaya awijaya awijaya 5) Yagasu awijaya awijaya Universit Generally, relation with Yagasu is well established. Yagasu provided awijaya Unive assistances to the group. However, an informant said, Unive "Even though Yagasu provided assistance to the group, but there was a claim from Yagasu awijaya regarding mangrove plants" (R16). awijaya awijaya A similar statement is also made by the chairperson. He argued awijaya awijaya "Yagasu did not provide openness in their projects" (R15). awijaya ersitās Braw Universitas Brawijaya Universitas Brawijaya This is related to Yagasu's program and the use of budget. Even so, the chairman Unive is still open with Yagasu in conducting activities in Mekar. Java Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Many conflicts have been existed in the group. They are happened in the forms of inter-member conflicts, conflicts between functionaries and members, and inter-Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive functionary conflicts. Externally, conflicts are happened with other group, Yagasu Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive and village government sitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya awijaya 1) Internal Conflicts awijaya Univers) awijaya Inter-member conflicts awijaya awijaya Some inter-member conflicts are as follows: awijaya awijaya The frequent happened conflicts are dissents and misunderstandings. These awijaya kinds of conflict often occur among members during group meetings, but the awijaya awijaya awijaya conflicts never continue for long time. awijaya Conflict between members also occurs related to members' placement in awijaya awijaya sections. For example, the section members of cleanliness was jealous with awijaya awijaya the section members of entrance gate about money. The former said that the awijaya awijaya latter slipped money in their pocket. awijaya awijava Conflict is also occurred when the section members of parking interfered the awijaya Universit work of the section of hut and stall. This made the latter felt disturbed in carrying laya awijaya Universit out its work. Then the latter complained this problem to the functionaries. Brawijaya Universitas Brawijaya Universitas Stannava Universit: Conflict between male member and female member was happened when the java awijaya awijaya University male wanted to hit the female. This conflict was caused by something related awijaya Universitas Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya to organizational work as Brawijaya Universitas Brawijaya Universitas Brawijaya niversitas Brawijaya awijaya these members still have a family Conflicts between members, where relationship, of different sections have also occurred. Both wanted to fight Universit because of something. Brawijaya Universitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

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awijaya b) Conflicts between functionaries and members Some conflicts between functionaries and members are as follows: niversitas Brawijaya As a functionary who has responsible to oversee members' activities, the vice Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit chairman usually gives a reprimand to members that work arbitrarily. However, Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit these members sometimes do not accept this reprimand ya Universitas Brawijaya awijaya awiiava University In the beginning of the donation collection, conflict between the chairman and awijaya members have occurred. At that time the members asked the chairman group's awijaya awijaya awijaya stamp to stamp entrance ticket, but the chairman disallowed their request. In awijaya awijaya this case, members assumed that by stamping the tickets, donation collection awijaya awijaya would be easier. Meanwhile the chairman thought that it was illegal because awijaya awijaya there was no legal basis, because the group did not have a management hiversitas Brawijaya awijaya permit. At that time the chairman received a vote of no confidence from most java awijaya members and those members blew up an issue to bring down the chairman. awijaya awijaya awijaya awijaya Inter-functionary conflict C) awijaya awijaya Conflict between the chairman and the vice chairman existed when Yagasu awijaya awijaya Universent the vice chairman for comparative studies. Yagasu claimed that the awijaya appointment of the vice chairman was personally and was not related to the group. awijaya Universitas Brawijaya Unive The chairman argued that this treatment could not be accepted. Personally, the awijaya Universitas Brawijaya Universitas Brawijaya University chairman considered that there was no problem and the chairman be had available awijaya awijaya gracefully towards this treatment. But when it was linked to the group, some awijaya awijaya members questioned the vice chairman leaving and the vice chairman went on whose behalf. Related to this, the chairman was confused getting different explanations from the vice chairman and Yagasu's stakeholder (Darwis). In the end, the chairman did not want to exaggerate the problem and let the vice chairman versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya left. From this, the chairman was able to give an assessment of Yagasu. rsitas Brawijaya Univerd)^t Prolonged Conflictersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Prolonged conflict that is occurred is related to financial administration. The Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive form of conflict is mutual suspicion and recrimination regarding money. In this case, java awijaya awijaya the chairman emphasized that financial management must be transparent so that awijaya awijaya there is no jealousy. Sometimes conflicts about finance are also triggered by awijaya awijaya members who rarely enter. To overcome this, members who did not enter were awijaya awijaya told to enter, to find out the conditions. ANI awijaya awijaya awijaya awijaya e) Conflict resolution awijaya In resolving conflicts, a greater role is held by the chairman. The chairman awijaya awijaya usually tries to gather information prior to conflict resolution. For the first step, the awijaya awijaya chairman will summon the members involved in the conflicts. Then they will be awijaya awijaya asked to give their statements. Next, the chairman gives explanations that are easy awijaya awijaya to be understood by them. In the end, the chairman reminds them not to repeat it awijaya as Brawijaya awijaya again. Most of conflict can be resolved in this step. awijaya Universit of the conflict is not resolved in the first step, the chairman will bring the conflict i ava awijaya awijaya Universitas Brawijaya awijaya Unive to a member meeting. Conflicting members will be met and be given the lava Universitas Brawijaya Universitas Brawijaya awijaya unive opportunity to give their explanations. If the majority of the meeting participant awijaya awijaya accepted one of explanations, then he is the right one and the conflict is considered awijaya awijaya resolved. If there are still members who do not accept the resolution, then the final awijaya awijaya decision is in the chairman. as Brawijaya Universitas Brawijaya

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awijaya Universitas Brawijaya awijaya Universitas Brawijaya awijaya Universitas Brawijaya awijaya awijaya awijava External Conflicts Brawijaya Universitas Brawijaya Univer2) tas Brawijaya Universitas Brawijaya a) Lestari Mangrove tas Brawijay Universitas Brawijaya Universitas Brawijaya The disharmony between Mekar and Lestari Mangrove is rooted mainly Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive because Lestari Mangrove envies towards Mekar's liveliness and assistances Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive addressed to Mekar. The village head said, iversitas Brawijava awijaya "This disharmony relation makes them in conflict. Further, this conflict makes the village atmosphere less conducive because it breaks relationships between groups and among community members. However, this conflict can still be controlled" (R14). ersitas Brawijaya Universitas Brawijaya Universitas Brawiiava Universit To solve this conflict, an approach has been carried out through communication lave awijaya Unive between the functionaries when they met at the village event. Mekar has also java awijaya awijaya Unive offered Lestari Mangrove to market its featured products in ecotourism. The village lava awijaya awijaya head has also directed the group leader many times to self-introspect and to learn awijava mutually. However, the village government has to strive hard bridging both sides awijaya in a mediation so that the conflict is not prolonged. awijaya awijaya awijaya Univerb) Yagasu awijaya Conflict^{13 14} originates from the appointment of Amat Ali for comparative awijava Unive studies, fund channeling through other functionaries and the intransparency¹⁵ of Unive Yagasu's program and the use of budget. These events were affected the relationship between them. After the appointment of Amat Ali, the chairman was awijaya reluctant to receive fund from Yagasu. To clarify this conflict, Yagasu claims that awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya ¹³ Even though Yagasu "does not" consider it as a conflict, researcher regards this as a conflict. The reason is Yagasu still has an interest in the existence of mangrove in Lubuk will yaga e Kertang, especially in Mekartas Brawijaya Universitas Brawijaya Universitas Brawijaya ¹⁴ For the chairman, this conflict seems personally because he is still open with Yagasu in conducting activities in Mekar. ¹⁵ The intransparency of Yagasu may also be connected with Yagasu's claim on mangrove planting in Lubuk Kertang (Analisa newspaper of 26 January 2013, "Untuk Ve lindungi hutan mangrove di dua kabupaten (Langkat and Deli Serdang): Unit patroli Brawlava Unive ekosistem hutan mangrove pantai timur dibentuk") isitas Brawijava Universitas Brawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava when it conducted activities in Lubuk Kertang, the chairman never wanted to meet. Univerc)^t Village Government sitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Disharmony with village government just results in conflict potential. This is awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive happened because of the kind of social forestry and the implementation of oneawijaya awijaya door policy. Previously, village government and the group agreed to propose awijaya awijaya village forest scheme, but the group then proposed partnership with KPH. awijaya awijaya Meanwhile assistance from Pertamina are given directly to the group. The village awijaya awijaya head is intended to allocate these assistances according to village's needs. awijaya awijaya However, village government still supports the group activities in ecotourism. awijaya awijaya Further, the village head will conduct a synergy between mangrove management awijaya awijaya with village development in the near future. awijaya

5.1.4. Constraints in Empowerment Process

awijaya The process of empowerment has run passably. However, two main awijaya awijaya constraints are emerged. These constraints are members' activeness relating to awijaya awijava economic incentive and the weak enforcement of rules and sanctions. Members awijaya University are more active on weekends and day offs, but less active on weekdays. In the laya Unive former situation, high group's income attracts members to participate in jaya awijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive organizational activities. Meanwhile the group earns less income on weekdays. awijava awijaya awijaya The first constraint also links with the second constraint. In daily activities, the awijaya awijaya functionaries still regard the kinship approach. It can be said that there is no awijaya leadership firmness in enforcing rules and sanctions. Therefore, the management becomes dysfunctional internally. Written standard in imposing sanctions is also not existed. Sanction imposition develops naturally and is enforced verbally. Brawlaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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awijaya awijaya awiiava 5.2. Discussion 5.2.1. **Empowerment Process** 5.2.1.1. Powerlessness ersitas Brawijava Universitas Brawijava Universitas Brawijava The conversion of mangrove resulted in significant negative impacts for the awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive coastal community of Lubuk Kertang and its neighborhoods. These impacts have Java awiiava Unive raised public awareness about the importance of mangrove ecosystem towards lava awijaya people livelihoods. Aheto et al (2016) argue that due to the significant awijaya environmental damage, most coastal people lost their livelihoods i.e. fishing and awijaya awijaya farming. In this situation, they shifted to commercial harvesting of mangrove wood awijaya awijaya as an alternative livelihood strategy. awijaya awijaya Being aware towards the current situation, Abdul Jalil and his fellows can do awijaya nothing, given that local community did not have power and most of the area had awijaya been illegally controlled by the entrepreneur. In this case, people are powerless awijaya and awareness is not enough to act either individually or collectively (Sadan, 2004). awijaya awijaya Compensations given by the entrepreneurs made local community was divided into awijaya awijaya two sides between the pros and the cons. Then, there was a split among the consawijaya people because they have been contested by the entrepreneurs. Furthermore, the awijaya illegal practice of buying and selling land under the pretext of providing awijaya compensation can make the entrepreneurs easily control the land, because awijaya Unive compensation awarding was accompanied by written evidence. As a result, local awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive people cannot unite their strength to fight the entrepreneurs, ya awijaya Universitas Brawijaya awijaya Universit Other than the projects, the group had no activity. It is understandable because the group was established to participate in the projects. In this case, Mongbo (2008) states that institutions are created when needed. Further Damastuti and de Groot (2017) argue that government's projects are usually short term and without

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava any follow up. Consequently, local support from both within and outside the group withered away as soon as the project ended. Moreover, the project is usually ^e implemented on the project-oriented and sometimes it can only benefit a handful Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya of parties (Purnomo et al, 2017). Some researchers argue that economic value awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive seems to have a main role in encouraging the collective actions of local community lava awijaya awijaya on forests (Behera, 2009; Sunderlin et al, 2005; Aheto et al, 2016; Appiah, 2002; awijaya awijaya Cobbinah, 2015; Corbridge and Jewitt, 1997; Obiri and Lawes, 2002). Another awijaya awijaya expert is in line with this statement by saying that people accept reforestation as awijaya awijaya long as it is blended with an incentive (Appiah, 2002). It can be concluded that the awijaya awijaya groups "initiated" by government rely heavily on its funding (Damastuti and de awijaya awijaya Groot, 2017).

5.2.1.2. Support

awijaya Support from internal organization came from Dian. He is considered as an awijaya educated person and gives many changes to the group. Prior to leadership awijaya awijaya transition, he introduced business thought to Amat Ali relating environmental awijaya awijaya ^{Unive} service provided by mangrove. In this case, outsider has intervened insider which ^{Uava} awijaya Unive has limited knowledge on mangrove. Post election he set organizational rules java Unive independently. This can be understood because the group has low quality human lave awijaya Universitas Brawijaya Universitas Brawijaya Unive resource. So the chairman took the initiative. The new leader gave inspiration and leave awijaya awijaya unive spirit to the members to reactivate organizational activities. In this stage, collective awijaya awijaya awareness was rebuilt with different vision. Chairman's vision was far more advanced for long term. Aheto et al (2016) state that conservation leadership is needed to sufficiently guarantee the effectiveness of community-based natural Unive resources management sitas Brawijaya Universitas Brawijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava awijaya

awijaya

awijava Projects from government i.e. mangrove planting and maintenance become an extraordinary support for the group. This support espouses community's effort to ectualize its aspirations in restoring the mangrove (Kieffer, 1984). Sadan (2004) Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive also argues that participation in the project educates the members on how to take awijaya unive on social roles, to employ social abilities, to utilize interpersonal influence, to awijaya awiiava develop commitment, to take responsibility and to acquire political efficacy. awijaya awiiava Besides aiming to rehabilitate damaged forest areas, this project can also provide awijaya awijaya income for the people involved. Direct incentives mechanism is introduced to awijaya awijaya compensate the communities' time and labor that might be taken away from paid awijaya sitas Brawijaya awijaya employment or household work (Damastuti and de Groot, 2017). Cobbinah (2015) awijaya awijaya argues that community seems to express stronger support for conservation if those niversitas Brawijaya awijaya receive socio-economic benefits in the form of income. Further, Aheto et al (2016) awijaya add that economic incentives can still be applied to engender mangrove awijaya rehabilitation. awijaya The mandate letter issued by Dishutbun Langkat become another support for awijaya awijaya the group to strengthen either individuals or the group in conducting mangrove awijaya ^{ve} planting, maintenance and guard. This mandate is considered as an entitlement awijaya Unive for group to keep active in guarding and maintaining the plants (Alsop et al, 2005). Java awijaya Universitas Brawijaya Universit In conducting interventions, either Pertamina or Yagasu wants the program jaya awijaya Universitas Brawijaya Universitas Eradina Unive benefiting both parties. It means the group can develop ecotourism, meanwhile java awijaya versitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Pertamina wants to achieve certain rewards and Yagasu wants to maintain its awijaya awijaya projects. To achieve these goals, both seek active groups. Outsiders' interventions are considered to empower the group because, as Sadan (2004) argues, many people have insufficient ability and need outsider assistance in order to free ^{ve} themselves from their limitations. Relating to this limitations, the chairman said, ^{avalava} versitas Brawijaya . Universitas Brawijaya Universitas Brawijaya . Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awiiava "External assistances empower the group. There is a wish to raise community's knowledge... Relating to means and infrastructures, the assistances are urgently Unive required. .. Without acceleration, group advancement is very slowly ... If the means and the Java Unive infrastructures are sufficient, external aids are not needed anymore" (R15) versitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava Universitas Brawijava Pertamina is a main donor for Mekar. Its program lasts for five years from 2016 to 2020. Pertamina argues that it wants to focus on one group so the group can be awijaya awijaya independent in the end of the program. Matiku et al (2013) argue that certain awijaya awijaya groups receive more assistances than others depending on outsider interest in niversitas Brawijaya Un awijaya iversitas Brawijaya Universitas Brawijaya Unive which the groups are potential. However, Damastuti and de Groot (2017) warn that lave awijaya Unive long-term assistance can make the group highly dependent on external funding. In java awijaya awijaya Unive contrast, Akamani et al (2015) argue that an organization can collapse in the awijaya awijaya absence of continuous external support. awijava awijaya Meanwhile Yagasu's programs depend on its donor. Yagasu focused on awijaya mangrove stands and put secondary attention on the group. Being facilitated by awijaya Yagasu, the village government set village regulations relating mangrove. These awijaya awijaya regulations aimed to make sure that the protection of mangrove has legal certainty awijaya awijaya Unive in local level and to strengthen the group in managing mangrove. Village regulation lava awijava issuance is hoped to strengthen the group by giving it local legitimacy (Damastuti and de Groot, 2017). Yagasu's seriousness was proven by audience to Regent Office of Langkat. These interventions make some improvement not only on ecotourism but also awijaya awijaya in group capacity. Assisting and training programs aim to improve community skills awijaya awijaya (Dev et al, 2003; Zimmerman, 2000; Purnomo et al, 2017; Arhelo, 2017; Clayton et al, 2014; Damastuti and de Groot, 2017; Mohammed and Inoue, 2014). Dev et Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University of the state that a training has an important influence in raising awareness, and Unive social role, confidence and empowerment. This transfer of knowledge has also java significantly affected local comprehension and participation in the project

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava (Cobbinah, 2015). Training must be seen as an investment rather as a burden (Arhelo, 2017). Further, continuous training will provide support to the group (Arhelo, 2017; Clayton et al, 2014; Purnomo et al, 2017). Local capacity building Universitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya Unive can improve the resilience of ecotourism, sustain stability and help to face periods awijaya unive of uncertainty (Baral, 2013). These interventions are further to strengthen the awijaya awiiava processes of individual and organizational empowerment (Sadan, 2004). So that awijaya Universitas Brawijaya Universitas Brawijaya awiiava ecotourism improvement can attract more visitors. awijaya awijaya However, in determining the aids, external entities must recognize group needs awijaya awijaya relating to issues such as conflict resolution, awareness improvement and awijaya awijaya assistance of inclusive planning and decision-making, and technical advice on awijaya awijaya specific issues (Springate-Baginski et al, 2003). Further, local capacity building, iversitas Brawijaya awijaya education of visitors and hosts, and tourism infrastructure development must also awijaya awijaya be considered (Baral, 2013). awijaya awijaya Regarding with parties who provide assistance to groups, Pertamina has awijaya awijaya coordinated with other institutions. This coordination aims to synergize assistances awijaya awijaya among institutions so they are not overlapping and redundant. Dev et al (2003) awijaya awijava ^{ve} argue that group's income generation can be supported through coordinating awijaya Unive livelihood support activities of different external agencies. Universit Because Mekar is KPH's partner, KPH conducted many assistances on Mekar. jaya awijaya Universitas Brawijaya Universitas KPH assisted Mekar in licensing process and making proposals. These awijaya awijaya assistances are very valuable for the group because most of its members have low awijaya awijaya capacity. This can also be a means of learning for the group. However, these kinds of support should be extended. Social forestry will only be successful if it is supported by government and community (Obiri and Lawes, 2002). Supports can be given in the term of strengthening local organizations and enhancing their versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava relationships with relevant local and external institutions (Akamani et al. 2015). Further, government has to develop ecotourism through initiatives and priorities as a means to increase livelihood of citizen (Ayachi and Jaouadi, 2017). Springate-Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Baginski et al (2003) suggest that government can allocate its budget through Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive investment within the forest sector in supporting the program. awijaya awiiava awijaya awiiava 5.2.1.3. Wish awijaya In deciding the groups, Dishutbun Langkat was looking for people who had a awijaya awijaya awijaya will to rehabilitate forests and land. To gain legitimacy to participate in the project, awijaya ersitas Brawijaya awijaya Abdul Jalil and several fellows gathered several other villagers who had similar awijaya awijaya awareness and commitment. This effort is argued to create community enabling hiversitas Brawijaya awijaya condition in the term of aspiration to work together (Cislaghi et al, 2016). Further, awijaya awijaya they organized themselves and formed an organization so-called Mekar in 2005. awijaya awijaya Couto (1989) indicates this as the indication of collective empowerment. Through awijaya awijaya this group, these villagers tried to access means to express their aspirations. awijaya awijaya The area designated by Dishutbun Langkat also became support to the group. awijaya awijava Even though group's efforts have been challenged by the enterpreneurs and the awijaya Unive pro-compensation villagers, the founder of the group kept maintaining Mekar area lava awijaya Universitas Brawijaya Universand insisted on planting. In this case, the leadership of Mekar's founder for laya awijaya Universitas Brawijava Universitas Brawijava Unive restoring the mangrove forests based on his awareness that community livelihoods lava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya threatened by the harsh damage of mangroves (Aheto et al, 2016). In conducting awijaya mangrove plantation, they further argue that awareness alone such as the awijaya recognition of depleted or degraded resources is not enough in ensuring the effectiveness of such collective action, but also need conservation leadership. Over time, collective actions through group also enabled the members to versitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya – Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijava overcome external threats. Persson and Prowse (2017) explain that threats on community's effort in rehabilitating forest usually come from unofficial harvesting, demand for agricultural land, and low governance capacities. Realizing these Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive threats, the group asked Dishutbun Langkat a mangrove guarding letter/mandate awijaya Unive to maintain the rehabilitated area of the group. In this case, the members were have awijaya awiiava aware that they needed written mandate to strengthen their efforts. awijaya Universitas Brawijaya Universitas Dowijaya Universitas Brawijaya awiiava awijaya 5.2.1.4. Consciousness awijaya awijaya awijaya The supports have raised individual awareness and individuals' awareness awijaya awijaya towards their circumstances has created collective awareness and this further awijaya awijaya raised collective actions. The initiators' effort to gather some fellows prior to the niversitas Brawijaya awijaya execution of GNRHL project had proven this awareness. Participation in the awijaya awijaya projects indicated that these individuals had a strong wish to do mangrove planting awijaya awijaya and maintenance. Moreover, knowledge obtained from training is a proof on how awijaya awijaya knowledge becomes a valuable asset for developing individual capacity. awijaya awijaya Furthermore, knowledge applications will provide additional skills that have not awijaya awijava Unive been obtained before. So that this will further strengthen member personal assets. awijaya Unive Planting project became a medium for individuals to express their wish to restore java Unive mangrove forest. However, besides this strong motivation, members were also laya awijaya Universitas Brawijaya Universitas Brawijaya awiiaya Unive motivated by wages obtained from the project. rsitas Brawijaya Universitas Brawijaya awijaya awijaya Alsop et al (2006) argue that psychological assets such as knowledge, awijaya awiiava information, consciousness, and income are very important in empowerment process on individual level. However, during group inactivity, individual consciousness had played an influential role in driving Amat Ali to conduct mangrove planting, maintenance and guard independently. Critical consciousness versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya awijaya

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya develops when individuals acquire a progressively greater comprehension of existing situations that form their livelihoods, and of the extent of their ability to change these conditions (Sadan, 2004; Zimmerman, 2000). Realization of Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive consciousness will change worthless individual into an acceptance of the self as a lave Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive confident person and result in skills, based on understandings and abilities, to have awijaya Universitas Brawijava Universitas Brawijaya Universitas Brawijaya awijaya influence the environment (Kieffer, 1984; Zimmerman, 2000). awijaya awijaya In this individual empowerment, the process consists of internal and external awijaya awijaya change. The former is personal belief in one's ability to act and the latter finds awijaya awijaya expression to act and to apply one's knowledge, information and skills in the awijaya NUN awijaya process (Parsons, 1989). awijaya awijaya awijaya 5.2.1.5. Confidence awijaya awijaya By being aware of the supports and a shared awareness from current situation, awijaya awijaya the group feels confidence in conducting collective actions. Individual involvement awijaya awijaya in communal organization is the element of the empowerment of individual and of awijaya awijaya collective (Sadan, 2004). The consequence is twofold, i.e. members' contribution awijaya awijaya Unive to the group and members' benefit from the group. By participating in the projects awijaya Unive and organizational activities, the members also learn to regard newly certain social liava awijaya awijaya Unive norms affecting them. They initiate to take an active part in the actions, and then java Universitas Brawijaya Universitas Brawijaya awijaya Unive adjust their individual efforts. Brawijaya Universitas Brawijaya awijaya Universitas Brawijava Universitas Brawijaya Universitas Brawijaya awijaya However, collective action cannot be realized when it does not benefit awijaya awijaya members. Even though Amat Ali can maintain the mangrove, illegal logging and encroachment still threatened his efforts.

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Unive 5.2.1.6. Empowered Group Brawijaya Universitas Brawijaya awijaya Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Donation collection has raised internal and external consequences. The Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya external consequence was the protest related to management permit. While the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive internal consequences were the debates between group members and groups and deva awijaya awiiava village apparatus. Restlessness on donation collection have encouraged the group awijaya awijaya to legalize its activity. awijaya The previous licensing process was failed because the administrative process awijaya awijaya awijaya of HD conducted by the village government run very slowly. This long duration awijaya sitas Brawijaya awijaya process was due to the very limited village budget. Then the group decided to awijaya awijaya propose Kemitraan scheme based on the information obtained at the training in Java hiversitas Brawijaya awijaya Pematang Siantar. In the licensing process, KPH strongly supported the group awijaya awijaya proposal in ecotourism and assisted in the administrative process in Dishutsu and awijaya awijaya KLHK. The draft of NKK was discussed by KPH, the group and the KLHK team awijaya awijaya and was agreed on 26 July 2017. After signing the NKK, KPH continued the awijaya Univerlicensing process by submitting Kulin proposal to KLHK. The Decree of Kulin was awijaya awijaya Unive issued on 10 April 2018. awijaya Universit According to Appiah (2002), tenure rights are important in securing access on lave awijaya Universitas Brawijaya Unive forest, especially in the long run. Rights are also the authority to initiate specific lave awijaya Universitas Brawijava Universitas Brawijava Unive actions related to a certain domain (Schlager and Ostrom, 1992). This delegation java awijaya awijaya is a mechanism to promote the transfer of power to local stakeholders (Agrawal awijaya and Ribot, 1999; Mohammed and Inoue, 2014). It can also be said that awijaya awijaya awijaya empowering community through power delegation results in more effective local governance, and in more socially and environmentally sustainable development Unive (Ribot, 2002, 2003). Iversitas Brawijaya Universitas Brawijaya ersitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava Universitas Brawijava

awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awiiava awijava Unive 5.2.1.6.2. Rules and Sanctions Wijaya Universitas Brawijaya awijaya Universitas Brawijava The transfer of leadership was also followed by designing organizational rules. However, the chairman himself created the rules adapted from other organizational Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya universe rules. These rules were not drafted or discussed with other functionaries or Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive members. Moreover, these rules are not disseminated and elaborated further. As juva awijaya a consequence, some members do not recognize the organizational rules. There is also no derivative regulation governing the rules of the game and sanctions such awijaya as group regulation, chairman regulation, chairman decree and chairman directive. awijaya awijaya However, these rules are not implemented properly. The chairman has also awijaya awijaya often applied verbal rules relating membership and sanction. According to Behera awijaya awijaya and Engel (2006), awijaya "If the objectives are set and rules are framed to achieve them, an effective mechanism must be implemented to make sure that the rules are enforced and observed. Effective enforcement requires a mechanism to detect rule violations and proper sanctions to deter such violations". awijaya awijaya The weak enforcement is because the functionaries realize that most members are awijaya Unive still less educated. So that their implementation still adopts a kinship leadership. Java awijaya awijava The weak enforcement of rules however has caused many internal conflicts. Further, this becomes additional burden to the functionaries because the chairman usually handles these conflicts. Aheto et al (2016) state that the group can be strengthened through the application of its internal procedures. So that it results in awijaya awijaya more trust either for the leadership or for the members. Increasingly, the group also awijaya awijaya may gain credibility in the village and beyond. Moreover, Pahl-Wostl (2009) argues ersitas Brawijava Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya Ve that the relative strength of rules is important for forest governance. Versitas Brawijava Universit The group has also organized itself by establishing working system, financial Unive management and meeting mechanism. However, most of these organizational resources have not been regulated through written rules. Verbal rules are emerged

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava through group daily activities. According to Giddens' structuration theory (1984). these organizational systems are reproduced by daily social practices that are embedded contextually. Further, the rules guide and inform the members to act Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive with the resources provided a Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 5.2.1.6.3. Membership sitas Brawijava Universitas Brawijaya awijaya awiiava Members' consensus appointed Dian to become the chairman of Mekar. He awijaya was chosen because he possesses leadership characteristics such as adaptation. awijaya awijaya an educated person, interest in mangrove forests and network. These awijaya awijaya characteristics have been proven throughout his leadership. This leadership quality awijaya awijaya is supported by several experts who state that a qualified leadership is needed to available niversitas Brawijaya awijaya sufficiently guarantee the effectiveness of community-based natural resources awijaya management (Aheto et al, 2016; Corbridge and Jewitt, 1997; Akamani et al, 2015; awijaya Mongbo, 2008). The chairman has also networks which are very useful in licensing awijaya awijaya process and consultation with forestry officials. As an educated person, he always awijaya awijaya gives motivation to group members relating mangrove and ecotourism. Because awijaya ^{ve} of these, community's leaders are appointed with local recognition and legitimacy, ^{lova} awijaya Unive thus make them locally accountable (Mongbo, 2008). Universit Averagely, the strength of the group is member awareness. Most members are laya awijaya Universitas Brawijaya Universitas Brawijaya Unive very aware of protecting the forest because they have a dark history related to the lava awijaya awijaya mangrove conversions. The members are also increasingly aware that the forest awijaya awijaya provides a living. Communities will enhance awareness on the importance of their environment upon which they ultimately depend (Butts and Sukhdeo-Singh, 2010; Damastuti and de Groot, 2017; Behera, 2009). Even so, some members are less motivated in managing mangrove because they are still money-oriented, members versitas Brawijaya – Universitas Brawijaya Universitas Brawijaya – Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava think that every act must have money. However, according to Castro (2001), incentives are an essential factor of getting people to continue participating. Characterised by lower incomes (Christensen et al, 2007), even though collective Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya actions result in income (Obiri and Lawes, 2002; Appiah, 2002; Aheto et al, 2016; awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive Damastuti and de Groot, 2017), coastal communities seem inclined their ava awijaya awijaya participation when the available incentives are insufficient or better alternatives awijaya awijaya emerge (Obiri and Lawes, 2002; Persson and Prowse, 2017; Matiku et al, 2013). awijaya awijaya Similar to motivation, members' capacity is also low. Many members do not awijaya awijaya understand administrative and financial affairs, and technical knowledge about awijaya tas Brawijaya awijaya mangrove. Further, some members are still young and are rarely involved in awijaya awijaya meetings. Some efforts conducted by the functionaries are giving comprehension awijaya regarding this knowledge. Even though members have limited knowledge, they awijaya awijaya have high creativity and enough adaptation in daily activities. awijaya awijaya awijaya awijaya 5.2.1.6.4. Working System awijaya awijaya The more advanced ecotourism makes the group more organized itself. It has awijaya awijava arranged working system, financial management and meeting mechanism. These awijaya

ya Unive organizational aspects have been discussed and approved through consensus in Java Universitas Bravijaya

group meeting. The working system consists of the division of functionary's duties, the establishment of sections, the appointment of section's coordinator and personnel, the appointment of non-member, the arrangement of tariff for each section, the arrangement of working hours and the mechanism of mutual cooperation. Even though the group has limited fund, its members work very hard to develop more-advanced ecotourism (Butts and Sukhdeo-Singh, 2010). Individual empowerment can be seen from members' activeness in daily

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya ecotourism activities. Group records show that members become more active on day offs and less active in weekdays. It is understandable that members are motivated by income earned from ecotourism. Economic incentive become the Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive most influential factor in raising members' awareness. Members need sufficient Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive income to fulfill their livelihoods and their family needs. This becomes a challenging liava awijaya task for the group to fully empower its members. In its daily practices, local community regards the group as a good group in awijaya cooperation among its members. Ecotourism business and well-organized group awijaya awijaya have raised the name of the group. Further, ecotourism promotion conducted awijaya awijaya either by the group or by visitors through online social media¹⁶ also lift up the name awijaya awijaya of Lubuk Kertang. Even in the site, the signboard put the name of Lubuk Kertang, Java awijaya not Mekar. As said by the chairman, "The image of the village will be lifted up when the mangrove is well managed by the group" (R15). awijaya awijaya Fuller et al (2007) state that the advocates of ecotourism argue that ecotourism awijaya awijaya ^{ve} can deliver an increased or renewed pride in culture. awiiava Unive 5.2.1.6.5. Financial Management Universit Income is an important outcome of community empowerment for the group and liava its members. Ecotourism has become income for the group and additional income awijaya for the members. In a month, the group earns net income almost IDR 1 million. awijaya awijaya Meanwhile weekly profit is IDR 227,558 and daily profit is IDR 32,419. This profit is further used to run ecotourism management mainly for maintaining and constructing infrastructures. For its members, wages become additional income to Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya ^{ve 16} If we search videos by tagging "Ekowisata Lubuk Kertang", it will show many videos Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava Universitas Rrawijava awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava support their daily livelihoods. Members can earn IDR 13,524,667 per month, or s Brawijaya IDR 3,121,077 per week, or IDR 444,647 per day. ersit Even though income from ecotourism cannot be relied to fulfill daily needs vet. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya ecotourism still develops and has a good prospect in the future. Ecotourism is awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive related with the development of local community and environmental conservation awijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava awiiava (Ayachi and Jaouadi, 2017; Butts and Sukhdeo-Singh, 2010; Cobbinah, 2015; awijaya awijaya Dimoska and Kocevski, 2010; Fuller et al, 2007; Martínez et al, 2018). It means awijaya awijaya ecotourism has substantial impacts to improve local economy and the livelihood of awijaya awijaya villagers (Ayachi and Jaouadi, 2017; Jaafar et al, 2013; Butts and Sukhdeo-Singh. awijaya awijaya 2010; Clayton et al, 2014; Mohamad and Hamzah, 2013; Snyman, 2014; Fuller et awijaya awijaya al, 2007; Martínez et al, 2018; Adeleke, 2015; Dev et al, 2003). This further results awijaya in multiplier effects (Mitchell, 2012; Ayachi and Jaouadi, 2017; Fuller et al, 2007; awijaya awijaya awijaya awijaya "Local people who are crossed by visitors also get income...previously a villager can sell awijaya 5 bottles of fuel, now he can sell 15 bottles" (R2) awijaya awijaya awijaya In long term, ecotourism may reduce poverty in local community (Mohamad awijaya university and Hamzah, 2013; Ayachi and Jaouadi, 2017; Dimoska and Kocevski, 2010; awijaya Unive Adeleke, 2015; Snyman, 2014). However, this is influenced by its adeptness to java Unive boosting the livelihoods of local people. Ecotourism can be fruitful only if the java awijaya University members are involved and received benefits equitably (Jaafar et al, 2013; Snyman, java awijaya awijaya 2014), and government support ecotourism (Ayachi and Jaouadi, 2017). In awijaya awijaya addition, ecotourism development needs product diversification and value creation awijaya awijaya to the visitors for satisfaction and learning experiences (Nigatu, 2017; Snyman Unive 2014; Baral, 2013). niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijava Universitas Brawijava

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijava Unive 5.2.1.6.6. Meetings awijaya The group has adopted the concept of general meetings and conduct them in democratic atmosphere. Members have equal opportunity to voice their aspirations Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya University and to argue each other. However, most of members have less experience and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive knowledge about mangrove. So this impedes the transfer of information to the awijaya awiiava members. In their implementation, meetings are not held regularly. In addition, not awijaya awijaya every meeting follow-up is carried out by members, because the character of most awijaya of the members are not work-bound. awijaya awijaya awijaya According to Butts and Sukhdeo-Singh (2010), meetings are a means to give awijaya ersitas Brawijaya awijaya members a voice and to empower themselves effectively. They must also be awijaya awijaya followed up by concrete action in the form of efforts to guard organizational iversitas Brawijaya awijaya resources from rule-breakers (Agrawal and Yadama, 1997). Persson and Prowse awijaya awijaya (2017) argue that meetings that are not held on a regular basis will prohibit awijaya awijaya information exchange and members will be difficult to access to information. awijaya awijaya awijaya awijaya 5.2.1.6.7. External Relations awijaya awijava Universit. The group builds relationships to external parties based on their interventions. awijaya Unive In its development, these relationships experience dynamics among external awijaya Unive parties. Good relationships are intertwined with forestry agencies and Pertamina. Universitas Brawijava Universitas Brawijava Unive Meanwhile, disharmony is happened with the village government, Lestari awijaya awijaya Universitas Brawijaya awijaya awijaya According to Armitage et al (2009), the formation of horizontal and vertical awijaya linkages and networks is very useful to foster trust building and social learning. Further, this relationship will shape governance outcomes. Akamani et al (2015) also stress that linkages with relevant local and external organizations will niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awiiava strengthen community-based forest organizations. Relationship between the group and KPH is considered as a kind of accountability relation (Mohammed and Inoue, 2013), where the group will report its activities and development and KPH will Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya unive supervise and assist the group. Relating to disharmony with Yagasu, Purnomo et available Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya unive al (2017) argue that transparency in every stage of activities is required to develop awijaya awijaya a relationship based on mutual trust. Meanwhile the group should build harmony awijaya awijaya relationship with local actors since social forestry will only be successful if there is awijaya awijaya strong institutional support from both local government and community (Obiri and awijaya awiiava Lawes, 2002). RAWI awijaya awijaya awijaya 5.2.1.6.8. Conflicts Iniversitas Brawijaya awijaya awijaya Conflict becomes a prominent issue in empowerment. The group has java awijaya experienced many conflicts either internally or externally. Internally, conflict usually awijaya awijaya happened between members relating to daily activities and financial management. awijaya awijaya Since members seek to pursue their own interests, conflict can arise across and awijaya awijaya within members. Conflicts often arise when members interact with one another in awijaya the midst of change (Castro, 2001). Participation in daily activities can also awijaya Unive escalate conflicts. A conflict has also occurred between functionaries. Akamani et ijava Universal (2015) argue that internal conflicts among the functionaries can cause the awijaya Universitas Brawijaya Universitas Brawijaya Unive collapse of organization. However, the functionaries can handle all conflict so the lava awijaya awijaya conflicts did not widen. The ability of the functionaries to manage conflicts is a proof awijaya awijaya that the functionaries have good skill in leadership. Springate-Baginski et al (2003) state that conflict resolution is one of the most common needs relating to forestmanagement issues. Further, conflict resolution should be regulated in written ^{Unive}rules (Alló and Loureiro, 2016). rawijaya Universitas Brawijaya niversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava Ilniversitas Rrawijava

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Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Conflict with other group makes their relationship is disturbed. Indeed, both awijaya have similarity in managing mangrove. In this conflict, the village head has already vijaya Unive directed both leaders and tried to bridge them in any chance. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit Misunderstanding between the group and Yagasu seemed to be personal for Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Unive the chairman. However, this also affected the group as a whole. In this case, both java awijaya awijaya parties need to introspect each other. Yagasu must give a simple but awijaya awijaya comprehensive explanation concerning its "big project" in Lubuk Kertang. awijaya awijaya Meanwhile the chairman must think clearer and try to develop a constructive awijaya awijaya communication. Even though Yagasu has no activities recently, Yagasu might awijaya itas Brawijaya awijaya conduct programs in the near future. awijaya awijaya Conflict potential with village government also creates disharmony. The village awijaya government should think that any scheme of social forestry is not a problem as awijaya awijaya long it brings an advancement for the village and its community. The village head's awijaya awijaya policy regarding one-door system can also prohibit the development of the village awijaya awijaya and the group. This is because each outsider has its own system and the village awijaya awijaya head must respect this. awijaya awijaya According to Castro (2001), conflictual situations are neither positive nor awijaya Unive negative but they can be used in a constructive or destructive way. Conflicts are days awijaya awijaya Universitas Brawijaya awijaya Unive crucial not only for social change but also for the continuous creation of the group laya Universitas Brawijaya Universites -----awijaya Unive by the group itself. Therefore, conflict should not be viewed only as a dysfunctional java awijaya awijaya relationship between individuals that should be avoided at all cost, but also, as an awijaya opportunity for constructive change and growth. Further, conflict management awijaya awijaya awijaya considerations need to be a part of any social forestry arrangements.

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awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya awijaya Universit The management does not implement rules of the game because it still regards awijaya the kinship approach. Less disseminated rules also make the members do not awijaya recognize their obligations and rights, as well as sanctions. Behera and Engel Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Unive (2006) argue that if the objectives are set and rules are framed to achieve them, java Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya university an effective mechanism must be implemented to make sure that the rules are awijaya awijaya enforced and observed. Effective enforcement requires a mechanism to detect rule awijaya s Brawijaya Universitas Brawijaya awijaya violations and proper sanctions to deter such violations. awijaya The group should not just rely on AD and ART. It must arrange simple and awijaya awijaya awijaya understanable derivative regulations such as group regulation, chairman awijaya awijaya regulation, chairman decree and chairman directive (Table 6). These rules can also awijaya awijaya adopt greater tolerance, especially by the establishment of graduated sanctions niversitas Brawijaya awijaya (Alló and Loureiro, 2016). Further, to treat members fairly, the functionaries can awijaya awijaya adopt rota system in appointing personnel in sections. Moreover, strict sanction awijaya awijaya such as dismissal can be applied in order to give non-member villagers a chance awijaya awijaya to join the group and to participate in it. To attract members and to support rule awijaya awijaya enforcement, simple merit system may be applied. awijaya

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Universitas Brawijaya Universitas Brawijaya awijaya awijaya awijaya Universitas Bravijava Universitas Bravijava awijaya CONCLUSIONS AND SUGGESTIONS awijaya 6.1. Conclusions awijaya awijaya Some conclusions derived from this research are: awijaya awijaya 1. The process of empowerment cannot fully adopt Sadan's theory (2004). Sadan awijaya awijaya states that the second step is "support" and this is further followed by "wish". awijaya tas Brawijaya Universitas Brawijaya awijaya Universit However, the results show vice versa. The group needs to raise its wish to lava awijaya wijaya Universitas Brawijaya Universit reach the support. In other word, the wish is a prerequisite for the support. awijaya awijaya Therefore, the process of empowerment in this research is powerlessness, lava awijaya awijaya wish, support, consciousness, confidence and empowered organization. In awijaya awijaya addition, the group experiences two empowerment processes i.e. prior to 2013 awijaya awijaya and 2014 onward. This distinction is based on a figure of Dian. awijaya awijaya Even though local community is aware of mangrove ecosystem and outsiders 2 awijaya awijaya support community-based ecotourism, economic incentive and the weak Java awijaya awijaya enforcement of rules and sanctions have become the major constraints in available University empowerment process. Generally, members are inactive because ecotourism awijaya University cannot be relied to support their daily needs. Further, leadership applies familial lave awijaya mode in accordance with the characteristic of local community. awijaya awijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya 6.2. Suggestions awijaya Some suggestions derived from this research are: awijaya awijaya 1. External interventions must be maintained continuously. Such interventions are Universitas Brawijaya Universit intended to improve local capacities in managing ecotourism. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya 2. Organizationally, personnel appointment in daily activities can adopt rota Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universitas Rrawijava Universitas Rrawijava 66 niversitas Rrawijava Universitas Rrawijava

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awijaya system, so each member has the same chance to participate. Further, the awijaya inactive members can be replaced through new member recruitment in order awijaya awijaya Universit to give non-member villager a chance to participate. In addition, simple and Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universit understandable derivative regulations must be created. Rules and sanctions Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya awijaya Universit must also adopt greater tolerance and must be enforced properly.ersitas Brawijava awijaya awijaya awijaya Universitas Provijaya Universitas Brawijaya awijaya awijaya Unive awijaya awijaya awijaya NERSI awijaya awijava awijaya
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APPENDICES

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Universitas Brawijaya awiiava Unive Appendix 1. Letter of Information wijaya Universitas Brawijaya Surat Pemberitahuan Judul Penelitian Community Empowerment in Coastal Community: Case Study ersitas Brawijaya of Community Forest in North Sumatra, Indonesia Nama Peneliti : Longgak Arianto Tampubolon (Mahasiswa Pascasarjana Magister Ilmu Administrasi Publik Fakultas Ilmu Administrasi Uni Universitas Brawijaya) versitas Brawijaya Universitas Brawijaya Univer1itaUndangan Partisipasias Brawijaya Universitas Brawijaya Universitas Brawijaya Universita Saya mengundang Bapak/Ibu untuk berpartisipasi dalam penelitian yang Brawilaya Universite berjudul "Community Empowerment in Coastal Community: Case Study of Community Forest in North Sumatra, Indonesia" (Pemberdayaan Masyarakat Pesisir: Studi Kasus Hutan Kemasyarakatan di Sumatera Utara, Indonesia). Unive 2. Tujuan Surat Universite Tujuan surat adalah untuk menyediakan informasi yang Bapak/Ibu perlukan wijaya dalam menentukan keputusan untuk berpartisipasi dalam penelitian ini. Brawijaya 3. **Tujuan Penelitian** Tujuan penelitian adalah untuk menganalisis latar belakang dan proses pemberdayaan masyarakat dalam pengelolaan mangrove di Lubuk Kertang. Kriteria Partisipan 4. Penelitian ini melibatkan para pihak yang terlibat langsung maupun tidak langsung dalam pemberdayaan masyarakat. Misalnya, masyarakat lokal yang terlibat dan tidak terlibat, perangkat pemerintahan desa (perangkat desa dan badan perwakilan desa), tokoh masyarakat, staf pemerintah (Dinas Kehutanan Provinsi Sumatera Utara, Balai Pengelolaan Hutan Produksi Wilayah II Medan, Balai Perhutanan Sosial dan Kemitraan Lingkungan Serawijaya Wilayah Sumatera atau eks Balai Pengelolaan Hutan Mangrove Wilayah II, awijaya Kesatuan Pengelolaan Hutan Wilayah I Stabat), akademisi (Universitas^{a Brawijaya} Sumatera Utara), staf organisasi non pemerintah atau lembaga swadaya Brawijaya Universitamasyarakat (jika ada) dan staf badan usaha (jika ada). aya Universitas Brawijaya Prosedur Wawancara Jika Bapak/Ibu setuju untuk berpartisipasi, saya akan mewawancara Anda. Wawancara akan berlangsung satu hingga dua jam (tergantung situasi) dan akan direkam. Silahkan menjawab sesuai dengan pengetahuan Anda. 6. Risiko dan Bahayasitas Brawijaya Universitas Brawijaya Partisipasi Bapak/Ibu tidak akan menimbulkan risiko dan bahaya apapun. Univerzitamanfaataya Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universita Penelitian berusaha menggali pemberdayaan masyarakat dalam ersitas Brawijaya pengelolaan mangrove. Bapak/lbu mungkin tidak akan menerima manfaat Universitalangsung dari penelitian ini, tapi diharapkan temuan penelitian akan menjadi wijaya Universit abahan masukan bagi pihak-pihak terkait terutama pemerintah untuk itas Brawijaya Universitapengembangan pemberdayaan masyarakat ke depannya. Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya

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awijaya awijaya awiiava Universita Kompensasi Bapak/Ibu tidak akan menerima kompensasi apapun terkait partisipasi dalam penelitian. Sifat Partisipasiversitas Brawijaya Universitas Brawijaya Universitas Brawijaya Partisipasi dalam penelitian ini bersifat sukarela. Anda dapat menolakas Brawliava berpartisipasi, menolak menjawab pertanyaan atau menarik diri kapanpun tanpa ada akibat apapun Brawijaya Universitas Brawijaya Universitas Brawijaya Univer10. Kerahasiaan Universitas Brawijaya Universitas Brawijaya Universitas Brawijaya Universita Seluruh data dan informasi yang terkumpul dalam penelitian ini akan tetap awi aya Universitarahasia dan hanya dapat diakses oleh saya sendiri. Supervisor dan/atau Brawijaya Universita perwakilan Magister Ilmu Administrasi Publik Fakultas Ilmu Administrasi Brawlava Universitas Brawijaya mungkin akan menghubungi Bapak/Ibu atau memerlukan akses ke data dan informasi yang terkumpul untuk memantau penelitian ini. Saya akan melakukan yang terbaik untuk tetap menjaga kerahasiaan data dan informasi yang Anda berikan. Unive 11. Narahubung untuk Informasi Lebih Lanjut Jika Bapak/Ibu memerlukan informasi lebih lanjut, Anda dapat menghubungi wijaya awijaya Fakultas Ilmu Administrasi Universitas Brawijaya, Jl. MT. Haryono 163, Brawijaya awijaya Malang 65145, nomor telepon 0341-553737, 0341-568914, 0341-558226, awijaya email fia@ub.ac.id 12. Publikasi Jika hasil penelitian ini dipublikasikan, nama Bapak/Ibu tidak akan dimuat. 13. Persetujuan Jika Bapak/Ibu bersedia untuk berpartisipasi, maka saya memerlukan persetujuan Anda. Persetujuan berupa pernyataan "Saya setuju" dan direkam, atau pernyataan tertulis. 14. Catatan (berlaku jika partisipan setuju terlibat dalam peneltian) Jika memungkinkan, saya akan memvalidasi pernyataan Bapak/Ibu di kemudian hari. Note: Adopted and translated from (except no. 14): https://www.uwo.ca/research/_docs/ethics/Letter%20of%20Information%20template.docx Unive Downloaded at 25 April 2018 Malang, Mei 2018 Universitas Brawijaya Universitas saya, awijaya awijaya Universitas Brawijaya Unive Longgak Arianto Tampubolon Brawijaya Universitas Brawijaya Unive NIM 176030100111037 sitas Brawijaya Universitas Brawijaya Universitas Brawijaya UniverSurat ini menjadi milik Bapak/Ibu. Java

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