Summary Report of SEIA and HCV Assessments PT Investa Karya Bhakti Kotawaringin Barat District, Central Kalimantan Province

1. Executive Summary

PT Investa Karya Bhakti (herein after refer to PT IKB) was established by Act No. 07 dated on 19-09-2012, issued by Kokoh Henry, SH., and legalized by Ministry of Law Human Right No. AHU-52.397.AH.01.01. year 2012 dated on 02-10-2012.

PT IKB, is which is located in the Pangkalan Banteng and Kumai Subdistrict, Kotawaringin Barat Regency – Central Kalimantan Province, is one of the palm oil plantation companies that has adopted the sustainable palm oil practices based on the RSPO New Planting Procedures which came in to force beginning 1 January 2010. As part of a sustainable palm oil management, PT IKB has conducted the Social Environment Impact Assessment (SEIA/ AMDAL), High Conservation Value (HCV) identification, Social Impact Assessment (SIA) Carbon Stock Assessment and Land Use Change Analysis (LUCA). The assessment were conducted from November 2015 and reported in March 2016 by Gagas Dinamiga Aksenta (Aksenta); the key consultants conducting these assessments have been approved by HCVRN Assessor Licensing Scheme.

The area license of IKB was issued by Head of Kotawaringin Barat Regent in 2015 (SK No. 525/014/Ek dated 21 April 2015), covering area of 5,700 ha.

The results of the assessment shown that there is no primary forest in the concession of PT IKB. Based on The Report of HCV Identification PT IKB 2016 by Aksenta, The vegetation's cover dominated by the palm oil.

As for potential HCV areas, 3 (three) types of HCV were identified by Aksenta; these are HCV 1 (1.2, 1.3 and 1.4), HCV 3 and HCV 4 (4.1 and 4.2). The original HCV area identified was ±349.9 ha (6.1% of Plantation Permit Area). The important elements for HCV 1 are the existence of population and tracks of endangered and vulnerable species such as Orangutan Kalimantan (*Pongo Pygmaeus*), Bekantan (*Nasalis Larvatus*), Kura-kura Ambon (*Cuora Amboinensis*), Kura-kura Pipi Putih (*Siebrenkociella Crassicolis*), and Empuloh Paruh-Kait (*Setornis criniger*). The important elements for HCV 4 are related to the potential damage from river riparian and water catchments area. The HCV areas inside the IUP approved areas will be included in the monitoring and socialization plan with the local communities.

The results of the Social Impact Assessments (SIA) have shown that the company's development of oil palm plantation and palm oil mill production has a positive impacts toward local livelihood and the society's social sustainability. Generally, the communities support the development of oil palm plantation by PT IKB. Expectations of the people the main thing is the creation of jobs for the local community, transparency and clarity of plasma management, the development and improvement of social facilities/ public, improved quality and clean water facilities, construction of lighting facilities, business opportunity or cooperation with the company.

2. Scope of SEIA and HCV Assessment

2.1 Organizational Information/ Contac Person

Company Name	: PT Investa Karya Bhakti
Company Address	: Melawai Raya Street No 10, South Jakarta
	Jakarta- Indonesia, 12160
Type of business	: Oil Palm Plantation & Mill
Capital Status	: Domestic Investment (Penanaman Modal Dalam Negeri, PMDN)
Taxpayer Notification Number	: 03.259.369.1-016.000
Geographical Location	: 2°32′13.26″ - 2°42′10.55″ S & 111°48′13.85″ - 111°54′14.80″ E
	See Picture 1, Picture 2, and Picture 3
Surrounding Entities	:

Surrounding Entities

North : Villages (Amin Jaya, Karang Mulya and Simpang Berambai)

- South : Tanjung Puting National Park, Plantation Area of PT Bumi Langgeng Perdanatrada & PT Surya Sawit Sejati
- West : Plantation area of Wana Sawit Subur Lestari, Sekonyer River & Tanjung Puting National Park
- East : Kumai River
- Contact person
- : Lim Sian Choo

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Website : www.bumitama-agri.com



Picture 1 Location of PT IKB in Indonesia



Picture 2 Location of PT IKB in Pangkalan Banteng & Kumai Sub-district, Kotawaringin Barat Regency, Central Kalimantan Province

2.2 List of Legal, Regulatory Permits and Property Deeds

No.	Licenses and Recommendations	Issued by	Number & Date	Note
1	Deed of Establishment	- Kokoh Henry, SH.	- No: 7 dated 19-09-2012	
2	Approval the deed of Establishment	Ministry of Justice & Human Rights	AHU-52.397.AH.01.01. year 2012 Dated: 02-10-2012	
3	Tax Payer Notification Number	Tax Serve Office	03.259.369.1-016.000 Dated 07-11-2012	
4	Permitted Area (Izin Lokasi)	Head of Kotawaringin Barat Regent	525/62/IX/2014 Dated: 01-09-2014	± 11,746.74 Ha
5	Decision of Environmental Feasibility	Head of Kotawaringin Barat Regent	660/63/BLH/XII/2015 Dated: 22-12-2015	± 8,210.68 Ha
6	Environmental Permit (Approval of SEIA)	Head of Kotawaringin Barat Regent	660/64/BLH/XII/2015 Dated: 22-12-2015	± 8,210.68 Ha
7	Plantation Permit (IUP-B)	Head of Kotawaringin Barat Regent	525/014/Ek Dated: 21-04-2015	± 5,700 Ha

Table 1. Types of permits and recommendations PT IKB

3. Assessment Process and Procedures

3.1 Assessor and Their Credentials

3.1.1 Social Environment Impact Assessment (SEIA/ AMDAL)

The SEIA/ AMDAL documen of PT IKB was prepared by consultant from CV Juvenil Rimba Natural, GM Yusuf BA Street RT 07, Nangabulik (+62 813 5286 1838) and have been approved by Head of Kotawaringin Barat Regent according to the letter number 660/64/BLH/XII/2015, date 22 December 2015.

3.1.2 Social Impact Assessment (SIA)

The Social Impact Assessment of PT Investa Karya Bhakti was carried by Gagas Dinamiga Aksenta (Aksenta), with the compotition of team as follows :

No.	Expert Name	Expertise/Position	Experience
1	Miranty Magetsari	Discipline Specialist	Experienced in the quality management system development and human resources, as well as the assessment for the purposes of certification of management systems. With Aksenta she has do assessments, among others, the Social Impact Assessment and High Conservation Value (HCV)

Table 3. Person and Expertise SIA Team Assessor in PT Investa Karya Bhakti

No.	Expert Name	Expertise/Position	Experience
			Assessment for some palm oil companies in Indonesia. In 2010 she got the accreditation of the RSPO as a Discipline Specialist for the study of HCV in oil palm plantations. In 2013 he attended training ISPO Auditor. In this assessment she responsibles as team coordinator SIA studies with a specialization in community development and employment.
2	Noor Rakhmat Danumiharja	Forestry Management	Career in the Ministry of Forestry in Bukit Barisan Selatan National Park, Lampung (1982-1988), at the Natural Resources Conservation Center West Java (1999-2005), in the National Park of Mount Gede Pangrango (2005- 2007), the last work in Directorate of Forest investigation and Security (2007- 2012). Other work experience as the Environmental Impact Assessment Team in PT Caltex Pacific Indonesia Blocks Minas and Jamrud (1990), the EIA Team PT Unocal offshore East Kalimantan and PT Santan Assamera in Bantayan South Sumatra. In this assessment serve as a team member.

3.1.3 High Conservation Value Identification (HCV)

The HCV assessment conducted for about 4 months from November 2015 until March 2016, in the Permitted Area (Izin Lokasi) of PT IKB was carried by Gagas Dinamiga Aksenta (Aksenta), which located at Jln. Gandaria VIII/ 10 Kebayoran Baru Jakarta – Indonesia, 12130. Web page <u>aksenta@aksenta.com</u>.

Key consultants from Aksenta have been accredited and approved by HCVRN Assessor Licensing Scheme (ALS). The team members are on Table 4.

Name	ALS License	Position	Expertise
Resit Sözer resit@aksenta.com	Provisional (ALS15030RS)	Team Leader. Biodiversity Aspect (HCV 1,2 & 3)	Research and wildlife surveys, Taxonomy and wildlife ecology, wildlife management, populations and habitats study, and wildlife conflict mitigation
Aulia Bahadhori Mukti <u>aulia@aksenta.com</u>	N/A	Team Member Environment Services (HCV 4)	Hydrology, soil and water conservation, spatial analysis and remote sensing
Teuku Ade Fachlevi adhe@aksenta.com	N/A	Team Member Socio-culture (HCV 5 & 6)	Social, economic, natural resources management and business planning
Reza Abdillah <u>reza@aksenta.com</u>	N/A	Team Member GIS Specialist	Remote sensing, conservation biology and land use issues mapping, and Carbon Stock Assessment.

Table 4. Key consultants HCV Assessment

3.2 Assessment Methods

3.2.1 Social Environment Impact Assessment (SEIA/ AMDAL)

The data collection process was strongly associated with the type of data that collected. Generally, studies will be conducted based on primary data and secondary data. Primary data obtained through observation, measurement and field interviews, and secondary data obtained from the literature collected, either from the company, or directly from related institutions in the study of this area. The methods that were used to collect the data adjusted with components that can be studied. The used data must be accurate and reliable so that it could be used to analyzed, measure and observe the environmental components which it predicted would be affected and components of action plan that would give significant impacts to the surrounding environment. The data were collected was as follow:

- Physic Chemist Components (Climate, Air Quality and Hydrology, and Soil).
- Biological Components (Vegetation, Animals, and Water Biota).
- Socio-Economic Culture Components (Demography/ Population, Social, Economic, Social and Cultural).
- Environmental Health and Public Health Components (Environmental sanitation, public health level, level of public health services).

Methods of Significant Impact Estimation

Determination of the significant impact to the environment caused by the development activities of the plantation is only intended as an attempt to estimate the large and important environmental quality changes that are caused by the plantation development activities of PT IKB in Pangkalan Banteng and Kumai Subdistrict, Kotawaringin Barat Regency. Method of significant impact estimation is by differentiating the magnitude impact and significant impacts.

A. Estimation on the Magnitude of Impact

Magnitude Impact measured from the environmental quality changes. On estimates of changes in environmental quality are used formal and informal methods.

1. Formal Methods

Formal methods are used to estimate the impact of parameters which the system characteristics can be identified or estimated by using the approach of environmental threshold at national and regional levels.

2. Non Formal Methods

Non-formal method is a method that based on the professional judgment of experts, logical frame analysis and analogy. This method is use to estimate the environmental parameters which characteristics system finds difficult to identify or estimated by modeling approach such as socio-cultural systems.

B. Determination of Important Impact Characteristics

Assessment of the important impact characteristics were in accordance to BAPEDAL decision Number: KEP-056 of 1994 on Guidelines Regarding Significant Impacts size. Meanwhile, in relation to the impact evaluation conducted by Important Impact scaling into two categories: important and less important. Characteristics Impact divided into two groups, negative impacts and positive impacts. It will be regarded as negative if the changes/ impact estimated is get adverse towards the environmental, and it is positive if the changes/ impact estimated giving beneficial to the environment.

C. Methods of Important Impact Evaluation

The important impact evaluation explore "holistic causative" against expected environmental components that is affected. For this purpose the supporting tools used is such as interactions matrix. Interactions matrix between activity components and environmental component contain magnitude of Impact and Importance of Impact. This Important Impact evaluation will conduct careful and thorough study to the primary impact (positive / negative) and secondary impacts (positive / negative), and also other derivative impacts on the environment component and activities component.

The study of the important source impact and hypothetical impact can identify the key issues that need to be managed. Results of the important impact evaluation are also expected to assist the decision making process in the selection of a viable alternative plan that takes into consideration of the environmental aspects of the proposed area.

3.2.2 Social Impact Assessment (SIA)

Basicly, the development of plantation area would affect the pentagon assets (Human capital, Natural Capital, Financial Capital, Social capital and Physical Cappital) in the surrounding area. Approach framework in this study of Social Impact Assessment was by learning the present existing condition in

PT IKB, particularly the condition which was related with socio-economic condition, socio-economic impacts of the company toward the surrounding the community, and the community's perception. Based on the existing condition, compilation and preparation was conducted for making SIA document and social management plan which contain activities that should be conducted to create ideal condition (desirable condition).

Sampling technique being used were purposive sampling (samples were selected on the basis of researcher's judgement which decided that those samples were the most suitable to be selected for the purpose and objectives of the research) and simple random sampling (technique of sample collection which gave the same chance for all population elements to be taken). With a participatory, multiparty, rapid ex-ante, appreciative and social-learning cycle approach.

The scope are restricted to the important impact, that considers the number of people affected, the distribution area of impact, duration of the impact, the intensity of the impact, and the number of Pentagon Assets component affected in the villages around the operational of PT IKB.



Secondary data or primary data being collected, were analyzed by integrating quantitative and qualitative method. Qualitative analysis emphasized more on description and illustration of various facts and relation between variables being found in the field.

The findings obtained from the methods above were analyzed. The baseline of the analysis was based on RSPO criteria which relevant to sustainable social aspects. The recommendations also covered other issues which were not entailed in the RSPO criteria, in the form of ideas or aspirations as the result of the field analysis.

3.2.3 HCV Assessment

<u>Toolkit</u>

- 1. The High Conservation Values Forest Toolkit (ProForest, 2003)
- 2. The High Conservation Values Toolkit in Indonesia
- 3. Common Guidance of the Identification of High Conservation Value (HCV Resource Network, 2013)

Materials and Equipment

Materials used in the identification and analysis include are : AMDAL document, protected areas master list, IUCN Red List of Threatened Species (www.iucnredlist.org), CITES Appendices I, II and III valid from 12 June 2013 (CITES, 2013), Government Regulation of Indonesia Number 7 1999 (PP 7 1999), A Field Guide to the Birds of Borneo, Sumatra, Java and Bali (MacKinnon & Phillips, 1993), The Mammals of The Indomalayan Region (Corbet & Hill, 1992), A Field Guide to The Snakes of Borneo (Stuebing & Inger, 1999), Panduan Lapangan Mamalia di Kalimantan, Sabah, Sarawak & Brunei Darussalam (Payne et al, 2000), The Ecology of Kalimantan (MacKinnon et al, 1996). Digital elevation model map and data (USGS, 2000), Land cover: Landsat 8 OLI Imagery, land system map (RePProt, 1989), topographical map (Rupa Bumi Indonesia map, BIG 1998), forest land use map (TGHK) and Map of Jelai-Kendwangan River (KemenPU, 2012).

Approach

The collection of data and field information focused on potential areas of HCV based on the results of the preliminary study. The emphasis of the collection of data and information aimed at the attribute or element of HCV, using a combination of several methods, namely:

- i) The participatory mapping, carried out in an integrated manner to all types of HCV (biodiversity, environmental services and socio-cultural),
- ii) Ground truthing, direct check in the field above the land cover interpretation of satellite imagery that has been done at the pre-assessment,
- iii) The data field collection, to verify the existence of the attributes or elements of HCV in the potential areas, and
- iv) Interview



3.2.4 Land Use Chang Analysis

PT IKB also conducted Land Use Change Analysis (LUCA) to ensure that there is no deforestation due to land development. Conducted concurrently with HCV Assessment in October 2015.

The assessment was conducted on some cut-off period refers to the procedure Remediation and Compensation RSPO:

- (i) November 2005 (Principles & Criteria is first applied),
- (ii) November 2007 (the deadline for the trial implementation of P&C RSPO),
- (iii) January 2010 (be in effective of the RSPO New Planting Procedure),
- (iv) May 2014 (be in effective of Procedure Remediation and Compensation RSPO), and
- (v) November 2015 (first time IKB do the HCV Assessment)

LUC Analysis was performed by four step, namely (1) Image Preprocessing, (2) Image Classification, (3) Field Verification, (4) The Compensation Scheme. Refer to the following flowchart:



From the resulty of LUCA, shown that there in no primary forest in the concession of PT IKB. Land cover from November 2005 until Januari 2010 dominated by shrub and open land. And at di end periode of HCV Assessment (November 2015), the land cover is dominated by palm oil and open land. Since all clearance in the areal IUP-B PT KB was demonstrated to be done by the local community as Non-corporate land clearance, PT IKB is not required to compensate for land cleared due to non-corporate clearance.

3.2.5 Carbon Stock Assessment

Before determines the area with High Carbon Stock, it needs to carry out the carbon calculations. Its take several steps including land cover analysis is strengthened with field survey. It is aimed for sampling of biomass and land cover verification the results of satellite image interpretation (ground truthing). Thereafter estimate and mapping carbon stocks. The entire process is shown in the following flowchart:



The study was conducted in two phases of work. The first phase of the High Carbon Stock (HCS) assessment focuses on the analysis of satellite imagery and field survey to produce a map showing the areas that have the potential as HCS area and also estimate carbon stocks in these areas. The second phase focuses on the separation of areas that are not classified as HCS, patch analysis in the area indicative HCS and HCS-setting area to be conserved and non HCS area that can be developed by the company.



Using the HCS Approach Toolkit Versio n 1.0: March 2015 (HCS Approach Steering Group, 2015), the assessment consist of land cover classification, carbon stock estimation, local community FPIC (FGD with community's representatives), and HCS area identification. HCS area identification is occurred according the steps in HCS Patch Analysis Decision Tree.



To determining the High Carbon Stock area we do a few disclamer, as follows :

- Land covers of PT IKB area are classified by Carbon Stock information occurred by field survey. The land cover classification consist of Degraded Land (0 – 40 TonC/Ha), Young Regeneration Forest (40 – 60 TonC/Ha), Low Density Forest (60 – 80 TonC/Ha), Mid Density Forest (80 – 100 TonC/Ha) and High Density Forest (>100 TonC/Ha).
- HCS identification of Priority Forest Patch is occurred to 6 step. (i) Risk Assessment (step 7), (ii) YRF with >10 Ha identification (step 8), (iii) Pre-RBA (step 9), and (iv) Rapid Biodiversity Assessment (step 10) are the steps needed to determine either the Patch is HCS or not.
- The whole area for HCS assessment are outside the HCV area by 349.93 Ha, and area was opened by community around for oil palm.

From the High Carbon Stock assessment and disclaimer as above, the ares that have been identified as HCS area on PT IKB is 148.32 Ha. The area is outside the potential land development plan by IKB, so PT IKB would only do socialization to the community.

4. Summary of Assessment Findings

4.1 Social Environment Impact Assessment

By the SEIA study the development of oil palm plantation and palm oil mill of PT IKB in Pangkalan Banteng and Kumai Subdistrict, Kotawaringin Barat Regency raises awareness of the environmental impact on the physical-chemical, biological, and social, economic, cultural and local public health, both positive and negative impacts. In the implementation of plantations development and palm oil mill of PT IKB, one aspect of which is the main consideration is the preservation of the environment, to ensure the sustainable development.

Plantation activities and palm oil mill was predicted to impact the environment, so it needs to be explored in depth including the four phases of activities: Pre-Construction Phase, Construction Phase, Operational Phase and Post-Operational Phase. Which each has potential environmental impacts as follows:

- a. Change of culture, Social Conflict and community dissatisfaction
- b. Job and business opportunitiesalso increment of community income
- c. Land fires potential
- d. Decreasing water quality and aquatic biota
- e. Soil destruction and increasing rate of erotion and sedimentation
- f. Decreasing number of flora and fauna biodiversity
- g. Community health problem

Magnitude and importance of the impacts that will be managed and monitored in the Environmental Management Plan and Environmental Monitoring Plan based on the results of the impact evaluation are: 1) Physical-chemical environment components include air quality, surface water quality, and forest fires potential; 2) Social culture and public health components including: social unrest, job and business opportunities, perceptions, local revenue and public health level.

Environmental management of the environmental components that are experiencing fundamental changes, both positive and negative as a effect of the Oil Palm Development plan of PT IKB to be

carried out in terms of the three approaches, are: technological, socio-economic-cultural and institutional.

The implementation of environmental monitoring carried out by PT IKB. The environmental monitoring reports will be submitted annually to the technical adviser of the government agencies.

4.2 Social Impact Assessment

CHARACTERISTICS OF THE SURROUNDING COMMUNITIES

For IKB's Social Impact Assessment, Akesenta takes samples in all of villages around IUP of PT IKB, which are 10 (ten) villages over Pangkalan Banteng and Kumai Sub-district.

In 2014, population both of Pangkalan Banteng and Kumai Subdistrict were 30,644 peoples, with the detail shown in the following table.

No.	Village	Width (km²)	Number of Peoples	Number of Families	Density (/(km²)
	Kecamatan Pangkalan Banteng				
1	Karang Mulya	15	4,184	1,116	279
2	Simpang Berambai	12	1,566	427	130
3	Natai Kerbau	65	1,596	417	25
4	Berambai Makmur		838	218	4
5	Mulya Jadi	38	674	183	18
6	Karang Sari	5	794	134	159
7	Sungai Pulau	4	497	215	124
	Kecamatan Kumai				
8	Kumai Hulu	18	7,901	1,695	439
9	Kumai Hilir	82	8,337	1,783	102
10	Sungai Bedaun	403	4,257	1,152	11
	TOTAL (2014)	642	30,644	7,340	48

Table 5. Distribution of Villager Around PT IKB

Social, Economic and Cultural Aspects

Ethnics and Culture

Local peoples were living around the area PT IKB is heterogenous, with native ethnic are Melayu, Banjar and Dayak, with Javanese, Bugis, Madura, Sunda and Flores as a migrant.

The majority religion are Islam, Catholicism and Protestantism The indigenous people in the study area is currently conducting traditional rituals Nyangar and Babarsih Banua which conducted once every 5 years. Latter, the activity was conducted in 2013.

<u>Livelihood</u>

The local community has not totally depends on natural resources; activities such as timber harvesting, fishing and hunting had almost not be done. Generally, local communities living as farmers (41%), palm oil farmers (80%) and there is also a rubber farmer. Some others besides taking care of thier own vineyard, are also working in the palm oil company that has been there before PT IKB.

Others livelihood as an entrepreneurs, merchant groceries, stalls, or restaurant, and also as FFB collectors and latex, harvesting contractors of palm oil, palm oil transport contractors and other businesses that support the activities of the plantation. Several peoples are still mining gold, but it diminishing due to the closure of the locations of illegal gold mining.

Economic Infrastructure

The infrastructure of roads that connects the villages in the Pangkalan Banteng sub-district have been built since transmigration program development in this area, although have not been fully paved. While in Kumai sub-district, Kumai Hilir villagers still use water transportation (speed boat or ketinting) to be able to reach the city district.

STRATEGIC ISSUES

Until this social impact assessment was carried out, the operational of PT IKB has not given changes to the pentagon asset elements in surrounding villages. This because of the interaction between PT IKB and communities are still limited to the socialization of company's operational. For any future projections, the company's operations would not have much affect the pentagon asset, because PT IKB has only 1,000 ha potential land to develop. The rest of land has been developed by the communities.

The rise issues are expected related to the population density and high level of land occupation, so PT IKB would have difficulty to acquiring the land for development. The majority people who are migrants, tend to maintain the land which is the only asset and source for their livelihood.

However, most people still support the operational of PT IKB, especially for the development plan of palm oil mill. It will give the positive impact to surrounding communities, raises the business opportunities (food needs, FFB transportation and others), as well palm oil mill of PT IKB will receive the FFB from people's plantation land.

CONCLUSION

1. The Characteristics of villages around PT IKB area is homogeneous, except Kumai Hulu village who already be a semi-town. These villages have a similar and equal pentagon asset. In general, the level of welfare migrants is quite well by supported from the business sector oil palm and rubber.

- 2. The social conditions around the PT IKB is very conducive. Communities that depend on the oil palm are tolerant and open with an adequate level of education, which is a good factor for impartial communication and partnership.
- 3. There are no social risks faced by the Company from the public side. The risks only come from the technical aspect, namely the low land for acquisition so it is difficult to develop the plantation.
- 4. Based on the phases of palm oil plantation management and social conditions, there are four parties of key stakeholders, namely: the owner of a large area, Heads of the local village where land acquisition will be done, villagers where the palm oil mill will be built and the villages which will be in partnership.
- 5. The existence and operation of PT IKB potentially have a positive impact for the local community, especially to financial capital. There are two potential positive impacts, the direct impact on increasing the economic value of society's palm oil plantation and indirectly impact is increasing of business opportunities.
- 6. Strategic management of the social aspect of PT IKB directed to the following main problems: Settling Plasma development issues, CSR programs and communications with stakeholders issues.

4.3 HCV assessments

Physical Condition

Concession area of PT IKB is on Kumai and Sekonyer river watershed area. The rivers cross through the concession area at about 9 rivers and streams, which is a periodic stream of small water discharge, or even none on the dry season.

Based on Schmidt and Ferguson's classification climate, the area of assessment is classified as type A (wet areas or tropical rain forest) with the average annual rainfall is > 100 mm/month and yearly temperature range between 25° C - 27° C.

Concession area of PT IKB is at altitude < 50 m above sea level. Based on the slope map, topography of PT IKB is flat on level 0-8%. Physiographic forms of land at the location the study divided into two: (i) floodplains (Kajapah land system; 19%) were found in the Southern; (ii) the alluvial valley (Bawin; 81%) and (iii) tidal swamps, RePPProt 1990, both located in the Northern. Soil types in land systems tidal land are Tropohemist and Fluvaquents spreads at the Southern, and Tropudults, Dsytrudepts & Pssaments spread at the Northern.

Biological Condition

<u>Flora</u>

Study of flora in the context of HCV identification is carried out using the types of ecosystems that exist in the area of PT IKB, and the types of ecosystems that exist around. It is based on the consideration that the natural flora species does not grow individually with the specific needs of a growing, but the formation of forest stands dominated by the formation of certain species. Therefore, if flora is found with high conservation value, the approach of it's safeguard is not appropriate by species or per habitat for each species, but it should approach identify and conservation of entire ecosystems.

<u>Fauna</u>

The number of fauna which found in the concession area of PT IKB is an amount of 102 species with details: a total of 23 mammals, 66 birds/ Aves, 13 reptiles and amphibians.

Two species of mammals and 1 species of bird are an endemic species of Kalimantan. The animals species that included in the IUCN Red List at amount 9 species; 7 species on VU/ Vulnerable and 2 species on EN/ Endangered. 7 Species of mammals, 6 of reptiles and 5 on birds listed ats the CITES, while 6 species of mammals and 9 of birds categorized as protected species under Indonesian Regulation (UU No. 5/1990 and PP. 7/ 1999). As showed in Table 5.

				Sta	tus	
No.	Scientific Name	Indonesian Name	Endemic	IUCN	CITES	Indonesian Regulation
А	Mammals					
1	Pongo pygmaeus	Orangutan Kalimantan	E	EN	App. I	AB
2	Nasalis larvatus	Bekantan	E	EN	App. I	AB
3	Presbytis rubicunda	Lutung merah, Klasi	-	-	App. II	AB
4	Macaca nemestrina	Beruk	-	VU	App. II	-
5	Macaca fascicularis	Kera Ekor-panjang	-	-	App. II	-
6	Prionailurus bengalensis	Kucing Hutan	-	-	App. II	AB
7	Aonyx cinerea	Sero ambrang	-	VU	App. II	-
8	Sus barbatus	Babi Berjenggot	-	VU	-	-
9	Tragulus javanicus	Pelanduk, Kancil	-	-	-	AB
10	Lariscus insignis	Tupai Tanah	-	-	-	AB
В	Aves					
1	Haliastur indus	Elang Bondol	-	-	App.II	AB
2	Nisaetus cirrhatus	Elang Brontok	-	-	App.II	AB
3	Elanus caeruleus	Alap-alap Tikus	-	-	App.II	AB
4	Loriculus galgulus	Serindit Melayu	-	-	App.II	-
5	Psittacula longicauda	Betet Ekor-panjang	-	-	App.II	-
6	Alcedo meninting	Raja-udang Meninting	-	-	-	AB
7	Pelargopsis capensis	Pekaka Emas	-	-	-	AB
8	Setornis criniger	Empuloh Paruh-kait	-	VU	-	-
9	Rhipidura javanica	Kipasan Belang	-	-	-	AB
10	Hypogramma hypogrammicum	Burungmadu Rimba	-	-	-	AB
11	Anthreptes simplex	Burungmadu Polos	-	-	-	AB
12	Arachnothera Iongirostra	Pijantung Kecil	-	-	-	AB
13	Lonchura fuscans	Bondol Kalimantan	E	-	-	-
С	Reptiles					
1	Cuora amboinensis	Kura-kura Ambon	-	VU	App. II	-
2	Siebrenkociella crassicolis	Kura-kura Pipi-putih	-	VU	App. II	-
3	Varanus salvator	Biawak Air	-	-	App. II	-
4	Python reticulatus	Sanca Kembang	-	-	App. II	-
5	Naja sumatrana	Ular Sendok / Kobra	-	-	App. II	-
6	Ophiophagus hannah	Ular King Cobra	-	VU	App. II	-

Table 5. Wildlife Species Richness in the Concession Area of PT. IKB Based on It Status

Note :

- IUCN (2015): CR = Critically Endangered (kritis, mendekati kepunahan), EN = Endangered (terancam punah), VU = Vulnerable (rentan);
- CITES: App. I = CITES Appendix I, App. II = CITES Appendix II;
- Indonesian Regulation: A = Undang-undang No. 5 year 1990; B = Peraturan Pemerintah No. 9 tahun 1999

Environmental Services Aspects

Areas or ecosystem found in the concession area of PT. IKB is the cultivation mozaics and forest regrowth. Mangroves are found at the edge of the Kumai River, and Peat Swamp Forest in lowland areas.

Practically, the existence of HCV 4 area related to the hydrological functions of the region that have significant value as: (i) the catchment area and flood control; (ii) area of erosion control and sedimentation; and (iii) an area that provides a barrier against destructive fires. From three of that, only function of natural firebreaks (barriers) elements are not found in the area of PT IKB.

Based on field observation and review on existing maps show that area of High Conservation Value Area (HCVA) which to be planned in the area of palm oil plantation PT IKB is 349.9 hectares, with details in Table 6.

No Indeks	Deskripsi	Tipe HCV	Luas (ha)
1	Hijau River (wide 5-6m), fluctuating debit, dried on dry season. Land cover on upstream are palm oil, and on downstream used for community needs, so it necessary to be revegetated,	HCVMA	2.2
2	Buaya River (Upstream, wide 2-3m), fluctuating debit, dried on dry season. Upstream: old grove fragment, Downstream (towards Sekonyer River): plam oil. Serve as water catchment and flood control area.	4.1	3.6
3	Serdadu River (wide 2-3), fluctuating debit, dried on dry season. Upstream at area of PT IKB, land cover : palm oil. Need to be revegetated.	HCVMA	15.8
4	Berambai River (wide 2-3m), fluctuating debit, dried on dry season. Upstream at Belibis Lake, with land cover of riparian are palm oil plant. Serve as water catchment area.	HCVMA	6.1
5	Belibis Lake, with natural swamp vegetation. A feeding grounds and refuge for grouse (Burung Belibis). Serve as water catchment and flood control area.	1.4 4.1	1.1
6	Bandit River (wide: 3-5m). Upstream at Natai Kerbau Village, serve as water catchment area and need to be revegetated.	4.1	1.8

Table 6. Identification and Analysis Results of HCV 7 HCV Management Areain the Concession Area of PT IKB, Central Kalimantan Province

No Indeks	Deskripsi	Tipe HCV	Luas (ha)
	Fragments of peat swamp vegetation around Pulai River.	1.4	
	Land cover: old grove – highly degraded of secondary	3	
7	forests. This fragment is a habitat for several species of	4.1	57.1
	wildlife, rare ecosystems and the water catchment areas	4.2	
	Fragments of peat swamp vegetation around Buava	1.4	
	River. Land cover: old grove – highly degraded of	3	
8	secondary forests. This fragment is a habitat for several	4.1	101.6
	species of wildlife, rare ecosystems and the water	4.2	
	catchment areas and erosion control		
	Mangrove is still natural, but not the primary. Mangrove	1.2	
	is habitat for Bekantan and Orangutan track area, rare	1.3	
٩	ecosystems, sedimentation control area as well as flood	1.4	40 5
	control.	3	+0.5
		4.1	
		4.2	
	Riparian of Tengkawang Kecil River (buffer 20m), natural	1.2	
	vegetation (Mangerove), but not primary. This area are	1.3	
10	the rare ecosystem, habitat for Bekantan, Orangutan	1.4	6.0
	track area, sedimentation and flood control area.	3	
		4.1	
	Mangrove at Diparian of Kumai Diver (huffer 100m)	4.2	
	natural vegetation but not primary. Serve as rare	1.2	
	acosystem habitat for Bekantan Orangutan track area	1.5	
11	sedimentation and flood control area	3	20.1
	Scamentation and nood control area.	4.1	
		4.2	
	Fragments of mixed vegetation between Nipah swamp	1.2	
	forest and Mangrove. Land cover: old grove – highly	1.3	
12	degraded of secondary forests. This fragments area rare	1.4	76 7
12	ecosystem, habitat fo Bekantan, Orangutan track area,	3	/6./
	sedimentation and flood control area.	4.1	
		4.2	
	Riparian of Rokok Besar River (buffer 20m), natural	1.2	
	vegetation but not primary. This area are rare	1.3	
13	ecosystem, habitat for Bekantan, Orangutan track area,	1.4	15.1
	sedimentation and flood control area.	3	
		4.1	
-		4.2	
	Riparian of Rokok Kecil River (buffer 20m), natural	1.2	
	vegetation but not primary. This area are rare	1.3	
14	ecosystem, habitat for Bekantan, Orangutan track area,	1.4	2.5
		5 Д 1	
		4.1	
Total of	HCV Area (ha)	··	349.9
Precenta	age of HCV Area by IUP-B PT IKB (%)		6.1



Picture 4. HCV Map in the Concession of PT IKB, Central Kalimantan Province

Internal Responsibility

Formal signing off by assessors and company

This document is the summary of assessment result on Environment Impact Assessment (EIA), Social Impact Assessment (SIA), High Conservation Value (HCV), Land Use Change (LUCA) and High Carbon Stock (HCS) in PT IKB – Kotawaringin Barat Regency, Central Kalimantan Province and has been approved by the Management of PT IKB

Gagas Dinamiga Aksenta



Resit Sözer Team Leader HCV & SIA Date: 30 May 2016 Management PT IKB,

<u>Sri Hartono</u> General Manager of PT IKB Date: 30 May 2016

Statement of acceptance of responsibility for assessment

Assessment result document of PT IKB by Gagas Dinamiga Aksenta (Aksenta) will be applied as one of the guidelines in managing palm oil plantation in PT IKB

Management PT IKB, Sri Hartono

General Manager of PT IKB Date: 30 May 2016 **Appendix 1** List of prevailing applicable regulations and some supporting guidelines which used as references in the identification process of HCV and SIA study.

No	List / Type of Reference	Details
1.	Status of vulnerability according to the World Conservation Union (IUCN), 2009	CR : Critically Endagerd EN : Endangered VU : Vulnerable NT : Near threatened
2.	Status in terms of trade of world's wild fauna and flora (CITES), 2009	App. I: list of all plants speciesand animals which are prohibited to beinternationally traded by any means.App. II: list of species thattrading required rules to diminish thethreats of extinction.
	RI State Legislation (Acts):	
	1931 Dierenbeschermings Ordinance (Wild Animals	Wildlife protection
	1970 Decree of Minister of Agriculture, No. 421/Kpts/Um/8/1970	Wildlife protection
	1973 Decree of Minister of Agriculture, no 66/Kpts /Um / 2 / 1973	Wildlife protection
3.	1977 Decree of Minister of Agriculture, No. 90/Kpts/Um/2/1977	Wildlife protection
	1978 Decree of Minister of Agriculture, No. 327 / Kpts/Um/5/1978	Wildlife protection
	1979 Decree of Minister of Agriculture No. 247 / Kpts/Um/4/1979	Wildlife protection
	1980 Decree of Minister of Agriculture, No. 716 / Kpts/Um/10/1980	Wildlife protection
	1999 Government Regulation No. 7 of 1999	Wildlife protection
	Government Regulation, PU 63/1993 PU	Determination width of the river
4.	Map of TGHK (Forest Land Use Agreement) and government's official documents concerning the appointment status of forest areas.	To determine the status of an area whether or not in the protected areas.

Appendix 2 List of Stakeholders Involved

No	Nama	Remarks	Ethnics
1	Zaini	Masyarakat Kumai Hulu	Melayu
2	Haji Salman	Masyarakat Kumai Hulu (Pemilik Kebun Kelapa	Melayu
		Sawit di Izin Lokasi PT IKB)	
3	M. Jauhari	Masyarakat Kumai Hulu (Staf PT IKB)	Melayu
4	Gogot	Perangkat Kelurahan Kumai Hulu	Jawa
5	Hidayat	Perangkat Kelurahan Kumai Hulu	Melayu
6	M. Yani	Masyarakat Karang Sari (Penambang emas)	Banjar
7	Hadmat	Perangkat Desa Sungai Sekonyer	Melayu
8	M. Arsyat	Perangkat Desa Sungai Sekonyer	Melayu
9	Fadri	Masyarakat Sungai Sekonyer	Melayu
10	Zais	Masyarakat Sungai Sekonyer	Melayu
11	Imam Sutakim	Kepala Desa Sugai Pulo	Jawa
12	Marsani	Masyarakat Natai Kerbau (Petani Kelapa Sawit)	Jawa
13	Safwan	Masyarakat Sungai Pulo (Petani Karet)	Jawa
14	Usman	Masyarakat Desa Sungai Bedaun (Petani Kelapa	Madura
		Sawit)	
15	Abdul Gani	Masyarakat Desa Sungai Bedaun (Petani Kelapa	Flores
		Sawit)	
16	Junai	Masyarakat Desa Sungai Bedaun (Petani Kelapa	Madura
		Sawit)	
17	Abdul Karim	Masyarakat Karang Sari (Pemburu)	Jawa
18	Risnanto	Kepala Desa Karang Sari	Jawa
19	Imam Maarif	Kepala Desa Mulya Jadi	Jawa
20	Hidayat	Asisten Kepala Sustainbility BGA	Jawa
21	H. Abdur Rahim, SiP	Lurah Kumai Hulu	Melayu
22	H. Basyir	Masyarakat Desa Sungai Bedaun (Pengusaha Lokal)	Madura
23	Ery Yustian	Staf PT ASMR	Jawa
24	Widiatmoko Tri Raharjo	Kasi Pelayanan Umum Kecamatan Pangkalan	Jawa
		Banteng	
25	Surono	Staff Kecamatan Pangkalan Banteng	Jawa
26	Selamet Sutarso	Mantan Kepala Desa Karang Mulya	Jawa
27	Sumari	Masyarakat Natai Kerabau (penambang emas)	Melayu
28	Abdulrahman	Masyarakat Sungai Pulo (Petani kelapa sawit dan	Jawa
		buruh)	
29	Haji Ramli	Masyarakat Kumai Hulu (Pemilik Lahan)	Melayu
30	Syahrir	Masyarakat Kumai Hulu (Nelayan)	Melayu

Appendix 3 Stakeholder Consultation on HCV Assessment

FOR	M – PROJ – 02F	DAFTAR H PUBLIC CONSU		AKSENTA accentuate life
Nar Lok Ase	na PT : <u>MINVESTA KA</u> kasi : <u>PANGKALAN Bu</u> esmen : <u>HCV</u>	RYA BHAKTI	Tanggal : Waktu :	28 NOVEMBER 2015 10.00 - SELESAI
No	Nama	Bagian/Jabatan	Alamat dan Nomor Kontak	Tanda Tangan
	Holquat Aprilmeto	13617 1-10	7KT 001250870595	()al 18/2
	Kaopuran 5	UK BS	P.Bun 082152898686	All them
	Masrun Abdullah		Kuman 081250893223	nor du
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	74/01/21		1	Aksenta
RM	- PROJ-02F	DAFTAR H PUBLIC CONSU	ADIR	Aksénta accentuate life
RM	- PROJ - 02F	DAFTAR H PUBLIC CONSU Bagian/Jabatan	ADIR JLTATION Alamat dan Nomor Kontak	Aksenta accentuate life
RM	- PROJ - 02F Nama	DAFTAR H PUBLIC CONSU Bagian/Jabatan	ADIR JLTATION Alamat dan Nomor Kontak N. Karbale, 0852 4741 2062	Aksenta accentuate life Tanda Tangan
RM	- PROJ-02F Nama SUWARMI PLO SURINFITO	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT 12108 S.	ADIR JLTATION Alamat dan Nomor Kontak N.Karbas, 0852 9791 2062 M. Love Karg	Aksenta accentuate life Tanda Tangan
RM	- PROJ-02F Nama SUWARMI ELLO SURIUFITO. (SELINBIRING	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LEDIES. WARA POLSEIC KUMAT	ADIR JLTATION Alamat dan Nomer Kontak N.Karbas, 0852, 9791 2062 M. LOV KING POLSEK KUMAI 08125149181	Aksenta accentuate life Tanda Tangan
RM	- PROJ-02F Nama SUWARMI ELLO SURIUFITO S. SEIM BIRING BURHANUDOIN GREASCH	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT ILDES IT ILDES WAKA POLSEIK KUMAN EM. IKB/AGMR	ADIR JLTATION Alamat dan Nomer Kontak N:Karbale, 0852, 9791 2062 M. LOVERNY PO(SEK VAUMAI 08125149181 KUMAI EARCHNG	Aksenta accentuate life Tanda Tangan High Rama
RM D	- PROJ-02F Nama SUWARMY ELLO SURINFITO. S. SEIN BIRING BURMANUDEIN PARAGH AMUR	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LEDES IT LEDES WARA POLSEIC KOUMAN EM. IKB/ARMA AKEMAT	ADIR JLTATION Alamat dan Nomor Kontak N. Karbau, 0852, 4741 2062 M. LOV KAMU POLSEK VKUMAI (08125149181 KUMAI CHERAKG 081212918166	Aksenta accentuate life Tanda Tangan Jhizi Ra Marina Aria
D D	- PROJ-02F Nama SUWARMI ELLO SURIUFITO. S. SEIN BIRING BURNANUDOIN GARAGUA AMUR MUR MUR	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LEDOS. WARA POLSEIC KUMAN EM. IKB/ARMA AKCMMY AKSOMA	ADIR JLTATION Alamat dan Nomer Kontak N.Karbau, 0852:47412062 M. LOV FMU POLSEK VAUMAI /08125149181 KUMMI ZAZZANG OB12129155 081261933995	Aksenta accentuate life Tanda Tangan Thiệt Roman Ang Mangan Ang Mang Mangan Ang Mang Mangan Ang Man
D	- PROJ-02F Nama SUWARDY ELLO SURIUFITO S. SEIN BIRING BURHANUDOIN PARAGH ANDA MUCA MUCA	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDES. WAKA POLSEIC KUMAN EM. IKE/AMA AKCMAN AKSON M	ADIR JLTATION Alamat dan Nomer Kontak N:Karbau, 0852,9791 2062 M. LOV FM4 POLSEK KUMAI /08125149181 KUMAI @HERAKG 0812129181 66 081212937995	Aksenta accentuate life Tanda Tangan Hizt Roman Alaria
D	-PROJ-02F Nama SUWARMY ELLO SURIUFITO. S. SEIN BIRING BURNANUDOIN CARAGUA ANDA Yudha	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LEDES IT LEDES WARA POLSEIC KOUMAN EM. IKB/ARMA AKCUMA AKSON M	ADIR JLTATION Alamat dan Nomor Kontak N.Karbau, 0852, 4741 2062 T. LOV HAMA POLSEK VENNAI 08125149181 KUMAI BARANG OB1212418166 O81261933995	Aksenta accentuate life Tanda Tangan Jhizi Roman Au
0	- PROJ-02F Nama SUWARMY ELLO SURINFITO. S. SEIN BIRING BURNANUDOIN CARAGUY ANLA MULA MULA	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDES. WARA POLSEIC KUMAN EM. IKB/AMAR AKCMAL AKCMAL AKSANA	ADIR JLTATION Alamat dan Nomer Kontak N.Karbau, 0852, 9791 2062 M. LOV FMU POLSEK KUMAI /0812514918 KUMMI EARCHNG OB1212918166 081261933995	Aksenta accentuate life Tanda Tangan Thigi Barrier And Barrier And
D	- PROJ-02F Nama SUWARMY ELLO SURINITO. S. SEIN BIRING BURNANUDEIN CARAGHY ANDA MUCA MUCA	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDES IT LIDES WAICA POLSEIC KUMAN EM. IKE/AMAR AKEMAN AKEMAN	ADIR JLTATION Alamat dan Nomor Kontak N. Karbau, 0852, 4741 2062 M. UOV KAMU POLSEK VKUMAI (08125149181 KUMAI CHERAKG OB1212918166 081212937995	Aksenta accentuate life Tanda Tangan Jhizi Roman Au
D	-PROJ-02F Nama SUWARMI ELLO SURIUFITO. S. SEIN BIRING BURNANUDOIN GREASCH ANDA MUCHA	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDOS. WARA POUSEIR KUMAN EM. IKB/AMAR AKCMMA AKCMMA AKSANA	ADIR JLTATION Alamat dan Nomor Kontak N. Karbale, 0852, 9791 2062 M. UON KIMU POLSEK KUMAI /08125149181 KUMMI EARCHARG OB1212915 081261933995	Aksenta accentuate life Tanda Tangan Thig
D	- PROJ-02F Nama SUWARMY ELLO SURINITO S. SEINBIRING BURNANUDEIN OMAGUN MULA MULA MULA	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDES IT LIDES WAKA POLSEIC KUMAT EM. IKB/AMAR AKCUMT AKSANA	ADIR JLTATION Alamat dan Nomer Kontak N:Karbau, 0852:47412062 M. LOV KMU POLSEK KUMAI /08125149181 KUMAI EARCHAG O81212418166 081261933995	Aksenta accentuate life Tanda Tangan Thiệt R May Ar
RM D	- PROJ-02F Nama SUWARMY ELLO SURIULITO. S. SEIN BIRING BURNANUDOIN GARAGUA MUQ MUQ MUQ	DAFTAR H PUBLIC CONSU Bagian/Jabatan ICADES IT LIDES IT LIDES WARA POUSEIR KUMAN EM. IKB/AMAR AKEMAT AKSON A	ADIR JLTATION Alamat dan Nomor Kontak N. Karbale, 0852, 4741 2062 T. UOV HAMA POLSEK VENNAI /08125149181 KUMMI EARCHER 081212418166 081212418166	Aksenta accentuate life Tanda Tangan Jhizi Roman Au





Appendix 4 Participatory Mapping on HCV Assessment

		DAFTAR H PEMETAAN PAR	DAFTAR HADIR PEMETAAN PARTISIPATIF	
Nama PT IKB Lokasi Dela Karang Sa Asesmen MCV , SIA , LU		Sati UCA, CSA elan HCS	Tanggal 23 November 2015 Waktu 16 40	
No	Nama	Bagian/Jabatan	Alamat dan Nomor Kontak	Tanda Tangan
Hidayar	A	Sustanaby HO	081250870599	DA ()
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Kumuawan.s.		Kasie	682152838 686	Hour for
M. DAUHARI		PAD	082139111199	-P
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Vici . W.M		AQC.	087307326429.	Chang Vi
Masruni Abdullah		PAD	08 1250 893223	h- h-
M. Magetsari		SIA AKSENTA	0 81 2202 81102	Adir
Risa Desiana Syaril		LUCA Absenta	0853 (2229227	a Kulda

DAFTAR HADIR PEMETAAN PARTISIPATIF			Aksénta
Resil- Pozer	HCV AUSENTA	081563124331	Also -
IKHWAN A	CSA AKSENTA	08131130 8557	4287 1
Aulia B.M.	Hev Aksenty	02121291816G	AL
Yudha Ulfama	CSA Aksenta	081261933995	11 Ano
Rega A	HEV AFSENTA	085781987 987	Mi M
T. ADE PACHLENI	Hau AKSENITA	003260 333259	(a Dos
Heidei Putra H.	CSA AUSENTA	085641209311	- X Fin
Ryan Kp	CSA AKSENTA.	085219393329	Dute
NOOR PARHMAT	STA ATKSENER	081573736033	- Awill .



