Annex 4.1. East Kalimantan Emission Reductions Program - Results Chain

Project Objective (PO): To strengthen the landscape management capacity of the provincial and local governments of East Kalimantan to reduce land based GHG emissions and to support East Kalimantan's transition to a low carbon economy KALTIM GREEN

----------Project Implementation---------- **----------Project Results----------**

---------(Monitored by Project Output Tracking System/Work Plan)---------- **----------(RESULTS Monitoring)----------**

Components/Sub-components	Project Activities (INPUTS)	Output Indicators	Intermediate Outcome Indicators	Project Outcome Indicators
	Activities needed to produce the project outputs	*Goods and Services the project will deliver*	*Access to, use of, and satisfaction with services provided*	
Component 1: **Forest and Land Governance** **1.1. Strengthening the licensing regime** *Revoking overlapping and non-clean and clear permits, and enforcing the licensing moratorium* *Improving policy on transparency and access to information about licensing* *Facilitating Social Forestry licenses*	1) Facilitating enforcement of revocation of non-clear-and-clean) mining permits 2) Reviewing permits on forestry, mining and estate crops 3) Enforcing and monitoring of the implementation of the licensing moratorium (Governor Regulation 1/2018)	1) Governor decree on revoking mining permits issued 2) Number of permits reviewed (forestry, mining and estate crops) 3) Number of permits reviewed for overlapping policy implementation on licencing moratorium and RIL	1) **Number and type of revised, coordinated provincial regulations on ER compliance in the sectors of forestry, mining, fishery and estate crops) *(target: 13-4 regulations & decrees)*** **2) Percentage of existing forestry, mining and estate crops licenses reviewed are in compliance with current laws & regulations on**	**PO indicator 1: Number of tons of CO_2 emissions from deforestation and forest degradation reduced in project areas as compared to the measured REL/RL)** **PO indicator 2:** **Forest area under improved SFM management and reduced carbon emissions practices (ha)** **PO indicator 3:**

	4) Strengthening Information, Management and Documentation Officers in transparency of licensing process 5) Identifying and facilitating permits for social forestry 6) Verifying social forestry licenses 7) Facilitating the acceleration of social forestry licensing	4) 1 standard operational procedure on licensing transparency issued 5) 1 regulation about village spatial planning guidelines developed 6) 1 regulation about village development planning guidelines 7) Number of new social forestry permits issued 8) Number of social forestry permits verified (in 50 villages) 9) List of settlement of land conflicts in forest areas	**sustainable forest management** **3) Percent of mining companies in compliance with CnC criteria (baseline 43%)** **4) Percent of area with TORA allocation verified on tenurial conflict(** *according to Land object of agrarian reform/TORA*)	**Number of project beneficiaries (percent of which female)**
1.2. Dispute Settlement *Settlement of existing land tenure disputes* *Development of a policy on cross-sectoral dispute settlement*	8) Strengthening the regulatory framework for conflict resolution 9) Verifying tenurial conflict in support of the agrarian reform program (TORA) 10) Strengthening institutions for complaints and dispute settlement related to environmental and forestry cases 11) Facilitating policy development for cross-sectoral dispute settlement	10) Ministerial decree on social forestry licenses and tenurial conflict (Land objective of agrarian reform/TORA) 11) Standard Operational Procedure on issuance of Social Forestry licenses for communities completed 12) Number of complaints on REDD+ governance recorded and responded to 13) 1 governor regulation on dispute settlement	**5) Area under social forestry licenses (ha) (Target: 660, 000 ha)** **6) Percentage of forest concessions(for logging,mining, palmoil development and other uses) issued annually are published in online publicly accessible database (PPID Kaltim website)**	

1.3. Support for the recognition of adat land *Participatory mappings in 200 villages* *establishment of adat communities*	12) Facilitating participatory mapping for adat recognition 13) Training on participatory mapping for adat recognition 14) Implementation of participatory mapping for adat recognition that is incorporated with the ER Program 15) Facilitating the establishment of adat communities (institutions)	14) 200 villages received training on participatory mapping for adat recognition 15) Adat maps are integrated with ER Program 16) Adat communities (institutions) are facilitated	**7) Percentage of the REDD+ complaints/grievance and cross sectoral disputes resolved and disclosed in the publicly accessible web database (Law enforcement website under MOEF)** **8) Number of villages incorporating village spatial and village development plan with ER Program (target 150 villages in 7 districts)**	
1.4. Strengthening village spatial planning *Technical support for Village Low Emission Development Planning*	16) Facilitating the development and implementation of village spatial planning guidelines/regulations 17) Facilitating the development and inmplementation of village development planning guidelines/regulations 18) Facilitating the preparation of village spatial and village development plans which are in line with the ER Program 19) Training to support Kampung iklim (green villages) - spatial and development planning	17) Number of villages with prepared village spatial plan development (target: 150 villages in 7 district) 18) Number of village communities received training on Kampung iklim (green villages) - spatial and development planning (150 villages in 7 district) 19) Number of villages received training on Village Information System integration with climate change 20) Number of villages with Village	**9) Number of Villages with operational Village Information System integrating Climate Change**	

	20) Implementation of village spatial and village development plans that are incorporated in the ER Program 21) Training on a village Information System that addresses climate change 22) Implementation of the Village Information System 23) Village forest patrolling 24) Training on Community Based Forest Fire management 25) Facilitating the implementation of fire management activities by communities	Information system integrating Climate Change issues 21) Number of villages received training on Community Based Forest Fire management		
<u>Component 2:</u> **Improving forest supervision and administration** **2.1. Strengthening management capacity within the State Forest Area: FMU Development** *Support for FMU management planning and business development* *Capacity building for FMUs for supervision,*	1) Facilitating the development of FMU annual work plans 2) Improving the facilities of the FMU Center 3) Improving standard operational procedures for FMUs	1) Number of FMUs with approved work plans 2) Number of operational (*operational defined as long term management /business plans developed and staffed*) FMUs are in place in the province (new	**1) Percentage of area under forest management licenses (ha)** **2) Percentage of forest area demarcation process completed (baseline: 70% - target 100%)**	

social forestry, and forest fire control *Demarcation of FMU and forest utilization boundaries*	4) Training on the development of annual work plans and business plans 5) Training on Forest Fire Prevention for FMUs and communities 6) Training on RIL and SFM for FMUs 7) Training on HCV for FMUs 8) Training on conflict early warning system 9) Facilitating the implementation of defined boundaries and forest utilization blocks of FMUs 10) Strengthening capacity of FMUs for business and marketing (entrepreneurship training) 11) Facilitating FMU business development 12) Development of a manual for standardized FMU monitoring of HCV policy implementation 13) Development of a manual for standardized FMU monitoring of RIL policy implementation 14) Facilitating and monitoring the implementation of	or/existing) (target: 21 FMUs) 3) The FMU Center in Samarinda is fully staffed and equipped for coordination of FMUs 4) Standard operational procedure for FMU developed 5) Number of FMU staff trained on workplan and business plan development 6) Number of FMU staff trained on Forest Fire Prevention in 21 FMUs and community 7) Number of FMU staff trained on RIL and SFM in 17 FMUs 8) Number of FMU staff trained on HCV in 15 FMUs 9) Number of FMU staff trained on conflict early warning system in 20 FMUs 10) Number of FMUs developed their boundary Maps (target: 20) 11) Number of FMU staff trained on entrepreneurship and marketing skills	**3) Number of FMUs with at least 15% of their income from own (sustainable management) enterprises (target: 5 FMUs)** **4) Percentage of district level forest concessions/timber plantation implementation supervised by FMUs for compliance of RIL and HCV policies** 5) **Percentage of forest concessions/timber plantations in compliance with RIL/HCV practices** **6) Percent of communities implementing Forest Fire Management Plans (target 120 villages in 3 districts)**	

	FMU Social Forestry programs 15) Facilitating and monitoring the implementation of RIL and SFM on forest concessions by FMUs 16) Facilitating and monitoring the implementation of HCV policies on timber plantations by FMUs 17) Implementing Forest Fire prevention and Control by FMUs and communities 18) Improving community - based Forest Patrolling	12) Number of enterprises established in the FMU 13) Number of FMUs with the manual for standardized monitoring of HCV policy and printed and disseminated 14) Number of FMUs developed the manual for standardized monitoring of RIL policy and printed and disseminated 15) Number of FMUs monitoring/supervising Social Forestry licenses 16) Number of FMUs monitoring/supervising forest concessions for RIL/SFM implementation 17) Number of FMUs monitoring/supervising Timber plantation concessions for HCV implementation		
2.2. Strengthening provincial and district government to supervise and monitor implementation of sustainable Estate Crops *Strengthening government to supervise and monitor implementation of Sustainable Estate Crops*	19) Declaration of commitment by the government and private companies at the district level to implement sustainable estate crops 20) Facilitating and monitoring the	18) 7 district level commitment declarations from private companies to implement sustainable oil palm and manage HCV 19) Number of communities equipped		

	implementation of HCV in estate crop areas 21) Training on HCV management for the Estate Crops Service 22) Training ISPO for the Estate Crops Service 23) Facilitating consultations between and within local government (province and district governments) and private companies 24) Technical assistance to the private sector for the implementation of sustainable estate crop commitments 25) Technical assistance to district governments for the implementation of sustainable estate crop commitments	and trained for fire prevention and control 20) Number of communities with Forest Fire Management Plans with support from FMUs 21) Number of communities provide patrolling with FMUs 22) Stakeholder Workshop on RIL/SFM policy (IUPHHK-HA) dissemination/training conducted for forest concession holders 23) Stakeholder Workshop on HCV policy (IUPHHK-HT) dissemination /training conducted for industrial timber plantation managers 24) Number of forest concession holders trained on implementation of RIL/SFM policy (IUPHHK-HA) 25) Number of HCV management staff trained on implementation of HCV policy (IUPHHK-HT) 26) Feasibility assessment on incentives for adoption of RIL/HCV practices		

		27) Number of ground checks conducted to private sector of Fire Prevention and Control by Concession and community		
<u>Component 3:</u> **Reducing deforestation and forest degradation within licensed areas** **3.1 Implementation of HCV policies for oil palm estates** *Private sectors commitment on sustainable estate crops* *Implementation of HCV management by estate crop companies*	1) Technical assistance to estate crop companies for complying with ISPO principles 2) Technical assistance to estate crop companies for improving productivity 3) Technical assistance to the private sector for the implementation of forest fire prevention and control 4) Consultation and discussion between estate crop companies with relevant stakeholders (including communities) for agreeing on commitments for the implementation of sustainable estate crops 7) Developing Prototype Initiative Model "Partnership System in	1) Number of annual supervisions to estate crops by the estate crop services staff 2) Number of estate crops service staff trained on implementation of HCV (target: 100 estate crops by 2024) 3) Number of estate crops services staff trained on ISPO (Indonesian Sustainable Palm Oil) 4) Number of companies with signed Commitment declaration between government and private sectors' at district level to implement sustainable estate crops 5) Number of large companies developed the Prototype Initiative Model "Partnership	1) **Number of estate crop companies monitored/supervised for the commitments of sustainable estate crop implementation** **2) Percentage of estate crops are in compliance with HCV policy** **3) Percent of oil palm plantations compliant with ISPO/RSPO Guidelines** **4) Percentage of small holder companies with ISPO certificate** **5) Percent of estate crop companies implementing "prototype Initiative model -Partnership System in controlling forest and land fires"**	

	controlling forest and land fires" for large companies 8) Training on community-based land fire prevention and control for estate crop companies and and communities near estate crop areas 9) Implementation of land fire prevention and control by estate crop companies 10) Training on HCV management for the private sector (estate crops) 11) Implementing of HCV management by estate crop companies 12) Technical assistance to smallholders in complying with ISPO principles	System in controlling forest and land fires" 6) Number of estate crops trained on community based land fire prevention and control 7) Number of estate crop companies received technical assistance on forest fire prevention and control		
3.2. Support for Small holders and Fire Prevention *Implementation of Land Fire Prevention and Suppression by smallholders* *Implementation of Land Fire Prevention and Suppression within oil palm estates*	13) Implementation of ISPO by smallholders 14) Technical assistance for smallholder land fire prevention and control 15) Training on community- based land fire prevention and control for smallholders 16) Providing equipment for smallholders for	8) Number of communities trained on land fire prevention and control surrounding estate crops area 9) Number of small holders received equipment on land fire prevention and control		

Supporting sustainable smallholder Estate Crops plantations	land fire prevention and control			
3.3. Implementation of HCV and RIL/SFM policies for Forestry Concessions *Dissemination of SFM and RIL policies to relevant stakeholders* *Ensuring RIL conducted by forest concession* *Ensuring the adoption and implementation of HCV policies by timber plantation companies* *Development of an incentives mechanism for RIL and HCV implementation* *Reducing deforestation and forest degradation within logging concessions by improving the RIL/SFM policy*	17) Dissemination of RIL policy to forest concessions 18) Dissemination of HCV policy to industrial timber plantations 19) Training on RIL and SFM for the private sector (IUPHHK-HA) 20) Training on HCV management for the private sector (IUPHHK-HT) 21) Enforcing implementation of RIL policy at field level 22) Developing incentive instruments for RILC/HCV/SFM practicesRIL/HCV practices 23) Facilitating improvement of RIL/SFM practices 24) Ensuring implementation of Fire Prevention and Control by concession and communities 25) Ensuring implementation of Forest Patrolling by			

	concessions and communities			
<u>Component 4:</u> **Sustainable Alternatives for Communities** **4.1. Sustainable livelihoods** *Enhancing sustainable agriculture practices with community* *Developing new-model swidden-agriculture with community* *Utilizing riparian lands for development of paddy's field with community* *Enhancing sustainable mangrove practices* *Developing alternative fresh-water fishery*	1) Facilitating the introduction of sustainable mangrove management (ecotourism, silvofishery, etc) to communities and district governments 2) Training on sustainable mangrove management (ecotourism, silvofishery, etc) 3) Facilitating alternative businesses in mangrove forests 4) Facilitating ecotourism in mangroves 5) Facilitating Nipah Sugar business 6) Linking the small holders with the existing small grants programs as part of the access to finance training 7) Identification of areas for the facilitation of	1) Number of villages received training on sustainable mangrove management (ecotourism, silvofishery, etc) (target 30 villages in 3 districts) 2) Number of enterprises implementing Ecotourism in mangrove areas 3) Number of enterprises implementing Nipah Sugar business 4) Number of small holders receiving dissemination and training on existing small grants programs of GoI or relevant NGOs 5) Number of villagers trained and involved in preparing the utilization of swamp riparian land for paddy fields 6) Number of hectares of land identified for new model swidden agriculture	**1) Number of community-focused investments (enterprises) developed for sustainable land use** **2) Community area prepared by the community for utilization of swamp riparian land for paddy fields (ha)** **3) Community Area under sustainable agriculture practices (e.g. swidden agr.peatland agr. etc,)(ha)** **4) Number of small enterprises on sustainable agriculture practices developed with the community** **5) Number of small scale commercial producers and other parts of the value chain provided capital as a result of carbon and non carbon benefit sharing mechanisms**	

	new-model swidden-agriculture 8) Facilitating the Implementation of swidden-agriculture 9) facilitating communities in utilizing swamp riparian land for paddy fields as alternative to opening paddy fields inside the forest 10) Implementation of riparian land paddy cultivation 11) Facilitating communities in fresh-water aquaculture 12) Implementation of fresh-water aquaculture 13) Training on fresh-water aquaculture 14) Training on sustainable swidden agriculture 15) Implementation of sustainable swidden agriculture 16) Training on paludiculture 17) Implementation of paludiculture	7) Number of villages receiving training on sustainable swidden agriculture 8) Number of villages receiving training on cultivation of fresh water fish 9) Number of villages receiving training on peat land agriculture	**6) Number of social forestry groups (RKU)s with working plan and business plans in place** **7) Number of social forestry groups producing verified work plan implementation report**	

4.2. Conservation Partnerships *Building community commitment and partnership in conservation forest area management* *Capacity Building for Community in conservation forest* *Facilitating implementation of conservation forests by community*	18) Conflict identification in conservation forest 19) Facilitating conflict resolution in conservation forest 20) Training on joint protection and fire prevention and control on conservation forest between conservation area agency and communities 21) Providing fire protection and control equipment to social forestry groups	10) Number of joint training for protection and fire prevention & control on conservation forest between conservation area agency and community 11) Number of social forestry groups being equipped for fire protection and control 12) Number of communities trained on utilization of areas for community livelihood surrounding conservation forest (target 4 conservation areas)	**8) Percentage of conflict in conservation forest reduced** **9) Number of conservation areas where joint fire drills are conducted annually between conservation area agency and community** **10) Hot spot area reduced measured by satellite imagery in social forestry area/conservation area (ha)**	
4.3. Social Forestry *Capacity Building of Social Forestry for Community* *Facilitating implementation of Social Forestry Management*	22) Training on utilization of areas for community livelihoods surrounding conservation forests 23) Joint protection and fire prevention and control on conservation forest between conservation area agency and community 24) Training on development of working plan of social forestry groups (RKU)	13) Number of Social forestry groups (RKU) trained on development of working plan (including coaching and mentoring) 14) Number of Social forestry groups (RKU) trained on development of business plans (including coaching and mentoring) 15) Number of social forestry groups trained on SF management, including coaching and	**11) Number of social forestry groups (RKU)s with working plan and business plans in place** **12) Number of social forestry groups producing verified work plan implementation report**	

	(including coaching and mentoring) 25) Training of Social forestry groups on development of business plans (including coaching and mentoring) 26) Training of social forestry groups on SF management (including coaching and mentoring) 27) Training on community based conflict early warning system (including coaching and mentoring) 28) Implementation of Village Forest Management	mentoring (in 50 villages) 16) Number of social forestry groups trained on community based conflict early warning system ,including coaching and mentoring 17) 50 villages		
<u>Component 5:</u> **Program Management and Monitoring and Evaluation** **5.1 Program coordination and management** *Management and coordination of ER program implementation across levels*	1) Strengthening institutions for ER project management and coordination across sectors 2) Developing coordination mechanism: working group at sub-national level, and focal points	1) Standard operational procedure 2) standard operational procedure/ Working Group at Subnational, and focal points in each relevant sectoral agency 3) Institutional agreement developed	**1. A system for MRV developed and operational.** **2. Percent of project areas with annual emission reduction data updated/ uploaded in the MRV system** **3. SESA Plan developed**	

Provision of operating costs for ER program implementation	in each relevant sectoral agency 3) Coordination meeting for management 4) Developing financial management system for the ER program 5) Training on financial management 6) Coordination meeting on financial management 7) Training on SESA and ESMF	4) Training conducted on identifying financial sources and management guideline 5) Number of staff trained on SESA and ESMF	**4. Safeguard plans according to ESMF developed and implemented** **5. FRGM plan developed that harmonizes across levels of government** **6. Number of people/ in targeted forest and adjacent communities with increased monetary/non-monetary benefits**	
5.2 Monitoring and evaluation *Implementation of monitoring and evaluation for ER program implementation* *Measurement and Reporting*	8) Monitoring and evaluation of ER Program Implementation 9) Training on ER program Monitoring (incl. safeguards and KLHS) 10) Monitoring and evaluation of ER Program implementation 11) Developing HCV monitoring system 12) Implementation of HCV monitoring system 13) Improving activity data through ground thruthing 14) Improving emission factor data through	6) Number of staff trained on ER program Monitoring (incl. safeguards and KLHS) (target: 2 staff in each agency) 7) ESMF Guideline and ESMF implementation report prepared 8) HCV monitoring system developed		

	Permanent Sampling Plot measurements 15) Strengthening capacity for ER Measurement 16) Updating satellite imagery for ER Accounting Area 17) Developing sub-national MMR System (including SIS) 18) Training on MMR 19) Implementation of sub-national MMR (including SIS)			
5.3 Program communication *Knowledge management* *Information dissemination*	20) Knowledge Management database development and maintenance 21) Developing information, education and communication materials of ER Program implementation for shared learning 22) Establish and maintain ER program website 23) Dissemination of information, education and communication materials of ER Program implementation for shared learning	9) Number of staff trained in improvement of emission factor data through Permanent Sampling Plots 10) Number of satellite imagery maps updated in ER Accounting Area 11) The sub-national MMR System (including SIS) is developed 12) 1 web-based sub-national MMR is developed 13) MRV report 14) 1 web-based database 15) 3 publications 16) weekly updates 17) annual reports		