

Annex 4.1. East Kalimantan Emission Reductions Program - Results Chain

Project Objective (PO): To strengthen the landscape management capacity of the East Kalimantan Province and local governments to reduce land based GHG emissions and 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) -----

<u>Components/Sub-components</u>	<u>Project Activities (INPUTS)</u>	<u>Output Indicators</u>	<u>Intermediate Outcome Indicators</u>	<u>Project Outcome Indicators</u>
	<i>Activities needed to produce the project outputs</i>	<i>Goods and Services the project will deliver</i>	<i>Access to, use of, and satisfaction with services provided</i>	
<p><u>Component 1:</u></p> <p>Forest and Land Governance</p> <p>1.1. Strengthening the licensing regime</p> <p><i>Revoking overlapping and non-clean and clear permits, and enforcing the licensing moratorium</i></p> <p><i>Improving policy on transparency and access to information about licensing</i></p> <p><i>Facilitating Social Forestry licenses</i></p>	<ol style="list-style-type: none"> 1) Facilitating enforcement of revocation of Non-CnC (non-clear and non clean) mining permit 2) Reviewing permits on forestry, mining and estate crops 3) Enforcing and monitoring of implementation licensing moratorium (Governor Regulation 1/2018) 	<ol style="list-style-type: none"> 1) Governor decree on revoke mining permit issued 2) Number of permits reviewed on forestry, mining and estate crops 3) Number of permits reviewed for overlapping policy implementation on licencing moratorium and RIL 	<ol style="list-style-type: none"> 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 	<p><u>PO indicator 1:</u> Number of tons of CO₂ emissions from deforestation and forest degradation reduced in project areas as compared to the measured REL/RL)</p> <p><u>PO indicator 2:</u></p> <p>Forest area under improved SFM management and reduced carbon emissions practices (ha)</p> <p><u>PO indicator 3:</u></p>

<p>1.2. Dispute Settlement <i>Settlement of existing land tenure disputes</i> <i>Development of a policy on cross-sectoral dispute settlement</i></p>	<p>4) Strengthening Information, Management and Documentation Officers in transparency of licensing process</p> <p>5) Identify and facilitating potential permit for social forestry</p> <p>6) Verification of SF licences</p> <p>7) facilitating acceleration of licensing issuance of social forestry for community</p> <p>8) Strengthening conflict resolution related regulatory framework</p> <p>9) Verification on tenurial conflict (Land object of agrarian reform/TORA)</p> <p>10) Strengthening institutions for complaints and dispute settlements of the environment and forestry cases</p> <p>11) Facilitating development policy on cross sectoral dispute settlements</p>	<p>4) 1 standard operational procedure on licensing transparency</p> <p>5) 1 regulation about village spatial planning guideline developed</p> <p>6) 1 regulation about village development planning guideline</p> <p>7) Number of new social forestry permits issued</p> <p>8) Number of social forestry permits verified (in 50 villages)</p> <p>9) List of settlement of land conflicts in forest areas</p> <p>10) Ministerial decree of social forestry licenses on tenurial conflict (Land object of agrarian reform/TORA)</p> <p>11) Standard Operational Procedure on issuance of Social Forestry for community licenses stages completed</p> <p>12) Number of complaints on REDD+ governance recorded and responded to</p> <p>13) 1 governor regulation on dispute settlements</p>	<p>sustainable forest management</p> <p>3) Percent of mining companies in compliance with CnC criteria(baseline 43%)</p> <p>4) Percent of area with TORA allocation verified on tenurial conflict(according to Land object of agrarian reform/TORA)</p> <p>5) Area under social forestry licenses (ha) (Target: 660, 000 ha)</p> <p>6) Percentage of forest concessions(for logging,mining, palmoil development and other uses)issued annually are published by online publicly accessible database (PPID Kaltim website)</p>	<p>Number of project beneficiaries (percent of which female)</p>
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<p>1.3. Support for the recognition of adat land</p> <p><i>Participatory mappings in 200 villages</i></p> <p><i>establishment of adat communities</i></p>	<p>12) Facilitating on preparation of participatory mappings for adat recognition</p> <p>13) Training on participatory mappings for adat recognition</p> <p>14) Implementation of participatory mappings for adat recognition that is incorporated with ER Program</p> <p>15) Facilitating on establishment of adat communities (institutions)</p>	<p>14) 200 villages received training participatory mapping for adat recognition</p> <p>15) Adat maps integrated with ER Program</p> <p>16) Adat communities (institutions) facilitated</p>	<p>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)</p> <p>8) Number of villages incorporated village spatial and village development plan with ER Program (target 150 villages in 7 districts)</p>	
<p>1.4. Strengthening village spatial planning</p> <p><i>Technical support for Village Low Emission Development Planning</i></p>	<p>16) Facilitating, training, and implementing development of village spatial planning guidelines/regulations</p> <p>17) Facilitating, training, and implementing development of village development planning guidelines/regulations</p> <p>18) Facilitating on preparation of village spatial and village development plan which inline with ER Program</p> <p>19) Training on Kampung iklim (green villages) - spatial and development planning</p>	<p>17) Number of villages with Village spatial plan and village development plans prepared (target: 150 villages in 7 district)</p> <p>18) Number of villages communities received training on Kampung iklim (green villages) - spatial and development planning (150 villages in 7 district)</p> <p>19) Number of villages received training Village Information System integrated to Climate Change</p> <p>20) Number of villages developed the Village</p>	<p>9) Number of Villages with operational Village Information System integrated to Climate Change</p>	

	<ul style="list-style-type: none"> 20) Implementation of village spatial and village development plan that is incorporated with ER Program 21) Training Village Information System integrated to Climate Change 22) Implementation of Village Information System 23) Village forest patrolling 24) Training on Community Based Forest Fire management 25) Facilitating implementation of fire management by community 	<p>Information system integrated to Climate Change</p> <ul style="list-style-type: none"> 21) Number of villages received training on Community Based Forest Fire management 		
<p><u>Component 2:</u></p> <p>Improving forest supervision and administration</p> <p>2.1. Strengthening management capacity within the State Forest Area: FMU Development</p> <p><i>Support for FMU management planning and business development</i></p> <p><i>Capacity building for FMUs for supervision,</i></p>	<ul style="list-style-type: none"> 1) Facilitating development of annual work plan FMU 2) Improving facilities of FMU Center for coordination activities with its members 	<ul style="list-style-type: none"> 1) Number of FMUs with approved work plans 2) Number of operational (<i>operational defined as long term management /business plans developed and staffed</i>) FMUs are in place in the province (new 	<ul style="list-style-type: none"> 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

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| 3) Improving standard operational procedure for FMU | or/existing) (target: 21 FMUs) |
| 4) Training development of annual work plan and business plan | 3) The FMU Center in Samarinda is fully staffed and equipped for coordination of FMUs |
| 5) Training on Forest Fire Prevention for FMU and community | 4) Standard operational procedure for FMU developed |
| 6) Training on RIL and SFM for FMU | 5) Number of FMU staff trained on workplan and business plan development |
| 7) Training on HCV for FMU | 6) Number of FMU staff trained on Forest Fire Prevention in 21 FMUs and community |
| 8) Training on conflict early warning system | 7) Number of FMU staff trained on RIL and SFM in 17 FMUs |
| 9) Facilitating implementation of defined boundary and forest utilization block of FMU | 8) Number of FMU staff trained on HCV in 15 FMUs |
| 10) Strengthening capacity FMU on Business and marketing (entrepreneurship training) | 9) Number of FMU staff trained on conflict early warning system in 20 FMUs |
| 11) Facilitating Business inside Specific Area by FMU | 10) Number of FMUs developed their boundary Maps (target: 20) |
| 12) Development of manual for standardized monitoring of HCV policy protocol by FMU | 11) Number of FMU staff trained on entrepreneurship and marketing skills |
| 13) Development of manual for standardized | |

- 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)**

<p>2.2. Strengthening provincial and district government to supervise and monitor implementation of sustainable Estate Crops</p> <p><i>Strengthening government to supervise and monitor implementation of Sustainable Estate Crops</i></p>	<p>monitoring of RIL policy protocol by FMU</p> <p>14) Facilitating and monitoring implementation of Social Forestry program by FMU</p> <p>15) Facilitating and monitoring implementation RIL and SFM on forest concessions by FMU</p> <p>16) Facilitating and monitoring implementation of HCV on timber plantation by FMU</p> <p>17) Implementing Forest Fire prevention and Control by FMU and Community</p> <p>18) Improving community based Forest Patrolling by FMU and community</p> <p>19) Commitment declaration of government and private sectors' at district level to implement sustainable estate crops</p> <p>20) Facilitating and monitoring</p>	<p>12) Number of enterprises established in the FMU</p> <p>13) Number of FMUs developed the manual for standardized monitoring of HCV policy and printed and disseminated</p> <p>14) Number of FMUs developed the manual for standardized monitoring of RIL policy and printed and disseminated</p> <p>15) Number of FMUs monitoring/supervising Social Forestry licenses</p> <p>16) Number of FMUs monitoring/supervising forest concessions for RIL/SFM implementation</p> <p>17) Number of FMUs monitoring/supervising Timber plantation concessions for HCV implementation</p> <p>18) 7 district level commitment declaration from private sectors to implement sustainable oil palm and manage HCV</p> <p>19) Number of communities equipped</p>		
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	<p>implementation of HCV on estate crops</p> <p>21) Training on HCV management for estate crops service</p> <p>22) Training ISPO for estate crop service</p> <p>23) Facilitating consultation between and within local government (province and district governments) and private sectors</p> <p>24) Technical assistance on sustainable estate crop implementation of the commitments done by private sectors</p> <p>25) Technical assistance implementation of the commitments done by district governments</p>	<p>and trained with fire prevention and control</p> <p>20) Number of communities with Forest Fire Management Plans with support from FMUs</p> <p>21) Number of communities provide patrolling with FMUs</p> <p>22) Stakeholder Workshop on RIL policy (IUPHHK-HA) dissemination/training conducted for forest concession holders</p> <p>23) Stakeholder Workshop on HCV policy (IUPHHK-HT) dissemination /training conducted for industrial timber plantation managers</p> <p>24) Number of forest concession holders trained on implementation of RIL policy (IUPHHK-HA)</p> <p>25) Number of HCV management staff trained on implementation of HCV policy (IUPHHK-HT)</p> <p>26) Feasibility assessment on incentives for adoption of RIL/HCV practices</p> <p>27) Number ground checks conducted to private</p>		
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		sector of Fire Prevention and Control by Concession and community	
<p>Component 3: Reducing deforestation and forest degradation within licensed areas</p> <p>3.1 Implementation of HCV policies for oil palm estates</p> <p><i>Private sectors commitment on sustainable estate crops</i></p> <p><i>Implementation of HCV management by estate crop companies</i></p>	<ol style="list-style-type: none"> 1) Technical assistance estate crop companies in complying ISPO principles 2) Technical assistant estate crop companies to improve productivity 3) Technical assistance implementation of forest fire prevention and control by private sector 4) Consultation and discussion between estate crop companies with relevant stakeholders (including communities) in agreeing commitments for implementation of sustainable estate crops 7) Developing Prototype Initiative Model "Partnership System in controlling forest and land fires" for large companies 	<ol style="list-style-type: none"> 1) Number of annual supervisions to estate crops by the estate crop services staff 2) 7 district 3) Number of estate crops services staff trained on implementation of HCV (target: 100 estate crops by 2024) 4) Number of estate crops services staff trained on ISPO (Indonesian Sustainable Palm Oil) 5) Number of companies with signed Commitment declaration between government and private sectors' at district level to implement sustainable estate crops 6) Number of large companies developed the Prototype Initiative Model "Partnership 	<ol style="list-style-type: none"> 1) Number of estate crop companies in monitored/supervised for the commitments of sustainable estate crop implementation 2) Percentage of estate crops are in compliance of HCV 3) Percent of oil palm plantations compliant with ISPO/RSPO Guidelines 4) Percentage of small holder companies in with ISPO certificate 5) Percent of estate crop companies implementing "prototype Initiative model -Partnership System in controlling forest and land fires"

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

Supporting sustainable smallholder Estate Crops plantations

- 8) Training on community based land fire prevention and control for estate crops and community surround estate crops area
- 9) Implementation land fire prevention and control by estate crop companies
- 10) Training on HCV management for private sector (estate crops)
- 11) Implementing HCV management by estate crop companies
- 12) Technical assistance to smallholders in complying ISPO principles
- 13) Implementing ISPO in smallholders
- 14) Technical assistant for land fire prevention and control by smallholders
- 15) Training on community based land fire prevention and control for smallholders
- 16) Providing equipment for smallholders on land fire prevention and control

- System in controlling forest and land fires”
- 7) Number of estate crops trained on community based land fire prevention and control
 - 8) Number of estate crop companies received technical assistance on forest fire prevention and control
 - 9) Number of communities trained on land fire prevention and control surrounding estate crops area
 - 10) Number of small holders received equipment on land fire prevention and control

3.3. Implementation of HCV and RIL-C policies for Forestry Concessions

Dissemination of SFM and RIL policies to relevant stakeholders

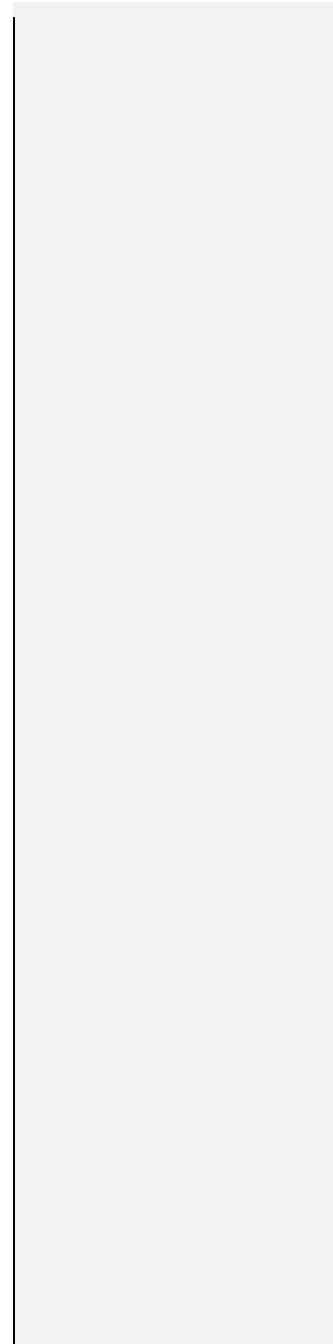
Ensuring RIL conducted by forest concession

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 finalizing the RIL-C policy

- 17) Dissemination of RIL policy to the all forest concessions
- 18) Dissemination of HCV policy to industrial timber plantation
- 19) Training on RIL and SFM for private sectors (IUPHHK-HA)
- 20) Training on HCV management for private sectors (IUPHHK-HT)
- 21) Enforcing implementation of RIL policy at field level
- 22) Developing monetary/nonmonetary incentive instrument for adoption/implementation of RIL/HCV practices
- 23) Facilitating finalization of RIL-C
- 24) Ensuring implementation of Fire Prevention and Control by Concession and community
- 25) Ensuring implementation of Forest Patrolling by concessions and community




<p>Component 4: Sustainable Alternatives for Communities</p> <p>4.1. Sustainable livelihoods</p> <p><i>Enhancing sustainable agriculture practices with community</i></p> <p><i>Developing new-model swidden-agriculture with community</i></p> <p><i>Utilizing riparian lands for development of paddy's field with community</i></p> <p><i>Enhancing sustainable mangrove practices</i></p> <p><i>Developing alternative fresh-water fishery</i></p>	<ol style="list-style-type: none"> 1) Facilitating introduction of sustainable mangrove management (ecotourism, silvofishery, etc) to community and district governments 2) Training on sustainable mangrove management (ecotourism, silvofishery, etc) 3) Facilitating alternative business in mangrove forests 4) Facilitating implementation of Ecotourism in Mangrove 5) Facilitating implementation of Nipah Sugar business and its marketing 6) Linking the small holders with the existing small grants programs as part of the access to finance training 7) Identification areas for facilitation of 	<ol style="list-style-type: none"> 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 3) Number of enterprises implementing Nipah Sugar business and its marketing 4) Number of small holders receiving dissemination and training on existing small grants programs of Gol or relevant NGOs 5) Number of villagers trained and involved on preparing the utilization of swamp riparian land for paddy's field 6) Number of hectares of land identified for new model swidden agriculture 7) Number of villages receiving training on 	<ol style="list-style-type: none"> 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's field (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 are 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 6) Number of social forestry groups (RKU)s 	
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	<p>new-model swidden-agriculture</p> <p>8) facilitating Implementation of swidden-agriculture</p> <p>9) facilitating community in preparing utilization of swamp riparian land for paddy's field (to avoid opening paddy field inside the forest)</p> <p>10) Implementation of riparian land for paddy's field</p> <p>11) Facilitating community in preparing cultivation of fresh-water fish</p> <p>12) Implementation of cultivation of fresh-water fish</p> <p>13) Training cultivation of fresh-water fish</p> <p>14) Training on sustainable swidden agriculture</p> <p>15) Implementation of sustainable swidden agriculture</p> <p>16) Training on peat land agriculture (paludiculture)</p> <p>17) Implementation on peat land agriculture (paludiculture)</p>	<p>sustainable swidden agriculture</p> <p>8) Number of villages receiving training on cultivation of fresh water fish</p> <p>9) Number of villages receiving training on peat land agriculture</p>	<p>with working plan and business plans in place</p> <p>7) Number of social forestry groups producing verified work plan implementation report</p>	
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<p>4.2. Conservation Partnerships</p> <p><i>Building community commitment and partnership in conservation forest area management</i></p> <p><i>Capacity Building for Community in conservation forest</i></p> <p><i>Facilitating implementation of conservation forests by community</i></p>	<p>18) Conflict identification in conservation forest</p> <p>19) Facilitating conflict resolution in conservation forest</p> <p>20) Training on joint protection and fire prevention and control on conservation forest between conservation area agency and community</p> <p>21) Providing fire protection and control equipment to social forestry groups</p>	<p>10) Number of joint training for protection and fire prevention & control on conservation forest between conservation area agency and community</p> <p>11) Number of social forestry groups being equipped for fire protection and control</p> <p>12) Number of communities trained on utilization of areas for community livelihood surrounding conservation forest (target 4 conservation area)</p>	<p>8) Percentage of conflict in conservation forest reduced</p> <p>9) Number of conservation areas where at least x joint fire drills are conducted annually between conservation area agency and community</p> <p>10) Hot spot area reduced measured by satellite imagery in social forestry area/conservation area (ha)</p>	
<p>4.3. Social Forestry</p> <p><i>Capacity Building of Social Forestry for Community</i></p> <p><i>Facilitating implementation of Social Forestry Management</i></p>	<p>22) Training on utilization of areas for community livelihood surrounding conservation forest</p> <p>23) Joint protection and fire prevention and control on conservation forest between conservation area agency and community</p> <p>24) Training on development of working plan of social forestry groups (RKU)</p>	<p>13) Number of Social forestry groups (RKU) trained on development of working plan (including coaching and mentoring)</p> <p>14) Number of Social forestry groups (RKU) trained on development of business plans (including coaching and mentoring)</p> <p>15) Number of social forestry groups trained on SF management, including coaching and</p>	<p>11) Number of social forestry groups (RKU)s with working plan and business plans in place</p> <p>12) Number of social forestry groups producing verified work plan implementation report</p>	

	<p>(including coaching and mentoring)</p> <p>25) Training of Social forestry groups on development of Business plan (BP)(including coaching and mentoring)</p> <p>26) Training of social forestry groups on SF management (including coaching and mentoring)</p> <p>27) Training on community based conflict early warning system (including coaching and mentoring)</p> <p>28) Implementation of Village Forest Management</p>	<p>mentoring (in 50 villages)</p> <p>16) Number of social forestry groups trained on community based conflict early warning system ,including coaching and mentoring</p> <p>17) 50 village</p> <p>18) 50 village</p>		
<p>Component 5: Program Management and Monitoring and Evaluation</p> <p>5.1 Program coordination and management</p> <p><i>Management and coordination of ER program implementation across levels</i></p>	<p>1) Strengthening institution for ER project management and coordination across sectors</p> <p>2) Develop coordination mechanism – (working group at sub-national, and focal points in each</p>	<p>1) Standard operational procedure</p> <p>2) standard operational procedure/ Working Group at Subnational, and focal points in each relevant sectoral agency</p>	<p>1. A system for MRV developed and operational.</p> <p>2. Percent of project areas with annual emission reduction data updated/ uploaded in the MRV system</p>	

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

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