## Annexe 15 : Liste indicative des mesures types d'atténuation des impacts

Les tableaux ci-dessous résument les mesures d'atténuation proposées pour les éléments susceptibles d'avoir des impacts négatifs.Les principaux acteurs de ces mesures d'atténuation peuvent être les directions du MAAH, des agences gouvernementales locales, des unités ad-hoc créées par les partenaires de développement pour mettre en œuvre des projets individuels et / ou des entrepreneurs devant participer aux travaux de construction.

Cependant, la responsabilité de la mise en œuvre est assumée de manière uniforme par le Comité de révision et l'unité de gestion du programme qui sera créée sous MAAH, pour la mise en œuvre du PNDBF.

Le budget pour la mise en œuvre du même PNDBF sera alloué à un poste budgétaire spécifique du MAAH et les dépenses requises pour les mesures d'atténuation suivantes seront payées avec le budget alloué à ce poste budgétaire ou l'aide financière des partenaires de développement.

Article	Mésures d'atténuation	Les dépenses
Pollution de l'air	<ul> <li>Utilisation d'engins de chantier et machines avec système d'émission de gaz réduite.</li> <li>Contrôle régulier et l'entretien complet d'engins de chantier et de machines.</li> <li>Jet d'eau dans et autour des entrées des chantiers de construction.</li> </ul>	Pour être inclus dans les coûts de construction
Pollution de l'eau	<ul> <li>Mise en place et l'utilisation du bassin de décantation pour traiter l'eau gaspillée lors de la construction.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la bonne utilisation des produits chimiques dans les exploitations agricoles.</li> </ul>	Pour être inclus dans les coûts de construction
Les déchets	<ul> <li>Réutilisation des déblais et briques enlevées lors de la construction.</li> <li>Élimination des déchets hors des engins de chantier et machines conformément aux règlements pertinents du Burkina Faso.</li> <li>Enfouissement des déchets produits lors de la construction, qui ne peut être réutilisée dans la terre de MAAH ou l'agent d'exécution.</li> <li>Commission d'élimination des déchets qui ne peuvent pas être réutilisés et enterré à des entreprises spécialisées pour un traitement approprié.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la gestion des déchets produits par l'activité agricole.</li> </ul>	Pour être inclus dans les coûts de construction
Pollution des sols	<ul> <li>Une bonne gestion et le contrôle périodique des véhicules de construction et de machineries.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la bonne utilisation des produits chimiques dans les exploitations agricoles.</li> </ul>	Pour être inclus dans les coûts de construction
Bruit et vibrations	<ul> <li>Utilisation des machines de chantier avec moins de bruit et vibration.</li> <li>Ne fonctionne ne pas pendant la nuit et l'utilisation de détour dans le quartier résidentiel.</li> </ul>	Pour être inclus dans les coûts de construction
Subsidence	<ul> <li>Examination of possibility for land subsidence prior to the construction works.</li> <li>Use of alternative water sources.</li> </ul>	À la charge de MAAH et/ou partenaires de financement

Tableau: Mesures d'atténuation pour les projets de construction et d'exploitation de systèmes d'irrigation

Article	Mesures d'atténuation	Les dépenses
Mauvaise odeur	• Utilisation d'engins de chantier et machines avec système d'émission de gaz réduite.	À la charge de MAAH et/ou partenaires de
	Contrôle régulier et l'entretien complet d'engins de chantier et de machines.	financement
Écosystème	• Sélection du site de projet alternatif.	À la charge de MAAH et/ou
	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	partenaires de financement
Figure de l'eau	Sélection du site de projet alternatif.	À couvrir le
	• Ajustement ou des changements dans la conception du projet et la méthodologie de construction.	budget MAAH
Terrain, géologie	Sélection d'alternative ballastières.	À la charge de MAAH et/ou
	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	partenaires de financement
Acquisition de terres et	<ul> <li>Sélection du site de projet alternatif afin d'éviter ou de minimiser le nombre de personnes touchées de projet (PAPs).</li> </ul>	À la charge de MAAH et/ou
réinstallation	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction afin d'éviter ou de minimiser le nombre de PAPs.</li> </ul>	partenaires de financement
	<ul> <li>Préparation d'un Plan d'Action de réinstallation conformément à la disposition de la législation du Burkina Faso et de la politique de réinstallation de partenaire de développement, le cas échéant.</li> </ul>	
	<ul> <li>Compensation de PAPs conformément aux dispositions des législations du Burkina Faso et de la politique de réinstallation de partenaire de développement, le cas échéant.</li> </ul>	
Utilisation des	Minimisation de la période de construction	Pour être inclus
terres et utilisation des ressources	<ul> <li>Construction durant la saison sèche quand les utilisateurs de bas-fond n'ont pas de toute activité agricole sur les chantiers.</li> </ul>	dans les coûts de construction
régionales	<ul> <li>Minimisation des dommages par construction travaille sur les ressources naturelles dont bénéficient les résidents.</li> </ul>	
Utilisation de l'eau	<ul> <li>Volume total d'eau disponible et les besoins d'eau à des fins autres qu'agricoles devrait être confirmée avant la conception du projet.</li> </ul>	À la charge de MAAH et/ou
	<ul> <li>Ajustement de la conception du projet pour répondre aux différents besoins pour l'eau dans le volume disponible d'eau.</li> </ul>	partenaires de financement
Infrastructure sociale et services sociaux existants	<ul> <li>La mise en place de déviation à d'autres infrastructures et services sociaux au cours de la période de construction.</li> </ul>	Pour être inclus dans les coûts de construction
Organisations sociales telles que	<ul> <li>Facilitation du chef de village, propriétaires fonciers et des utilisateurs des terres pour former le comité.</li> </ul>	À la charge de MAAH et/ou
le capital social et les organisations décisionnelles	<ul> <li>Facilitation à la Commission d'établir et d'appliquer la constitution et les règlements du comité.</li> </ul>	partenaires de financement
régionales	• Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.	

Article	Mesures d'atténuation	Les dépenses
Répartition inégale des dommages et des avantages	<ul> <li>Facilitation à la Commission de distribuer des bénéfices et dommages parmi les utilisateurs de bas-fond.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> </ul>	À la charge de MAAH et/ou partenaires de financement
	Réglage de la conception du projet.	
Conflit d'intérêt dans la région	• Facilitation à la Commission pour les différends ou conflits causés par l'élaboration et/ou la mise en œuvre du projet.	À la charge de MAAH et/ou partenaires de
	<ul> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	financement
Patrimoine culturel	<ul> <li>Identification des zones culturellement importants au sein du site de projet avant la conception.</li> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de</li> </ul>	À la charge de MAAH et/ou partenaires de financement
Paysage	<ul> <li>construction.</li> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	Pour être inclus dans les coûts de construction
VIH / SIDA et autres maladies infectieuses	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les utilisateurs des installations sur la prévention et le traitement des maladies infectieuses.</li> </ul>	Pour être inclus dans les coûts de construction
Environnement de travail (y compris la sécurité du travail)	• Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.	Pour être inclus dans les coûts de construction
Accident	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.</li> <li>Sensibilisation des villageois, y compris les bas-fond utilisateurs sur les risques que comporte l'exploitation du système d'irrigation.</li> </ul>	Pour être inclus dans les coûts de construction

# Tableau: Mesures d'atténuation pour les projets de construction et d'exploitation de routes d'accès

Article	Mesures d'atténuation	Les dépenses
Pollution de l'air	<ul> <li>Utilisation d'engins de chantier et machines avec système d'émission de gaz réduite.</li> <li>Contrôle régulier et l'entretien complet d'engins de chantier et de machines.</li> <li>Jet d'eau dans et autour des entrées des chantiers de construction.</li> </ul>	À inclure dans les coûts de construction
Pollution de l'eau	• Mise en place et l'utilisation du bassin de décantation pour traiter l'eau gaspillée lors de la construction.	À inclure dans les coûts de construction

Article	Mesures d'atténuation	Les dépenses
Les déchets	<ul> <li>Réutilisation des déblais et briques enlevées lors de la construction.</li> <li>Élimination des déchets hors des engins de chantier et machines conformément aux règlements pertinents du Burkina Faso.</li> </ul>	À inclure dans les coûts de construction
	<ul> <li>Enfouissement des déchets produits lors de la construction, qui ne peut être réutilisée dans la terre de MAAH ou l'agent d'exécution.</li> </ul>	
	<ul> <li>Commission d'élimination des déchets qui ne peuvent pas être réutilisés et enterré à des entreprises spécialisées pour un traitement approprié.</li> </ul>	
Pollution des sols	<ul> <li>Une bonne gestion et le contrôle périodique des véhicules de construction et de machineries.</li> </ul>	À inclure dans les coûts de construction
Bruit et vibrations	• Utilisation des machines de chantier avec moins de bruit et vibration.	À inclure dans les
	• Aucun travaux de construction au cours de la nuit et l'utilisation de détour dans le quartier résidentiel.	coûts de construction
Subsidence	• Examen de la possibilité pour des affaissements de terrain avant la construction fonctionne.	À la charge du MAAH et / ou des
	Utilisation des sources d'eau alternative pour la construction.	partenaires financiers
Mauvaise odeur	<ul> <li>Utilisation d'engins de chantier et machines avec système d'émission de gaz réduite.</li> </ul>	À inclure dans les coûts de
	• Contrôle régulier et l'entretien complet d'engins de chantier et de machines.	construction
Écosystème	Sélection du site de projet alternatif.	À la charge du
	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	MAAH et / ou des partenaires financiers
Figure de l'eau	• Sélection du site de projet alternatif.	À couvrir avec le
	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	budget du MAAH
Terrain, géologie	Sélection d'alternative ballastières.	À la charge du
	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	MAAH et / ou des partenaires financiers
Acquisition de terres et	<ul> <li>Sélection du site de projet alternatif afin d'éviter ou de minimiser le nombre de personnes touchées de projet (PAPs).</li> </ul>	À la charge du MAAH et / ou des
réinstallation	<ul> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction afin d'éviter ou de minimiser le nombre de PAPs.</li> </ul>	partenaires financiers
	<ul> <li>Préparation d'un Plan d'Action de réinstallation conformément à la disposition de la législation du Burkina Faso et de la politique de réinstallation de partenaire de développement, le cas échéant.</li> </ul>	
	<ul> <li>Compensation de PAPs conformément aux dispositions des législations du Burkina Faso et de la politique de réinstallation de partenaire de développement, le cas échéant.</li> </ul>	
Utilisation des terres et utilisation des ressources régionales	<ul> <li>Minimisation de la période de construction. Pendant la saison sèche quand les utilisateurs de bas-fond n'ont pas de toute activité agricole sur les chantiers de la construction. Minimisation des dommages par construction travaille sur les ressources naturelles dont bénéficient les résidents.</li> </ul>	À inclure dans les coûts de construction

Article	Mesures d'atténuation	Les dépenses			
Utilisation de l'eau	<ul> <li>Volume total d'eau disponible et les besoins d'eau à des fins autres qu'agricoles devrait être confirmée avant la conception du projet.</li> <li>Ajustement de la conception du projet pour répondre aux différents besoins pour l'eau dans le volume disponible d'eau.</li> </ul>				
Infrastructure sociale et services sociaux existants	<ul> <li>La mise en place de déviation à d'autres infrastructures et services sociaux au cours de la période de construction.</li> </ul>	À inclure dans les coûts de construction			
Organisations sociales telles que le capital social et les organisations décisionnelles régionales	<ul> <li>Facilitation du chef de village, propriétaires fonciers et des utilisateurs des terres pour former un comité ad-hoc.</li> <li>Facilitation à la Commission d'établir et d'appliquer la constitution et les règlements du comité.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> </ul>	À la charge du MAAH et / ou des partenaires financiers			
Répartition inégale des dommages et des avantages	<ul> <li>Facilitation à la Commission de distribuer les avantages et dommages parmi les intervenants.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	À la charge du MAAH et / ou des partenaires financiers			
Conflit d'intérêt dans la région	<ul> <li>Facilitation à la Commission pour les différends ou conflits causés par l'élaboration et/ou la mise en œuvre du projet.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	À la charge du MAAH et / ou des partenaires financiers			
Patrimoine culturel	<ul> <li>Identification des zones culturellement importants au sein du site de projet avant la conception.</li> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	To be borne by MAAH and/or financing partners			
Paysage	<ul> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	To be borne by MAAH and/or financing partners			
VIH / SIDA et autres maladies infectieuses	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les utilisateurs des installations sur la prévention et le traitement des maladies infectieuses.</li> </ul>	To be included into the construction costs			
Environnement de travail (y compris la sécurité du travail)	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.</li> </ul>	To be included into the construction costs			
Accident	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.</li> <li>Sensibilisation des travailleurs de la construction et des villageois sur les règles de circulation et sécurité routière.</li> </ul>	To be included into the construction costs			

Article	Mesures d'atténuation	Les dépenses
Pollution de l'air	<ul> <li>Utilisation des engins de chantier / machinerie ainsi que du matériel de traitement avec système d'émission de gaz a réduit.</li> <li>Contrôle régulier et l'entretien complet des engins de chantier / machinerie ainsi que du matériel de traitement.</li> <li>Jet d'eau dans et autour des entrées des chantiers de construction.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction
Pollution de l'eau	<ul> <li>Mise en place et l'utilisation du bassin de décantation pour traiter l'eau gaspillée.</li> <li>Sensibilisation des utilisateurs de bas-fond sur l'utilisation appropriée du matériel de traitement.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Les déchets	<ul> <li>Réutilisation des déblais et briques enlevées lors de la construction.</li> <li>Élimination des déchets de construction véhicules / machinerie ainsi que du matériel de traitement conformément à la réglementation pertinente du Burkina Faso.</li> <li>Enfouissement des déchets produits lors de la construction, qui ne peut être réutilisée dans la terre de MAAH ou agent d'exécution.</li> <li>Commission d'élimination des déchets qui ne peuvent pas être réutilisés et enterré à des entreprises spécialisées pour un traitement approprié.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la gestion des déchets produits par l'activité agricole.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction
Pollution des sols	<ul> <li>Une bonne gestion et le contrôle périodique des véhicules de construction et de machineries.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la bonne utilisation des produits chimiques dans les exploitations agricoles.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Bruit et vibrations	<ul> <li>Utilisation des machines de chantier avec moins de bruit et vibration.</li> <li>Ne fonctionne ne pas pendant la nuit et l'utilisation de détour dans le quartier résidentiel.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction
Subsidence	<ul> <li>Examination of possibility for land subsidence prior to the construction works.</li> <li>Use of alternative water sources.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Mauvaise odeur	<ul> <li>Utilisation des engins de chantier / machinerie ainsi que du matériel de traitement avec système d'émission de gaz a réduit.</li> <li>Contrôle régulier et l'entretien complet des engins de chantier / machinerie ainsi que du matériel de traitement.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction

## <u>Tableau: Mesures d'atténuation pour les projets de construction et d'exploitation</u> <u>d'équipements de stockage et de traitement</u>

Article	Mesures d'atténuation	Les dépenses
Écosystème	<ul> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Utilisation des terres et utilisation des ressources régionales	<ul> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction
Utilisation de l'eau	<ul> <li>Sélection d'alternative ballastières.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Organisations sociales telles que le capital social et les organisations décisionnelles régionales	<ul> <li>Facilitation du chef de village, propriétaires fonciers et des utilisateurs des terres pour former le comité.</li> <li>Facilitation à la Commission d'établir et d'appliquer la constitution et les règlements du comité.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> </ul>	À la charge du MAAH et / ou des partenaires financiers
Répartition inégale des dommages et des avantages	<ul> <li>Facilitation à la Commission de distribuer des bénéfices et dommages parmi les utilisateurs de bas-fond.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	Coûts requis pendant la phase de construction: à inclure dans les coûts de construction
Conflit d'intérêt dans la région	<ul> <li>Facilitation à la Commission pour les différends ou conflits causés par l'élaboration et/ou la mise en œuvre du projet.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	Coûts requis pendant la phase d'opération: à la charge des utilisateurs pendant l'opération
Environnement de travail (y compris la sécurité du travail)	• Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.	Être couvert par le budget du MAAH
Accident	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.</li> <li>Sensibilisation des villageois dont les utilisateurs sur les risques que comporte l'opération bas-fond.</li> </ul>	Être couvert par le budget du MAAH

<sup>&</sup>lt;u>Tableau: Mesures d'atténuation pour les projets de construction et d'exploitation</u> <u>d'installations d'approvisionnement en eau et d'assainissement</u>

Article	Mésures d'atténuation	Les dépenses
Pollution de l'air	<ul> <li>Utilisation des engins de chantier / réduit de machines avec système d'émission de gaz.</li> <li>Contrôle régulier et l'entretien complet des engins de chantier / machines.</li> <li>Jet d'eau dans et autour des entrées des chantiers de construction</li> </ul>	• Pour être inclus dans les coûts de construction.
Pollution de l'eau	<ul> <li>Mise en place et l'utilisation du bassin de décantation pour traiter l'eau gaspillée.</li> <li>Sensibilisation des utilisateurs de bas-fond sur l'utilisation appropriée de l'eau et aux installations sanitaires.</li> </ul>	<ul> <li>Coûts nécessaires pendant la phase de construction : à inclure dans les coûts de construction.</li> <li>Coûts nécessaires pendant la phase de l'opération : être supportés par les utilisateurs lors de l'opération.</li> </ul>
Les déchets	<ul> <li>Réutilisation des déblais et briques enlevées lors de la construction.</li> <li>Élimination des déchets de construction véhicules / machines conformément aux règlements pertinents du Burkina Faso.</li> <li>Enfouissement des déchets produits lors de la construction, qui ne peut être réutilisée dans la terre de MAAH ou agent d'exécution.</li> <li>Commission d'élimination des déchets qui ne peuvent pas être réutilisés et enterré à des entreprises spécialisées pour un traitement approprié.</li> <li>Sensibilisation des utilisateurs de bas-fond sur la gestion des carrières.</li> </ul>	<ul> <li>Coûts nécessaires pendant la phase de construction : à inclure dans les coûts de construction.</li> <li>Coûts nécessaires pendant la phase de l'opération : être supportés par les utilisateurs lors de l'opération.</li> </ul>
Pollution des sols	<ul> <li>Une bonne gestion et le contrôle périodique des véhicules de construction et de machineries.</li> </ul>	<ul> <li>Coûts nécessaires pendant la phase de construction : à inclure dans les coûts de construction.</li> <li>Coûts nécessaires pendant la phase de l'opération : être supportés par les utilisateurs lors de l'opération.</li> </ul>
Bruit et vibrations	<ul> <li>Utilisation des machines de chantier avec moins de bruit et vibration.</li> <li>Ne fonctionne ne pas pendant la nuit et l'utilisation de détour dans le quartier résidentiel.</li> </ul>	<ul> <li>Coûts nécessaires pendant la phase de construction : à inclure dans les coûts de construction.</li> <li>Coûts nécessaires pendant la phase de l'opération : être supportés par les utilisateurs lors de l'opération.</li> </ul>
Subsidence	<ul> <li>Examen de la possibilité pour des affaissements de terrain avant la construction fonctionne.</li> <li>Utilisation des sources d'eau alternative.</li> </ul>	À la charge de MAAH et/ou partenaires de financement.

Article	Mesures d'atténuation.	Les dépenses
Mauvaise odeur	<ul> <li>Utilisation des engins de chantier / réduit de machines avec système d'émission de gaz.</li> <li>Contrôle régulier et l'entretien complet des engins de chantier / machines ainsi que les installations d'eau et d'assainissement.</li> </ul>	<ul> <li>Coûts nécessaires pendant la phase de construction : à inclure dans les coûts de construction.</li> <li>Coûts nécessaires pendant la phase de l'opération : être supportés par les utilisateurs lors de l'opération.</li> </ul>
Écosystème	<ul> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	<ul> <li>À couvrir le budget MAAH.</li> </ul>
Utilisation des terres et utilisation des ressources régionales	<ul> <li>Sélection du site de projet alternatif.</li> <li>Ajustement ou des changements dans la conception du projet et la méthodologie de construction.</li> </ul>	• À couvrir le budget MAAH.
Utilisation de l'eau	Ajustement ou des changements dans la conception du projet et la méthodologie de construction.	<ul> <li>À la charge de partenaires MAAH et/ou de développement.</li> </ul>
Organisations sociales telles que le capital social et les organisations décisionnelles régionales	<ul> <li>Facilitation du chef de village, propriétaires fonciers et des utilisateurs des terres pour former le comité.</li> <li>Facilitation à la Commission d'établir et d'appliquer la constitution et les règlements du comité.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> </ul>	<ul> <li>À la charge de partenaires MAAH et/ou de développement.</li> </ul>
Répartition inégale des dommages et des avantages	<ul> <li>Facilitation à la Commission de distribuer des bénéfices et dommages parmi les utilisateurs de bas-fond.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	<ul> <li>À la charge de partenaires MAAH et/ou de développement.</li> </ul>
Conflit d'intérêt dans la région	<ul> <li>Facilitation à la Commission pour les différends ou conflits causés par l'élaboration et/ou la mise en œuvre du projet.</li> <li>Renforcement des capacités des autorités locales en fournissant des informations sur les cas rapprochés comme référence.</li> <li>Réglage de la conception du projet.</li> </ul>	<ul> <li>À la charge de partenaires MAAH et/ou de développement.</li> </ul>
VIH / SIDA et autres maladies infectieuses	<ul> <li>Sensibilisation des travailleurs de la construction et des villageois, y compris les utilisateurs des installations sur la prévention et le traitement des maladies infectieuses.</li> </ul>	Pour être inclus dans les coûts de construction.
Environnement de travail (y compris la sécurité du travail)	• Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.	• Pour être inclus dans les coûts de construction
Accident	• Sensibilisation des travailleurs de la construction et des villageois, y compris les bas-fond utilisateurs sur les risques encourus dans les travaux de construction.	<ul> <li>Pour être inclus dans les coûts de construction.</li> </ul>

### MINUTES DE LA REUNION

Compte rendu de l'atelier de validation du document du Programme national d'aménagement des bas-fonds (PNABF) couplé à la deuxième session du comité mixte de coordination

Validation du document du Programme National d'Aménagement des Bas-Fonds (PNABF)



M. KONKOLE Michaël Aristide Wendyam

Chef de projet, PEF-PNDRE

Direction Génerale des Aménagements Hydrauliques et du Developpement de l'Irrigation (DGAHDI)



#### Dr. HIKASA Motoyoshi

Chef d'équipe

PEF-PNDBE JICA Equipe d'étude

#### **OUVERTURE DE LA SEANCE**

Le représentant de la JICA a ouvert la cérémonie en souhaitant la bienvenue à tous les participants de l'atelier et en remerciant le ministère de l'agriculture et des aménagements hydrauliques du Burkina Faso ainsi que tous les acteurs pour leur collaboration et leur coopération pour la réalisation des projets. Il a ensuite fait une analyse générale de l'état de l'agriculture au Burkina Faso en soulignant que l'un des défis majeurs reste la gestion de l'eau. Il a ensuite souligné que seulement 10 % des bas-fonds identifiés sont aménagés. Il a terminé son allocution en affirmant qu'il garde espoir que la contribution des uns et des autres vont concourir à la réalisation des projets en cours.

Il a par ailleurs confirmé et soutenu l'engagement du gouvernement du Japon à accompagner et à soutenir le Burkina Faso à atteindre la sécurité alimentaire et nutritionnelle.

A la suite du représentant de la JICA, M. BARRO, représentant du secrétaire général par intérim, en qualité de président de séance a salué les responsables japonais et tous les participants de l'atelier et les acteurs qui ont contribué à l'élaboration du document. Il a ensuite souligné que le PNDES (Programme National de Développement Economique et Social) a pour objectif de booster l'économie et l'un des moyens d'y arriver est la modernisation de l'agriculture. C'est dans cette optique que le gouvernement du Burkina Faso et la JICA ont initié le PNABF pour atteindre la sécurité alimentaire et nutritionnelle en vue améliorer la vie des populations à travers la réalisation des bas-fonds. Il invite par ailleurs tous les participants à travailler avec rigueur dans l'élaboration du présent document.

A la suite de ces allocutions, il s'est agi de la présentation du chronogramme et du document dont le plan de présentation est articulé autour de six axes:

- Contexte et Justification
- Description du programme
- Organisation et gestion
- Dispositif de suivi-évaluation
- Mesures environnementales et sociales
- Risques et mesures d'atténuation

Après la présentation du document, le président de séance a souligné que le coût du projet est estimé à cinquante-deux milliards environ et que parmi les résultats attendus du programme on note l'aménagement de 8450 ha de bas-fonds et 100 km de pistes rurales. Et à la suite les composantes relatives au programme de développement telles que l'organisation et la gestion, le système de suivi et d'évaluation, l'évaluation stratégique sociale et environnementale, et ls risque et les mesures d'atténuation ont été expliquées aux participants.

#### QUESTIONS

Après la présentation du document, les participants ont eu droit à la parole pour poser des questions et faire des observations et commentaires sur les six points; les questions et commentaires majeures étaient les suivants :

- M. SANON, directeur régional de la boucle du Mouhoun a fait ressortir qu'à la page 17 du document, les différents types de bas-fonds à réaliser ne sont pas spécifiés. En plus il n'est pas fait cas de la contribution des bénéficiaires.
- 2. Le directeur régional du centre nord a posé ces différentes questions :
  - Y a-t-il une répartition par régions des bas-fonds à aménager ?
  - Les puits maraichers sont-ils pertinents dans les bas-fonds ?
- 3. La Directrice régionale du centre a fait ressortir les éléments suivants :
  - Il y a des sigles qui manquent à la page 3, par exemple la JICA
  - Aux pages 12 et 13, la source des tableaux est à harmoniser car elles ne concordent pas.
  - A la page 15, parmi les contraintes, les problèmes fonciers ne sont pas mentionnés.
  - Page 20 : résultat C3 : il faut ajouter la transformation des produits agricoles.
  - Comme le type PAFR est mentionné majoritairement dans le document, comment réaliser ce type de diguette dans des localités où il y a insuffisance de moellons ?
- 4. M. SANON Cyr Gustave préconise de revoir les sigles et abréviations. Il a également souligné que les coûts de réalisation mentionnés dans les composantes et dans les tableaux ne concordent pas. Il préconise aussi qu'il faut évaluer la contribution des bénéficiaires et l'inclure dans le coût de réalisation.
- M. François LOURE de la DGFOMER a insisté sur la purge des droits fonciers en vue d'éviter les problèmes fonciers. Il a souligné qu'il faut prendre cet aspect au sérieux car il est fondamental pour la réalisation des œuvres.
- M. BAMOUNI Emmanuel aurait posé la question de savoir si, comme les intrants, les équipements étaient aussi subventionnés.
- 7. M. TRAORE a suggéré qu'un million pour les imprévus est une énorme somme.
- Pour M. Nana, il faut proposer dans le document, des types d'aménagement selon les types de sol.
- 9. Le directeur régional de l'est a souligné les problèmes suivants :
  - La pertinence des puits maraichers.
  - La contribution des bénéficiaires
  - La deuxième phase du projet n'est pas suffisamment abordée dans le document.
- 10. Le président de séance a fait ressortir les questions suivantes :
  - Le programme est-il exclusivement réservé à la riziculture ou à tout autre produit agricole ?
  - Est-ce-que les boulis seront efficaces vue leur coût ?

#### **ELEMENTS DE REPONSES**

- Concernant la contribution des bénéficiaires à la réalisation du projet, M. KAM de la DGESS fait ressortir qu'il y a des inquiétudes à ce sujet. Il fait ressortir qu'en effet, dans des projets antérieurs, leur manque de contribution a entaché la réalisation de projets bien que leur contribution ait été nécessaire et mentionnée dans le document. Quant aux questions relatives aux droits fonciers, il a fait ressortir qu'il sera difficile pour l'Etat de résoudre ce problème vue le coût élevé de l'indemnisation des propriétaires terriens.
- En ce qui concerne la deuxième phase du projet, l'objectif et les orientations sont les mêmes que la première phase.
- 3. Répondant à la question des types de diguettes à implémenter, M. SAWADOGO de la DGAHDI a fait savoir que ce programme est basé sur une expérience de douze ans vue le choix des types d'aménagement mentionnés dans le document. Quant aux questions relatives à la contribution des bénéficiaires, il a souligné que 53 bas-fonds ont été aménagés par les producteurs eux-mêmes avec l'appui de techniciens. En plus de cela, la contribution des bénéficiaires se fait généralement par la collecte des moellons. Quant aux boulis, il a affirmé qu'ils sont importants car ils sécurisent les bas-fonds en période de sécheresse d'où leur importance. En ce qui concerne les puits maraichers, il souligne que leur réalisation dans certains bas-fonds sert à appuyer les producteurs pendant la saison sèche mais il faut les réaliser quand c'est possible avec l'appui des spécialistes.
- 4. Concernant la question de la disponibilité de moellons posée par madame la directrice régionale du centre, il a répondu que tous les bas-fonds de type PAFR ne nécessitent pas de moellons et il a ajouté que si la source des moellons est à plus de 4 ou 5 km du site, la collecte des moellons est abandonnée pour des raisons économiques. En ce qui concerne les questions foncières, une réflexion plus approfondie doit être faite pour éviter les problèmes fonciers.

## SYNTHESE DES ECHANGES

- 1. Proposition d'amélioration sur la forme et le fond du document
- 2. Echange sur la sécurisation foncière
- 3. La contribution des bénéficiaires est à discuter
- 4. La question de la recherche développement doit être intégrée dans le document

Le président de séance a demandé aux participants de voter pour la validation le plan national d'aménagement incluant les 6 points tels que i) le contexte et les raisons, ii) description du programme, iii) organisation et gestion, iv) système de suivi et évaluation, v) évaluation stratégique sociale et environnementale, vi) risques et mesures d'atténuation. Les participants ont accepté valider le plan national d'aménagement par acclamation. Le président de séance a remercié tous les participants pour leur contribution avant de clore la séance à 12:45.

N°	Nom	Prénom	Service
01	LINGANI/TOURE	Sérinatou	DGAHDI/Membre
			du comité
02	COULIBALY	Aboubacar	DGAHDI/Membre
			du comité
03	BAMOUNI	Emmanuel	DPPO/DGESS
			MAAH
04	ZERBO	Dieudonné	DGAHDI
05	KABORE	Franck	SASE/DGAHDI
06	TRAORE	Dramane	DSEC/DGESS
07	SANON	Abdramane	DRAAH Plateau central
08	OUEDRAOGO	Julien	DRAAH
09	KAMBOU	Koumbou Hermann	DGESS/MAAH/DC PP
10	DIANE	Jackson	
10	DIANE	Bakoïba	DRAAH Cascades
11	SAGNON	Massiafa	DRAAH Centre ouest
12	LOURE	K. François	DGFOMR MAAH
13	BAYE	Michel	DGESS/MAAH
14	WAONGO	Inoussa	DRAAHR/SHL
15	TRAORE	Sissandebe Albert	DRAAH/SO
16	DORO/DAO	Kadidia	DRAAH centre
17	SAMON	Cyr Gustave	DRAAH BMH
18	OUEDRAOGO	Ebréïma	DRAAH - CES
19	NANGO	Yacouba	DRAAH-CN
20	TOURE	Adama	DGESS/MAAH
21	OUEDRAOGO	Issa	DGESS/MAAH
22	NIKIEMA	R. Pierre	DGPER
23	BARRO	Brama	SG/MAAH
24	KONKOLE	Michael	DGAHDI
25	SAWADOGO	Yuko	JICA
26	HIKASA	Motoyoshi	Team leader of the Jica study team
27	SOME	Edwige	JICA
28	ZANGRE	Adolphe	DAH DGAHDI
29	SAWADOGO	Tasséré	DGAHDI
30	DABIRE	Frédéric	DDI DGAHDI
31	NIKIEMA	Patarbtalé Joseph	DRAAH Est
32	BORO	Adama	DRAAH-N
33	ZOUNGRANA	Martin	DGCOOP
34	NANA	Aimé	DRAAH/CSD
35	OUEDRAOGO	Siméon	BUNEE
36	SAWADOGO	Arzûma	DGEP/MINEFID
37	NIGNAN	B. Christian Brice	DGEP/MAAH
39	LOLO	Viniyi	DGPV
40	OUATTARA	Céline	DGAHDI
40	KAM	Ollé Arnaud	DGESS/MAAH
42	KAGAMBEGA	O. Paul	DGAHDI
43	KABRE	Hamadou	DGESS/MAAH
43	TRAORE	B. Nathalie	DGAHDI
45	SOBGO	T. Diane	DGAHDI
45	SINKONDO	Elizabeth	DGAHDI DGMA
17	DIDIRO	N. K. C. 1	DOW
47	YAOLIRE	Nadine Sugrinoma	DGIH

# LISTE DE PRESENCE DE L'ATELIER DE VALIDATION DU PROGRAMME NATIONAL D'AMENAGEMENT DE BAS-FONDS AU BURKINA FASO

# ANNEXE ANNEXE VIII: SIMPLIFIED PROJECT DESIGN MATRIX

# VIII.1. SIMPLIFIED PROJECT DESIGN MATRIX

Project Title	Dev	elopm		roject	for ba	as-fon	ds PR	P typ	e				
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES ✓	CA	HB	SO
Target Groups	-	Farme	rs	v	v	v	v		v	v	v	v	v
Implementing Agency		DGAH											
Potential Collaborators				WB, A	DRI	FAD	FII						
<b>Objectives:</b> To develop lo country.								north	nern a	nd cer	ntral p	oarts o	f the
<b>Rationale:</b> PRP type digutte is a low of flood. In northern and cen Therefore, there are many p slowly than southern part w This project aims to enhanc	tral p poten hen a	oart of itial ar i flood	Burk eas fo occu	tina Fa or cons rs.	iso, it truction	has l on of	little r PRP t	ainfall ype di	and gutte,	the la becau	nd slo ise the	pes ge e river	ently runs
enabled to increase rice pro-	ducti		farmiı	ng prac	tice in	nprov	ement	of ric	e culti	ivatior	n for b	enefic	ially.
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation			1			1			1	1	1		
• Farm land in bas-fond							<b>ment</b> farm la						
<ul> <li>type digutte</li> <li>No. of rice farmer is inc</li> <li>Farming practice for rice</li> <li>Major Activities with the l</li> </ul>	e farr	ners is			Pro	oducti	enefici on vol ost (EU	ume a	nd yie			d Sou	rces
Construction of PRP type di Improvement of drainage Training for Operation and E Construction of shallow use(fittingly) Construction of pond for en Establishment of groups strengthening of group man Initial assistance for inputs of Assistance for farming prac	Main wel nerge of agem of ric	tenanc l for ncy us benefi ient e culti	eme e(fitti iciarie vation	ngly) es and	lan s e	d; e.g	e size g. USI ted ur	D 1,20	00/ha		AAH,	Dono	rs
Project Risk:	d far	m-land	l due	to crop			flood a lack o		•		•		•

Project No.2													
Project Title	Dev	elopm	ent p	roject	for ba	ıs-fon	ds PA	FR ty	pe				
<b>Priority in Province</b>	ND	SA	CN	BM	CO ✓	PC	CT	CS	CE	ES	CA	HB	SO ✓
Target Groups	-	Farme	rs gro	ups ar	ound a	ı lowla	and	1 -	1 -		1 -		
Implementing Agency		DGAH	-	-									
Potential Collaborators				WB, A	DB. I	EU							
<b>Objectives:</b> To develop lo country.							inly ir	n cent	ral an	d sout	hern j	parts o	f the
Rationale:													
From the central to souther	m nar	t of B	urkina	Faso	the ri	ver m	ıns fas	ter wł	ien a	flood (	occurs	also	there
are many steep slope rathe													
is suitable for construction													., .,
This project aims to enhan												PAFR	type
digutte. Also, it will be en													
cultivation for beneficiaries				1			2	01		1			
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
			[					l I				Ι	
Expected Outputs							ment ]						
• Farm land in bas-fond	s is i	ncreas	ed by	PAFR	Ar	ea of f	àrm la	and in	bas-fo	onds			
type digutte													
• No. of rice farmer is inc	crease	ed					enefici						
Techniques for rice farm	ners i	s impr	oved		Pro	oductio	on vol	ume a	nd yie	eld of 1	rice		
Major Activities with the	Expe	cted C	)utpu	ts	To	tal Co	ost (El	JR)		Ey	xpecte	ed Sou	rces
Construction of PAFR type	digu	ette			Up	on th	e size	e of the	he lov	w M	AAH,	Donor	rs
Installation of drainage fact							g. USI			i			
Training for operation and						stima	ted ur	nit cos	st.				
Construction of shallow	wel	l for	eme	rgency	r								
(fittingly)													
Construction of pond for er													
Establishment of groups			iciarie	s and									
strengthening of group mar			<i>.</i> .										
Initial assistance for inputs													
Assistance for farming prac	ctice of	of rice	cultiv	ation									
Project Risk:	and fo		a da da a	. +		fue	flood	م م م		+ +1= = -	1	f .]:	antt a
Renouncement of develop					-				•		•		-
from flood, lack of operat insufficient cost-effectiven													
casual laborer, running othe										meetr	ve aci	livities	(ex,
Environment Assessment		mess,	anuvi	ai 111111	ing, u	ansaci	1011 01		inuj.				
An Environmental and S		Imnac	et Ass	sessme	nt for	• this	nroie	ect sh	all he	e cono	lucted	once	the
implementation of the project							proje	<i>S</i> 1 511			acted	, 01100	uic
projec	u	.p. 0, 0			550								

Project No.3													
Project Title	Reh	abilita	ation <sub>j</sub>	projec	t for l		nds P	RP tyj	pe				
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	СТ	CS	CE	ES	CA	HB	SO
Target Groups		✓ Farme	✓ rs gro	ups are	✓ Jund e		_ ✓ and	1	1	1	1	1	1
Implementing Agency		DGAI		ups ar	Juna	10 10 10	anu						
Potential Collaborators				WB, A	DR 1	FAD	EU						
<b>Objectives:</b> To secure the								velone	ed ha	s-fond	ls farı	m lan	d by
rehabilitation of PRP type			., 01	1100	cultiv	ation	in de	verope	Ju Ju	5 10110	is full	in iun	u oy
Rationale:		-											
The PRP type digutte is d	amage	ed by	a floo	od freq	uently	y and	operat	tion ar	nd ma	intena	ince c	ost be	come
costly in bas-fonds develo	opmen	t farn	n-land	area	by PF	P typ	e. The	erefore	e, the	benef	iciarie	es renc	unce
	I in some cases. In addition, if discharge is insufficient or inflow interval is long on, there is concern that beneficially would be renounced their bas-fond farm land. ect aims to secure continuity of rice cultivation in bas-fonds farm-land by upgrade from AFR type, rehabilitation of drainage facility and enhancement the resistance against f low well and pond construction will be implemented for emergency use.	than											
											ce aga	ainst f	lood.
											2020	2020	
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation		ī							1		1		
Francisca de Origanization								Lee dite e	4				
Expected Outputs	1			1 1				Indica itatior					
• Farm land in bas-f				5			enaon	nation	1				
rehabilitation of digu PAFR type	tte Ir	om P	KP L	ype ic	)								
<ul> <li>Actual rice cultivation :</li> </ul>		inono	anad		Δr	ea of a	etual	rice cu	ltivat	ion			
<ul> <li>Production volume of r</li> </ul>								ume o		1011			
• No. of rice farmer				a riac	3.7			eficiall		ho re	esume	the	rice
cultivation is increased		ICSUL	ne th			tivatio			5				
Major Activities with the		cted (	Jutnu	te	То	tal Co	st (El	TR)		F	necte	ed Sou	rces
Rehabilitation to PAFR typ			Juipu	13			<u>```</u>	of the	ne los			Dono	
Rehabilitation of drainage								D 500				Dono	15
Construction of shallow			eme	rgency				it cost		15			
use(fittingly)				-8j									
Construction of pond for en	merge	ncy us	e(fitti	ngly)									
Training for operation and				0.,									
(as necessary)													
Additional assistance	for	streng	thenir	ng of	Ĩ								
beneficiary group manager													
Initial assistance for inputs													
Assistance for farming practice	ctice c	of rice	cultiv	ation									
Project Risk:	1.0				1	C	a .					0.11	
Renouncement of develo													
from flood, lack of operation													
insufficient cost-effectiven										enectr	ve act	ivities	(ex;
casual laborer, running oth	er ous	iness,	anuvi	ai min	ing, ti	ansaci	uon of	the la	.na).				

# Environment Assessment:

Project No.4													
Project Title	Reh	abilita	tion <b>j</b>	orojec	t for t	oas-fo	nds PA	AFR					
Duiovity in Duovingo	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
Priority in Province	1		1	1	1	1	1	1	1	1	1	1	1
Target Groups	•	Farme	rs gro	ups are	ound a	ı lowla	and						
Implementing Agency		DGAH											
Potential Collaborators	•	KfW, I	FAO,	WB, A	DB, I	FAD, I	EU						
Objectives: To secure th			y of	rice of	cultiva	ation	in de	velope	ed ba	s-fond	s farı	n lano	1 by
rehabilitation of PAFR type	e digu	tte											
Rationale:													
In bas-fonds farm land dev													
operation and maintenance										terval	than e	xpecta	tion,
there is concern that benefic													
Therefore, this project aims													
by improvement or upgra													
alteration to mortal stone													
against a flood by additiona							rainag	ge faci	littles.	Also,	shallo	w wei	l and
pond construction will be in	2019	2020	2021	2022	2023	e. 2024	2025	2026	2027	2028	2020	2030	
Project Implementation	2017	2020	2021	2022	2025	2021	2025	2020	2027	2020	2020	2050	
Implementation		1	1				1	1	1	1	1		
Expected Outputs					Do	voloni	ment ]	Indica	tors			l	
<ul> <li>rehabilitation of digut PAFR type</li> <li>Actual rice cultivation a</li> <li>Production volume of ri</li> <li>No. of rice farmer cultivation is increased</li> </ul>	area is ice is who	s increa increa resun	ased sed ne th	e rice	Arc Pro No cul	oductio . of tivatio		ume o ficiall	f rice	no re			
Major Activities with the			)utpu	ts			st (El					d Sou	
Enhancement to PAFR type Additional construction drainage facility Construction of shallow (fittingly) Construction of pond for en Training for Operation necessary) Additional assistance f beneficiary group managem Initial assistance for input of Assistance for farming prace	or wel nerge and for nent of rice	enhar l for ncy (fi Main streng	eme ittingly tenance thenin ration	rgency y) ce (as g of	l lan s c	d; e.g	e size ;. USI on uni	2,00	)0/ha		ААН,	Dono	rs
Project Risk: Renouncement of develop from flood, lack of operat insufficient cost-effectiven casual laborer, running othe Environment Assessment:	oed fa ion a ess (e er bus	rm-lar nd ma ex; lał	nd due nagen oorer	to cro nent o cost, 1	f digu nateri	tte, la al inp	ck of out), h	mana igher	gemei cost-e	nt skil	l of b	enefic	ially,

Project No.5	_												
Project Title	Mic	ro bas	in cor			v.			crop:		_		
<b>Priority in Province</b>	ND	SA ✓	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
•				1	1	1	1	1	1	1			
Target Groups		Farme		ups ar	ound a	a lowla	and						
Implementing Agency		DGHA											
Potential Collaborators		KfW,											
<b>Objectives:</b> To increase								con:	structi	on of	micr	o basi	n in
insufficient surface water a	rea (r	lot suit	able I	or rice	cultiv	ation	).						
Rationale:			• ,	· c 1	1 1/		· · ·		, n	.1			
When the bas-fonds area f													
that to reduce the develop													
natural condition is suitab													
production increase by con													
well will be constructed	lor e	merge	ncy u	se. Do	cause	, 11 S	urrace		vanao	le, Il	15 855	umea	mgr
groundwater level.	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	<u> </u>
Project Implementation	2017	2020	2021	2022	2025	2021	2020	2020	2027	2020	2020	2000	
Implementation		1	1	1	1	1	1	1	1	1	1		
Expected Outputs					De	velon	ment	Indics	ators				
• Area of upland field	in h	1s-fond	ls hv	micro					rm lar	nd			
basin is increased	in ot	45 IOIN	15 0 9	merc	,			P • • • •					
<ul> <li>Production volume of</li> </ul>	unla	nd file	ed cro	ons are	Pro	oductio	on vol	ume o	fupla	nd fiel	ld croi	os	
increased	apra			ps ur					1		1		
Major Activities with the	Expe	cted C	Jutpu	ts	To	tal Co	st (El	UR)		Ex	xpecte	d Sou	rces
Construction of micro basi									he lov			Donor	
Training for construction	n of	micro	basi	n and					00/ha		,		
operation and maintenance							on un						
Construction of shallow v		for em	ergen	cy use									
(fittingly)			0	•									
Construction of the p	ond	for	groun	dwate	r								
recharge(fittingly)			-										
Assistance for strengtheni	ng of	benef	ïciary	group	)								
management													
Initial assistance for inputs	of up	land fa	arming	g									
Assistance for farming pra-	ctice of	of upla	nd far	ming									
Duciaat Disk.													
Project Risk: Renouncement of develop	ad fo	rm lor	d dua	to or	n la	no from	mof	bod	lack a	f mar	0000	ont als	11 ~
Renouncement of develop													
groups of beneficiaries, h alluvial mining, transaction				ve act	ivities	(ex;	casua	ii iauc	лсı, Г	umm	g ouie	a ousi	ness
Environment Assessment			<i>)</i> .										
Environment Assessment	•												.1

Project No.6													
Project Title	Bou		nstruc	tion p	roject								
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
	~		1	✓	1	1	1	1	1	1	1	1	1
Target Groups			-	ups are	ound a	ı lowla	and						
Implementing Agency	•	DGHA	٩DI										
Potential Collaborators				WB, A									
Objectives: To increase	produ	ction	volur	ne of	rice	by sta	ably c	ultiva	ting t	he ric	e thr	ough	bouli
construction													
Rationale:				0									
Improvement of digutte is													
unstable to be affected by													
change, it had occurred du													
bas-fonds area for product boulis. Bouli is a small sca												siluctio	01 01
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation		1	1				1	1	1	1	1		
Implementation			1					1	1				
Expected Outputs		1	I		De	velop	ment	Indica	ators				
Installation of Boulis							ouli an			lv area	a		
Construction of irrigation	ion di	tch (s	uitable	e nlace								n ditch	l
only)	ion ui	ten (b	unuon	e place	, 						0		
Major Activities with the	Expe	cted C	Jutpu	ts	To	tal Co	st (El	JR)		Ex	specte	d Sou	rces
Construction of Bouli							e size		boul			Dono	
Construction of irrigati	on di	tch (S	uitabl	e place	-		SD 75						
only)		(		1	is	estima	ated u	nit co	ost.				
• Establishment of grou	ps of	bene	ficiari	es and	L								
assistance for group ma													
• Development of	bus-	fonds	(0	liggute	;								
improvement)													
Construction of drainage													
• Training for operation	n and	1 mai	ntena	nce of	2								
bouli (as necessary)													
Initial assistance for inp	out of	rice c	ultivat	tion									
Assistance for farm	ing	praction	ce o	f rice	;								
cultivation													
Project Risk:	~												
Break down of bouli due to			a										
Decrease water level due to					1								
Infestation of mosquito and		rrence	ot M	alaria	due to	bouli	const	ruction	n				
Environment Assessment		Imac	st ∧-		nt fa	, thi-	-	not al-	all L-		لمعمدة	0.00	the
An Environmental and S implementation of the project							proje	ect sh	all be	e cono	ucted	, once	the
implementation of the project	1 15 df	prove	u with	mane	1a1 SOL	nces.							

												Durki	
Project No.7	БТ	1 .1		61	•								
Project Title				of bou		DC	OT	CC	CE	FC	CA	IID	50
<b>Priority in Province</b>	ND ✓	SA	CN	BM ✓	CO ✓	PC ✓	CT	CS	CE	ES ✓	CA	HB ✓	SO
-			-					~	~	~	~	~	1
Target Groups				ups are	ound a	i lowla	and						
Implementing Agency		DGHA				TT							
Potential Collaborators				WB, A			<u> </u>		6	1			1
<b>Objectives:</b> To secure correlabilitation of boulis	ntinui	ty of	rice	cultiva	tion i	n bus	s-fonds	area	for j	produc	ction	increas	e by
Rationale: water storage volume of B Those boulis are necessary spillway. This project aim production decrease by reh	to ma s to s	ike dre ecure	edging stabil	g, reha ity of	bilitati	ion, es	stablis	hment	/ exter	nsion/	reinfo	orceme	nt of
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation				I			I				I		
Implementation			l				ĺ		l		1		
Expected Outputs					De	veloni	ment ]	[ndica	tors				
<ul> <li>Rehabilitation of irrigat</li> <li>Major Activities with the         <ul> <li>Rehabilitation of bo spillway)</li> <li>(as necessary)</li> <li>Additional training maintenance of boulis</li> <li>Additional assistance cultivation</li> <li>Additional assistance rice cultivation</li> </ul> </li> </ul>	Expedulis for for	cted O (body open inpu	<b>Jutpu</b> , dre ration ts of	ts dging, and f rice	Tot Up e. is	t <mark>al Co</mark> on the g. US	habilit st (EU e size SD 25 ated u	J <b>R)</b> of a 0,000/	bouli place	Ex i; M	xpecte	ed Sou Dono:	
Project Risk: Break down of bouli due to Decrease water level due to Infestation of mosquito and Environment Assessment: An Environmental and S implementation of the project	o sedir <u>l occu</u> : ocial	nent in <u>rrence</u> Impac	of M	sessme	nt foi	this				cond	ducted	, once	the

Project No.8													
Project Title				struct ent wa					ency v	vater	supply	y facili	ities
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
- Target Groups	•	✓ Formo		✓ ups ar	✓ ound a		✓ nd	1	1	1			
Implementing Agency		DGH/		ups ar	ound a	liowia	anu						
Potential Collaborators				WB, A	DB. F	EU							
<b>Objectives:</b> To prevent firi & insufficient rainfall)							emerge	ency u	se aga	ainst si	mall ri	unoff v	water
Rationale: In case of bas-fonds devel volume of water inflow (ra of soil moisture content. sufficient during flowering the damage of paddy from water for emergency use.	infall) Partice period unstal If the	. If an ularly, d. It is ble wa pond	interv yield neces ter in equiv	val of l will ssary t flow. S	rainfal be de o secu Small	l is lo creasi re irri pond o	ng, pa ng sig gation	ddy w gnifica water uction	ill be intly i for er will b	affecto f wate merger be exp	ed by a er volu ncy us ected	insuffi ume is e to re to stor	cient s not educe re the
ponds will be constructed in	n targe 2019	et area	2021	2022	2023	2024	2025	2026	2027	2028	2020	2020	r
Project Implementation	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation				<u> </u>			1	1	1	1	1		
Expected Outputs		1	I		De	velopi	ment ]	Indica	tors				
<ul> <li>Small pond</li> <li>Irrigation ditch (as nece</li> </ul>	essary	)						ond co n ditcl				cially a s	area
Major Activities with the			output	ts	Tot	tal Co	st (El	J <b>R)</b>		Ex	pecte	d Sou	rces
<ul> <li>Construction of small drilling, spillway)</li> <li>(as necessary)</li> <li>Training for operation small pond</li> </ul>	-	x			1 0/ 0	oond;	e.g.	e of a USD timate	150,0	0	ААН,	Dono	rs
<ul> <li>Assistance for inputs of</li> <li>Assistance for farm cultivation</li> </ul>				f rice	•								
<b>Project Risk:</b> Break down of bouli due to Decrease water level due to Infestation of mosquito and	o sedir l occu	nent ii		alaria	due to	bouli	const	ruction	1				
<b>Environment Assessment</b> : An Environmental and S implementation of the project	ocial						proje	ect sh	all be	cond	lucted,	once	the

Project No.9													
Project Title									wate	r supj	ply fa	cilities	
									CE	FC		IID	
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT				CA	HB	SO
Target Groups		Farme		-	-					•			
Implementing Agency		DGHA		1									
Potential Collaborators	•	KfW, I	FAO,	WB, A	DB, F	EU							
<b>Objectives:</b> To irrigate the	grour	ndwate	r for e	emerge	ency w	vater s	upply						
Rationale:													
of soil moisture content.	Partic	ularly,	yield	l will	be de	creasi	ng sig	gnifica	ntly i	f wate	er vol	ume i	s not
sufficient during flowering	perio	d. It is	neces	sary t	o secu	re irri	gation	water	for en	nerge	ncy us	se to re	educe
the damage of paddy from	unsta	ble wa	ater in	flow.	Constr	uctior	n of sh	allow	well (	using	grour	nd wat	er) is
one of the solution to secur	re the	irrigat	ion w	ater fo	or eme	rgency	y use,	becau	se gro	und w	ater lo	evel is	high
in the bas-fonds area during													•
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
			1				1	1	1	1			
Expected Outputs					De	velop	ment	Indica	tors				
Shallow well										struct	ion, l	benefic	cially
• Irrigation ditch (as nece	essarv	)			are								2
	, and the second s	)			No	. of cc	onstruc	ction s	ite of	irrigat	ion di	tch	
										U			
Major Activities with the	Expe	cted <b>C</b>	)utpu	ts	Tot	tal Co	st (El	JR)		Ex	xpecte	ed Sou	rces
Construction of shalle	w we	ell (bo	ring	hole、	Up	on th	e size	e of a	smal	1 M	AAH,	Dono	rs
protection of hole)			•		I	oond;	e.g.	USD	150,0	0			
1					0/	place	is es	Image: state of intervention of the state of the state of intervention of the state of the s					
(As necessary)						cost.							
• Training for operation	n and	1 mai	ntenar	nce of	f								
shallow well													
• Assistance for inputs of	f rice o	cultiva	tion										
Assistance for family				rice									
cultivation		praetre	0 01										
Project Risk:													
Damage from a flood, seding	ment i	nflow											
				excess	sive n	ımnin	σ in th	e latte	r half	of the	rainv	seaso	n
riogrossion of low ground				21000	n e pi	*mhm	5 11		1 11411	51 1110	runny	50450	
<b>Environment Assessment</b>	:												
An Environmental and S		Impac	t Ass	sessme	nt foi	this	proje	ect sha	all be	cond	lucted	, once	the
implementation of the project							1 J-					,	
in promonation of the project		'L'''		munt									

Project No.10													
Project Title	Inst	allatio	n of g	gravity	' irrig	ation	facilit	ties					
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
-	1		1	1	1	1	1	1	1	1	1	1	1
Target Groups				ups ar	ound a	a lowl	and						
Implementing Agency		DGHA											
Potential Collaborators				WB, A			0			0 11			
<b>Objectives:</b> To enhance irri	igatio	n tarm	ung b	y the 11	nstalla	ition o	of grav	ity irri	gatior	1 facili	ities		
Rationale:													
As the next phase of the b	as-fo	nde d	evelo	nment	only	for di	autte d	ronstr	uction	this	nroiec	t nron	notes
stability irrigation farming													
bas-fonds in a large river b													
perennial river, the water w													
be supplied from small-med													
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation				1			l	1	L		l		
Expected Outputs							ment						
Gravity irrigation sy									gation	syst	em co	onstruc	tion,
irrigation ditch, drainage d	litch,	aqued	uct fa	cilities	ber	neficia	ally are	ea					
such as diversion works)													
Irrigation ditch (as nece		/											
Major Activities with the			-				ost (El					d Sou	
• Construction of grav					-		e scal				AAH,	Donor	:S
(intake facility, irrigation							igatio D 1,20						
aqueduct facilities such as					-		ted ur			1			
<ul> <li>Training for operation irrigation facilities</li> </ul>	n and	1 mai	ntena	nce of	50	stima	ieu ui		51.				
inigation facilities													
(As necessary)													
Assistance for inputs of	rice	cultiva	ntion										
Assistance for farmi				f rice									
cultivation	ing	practiv		1 1100	,								
Project Risk:					-					1			
Structural damage of intake	facil	ities fi	om a	flood.	sedim	ent in	flow						
Costs of operation and main													
<b>Environment Assessment:</b>			<u>U</u>										
An Environmental and So	ocial	Impac	et As	sessme	nt for	r this	proje	ect sh	all be	e cono	ducted,	once	the
implementation of the projec													

													14 1 450
Project No.11	-												
Project Title		allatio	-	-		-							
<b>Priority in Province</b>	ND	SA ✓	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
Target Groups	•	Farme	rs gro	ups ar	ound a	a lowla	and	-	1 -	-		-	-
Implementing Agency		DGH/											
Potential Collaborators	•	KfW, I	FAO,	WB, A	DB, I	EU							
Objectives: To produce	high-	value a	agricu	ltural <sub>]</sub>	produ	ets by	instal	llation	of pu	mp irr	igatio	n facil	ities,
where it has sufficient w													
Rationale: The pump irrig													
dealing with high-value ag													
produce high-value agricu													
where have sufficient wate												hall als	so be
introduced to those places i	in ord	er to s	ave ru	el cosi	and r	eaucii	ng wa	ter sup	oply ar	nount.			
The recommended crops u	nder t	he nro	iect a	re veg	etable	s in di	v sea	son su	ch as i	tomate	o. onio	on, cab	bage
etc. In order to enhance th													
vegetable production in o													
considered to collaborate w	•							- ·				/	
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
•									I				
Expected Outputs					De	velop	ment	Indica	ators				
• Water resource for pun	np irr	igation	(pon	d, wel	l No	. of	È wa	ater	saving	g irr	igatio	n sy	stem
etc)					coi	nstruct	tion, b	enefic	ially a	rea			
• Pumping equipment or	water	r suppl	y facil	lities									
Water saving irrigation	syste	m											
Major Activities with the	Expe	cted C	)utpu	ts	To	tal Co	st (E	UR)		Ex	pecte	ed Sou	rces
Water sources develops	ment i	for pur	np irri	igatior	-				l num		ААН,	Donor	rs
(construction of pond, v	well)								ilities;				
Construction of pump	p equ	uipmer	nt or	water					is es	ti			
supply facilities					ma	ted u	nit co	st.					
Construction of water s	aving	g facilit	ties										
• Training for operation	n an	d mai	ntenar	nce of	f								
water saving facilities													
Assistance for inputs of	f wate	er savir	ng farr	ning									
Assistance of water sav	ing fa	arming	pract	ice									
Project Risk:													
Possibility that burden of e	xpens	ses for	renov	ation f	aciliti	es(car	n't be s	supplie	ed)				
Salt accumulation													
Depletion of groundwater s		e in the	e latter	half c	of the	dry sea	ason						
Environment Assessment		_			_								
An Environmental and S							proj	ect sh	all be	cond	lucted	, once	the the
implementation of the project	ct is aj	pprove	d with	financ	1al sou	irces.							

Project No.12													
Project Title		seasoi		' shallo	ow we	lls for	r marl	ket or	iented	kitch	_	rdeni	ng in
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
Target Groups	-	Farme	rs gro	ups are	ound a	ı lowla	and	v	•	•	•	•	v
Implementing Agency		DGHA		<u> </u>									
Potential Collaborators				WB, E	U								
<b>Objectives:</b> To produce						cts in	the p	otenti	al are	a of i	rrigati	on far	ming
from ground water sour	•		•				1				C		e
Rationale:													
Groundwater of bas-fonds	area	is a v	aluabl	e wate	er sou	rce in	the d	ry sea	ason a	nd it	enable	e to en	igage
kitchen gardening for the													
much water volume so the													
purposes.													
The shallow well constru-	ction	is pop	oular t	technic	jue w	ithout	requi	iring l	high t	echno	logy,	so tha	t the
project implementation v	vill b	e effe	ective	in te	rms	of co	st eff	icienc	y, teo	chnica	l leve	el, an	d its
sustainability. And then, th	nis pro	oject a	ims to	o produ	ice hi	gh-val	lue ag	ricultı	ıral pr	oduct	s and	selling	g at a
high price in the market by	y secu	iring t	he wa	ter sou	rce in	the d	lry sea	lson; t	hen, r	ecom	nende	d crop	s are
such as tomato, onion, cab	bage e	etc. In	order	to enh	ance 1	the pro	oject e	ffect,	techni	cal co	opera	tion pr	oject
such as 'technical support	on ve	getabl	e prod	luction	in dr	y seas	on for	the f	armer;	'(see	No.1:	5 proje	ect of
this format) shall be consid	lered t	o colla	aborat	e with		roject	for ob	otainin	g syne	ergy e	ffect e	ach ot	her.
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation		1	1			l	1			1			
Expected Outputs							ment l						
Shallow well					No	. of	shallo	w we	ll cor	struct	ion, 1	benefic	cially
Pumping equipment (as	s nece	ssary)			are	a							
Major Activities with the	Expe	cted C	Jutput	ts	Tot	tal Co	st (El	JR)		E	pecte	ed Sou	rces
Construction of shalle	w we	ell (bo	oring 1	hole、	Up	on the	e scal	e and	num	b M	AAH,	Dono	rs
protection of hole)			-		er	of irr	igatio	n faci	lities;				
•							<b>)</b> 1,00		is est	i			
(As necessary)					ma	ted ur	nit cos	st.					
• Training for operation	n and	1 mai	ntenar	nce of	•								
shallow well													
	f agric	cultura	l prod	ucts in									
Assistance for inputs of			1										
• Assistance for inputs of the dry season													
the dry season		tice of	agric	ultural									
-	, pract	tice of	agric	ultural									
<ul><li>the dry season</li><li>Assistance for farming</li></ul>	, pract	tice of	agric	ultural									
<ul><li>the dry season</li><li>Assistance for farming products in the dry season</li></ul>	, pract	tice of	agric	ultural									
<ul> <li>the dry season</li> <li>Assistance for farming products in the dry sease</li> <li>Project Risk:</li> </ul>	g pract					lry sea	ason						
<ul> <li>the dry season</li> <li>Assistance for farming products in the dry sease</li> <li>Project Risk:</li> <li>Salt accumulation</li> </ul>	g pract					lry sea	ason						
<ul> <li>the dry season</li> <li>Assistance for farming products in the dry sease</li> <li>Project Risk:</li> <li>Salt accumulation</li> <li>Depletion of groundwater sease</li> </ul>	g pract	in the	e latter	half o	f the c			ct sh	all be	cond	lucted	, once	e the
<ul> <li>the dry season</li> <li>Assistance for farming products in the dry seas</li> <li>Project Risk:</li> <li>Salt accumulation</li> <li>Depletion of groundwater sease</li> <li>Environment Assessment</li> </ul>	g pract	in the	e latter	half o	f the c				-11 1		1		

Project No.13													
Project Title					alifor	nia ir	rigati	on fac	ilities	for d	ry sea	son	
Troject The		ket ga		<u> </u>		_				<b>-</b>	<b>1</b>		
Priority in Province	ND ✓	SA	CN ✓	BM ✓	CO ✓	PC ✓	CT ✓	CS ✓	CE ✓	ES ✓	CA ✓	HB ✓	SO ✓
Target Groups	• ]	Farme	rs gro	ups ar	ound a	ı lowla	and						
Implementing Agency	• ]	DGHA	١DI										
<b>Potential Collaborators</b>		KfW, I											
<b>Objectives:</b> To produce his									liforni	a irrig	ation	faciliti	es in
the potential area of irri Rationale:	gation	1 deve	lopme	nt and	high	marke	tabilit	y					
In a semi-California irrigat as furrow irrigation. For installation site should hav enables selling high-value a produce the high-value agri addition, this system mostly	the in e suffi gricul cultur	nstalla icient v tural p al proc	tion of water so or oduct ducts l	of irrig source ts. Wh by the	gation for irr en tho instal	facili igation se cor lation	ties, t 1 deve 1dition 0f Sei	the pu lopme s are s mi-Cal	ımp w nt. Als satisfie	vater i so, it h ed, it v	is nec as the will be	essary marke enabl	and t that ed to
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
Implementation									I	<u> </u>	I		
Expected Outputs					De	velopi	nent ]	Indica	tors	I			
<ul> <li>Water source for pump etc)</li> <li>semi-California irrigation</li> </ul>	on fac	ilities			cor	struct	ion、			area	gation		lities
Major Activities with the						tal Co					specte		
• Water source developm irrigation facilities (con						on the					AAH,	Donoi	S
<ul> <li>well)</li> <li>Construction of sen facilities</li> <li>Training for operation semi-California irrigation</li> <li>Assistance of inputs</li> </ul>	ni-Cal n and on fac	ifornia I main ilities	ı irri	gatior	e.g. mat	of irri . USI ted ur	6,00	)0/ha	lities; is est				
<ul> <li>well)</li> <li>Construction of sen facilities</li> <li>Training for operation semi-California irrigation</li> <li>Assistance of inputs</li> <li>Assistance for faming provide the sentence of the sen</li></ul>	ni-Cal n and on fac	ifornia I main ilities	ı irri	gatior	e.g. mat	. USE	6,00	)0/ha					
<ul> <li>well)</li> <li>Construction of sen facilities</li> <li>Training for operation semi-California irrigation Assistance of inputs</li> <li>Assistance for faming project Risk: Possibility that burden of en Salt accumulation</li> </ul>	ni-Cal n and on fac <u>practic</u> xpens	ifornia I main ilities e es for	n irri	gation nce of ation c	e.g. mat	. USI ted ur	) 6,00 nit cos	)0/ha st.	is est	ti	oplied)		
<ul> <li>well)</li> <li>Construction of sen facilities</li> <li>Training for operation semi-California irrigation</li> <li>Assistance of inputs</li> <li>Assistance for faming project Risk:</li> <li>Possibility that burden of explanation</li> <li>Depletion of groundwater semi semi semi semi semi semi semi semi</li></ul>	ni-Cal n and on fac <u>practic</u> xpens	ifornia I main ilities e es for	n irri	gation nce of ation c	e.g. mat	. USI ted ur	) 6,00 nit cos	)0/ha st.	is est	ti	oplied)	1	
<ul> <li>well)</li> <li>Construction of sen facilities</li> <li>Training for operation semi-California irrigation Assistance of inputs</li> <li>Assistance for faming project Risk: Possibility that burden of en Salt accumulation</li> </ul>	ni-Cal n and on fac <u>oractic</u> xpens <u>cource</u>	ifornia I main ilities e es for in the	ntenar renova	agation ace of ation c	of wate	. USI ted ur er savi dry sea	ng fac	)0/ha st. silities	is est (can't	ti be sup			the

Project No.14													
Project Title	Inst	allatio	on of t	he wa	ter sa	ving i	rrigat	ion sy	stem				
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
	1		1	1	1	1	1	1	1	1	1	1	1
Target Groups				aff (w	orkers	), Fari	mers g	groups	aroun	d a lo	wland		
Implementing Agency		DGHA											
Potential Collaborators				WB, A									
<b>Objectives:</b> To produce system considering fue marketable place for se	l cost	reduci	ing in	install	ed are	a of p	ump in	rrigati					
Rationale:													
This project aims to produce system considering fuel constalled, and it shall have saving irrigation system, do dry season. In order to enhance the production in constant of the production in constant of the production of the system of the	ost re a ma rip in projec dry se	educing rketab rigatio t effece eason	g at the le place n syst ct, tec for the	he pla ce for em, w hnical ne fari	ces w selling ill be coop ner;'	here t g a hig used f eration (see ]	the pugh-value for the n proj No.15	ump ir ue agr purpo ect su proje	rigatic icultur oses al ich as ect of	on fac cal pro bove 1 'tech this	ilities oducts. mentio nical	have The v ned du suppor	been vater uring t on
considered to collaborate w										2028	2020	2030	
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation							1						
Evenented Outputs					De		<u> </u>	Indiac	tona				
<ul><li>Expected Outputs</li><li>Facilities of water saving</li></ul>		antion			No		ment		saving	. irr	igatio	n cu	stem
Facilities of water savin	ig iiii	gation							ially a	-	igatio	u sy	stem
Major Activities with the	Exne	cted (	)utnu	ts			st (El		iuny u		mecte	d Sou	rces
	n and facilit f wate	saving d mai ties er savi	g irr ntenai ng irr	igation nce of igation	f Up er f e.g. ima	on the of irr . USE	e scal igatio	le and n faci )00/ha	l numl ilities; is es	b M		Donoi	
<b>Project Risk:</b> Possibility that burden of e Salt accumulation Depletion of groundwater s <b>Environment Assessment</b>	source						•	igatio	n facili	ities (a	can't b	e supp	lied)
An Environmental and S implementation of the project	ocial						proje	ect sh	all be	cond	lucted,	once	the

Project No.15													
Project Title	Tech	nical	suppo	ort on	veget	able n	rodu	ction i	n drv	seaso	n for	the fa	rmer
	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
<b>Priority in Province</b>	1.2		1	1	1	1	1	1	1	1	1	1	1
Target Groups	•	Extens	sion st	aff (w	orkers	). Fari	mers g	roups	arour	id a lov	wland		
Implementing Agency		DGHA				),		<u>, , , , , , , , , , , , , , , , , , , </u>					
Potential Collaborators		KfW,		IICA									
<b>Objectives:</b> To improve t					e drv	seasor	for f	armer					
Rationale:		15 1001	mque	5 m m	e ary	500501		armer					
A dry season is severe perio	od for	· cultiv	vation	ofaor	icultu	ral pro	ducts	due to	shor	tage of	wate	r cause	ed be
limitation of water source													
vegetable production duri													
irrigation supply system ne				j	1								
The project will be imple				ize ar	nd red	uce w	vater u	ise in	in dı	y seas	son a	nd pro	duc
effectively high quality agr													
Such vegetables have sev													
components of the project i							U						
It is also necessary to in						tion o	of fert	ilizer	and p	oestici	de foi	r vege	table
cultivation. Those materials													
them. In order to minimize	e such	1 cost	and k	eep fo	od sa	fety, n	ninimi	zation	of fe	rtilize	r appl	ication	1 and
pesticide inputs shall be con	nsider	red am	ong fa	amers	and ex	tensic	on staf	f.					
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
-													
Expected Outputs					De	velop	ment	Indica	tors				
· Capacity building of	f ext	tensio	n sta	ff fo						tensio			
irrigation vegetable cul	tivatio	on			Pro	oductio	on are	a, vol	ume,	yield o	of par	ticipar	nts o
• Capacity building of	farm	ers fo	or irr	igatior	1 tra	ining							
vegetable cultivation													
Major Activities with the	Expe	cted C	)utpu	ts	To	tal Co	st (El	JR)				d Sou	
1		ion o			-	tal cos					ААН,	Dono	rs
materials (manual, broc	chure	etc)	for irr	igatior		of the							
agriculture						ted co		about	5 m	il			
Introduction of suitable				etables	s lion	n/proje	ect.						
for obtaining good price													
• Training of irrigated a													
staff (Watering volume,	-	-			)								
Training of irrigated ag	ricult	ure for	: farme	ers									
Project Risk:													
The project is composed													
extension of such vegetable							•						-
exact period of time requ													
extension works on the in													
extension system, which is			ontrol	of the	gove	rnmen	t; bud	get all	ocatic	on by t	he gov	vernm	ent i
a key for continuation of th				c			• • • •	1.	<i>.</i> .	<i>,</i> .	<b>C</b>	VC 11	<i>.</i> .
In addition to the aforemen											ot stat	t alloc	atior
will become a trigger for st		ion an	d/or su	ispens	sion of	the pi	roject	Implei	menta	tion.			
Environment Assessment		т											.1
An Environmental and Se	ocial	Impac	et Ass	sessme	nt to	r this	proje	ect sh	all be	e conc	lucted	, once	e th

Project No.16													
Project Title	Tech		suppo	ort on			ng irri	gated	agric	ulture	•		
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
r norney in r rovince	1		1	1	1	1	1	1	1	1	1	1	1
Target Groups	•	Extens	sion st	aff (w	orkers	), Far	mers g	roups	aroun	d a lov	wland		
Implementing Agency		DGHA					Ĩ						
Potential Collaborators	•	KfW,	FAO,	WB, A	DB, J	ICA							
<b>Objectives:</b> To produce							ontinu	ously	by im	prove	ment	of far	ming
practice of water saving					1			5	5	1			0
Rationale:	0		0										
Installation of water savin	g faci	lities	alone	does 1	10t ex	actly	contri	bute in	nprov	ement	of w	ater sa	ving
technique of farmers and e													
parallel to the installation of								1				1	
The project will be imple						uce w	vater i	ise in	in dr	y seas	son ai	nd pro	duce
effectively high quality ag													
Such vegetables have se													
components of the project							U						
It is also necessary to in			•			tion c	of fert	ilizer	and r	oestici	de foi	r vege	table
cultivation. Those material													
them. In order to minimiz											•	-	
pesticide inputs shall be co													
In this project, establishm									ion m	aterial	s for	condu	cting
water saving irrigation agri													U
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
-			<u> </u>										
Expected Outputs					De	velop	ment ]	Indica	tors				
• Capacity building of	vegeta	able c	ultivat	ion ir	Par	ticipa	nts of	trainir	ng (Ex	tensio	n staf	f, farne	ers)
the irrigation area for e													
• Capacity building of	vegeta	able c	ultivat	ion ir	Pro	oductio	on are	a, vol	ume, y	yield o	of par	ticipan	ts of
the irrigation area for fa	armers	5			trai	ning							
Major Activities with the	Expe	cted C	Jutput	ts	To	tal Co	st (El	J <b>R)</b>		Ex	pecte	d Sou	rces
• Preparation and dis	tribut	ion o	of te	aching	g Tot	al co	st dep	ends	on sc	a M.	AAH,	Donor	rs
materials (manual, br					/		e proj						
saving irrigation agricu			/			ted co	ost is	about	5 mi	1			
• Training of water savi		igatio	n agrie	culture	lion	ı/proje	ect.						
for extension staff	•	/aterin	•	olume									
frequency, timing etc)			U										
• Training of water savi		igatio	n agrie	culture	,								
for farmers	0	0	0										
Project Risk:													
The project is composed	of in	ntrodu	ction	of su	table	mark	et ori	ented	variet	ies of	vege	etables	and
extension of such vegetabl	e vari	eties. l	In the	first ir	trodu	ction s	stage,	howev	ver, it	is diffi	icult to	o antic	ipate
exact period of time requ	uired	until	it bec	omes	a con	nmerc	ial pr	oduct	in ma	arket.	Achie	eveme	nt of
extension works on the i	ntrodu	uction	of m	arket	orient	ed va	rieties	depe	nds h	eavily	on t	he exi	sting
extension system, which is													
a key for continuation of th					-					-	-		
In addition to the aforement			ement	ofext	ension	n staff	and/o	r disco	ontinu	ation o	of staf	f alloc	ation
will become a trigger for st													
<b>Environment Assessment</b>				-		•	-	-					
An Environmental and S		Impac	et Ass	sessme	nt for	this	proje	ect sha	all be	cond	lucted	, once	the
implementation of the project													

						• .									
Project Title		Introduction of residual moisture agriculture near the waterside of marsh / reservoir													
·J · · · ·				1	CO	DC	OT	CC	CE	FC		IID			
<b>Priority in Province</b>	ND	SA ✓	CN	BM ✓	CO ✓	PC	CT	CS	CE	ES ✓	CA	HB	SO		
Target Groups		-	-	ups arc		-	-		·	·					
Implementing Agency		DGH/		<u> </u>											
Potential Collaborators				WB, E	U										
<b>Objectives:</b> To use residua						narsh	or rese	rvoir							
Rationale:				2											
The soil around a marsh of	or rese	ervoir	contai	ns mu	ch m	oistur	e insid	le, and	d it ca	in be	used	for far	ming		
without any new facilities	to be	instal	led. L	ocation	of th	ne ma	rsh an	d rese	rvoir	shall o	carefu	lly sel	ected		
where should have water a	nt leas	t 3 mo	onths a	after co	omme	ncem	ent of	dry se	eason.	In rai	iny se	ason, v	vatei		
will be easily available for	this c	ultivat	ion me	ethod.				-			-				
In order to supply water l	ong p	eriod	during	g dry s	eason	, wate	er cou	rse sh	all be	dug f	from a	a pudd	le of		
water remaining inside of	marsh	and i	eserve	oir. Sir	ice fa	rming	scale	is not	t so la	irge, s	uch w	ater co	ourse		
creation will be done manu	al wo	rks us	ually v	vith ho	e.										
Possible crops for this farm	ning p	ractice	are												
Agricultural products that															
In the latter half of the dr					buted	l by d	igging	the v	vaterv	vay fr	om re	servoi	s or		
sprinkles the water using b			· ·												
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030			
Implementation		1	l				1								
Expected Outputs							ment l								
• Irrigation ditch (if nece	ssary)				Are	ea of	farm-l	and v	vhich	uses 1	residu	al wat	er of		
<ul> <li>Vegetable production</li> </ul>						ervoir									
									ofag			ojduct			
Major Activities with the	Expe	cted C	)utput	S			st (El					ed Sou			
Construction of irrigati	on dit	ch			Un	on th		a and		1 36	A ATT	Dono	ra		
							e scal				ААН,	Dono	15		
• Assistance for inpu	its o	of cr	ops	in a	er	of irr	igatio	n faci	lities;		ААН,	Dono	15		
Assistance for inpudryness-resistant	its o	of cr	ops	in a	er e.g	of irr . USI	igation D 2,00	n faci )0/ha	lities;		ААН,	Dono	15		
dryness-resistant • Assistance for farming					er e.g	of irr . USI	igatio	n faci )0/ha	lities;		ААН,	Dono	15		
dryness-resistant					er e.g	of irr . USI	igation D 2,00	n faci )0/ha	lities;		ААН,	Dono	15		
dryness-resistant • Assistance for farming dryness-resistant Project Risk:	g prac	tice o	f crop	s in a	er e.g ma	of irr . USI ted ur	igation D 2,00 nit cos	n faci )0/ha st.	lities; is est	ti		Dono			
<ul> <li>dryness-resistant</li> <li>Assistance for farming dryness-resistant</li> </ul>	g prac	tice o	f crop	s in a	er e.g ma	of irr . USI ted ur	igation D 2,00 nit cos	n faci )0/ha st.	lities; is est	ti			15		
dryness-resistant • Assistance for farming dryness-resistant Project Risk:	g prac	tice o	f crop	s in a	er e.g ma	of irr . USI ted ur harves	igation D 2,00 nit cos	n faci )0/ha st. gricult	lities; is est	ti	ts.				
dryness-resistant <ul> <li>Assistance for farming dryness-resistant</li> </ul> <b>Project Risk:</b> Water shortage in the latter	g prac	tice o	f crop	s in a ason be of suit	er e.g ma	of irr . USI ted ur harves mark	igation D 2,00 nit cos sting a et orio	n faci 00/ha st. gricult ented	lities; is est tural p variet	ti produc ies of	ts. f vege	etables	anc		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ	g prac half o of in e vario nired	tice of of the ontroduce ties. I until	f crop dry sea ction in the it beco	s in a ason be of suit first in omes a	er e.g ma fore table trodu	of irr . USI ted ur harves marke ction s	igation D 2,00 nit cos sting a et orio stage, 1 ial pro	n faci )0/ha st. gricult ented howey oduct	lities; is est tural p variet zer, it i	roduc ies of is diff arket.	ts. f vego icult t Achio	etables o antic	and ipate nt of		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ extension works on the i	g prac half of in of in e vario uired ntrodu	tice of the of troducties. I until in uction	f crop dry sea ction in the it beco of m	s in a ason be of suit first in omes a arket o	er e.g ma efore table trodua com	of irr . USI ted un harves mark ction s nmerc ed va	igation D 2,00 nit cos sting a sting a toric stage, 1 ial pro- rieties	n faci )0/ha st. gricult ented howev oduct depe	lities; is est tural p variet ver, it in ma nds h	ti produc ies of is diff arket. eavily	ts. f vega icult t Achia on t	etables o antic eveme he exi	and ipate nt of sting		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ extension works on the i extension system, which is	g prac half of of in varioured ntrodu unden	tice o of the o ntroducties. I until i uction	f crop dry sea ction in the it beco of m	s in a ason be of suit first in omes a arket o	er e.g ma efore table trodua com	of irr . USI ted un harves mark ction s nmerc ed va	igation D 2,00 nit cos sting a sting a toric stage, 1 ial pro- rieties	n faci )0/ha st. gricult ented howev oduct depe	lities; is est tural p variet ver, it in ma nds h	ti produc ies of is diff arket. eavily	ts. f vega icult t Achia on t	etables o antic eveme he exi	and ipate nt of sting		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ extension works on the i extension system, which is a key for continuation of the	g prac half of of in ured ntrodu unden ie proj	tice o of the o ntroducties. I until uction the co ect.	f crop dry sea ction n the it beco of m ontrol	s in a ason be of suir first in omes a arket o of the	er e.g ma efore table troduce a com prient gover	of irr USI ted ur harves marke ction s nmerc ed va rnmen	igation D 2,00 nit cos sting a et orio stage, 1 ial pro rieties t; budg	n faci 00/ha st. gricult ented howev oduct depe get all	lities; is est tural p variet zer, it in ma nds h ocatio	ti produc ies of is diff arket. eavily n by t	ts. f vega icult t Achia on t he go	etables o antic eveme: he exi vernmo	and ipate nt of sting ent is		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ extension works on the i extension system, which is a key for continuation of the In addition to the aforement	half of of in varied urred ntrodu under the proj	tice o of the o ntroducties. I until i until i the co ect. I, retir	f crop dry sea ction in the it becc of m ontrol ement	s in a ason be of suit first in omes a arket o of the of exto	er e.g ma efore table trodu a con orient gover	of irr USI ted ur harves mark ction s nmerc ed va rnmen n staff	igation D 2,00 nit cost sting a et orie stage, 1 ial pro- rieties t; bud and/o	n faci )0/ha st. gricult ented howev oduct depe get all r disco	lities; is est tural p variet zer, it in ma nds h ocatio	ti oroduc ies of is diff arket. eavily n by t ation o	ts. f vega icult t Achia on t he go	etables o antic eveme: he exi vernmo	and ipate nt of sting ent is		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requent extension works on the intervention system, which is a key for continuation of the In addition to the aforement will become a trigger for st	g prace half of in of in ured ntrodu under under ie proj tionec agnat	tice o of the o ntroducties. I until i until i the co ect. I, retir	f crop dry sea ction in the it becc of m ontrol ement	s in a ason be of suit first in omes a arket o of the of exto	er e.g ma efore table trodu a con orient gover	of irr USI ted ur harves mark ction s nmerc ed va rnmen n staff	igation D 2,00 nit cost sting a et orie stage, 1 ial pro- rieties t; bud and/o	n faci )0/ha st. gricult ented howev oduct depe get all r disco	lities; is est tural p variet zer, it in ma nds h ocatio	ti oroduc ies of is diff arket. eavily n by t ation o	ts. f vega icult t Achia on t he go	etables o antic eveme: he exi vernmo	and ipate nt of sting ent is		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requ extension works on the i extension system, which is a key for continuation of the In addition to the aforement will become a trigger for st <b>Environment Assessment</b>	g prace half of in of in ured ntrodu unden e proj tionec agnat	tice o of the o ntrodu- eties. I until uction the co ect. I, retir ion an	f crop dry sea ction in the it becc of m ontrol ement d/or su	s in a ason be of suit first in omes a arket of of the of extension	er e.g ma efore table troduct orient gover	of irr USI ted ur harves marke ction s nmerc ed va mmen n staff	igation D 2,00 nit cost sting a et orio stage, 1 ial pro- rieties t; budy cand/o roject :	n faci )0/ha st. gricult ented howev oduct depe get all r disco implei	lities; is est tural p variet ver, it in ma nds h ocatio	ti produc ies of is diff arket. eavily n by t ation of tion.	ts. f vego icult t Achio on t he go of staf	etables o antic eveme he exi vernmo f alloc	and ipate nt of sting ent is atior		
dryness-resistant • Assistance for farming dryness-resistant <b>Project Risk:</b> Water shortage in the latter The project is composed extension of such vegetable exact period of time requerted extension works on the interpretion of the extension system, which is a key for continuation of the In addition to the aforement will become a trigger for st	g prac half of in of in ured ntrodu unden e proj ttioneo cagnat : ocial	tice o of the o ntrodu- eties. I until uction the co ect. I, retir ion an	f crop dry sea ction in the s it beco of ma ontrol ement d/or su	s in a ason be of suit first in omes a arket of of the of exte uspensi essmer	er e.g ma efore table troduct a con orient gover ension on of	of irr USI ted ur harves mark ction s nmerc ed va mmen n staff <u>the pr</u>	igation D 2,00 nit cost sting a et orio stage, 1 ial pro- rieties t; budy cand/o roject :	n faci )0/ha st. gricult ented howev oduct depe get all r disco implei	lities; is est tural p variet ver, it in ma nds h ocatio	ti produc ies of is diff arket. eavily n by t ation of tion.	ts. f vego icult t Achio on t he go of staf	etables o antic eveme he exi vernmo f alloc	and ipate nt of sting ent is atior		

Project No.18													
Project Title	Rein	force	ment	of rice	culti	vation	n prac	tices i	n bas	-fonds			
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
	$\checkmark$		$\checkmark$										
Target Groups	•	Farme	ers' gr	oups,	Extens	sion st	aff						
Implementing Agency	•	MAAI	Η										
Potential Collaborators	•	KfW, I	FAO, '	WB, E	U, JIC	CA							
<b>Objectives:</b> increase of right													
Rationale:													
Natural condition for rice	cultiva	ation i	s not	alway	s secu	red in	the c	ountry	and s	such c	onditi	on cha	anges
depending on agro-climate	zones	s. The	re mus	st be s	uitable	e rice	varieti	ies for	each	and ev	ery a	gro-cli	imate
zone and also for feature of	f bas-f	onds.									•	-	
The project will introduce	suitab	le var	ieties	of rice	e to th	e targ	eted fa	armers	whic	h shal	l be c	ultivat	ed in
bas-fonds. In some places	, irrig	ated ri	ce wi	ll be s	uitabl	e whi	le raii	n-fed 1	rice w	ill be	suital	ole in	some
other places. As for irrigat	ed ric	e, dise	ase-re	sistan	varie	ty wil	l be a	candi	date f	or this	intro	ductio	n. As
for rain-fed rice, FKR62N	and F	KR45	N are	consi	dered	as car	ndidat	e for i	ntrodu	uction	which	1 have	high
quality and drought toleran	t with	short	cultiv	ation p	period								
The project will also intro													
and chemical use. This	activit	y wil	l help	to i	ncreas	e rice	e yiel	d and	its	produc	tion	as we	ell as
minimization of expenditur	e for	rice dr	oppin	g.									
Other major activity to b													
schedule in order to not o					l and	produ	ction	but als	so avo	oid dro	ought	risk a	nd/or
water shortage risk during			on per										
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	<u> </u>
Implementation													
Expected Outputs								Indica					
Adoption of introduced	l varie	ty by t	farmer	s	•	Num	ber of	f farm	ers cu	ultivat	e the	introc	luced
• Extension of introduc	ed u	se of	agric	ultura		rice v	variety	r					
input					•			of fa				introc	
Extension of introduce	d rice	farmir	ng prac	ctices		•		l input	, expe	enditur	e for	agricu	ltural
						input							
					•			f farm					plan,
								rice y	ield ai	nd pro	ductic	n	
Major Activities with the	Expe	cted C	Jutput	ts		tal Co					pecte	ed Sou	rces
<ul> <li>Introduction of rice var</li> </ul>	iety						-	ends			,	Dono	rs,
Introduction of application	ation	of far	m inp	ut and				ect; t			ERA		
its extension works								about	5 m	il			
• Introduction of making	g crop	ping o	calend	ar and	lior	1/proje	ect.						
its extension works													
Preparation of extensio	n mat	erials											
Project Risk:													
The project includes intro													
some others are field trial													
period of time required a													
addition, extension of new													
the control of the governme		•			•	•			•				
project. Thus, there will b						schee	lules	of the	entire	e proje	ect an	d leve	els of
commitment to be made by		xtensi	on per	sonne									
<b>Environment Assessment</b>													
	• 1	τ	4										
An Environmental and S implementation of the project							proje	ect sh	all be	e conc	lucted	, once	e the

D													
Project No.19	D				<b>X</b> 7	• • •	•		• .•				
Project Title		elopm									~ .		~ ~ ~
<b>Priority in Province</b>	ND	SA	CN	BM	CO √	PC	CT √	CS	CE	ES	CA	HB √	SO
Target Groups	•	Form	are' ar	oups, 1	-	sion st						V	
Implementing Agency		INER.	<b>U</b>		LAUIR	51011 51	all						
Potential Collaborators			· ·		II atl	on int	amati			. inati	nto		
Objectives: development		KfW, I									lute		
Objectives: development		IVI V I	esista	nt rice	varie	ettes a	nu tn	errex	ensio	11			
Rationale:													
Rice yellow mottle virus (F	- vvv	D was	firsts	hear	d in I	Convo	in 104	56 It;	e now	a mai	or dis	anca 0'	frica
in the irrigated and lowland													
100%. Rice farmers in the													
1990s in West Africa. In re													
in CREAF/Kamboinse hav													
varieties resistant to RYM									kina r	aso	and u	heir ei	Torts
successfully created new R													
This project aims to support													
research institute in Burkin	2019 a	0 and 6	2021	2022	2023	2024	2025	2026 2026	ougn ] 2027	2028	2020	2030 appro	bach
Project	2019	2020	2021	2022	2023	2024	2023	2020	2027	2028	2020	2030	
Implementation													
Expected Outputs					De			Indica					
New RYMV resistant r					•				ly dev	elope	d var	iety a	nd/or
Adoption the develope	d vari	eties b	y farn	ners				ariety					
					•					who	use	the n	ewly
								variety	1				
Major Activities with the						tal Co	· · ·					d Sou	
Research works for dev	-	•		•				ends			,	Dono	rs,
• Extension works of	RYN	4V re	esistan	t rice				of th			ERA		
varieties								ited c	ost is				
					abo	out 3	millio	n.					
Project Risk:													
The main works of the proj													
Burkina Faso and/or impro													
works takes time especiall	•	1		-		ent, it	is dif	ficult	to ant	icipate	e exac	t perio	od of
time required for the resear													
After development of new													
approach. This participator													
for this extension, even th	ough	most	of far	mers p	orefer	the ne	ewly d	levelo	ped v	ariety.	Some	e of fa	rmer
may oppose to introduce r	new v	ariety	or car	nnot a	fford 1	to pay	the c	ost fo	r seed	and o	other a	agricul	tural
input necessary for particip													
In addition to the issues afor													
stage because of monitoring	g of fi	ield pr	actices	s; so th	at lim	itation	1 of hi	ıman r	esour	ces ma	iy bec	ome a	riskf
for the extension works.													
<b>Environment Assessment</b>													
An Environmental and S							proje	ct sha	all be	cond	lucted,	once	the
implementation of the project	et is ap	oprove	d with	financ	ial sou	irces.							

Project No.20													
Project Title	Intr	oducti		comp	ost m	aking							
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
-	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups	•			oups, l			aff						
Implementing Agency				vincial		e							
Potential Collaborators				WB, E									
<b>Objectives: increase of ag</b>	ricult	ural p	orodu	ction t	hrouş	gh con	npost	use					
Rationale: Crop residues after harves without being utilized for a returns to nature. Manure of divagation is usually comm On the other hand, fertilit increase of agricultural pr purchase sufficient fertilize Compost making can hel improvement of soil structu This project aims to introo staff and assist extension which can be easily obtained <b>Project</b>	any pu of lives on mo y of t oduct. er beca p farr ure and duce c activi	arpose stock a ethod farmla . Man ause of ners i d nutri compo ities e	s. Son ilso le for ker nd is y farr f econ n terr tion. st ma xtensi	ne of t ft at pl eping s one o ners d omic a ns of king a	hem a aces a such 1 f the esire nd teo incre nd its	are tak si it is ivestoo most increa chnical ase so appli	en by witho ck. impor se of l cons bil fer cation	livest ut bein tant e harve trains. tilities	ock as ng pai lemen st but s of t od to	s their d any tts for they heir f farme	forag attenti enhat canno armlar	e and sion become nceme of affor nd thr d exter	some cause nt of rd to ough nsion
Implementation													
Expected Outputs					De			Indica			•		
Compost making manu					•			evelop	-	the pr	oject		
• Increase of soil fertility					•			oil ana	•	c			
• Increase of crop produc					•		-	oroduc		-			
Farmers adopting comp					•				rs add	* · · ·		ost use	
Major Activities with the						tal Co	· ·	,				d Sou	
• Development of compo		•						ends			,	Dono	rs,
Application of composition								of th ated c			ERA		
• Technical transfer of			maku	ng an		out 3			051 15				
compost application for			1.	1		ui J	mmo						
• Extension activities for	or con	npost	makir	ng and									
application													
Project Risk: Since divagation is dominate broad places without concern difficulty if certain volume Collected materials for con- conditions such as temper effect of compost will not shredding of raw materials Appointment of extension allocation by the government Environment Assessment	centrat of it s ompos ature, so hi will b staff ent.	ion of shall b t mak humio gh. In pe esse	f locat e colle ing sh dity, a order ntial.	tion. T ected. all be nd oxy to act	hus, o matu ygen. celera	ured b If tho te mat	ion of y mic ose na turing	f such croorga tural c proce	lives anism condit ess of	tock r under ions a compo	nanure suita re wel ost, ch	e will ble na ll obta nipping	have itural ined, g and
An Environmental and S implementation of the project	ocial						proje	ect sha	all be	e cono	lucted	, once	the

Project No.21													
Project Title	Pro	motio	ı of ut	tilizati	on of	phos	hate	rock f	for ric	e cult	ivatio	n	
	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
<b>Priority in Province</b>	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups	•	Rice F	armer	; Exte	nsion	staff							
Implementing Agency	•	MAAI	H, INI	ERA									
Potential Collaborators	•	JICA, institu		AS, I	KfW,	FAO,	WB,	EU,	other	inter	nationa	al rese	earch
<b>Objectives:</b>													
Increase of rice production	n wit	h use	of pho	osphat	e rocl	K							
Rationale:													
It is reported that there are	at lea	st 100	millic	on tons	s of ph	lospha	te ore	in Bu	rkina	Faso a	ind ph	osphor	us is
the most expensive compo													
Faso are facing bottleneck				agricul	tural	produ	ctivity	due due	to lacl	k of f	ertility	espec	cially
shortage and high price of													
The project will develop I													
utilized in Burkina Faso ir									-				
Activities of experimental													
The project will introduce													table
application method at the f	1eld le 2019	2020	evelop 2021	2022	1cal m	anual 2024	s, and 2025	carry 2026	out ex	2028	2020	KS. 2030	
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation				[	I <u>.                                    </u>								
Expected Outputs					De	velop	ment ]	Indica	ators				
Establishment of techni			level		•			reports					
Development of technic	cal m	anual			•	Tech	nical r	nanua	ls				
• Increase of crop produc	tiviti	es			•	Yield	l of the	e agric	cultura	l prod	uct		
• Extension of technique					•	Num	ber of	farme	ers ado	pting	the tec	chniqu	e
Major Activities with the	Expe	cted C	)utpu	ts	To	tal Co	st (El	UR)		Ey	specte	d Sou	rces
• Research and deve	elopm	nent	works	s for	Tot	al co	st dep	oends	on sc	a M	AAH,	Donor	rs,
establishment of techni	que a	t field	level						ne pro		ERA		
• Field trials of the establ	lished	techn	ique						ost is				
Application of fertilizer	r at th	e field	level		abc	out 3	millio	n.					
<ul> <li>Extension activities for</li> </ul>	low-	grade p	ohospl	nate									
Project Risk:													
Since research and develo	opme	nt acti	vities	are g	oing	on fo	r the	field	level,	actua	l appl	ication	1 for
farmland may delay because													
Since law material is low													
considered that certain effe											racteri	stics o	f the
material, farmers cannot co											_		
Appointment of extension						diffic	ulty b	ecause	e of de	elay if	effect	to be	seen
and shortage of budget allo		n by th	e gov	ernme	nt.								
<b>Environment Assessment</b>		_			_								
An Environmental and S							proje	ect sh	all be	e cono	fucted,	, once	the
implementation of the project	ct is aj	prove	d with	tinanc	ial sou	irces.							

Project No.22													
Project Title	Imp bag		nent o	f pres	erved	seed o	qualit	y by i	ntrodu	ıcing	PICS	doub	le
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
-	$\checkmark$	<b>√</b>	$\checkmark$	√	<u>√</u>	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups		Farme	,				1						
Implementing Agency Potential Collaborators		MAA				vincia		e					
Objectives: improvement		KfW,				and	and a	fton h	0.000	+			
Rationale:	01 80	orage	conui		gran	i anu :	seeu a	inter i	larves	L			
Insect pests pose a signifileguminous crops and their In Burkina Faso, cowpea is Besides, in rural area cowp cowpea, existence of cowp reduce income for farmers. The project aims to impro condition improvement by technical assistance to wor	prese s utiliz pea is pea br ve far apply	ence m zed nu s cultiv uchids rmers' /ing Pu	akes g tritiou vated becon becon mark urdue	great ri is food by wo nes ca et acco Impro	sk esp for h men t use o ess an ved C	becially umans o gene f quali d live owpea	y in the s and a erate i ty los lihood s Stora	ne stor also go ncom s of has ls thro age (P	age pe ood so e. Des arveste ough e ICS).	riod. urce f pite s ed ma nhanc Projec	for animuch action terials cement ct inclu	mal fo lvanta some of sto udes g	dder. ge of times orage iving
of PICS bags to cowpea pro													
Project	2019         2020         2021         2022         2023         2024         2025         2026         2027         2028         2020         2030												
Implementation													
Expected Outputs					De	velopi							
<ul> <li>Utilization of PICS bag</li> </ul>	ζ <b>S</b>				•						the far	mers	
<ul> <li>Quality of cowpea</li> </ul>					•	•		-	ality c	owpe	a		
<ul> <li>Increase of income</li> </ul>					•	Hous							
Establishment of wome	en's o	rganiza	ation		•	Numl	ber of	establ	lished	wome	en's or	ganiza	tions
Major Activities with the	Expe	cted C	)utpu	ts		tal Co					xpecte	d Sou	rces
Introduction of PICS ba	ags								on sc		AAH,	Dono	rs,
• Extension of mode of P	PICS b	oag use	e						ne pro	j   IN	JERA		
Increase storage period	of co	wpea				-			ost is				
Assistant works for est	tablis	hment	of wo	omen's	abo	out 3	millio	n.					
organization	<u>.</u>												
Project Risk:													
Since distribution rout of I obtain in time before harv difficulties for distribution Misunderstanding of PICS	esting of bag bag	g cowp gs. use is	bea. R also e	ural ro expecte	oad co ed wh	onditio	n in r 11 be	emote	ed area d by ir	s also	o will	affect	such
shortage of extension mater		and la	rge co	verage	area	ot exte	ension	staff.					
<b>Environment Assessment</b>		Lear	+ A		at f	1.:.		• at _1	all 1-		du 04 - 1		<b>, 1</b> 1.
ALL EDVITOD MENTAL and N	ocia	Impac	I ASS	essme		r 1019	nrole	wii ch	au ne	con	uncted	Once	- тn

An Environmental and Social Impact Assessment for this project shall be conducted, once the implementation of the project is approved with financial sources.

Con	struct	ion of	wareh	ouse								
ND				CO	PC	CT	CS	CE	ES	CA	HB	SO
$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
•	Irrigat	ion gr	oup, w	omen	rice c	ultiva	tion g	roup				
	<i></i>		,		of ri	ce wai	rehous	se.				
		0										
				rice b	ecom	es larg	ge, bai	gainir	ng pow	ver of	farme	r will
g time	e stora	ge. St	ich rice	e can	be so	old at	the th	me wl	nen ric	ce prio	ce bec	omes
			4				Jan F		nati - ·	- <b>1</b> -		
				be es	taons	neu m			JIIIIOI	and n	nanage	
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	1
		1										
.1				De	velon	ment	Indica	ators		1		
ouse fo	or rice								constr	ucted		
	01 1100											
	ganiza	tion					•••				stablis	hed
	Samza											nea
Expe	cted C	Dutnut	ts					·····B				rces
				_		· ·		on sc		•		
										,		,
-	nstruct	ion (co	ontract	ect;	the	estima	ated c	ost is				
				abo	ut 5	millio	n.					
əlishm	nent o	of fa	rmer's									
for ric	e dry	ing, s	toring,									
	0	1					0				-	
	ig of a	icuviti	es and	/0r = 10	585 01	acco	unt re	port o	Juen I	becom	le cau	se oi
ant												
nent.												
:	Imnac	et Ass	sessmer	t for	• this	nroie	ect sh	all be	e con	lucted	once	e the
	ND $\checkmark$ $\checkmark$ $\bullet$	NDSA $\checkmark$ Irrigat $\cdot$ Irrigat $\cdot$ MAAI $\cdot$ KfW, $\uparrow$ eration throadall rice farmedall amount. Imarket willthe in one plagg time storadwarehouse comers' organiand income201920192020puse for ricerdcr's organizadExpected Cvarehouseor)rd constructolishmentcor rice drytial for the grouteand incomeand incomeand income20192020corscorscordcordcordand incomeand incomeand incomeand incomecordand incomeand income <t< td=""><td>NDSACN<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\cdot</math>Irrigation gr<math>\cdot</math>MAAH, regi<math>\cdot</math>KfW, FAO, <math>\checkmark</math>eration through call rice farmers is all amount. If volumarket will be imprese in one place andg time storage. Suwarehouse coupledmers' organizationand income generation2019202020202021uouse for ricerder's organizationExpected Outputvarehouseconstruction (construction (construction (construction (construction (construction will fail for the project of regulation will fail for the group do fail for fail for</td><td>NDSACNBM<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math>•Irrigation group, we•MAAH, regionalan•KfW, FAO, WB, EIeration through constru-all rice farmers is not largedall amount. If volume of market will be improved.be in one place and the sig time storage. Such ricewarehouse coupled with mers' organization shalland income generation.2019202020212022and income generation.201920202020202120212022arehouseconstruction shallconstruction (contractouse for ricerder's organizationExpected Outputsvarehouseconstruction (contractobishmentof farmer'sfor rice drying, storing,tial for the project manageand regulation will be preperedof the group do not folnst rule and regulations wbe required for the est</td><td><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math>Irrigation group, women<math>\cdot</math>MAAH, regionaland pro<math>\cdot</math>KfW, FAO, WB, EUeration through constructionall rice farmers is not large in all amount. If volume of rice b market will be improved. we in one place and the stores g time storage. Such rice can warehouse coupled with rice d mers' organization shall be es and income generation.<math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2022</math><math>2019</math><math>2020</math><math>2021</math><math>2</math></td><td>NDSACNBMCOPC<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math>Irrigation group, women rice ofMAAH, regionaland provincia<math>\cdot</math>KfW, FAO, WB, EUeration through construction of riceeration through construction of riceerationDeveloppower constructionTotal Construction (contracteration former'sFor rice drying, storing,Total Construction (contractout of farmer'sFor rice drying, storing,tial for the project management and regulation will be prepared during of the group do not follow such r nst rule and regulations will cause m be required for the established g</td><td>NDSACNBMCOPCCT<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math>Irrigation group, women rice cultiva<math>\cdot</math>MAAH, regionaland provincial offic<math>\cdot</math>KfW, FAO, WB, EUeration through construction of rice wateration through construction of rice watand incertain the stores rice can beg time storage. Such rice can be sold atwarehouse coupled with rice dry yard nearmers' organization shall be established inand income generation.2019202020212022202320242025Developmentvouse for rice• Number ofTotal Cost (EIvarehouse constructionor rice drying, storing,Total Cost (EIvarehouse constructionor rice drying, storing,tial for the project management and opera and regulation will be prepared during prep a of the group do not follow such rule an nst rule and regulations will cause malfunce be required for the established group and be required for th</td><td>NDSACNBMCOPCCTCS<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math>Irrigation group, women rice cultivation g•MAAH, regionaland provincial office•KfW, FAO, WB, EUeration through construction of rice warehousall rice farmers is not large in the country; ricaall amount. If volume of rice becomes large, barmarket will be improved.se in one place and the stores rice can be driedg time storage. Such rice can be sold at the triwarehouse coupled with rice dry yard nearby; Formers' organization shall be established in orderand income generation.201920202020202120212022202220232024202520252026•Number of warel•Number of dry y••Number of dry y••rd construction (contractor)rof construction (contractor)rof and period of thect; the estimated construction (contractof the group do not follow such rule and regulation will be prepared during preparation orof the group do not follow such rule and regulation shill cause malfunction construction constructi</td><td>ND       SA       CN       BM       CO       PC       CT       CS       CE         ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       <t< td=""><td>NDSACNBMCOPCCTCSCEES<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math></td><td>ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA         ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓</td><td>ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA       HB         √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √</td></t<></td></t<>	NDSACN $\checkmark$ $\checkmark$ $\checkmark$ $\cdot$ Irrigation gr $\cdot$ MAAH, regi $\cdot$ KfW, FAO, $\checkmark$ eration through call rice farmers is all amount. If volumarket will be imprese in one place andg time storage. Suwarehouse coupledmers' organizationand income generation2019202020202021uouse for ricerder's organizationExpected Outputvarehouseconstruction (construction (construction (construction (construction (construction will fail for the project of regulation will fail for the group do fail for	NDSACNBM $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ •Irrigation group, we•MAAH, regionalan•KfW, FAO, WB, EIeration through constru-all rice farmers is not largedall amount. If volume of market will be improved.be in one place and the sig time storage. Such ricewarehouse coupled with mers' organization shalland income generation.2019202020212022and income generation.201920202020202120212022arehouseconstruction shallconstruction (contractouse for ricerder's organizationExpected Outputsvarehouseconstruction (contractobishmentof farmer'sfor rice drying, storing,tial for the project manageand regulation will be preperedof the group do not folnst rule and regulations wbe required for the est	$\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ Irrigation group, women $\cdot$ MAAH, regionaland pro $\cdot$ KfW, FAO, WB, EUeration through constructionall rice farmers is not large in all amount. If volume of rice b market will be improved. we in one place and the stores g time storage. Such rice can warehouse coupled with rice d mers' organization shall be es and income generation. $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2022$ $2019$ $2020$ $2021$ $2$	NDSACNBMCOPC $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ Irrigation group, women rice ofMAAH, regionaland provincia $\cdot$ KfW, FAO, WB, EUeration through construction of riceeration through construction of riceerationDeveloppower constructionTotal Construction (contracteration former'sFor rice drying, storing,Total Construction (contractout of farmer'sFor rice drying, storing,tial for the project management and regulation will be prepared during of the group do not follow such r nst rule and regulations will cause m be required for the established g	NDSACNBMCOPCCT $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ Irrigation group, women rice cultiva $\cdot$ MAAH, regionaland provincial offic $\cdot$ KfW, FAO, WB, EUeration through construction of rice wateration through construction of rice watand incertain the stores rice can beg time storage. Such rice can be sold atwarehouse coupled with rice dry yard nearmers' organization shall be established inand income generation.2019202020212022202320242025Developmentvouse for rice• Number ofTotal Cost (EIvarehouse constructionor rice drying, storing,Total Cost (EIvarehouse constructionor rice drying, storing,tial for the project management and opera and regulation will be prepared during prep a of the group do not follow such rule an nst rule and regulations will cause malfunce be required for the established group and be required for th	NDSACNBMCOPCCTCS $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ Irrigation group, women rice cultivation g•MAAH, regionaland provincial office•KfW, FAO, WB, EUeration through construction of rice warehousall rice farmers is not large in the country; ricaall amount. If volume of rice becomes large, barmarket will be improved.se in one place and the stores rice can be driedg time storage. Such rice can be sold at the triwarehouse coupled with rice dry yard nearby; Formers' organization shall be established in orderand income generation.201920202020202120212022202220232024202520252026•Number of warel•Number of dry y••Number of dry y••rd construction (contractor)rof construction (contractor)rof and period of thect; the estimated construction (contractof the group do not follow such rule and regulation will be prepared during preparation orof the group do not follow such rule and regulation shill cause malfunction construction constructi	ND       SA       CN       BM       CO       PC       CT       CS       CE         ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓ <t< td=""><td>NDSACNBMCOPCCTCSCEES<math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math><math>\checkmark</math></td><td>ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA         ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓</td><td>ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA       HB         √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √</td></t<>	NDSACNBMCOPCCTCSCEES $\checkmark$	ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA         ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓       ✓	ND       SA       CN       BM       CO       PC       CT       CS       CE       ES       CA       HB         √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √       √

Project No.24													
Project Title	Int	roducti	ion of	rice n	nilling	mac	hines						
Duianity in Duardinas	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
<b>Priority in Province</b>	$\checkmark$		$\checkmark$										
Target Groups	•	Irrigat	ion gr	oup, w	vomen	assoc	ciation						
Implementing Agency	•	MAA	H										
Potential Collaborators	•	KfW, I	<i>.</i>	<i>,</i>									
Objectives: income gene	erati	on for	rice fa	irmer	s thro	ugh v	alue a	dd					
Rationale:	1	e	C 1	1		c ·	1 ·	1	<i>.</i> .	.1			
Rice farmers couldn't enjo													
rice demand due to rise o													
value to harvested grain ribecause their operating ric													
collected, it will create bar													
is necessary to introduce ad											IS DEC	ause w	my n
The project aims to encour											order	to inc	rease
bargaining power for sellin													
machine.	ig in			merea	30 01		arue n	mougi	1 murc	Juucin	511 01 1		ming
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
					_								
Expected Outputs					De	velop	ment	Indica	tors				
Installation of rice mill	ing n	nachine	;		•	-				e mill	ing m	achine	
• Establishment of wome	•			ed rice			ber of						
production group	0	1	0		•					-		tions b	v the
• Rule and regulations of	f the o	establis	hed gi	roup		grou					0		5
<ul> <li>Income generation</li> </ul>			0	1	•			incom	ne to	be	check	ed by	the
2							ded ac					5	
Major Activities with the	Exp	ected C	Jutput	ts	To	tal Co	ost (El	J <b>R)</b>				d Sou	
• Technical assistance	for	operati	ion o	f rice	e Tot	al co	st dep	ends	on sc	a M	AAH,	Dono	rs,
milling machine		-					period				ERA		
Assistance for establish	nmen	t of the	group	)			estima		ost is				
Assistance for deve	lopm	ent of	f rule	e and	abc	out 5	millio	n.					
regulations													
<ul> <li>Assistance for infor</li> </ul>	mati	on co	llectio	on or	ı 🔤								
market													
Project Risk:													
Since group work is essen	tial f	or the p	project	t mana	geme	nt and	l opera	ation,	establ	ishme	nt of a	a group	o is a
key for the project. Rule													
however, sometimes some													
personal reasons. Such offe	ense a	against	rule a	nd reg	ulatio	ns wil	ll caus	e malf	unctio	on of g	group	activiti	ies to
be taken.													
The regular meeting will													
reported members. Un-rec		ng of a	activiti	ies and	d/or le	oss of	facco	unt re	port o	often	becom	e cau	se of
trouble for group managem													
Environment Assessment		т				1 •			. 11 1		1		.1
An Environmental and S							proje	ect sh	all be	e cono	ucted	, once	the
implementation of the project	et is a	pprove	a with	financ	iai sol	irces.							

Project No.25	_												
Project Title				ablishr	nent a	and re	einfor	cemen	t of w	omen	agric	ultura	ıl
Troject The		ciatio	1										
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
U U	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups	•			agers,		n vege	etable	growe	rs				
Implementing Agency	•		· · ·	GFOM									
Potential Collaborators				WB, A				4		4 1	1* 1		e
Objectives: income gene agricultural association		on tor	• wor	nen v	egeta	die 1a	armer	s thr	ougn	estar	lisnm	ent o	1 an
Rationale: Vegetable production can be generation in market sale. entry in but skill of bargai of it is considered to be do rural area. The project will support t oriented, to produce vegeta share and distribute income	The ning i one by o esta ables,	marke s requ wom blish	t sale ired f en; su wome	activit for goo opport t	ies of d trad o thos cultur	ing. N se wor al ass	tables Iajorit nen w ociatic	are n zy of v vill con	ot so regetal ntribut select	diffict ble pr te inco	ult for oducti ome ge tables	farme on and enerati	ers to l sale on in arket
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
Implementation			1	1		1							
Expected Outputs			I		De	velon	ment	Indica	ntors	1	1		
Women agricultural ass	sociati	ion				-		establ		assoc	iation		
<ul> <li>Rules and regulation of</li> </ul>			tion									tions b	v the
<ul> <li>Increase of income</li> </ul>	the u	550014	non					assoc			oguiu	.10115 0	y the
mercuse of meome											l bv tl	ne reco	orded
							unt rep				. 09 11	10 1000	laca
Major Activities with the	Expe	cted C	Jutpu	ts	To		st (El			E	xpecte	d Sou	rces
				womer				ends	on sc			Dono	
agricultural association	l							of th			JERA		ŕ
• Support for establis		t of	rule	s and				ated c					
regulations for associat					abo	out 5	millio	n.					
• Technical assistance f		op cul	tivatio	on and									
information collection													
Project Risk:													
Since group work is essent													
key for the project. Rule													
however, sometimes some													
personal reasons. Such offe	ense a	gainst	rule a	and reg	ulatio	ns wi	l caus	e mali	unctio	on of g	group	activit	les to
be taken.	han		1 for	the en	tablia	had a		and no	aanda	d of	ootivit	ion mi	11 ha
The regular meeting will reported members. Un-rec													
trouble for group managem		g 01 2	ictivit	les and	1/01 10	088 01	acco	unt re	pon o	Juen	Decon	le cau	se 01
There are some other con		iscue	s for	a aro	1 <b>n</b> 90	ricult	ıral u	orke	in cas	se of	newly	devel	oned
farmland such as allotment													
management of water amon				-1113 U	5120	51 101		, 1000		. 141111		u u30	e unu
Environment Assessment			•										
An Environmental and S		Impac	et As	sessme	nt fo	r this	proie	ect sh	all be	e con	ducted	, once	the
implementation of the project							1 J -					,	
implementation of the project	00 10 m												

Priority in Province       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V	Project No.26													
Priority in Province       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V       V	Project Title				f finar	icial a	iccessi	ibility	in ru	ral ar	ea (In	trodu	ction o	of
Target Groups       Small and medium scale Farmers groups,         Implementing Agency       MAAH, Governmental Bank         Potential Collaborators       KfW, FAO, WB, ADB, IFAD, EU         Objectives: improvement of financial access for farmers in order to help farming practices.         Rationale:         Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; however, there is quite limited opportunity that farmers can access financial services especially in remoted rura areas. Such farmers have to continue farming without necessary farm input.         This project aims to improve financial accessibility for farmers to enable procurement of seeds fertilizer, and other required agricultural input. Mobile phone subscriptions per 100 peoples are 9 according to world bank, so that micro finance through mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2020       2021       2022       2023       2024       2027       2028       2020       2030         Implementation       Expected Outputs       Development Indicators       Expected Surget financial system       Collateral creation system for agriculture financial system       Collateral cost depends on sca       MAAH, Donors, lead of the proj ect; the estimated cost is about 50 million.         Expected Surget Rise       Total Cost depends on sca       MAAH, Donors, lead of the p	Priority in Province		-	CN					CS	CE		CA	HB	SC
Implementing Agency       · MAAH, Governmental Bank         Potential Collaborators       · KfW, FAO, WB, ADB, IFAD, EU         Objectives: improvement of financial access for farmers in order to help farming practices.         Rationale:         Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; however there is quite limited opportunity that farmers can access financial services especially in remoted rure areas. Such farmers have to continue farming without necessary farm input.         This project aims to improve financial accessibility for farmers to enable procurement of seeds fertilizer, and other required agricultural inputs. Mobile phone subscriptions per 100 peoples are 9 according to world bank, so that micro finance through mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2021       2022       2023       2026       2027       2028       2020       2030         Establishment of financial system for gricultural production       · Established and registered financial system       · Established and registered financial system       · Collateral creation system for agricultures         Major Activities with the Expected Outputs       Total Cost (EUR)       Expected Sources         · Assistance of financial system       Total cost depends on scale and period of the project; the estimated cost is about 50 million.       MAAH, Donors, INERA	1 Hority III I Tovince								•	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Potential Collaborators       · KfW, FAO, WB, ADB, IFAD, EU         Objectives: improvement of financial access for farmers in order to help farming practices.         Rationale:         Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; howeve: there is quite limited opportunity that farmers can access financial services especially in remoted rura areas. Such farmers have to continue farming without necessary farm input.         This project aims to improve financial accessibility for farmers to enable procurement of seeds fertilizer, and other required agricultural inputs. Mobile phone subscriptions per 100 peoples are 9 according to world bank, so that micro finance through mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2021       2022       2023       2024       2025       2026       2027       2028       2020       2030         Implementation		•	Small	and m	edium	scale	Farm	ers gro	oups,					
Objectives: improvement of financial access for farmers in order to help farming practices.         Rationale:         Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; howeve there is quite limited opportunity that farmers can access financial services especially in remoted rura areas. Such farmers have to continue farming without necessary farm input.         This project aims to improve financial accessibility for farmers to enable procurement of seeds fortilizer, and other required agricultural inputs. Mobile phone subscriptions per 100 peoples are 9 according to world bank, so that micro finance through mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2020       2021       2022       2023       2024       2027       2028       2020       2030         Implementation       2019       2020       2021       2022       2023       2024       2027       2028       2020       2030         System development for collateral securing for financial services       • Established and registered financial system       • Collateral creation system for agriculturat production       • Arranged budget and/or financed amount the project         Support for establishment of financial system       • Assistance for collateral securing system       • Assistance of financial system       Total cost depends on sea le and perio														
Rationale:         Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; however areas. Such farmers have to continue farming without necessary farm input.         This project aims to improve financial accessibility for farmers to enable procurement of seeds fertilizer, and other required agricultural inputs. Mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2020       2021       2022       2023       2026       2027       2028       2020       2030         Implementation       2019       2020       2021       2022       2023       2024       2025       2026       2027       2028       2020       2030         Expected Outputs         Development Indicators         • Establishment of financial system for agricultural production         System development for collateral securing for financial services         • Budget allocation and/or finance to the financial system       • Arranged budget and/or financed amount t the project         • Support for establishment of financial system       • Arasistance for collateral securing system       • Assistance of financial study and forecast on the system operation       Total cost depends on sea about 50 million.       MAAAH, Donors, INE														
Poor fertility of farmland results low quality of crops as well as low productivity of crops. Appropriat agricultural input is timely required for better yield and high quality of agricultural product; however, there is quite limited opportunity that farmers can access financial services especially in remoted rura areas. Such farmers to enable procurement of seeds fertilizer, and other required agricultural inputs. Mobile phone subscriptions per 100 peoples are 9 according to world bank, so that micro finance through mobile phone will be the most effective metho as financial infrastructure in rural areas as well as urban areas.         Project       2019       2020       2021       2022       2023       2024       2025       2026       2027       2028       2030         Implementation       2019       2020       2021       2022       2023       2024       2025       2026       2027       2028       2030         Expected Outputs       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0	Objectives: improvemen	t of fir	iancia	l acce	ss for	farme	ers in	order	to hel	p farı	ning	practi	ices.	
Implementation       Development Indicators         Expected Outputs       Development Indicators         • Establishment of financial system for agricultural production       • Established and registered financial system         • System development for collateral securing financial services       • Collateral creation system for agricultura financial services         • Budget allocation and/or finance to the financial system       • Arranged budget and/or financed amount t the project         • Support for establishment of financial system       • Assistance for collateral securing system         • Assistance of financial study and forecast on the system operation       Total Cost (EUR)       Expected Sources         Project Risk:       Since process of agricultural production is always exposed to severe natural condition, farmers may not be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral.       Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source material source materin source material source material source m	Poor fertility of farmland agricultural input is timel there is quite limited opp areas. Such farmers have This project aims to im fertilizer, and other requi according to world bank, as financial infrastructure	y requ ortunit to cont prove red ag so that in rura	ired fo y that inue fa financ ricultu micro il areas	r bette farme ial ac ral in finan as we	er yiel rs can g witho cessib puts. I ce thro cell as u	d and acces out neo ility Mobile ough r rban a	high s finar cessary for fai e phor nobile areas.	quality ncial s y farm rmers ne sub phone	y of ag ervice input to en oscript e will	gricult s espe able ions p be the	procum procum or 10 most	roduc in ren remen 0 peoj effect	t; how moted t of s ples an tive me	rura rura eeds re 9
Expected Outputs       Development Indicators         • Establishment of financial system for agricultural production       • Established and registered financial system         • System development for collateral securing for financial services       • Collateral creation system for agricultural financial services         • Budget allocation and/or finance to the financial system       • Arranged budget and/or financed amount t the project         • Support for establishment of financial system       • Assistance for collateral securing system         • Assistance of financial study and forecast on the system operation       Total Cost (EUR)       Expected Sources         • Project Risk:       Since process of agricultural production is always exposed to severe natural condition, farmers may no be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral.       Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source matural source mature		2019	2020	2021	2022	2025	2024	2023	2020	2027	2028	2020	2030	
<ul> <li>Establishment of financial system for agricultural production</li> <li>System development for collateral securing for financial services</li> <li>Budget allocation and/or finance to the financial system</li> <li>Support for establishment of financial system</li> <li>Assistance for collateral securing system</li> <li>Assistance of financial study and forecast on the system operation</li> <li>Assistance of agricultural production is always exposed to severe natural condition, farmers may not be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral.</li> </ul>	Implementation		1	1	1		1	1	1	1	1	1	_	
<ul> <li>Establishment of financial system for agricultural production</li> <li>System development for collateral securing for financial services</li> <li>Budget allocation and/or finance to the financial system</li> <li>Support for establishment of financial system</li> <li>Assistance for collateral securing system</li> <li>Assistance of financial study and forecast on the system operation</li> <li>Assistance of agricultural production is always exposed to severe natural condition, farmers may not be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral.</li> </ul>	Expected Outputs					De	veloni	ment ]	Indica	tors				
Major Activities with the Expected OutputsTotal Cost (EUR)Expected Sources• Support for establishment of financial system • Assistance for collateral securing system • Assistance of financial study and forecast on the system operationTotal cost depends on sca le and period of the proj ect; the estimated cost is about 50 million.MAAH, Donors, INERAProject Risk: Since process of agricultural production is always exposed to severe natural condition, farmers may no be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral. Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source ma	<ul> <li>Establishment of agricultural production</li> <li>System development financial services</li> <li>Budget allocation</li> </ul>	n for coli	lateral	securi	ing for	•	Estab Colla finan Arrar	olished iteral cial se nged b	l and r creati rvices	egiste on sy	vstem	for	agricu	ltura
<ul> <li>Support for establishment of financial system</li> <li>Assistance for collateral securing system</li> <li>Assistance of financial study and forecast on the system operation</li> <li>Project Risk:</li> <li>Since process of agricultural production is always exposed to severe natural condition, farmers may no be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral.</li> <li>Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source material sou</li></ul>		e Evne	cted C	Dutnu	ts	То	tal Co	st (EI	IR)		E	necte	d Sou	rces
<b>Project Risk:</b> Since process of agricultural production is always exposed to severe natural condition, farmers may not be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral. Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source may	<ul><li>Support for establishn</li><li>Assistance for collater</li><li>Assistance of financi</li></ul>	nent of al secu	financ tring s	ial sys ystem	stem	Tot le ect	tal cos and p ; the	st dep beriod estima	oends of th ated c	e pro	a M j IN	AAH,		
be able to reimburse financed money to a financial source; and then, securing of collateral is quit difficult as well as evaluation of collateral. Due to severe natural condition, production of crops and livestock may not always be successful an farmers cannot reimburse the financed money in line with reimbursement plan. Financial source ma														
	be able to reimburse fina difficult as well as evaluar Due to severe natural con	anced internet internet in the second	money collate , produ	to a eral. action	financ of cro	ial so ops an	urce; d live	and the stock	nen, so may r	ecuring	g of c vays b	collate be suc	ral is cessfu	quit l an
	farmers cannot reimburse face shortage of money.	the II	nancec	1 mon	ey in	ine w	iin rei	imours	semen	i plan	. Fina	ncial s	source	ma

## **Environment Assessment:**

An Environmental and Social Impact Assessment for this project shall be conducted, once the implementation of the project is approved with financial sources.

Project No.27													
Project Title			ion of	new s	esam			or pro	ducti	vity ir	nprov	ement	t
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
				$\checkmark$	$\checkmark$		<u> </u>	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups				<u>ir bas-f</u>					5				
Implementing Agency				ional a			al offi	ce					
Potential Collaborators				FAO,									
Objectives: improvement	ntois	sesam	e proc	luctivi	ties to	or inco	ome g	enera	tion				
Rationale:													
Productivity of sesame is	not se	o good	l in th	ne cour	trv b	ecause	e of ir	nsuffic	ient fa	arming	g tech	nologi	es of
farmers and misuse of seed												0	
Application of pesticide a												of ses	ame;
residual pesticide sometime	es ove	ers the	food	safe sta	ndarc	l and r	regulat	tion an	d pric	e of se	esame	decrea	ase.
This project aims to distr	ibute	new	sesam	e varie	ety fo	r sesa	ame g	rowing	g area	is in o	order	to enh	ance
farming practice and technol							farme			-			-
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation			1			l							
					Т								
Expected Outputs								Indica					
• New variety of sesame	e seed	1 suita	ble fo	or each	•						d in e	ach reg	gion
area					•	Weig	ht of l	narvest	ted ses	same			
Increase of yield and pr	roduc	tivities	s of se	same	•	Hous	sehold	incom	ne				
<ul> <li>Income generation</li> </ul>					•	techn	nical m	nanual	devel	oped			
Technical manual for se	esame	e produ	iction										
Major Activities with the							ost (El					d Sou	
• development of new	variet	y of s	sesam	e seed				oends				Donor	rs,
and field trial of new	sesar	ne var	iety i	n each				of th			ERA		
region.								ated c	ost is				
Technical assistance for	r grov	ving se	esame		abo	out 5	millio	n.					
<ul> <li>Technical assistance</li> </ul>	for	activit	ies o	f post									
harvest													
• Development of technic	cal m	anual											
Project Risk:													
Since irrigation is a key f	for se	same	cultiv	ation, a	appro	priate	irriga	tion is	s requ	ired w	vithout	t delay	/ nor
earlier.													
Residual pesticide affect de					but fa	rmer	doesn	't follo	w the	regul	ation 1	nor far	mers
do not have cultivation tech		e for th	nis pu	rpose.									
<b>Environment Assessment</b>													
An Environmental and S							proje	ect sha	all be	cond	lucted	, once	the the
implementation of the project	ct is ap	oprove	d with	financ	ial sou	irces.							

Project No.28												
Project Title	Strength	nen the	capaci	ty of	soybe	an pr	oduce	r asso	ciatio	n		
Priority in Province	ND SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
-			$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Target Groups		bean pro						on wor	kers			
Implementing Agency		AH, reg				al offi	ce					
Potential Collaborators		A, KfW,										
Objectives: income gene	eration of	farmei	rs with	soyb	ean pi	roduc	tion					
Rationale: Soybean attract a lot of atta and can be kept long time a mothers of infant and youn This project aims to suppor groups.	good quali g generati	ity. Suc ons.	h rich r	nutriti	on cai	n cont	ribute	impro	vemer	nt of n	utritio	n for
Project	2019 202	0 2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation												
Expected Outputs				De	velop	ment	Indica	tors				
<ul> <li>Improved cultivation m</li> <li>Establishment of soybe</li> <li>Development of soybe income generation</li> <li>Introduction of the processed food to prima</li> <li>Technical manual for so</li> <li>Major Activities with the</li> <li>Field trial of soybea production</li> <li>Assistance for soybea establishment</li> <li>Assistance for collabor companies to develop m</li> <li>Assistance for disser soybean food to schoola</li> <li>Development of technica</li> </ul>	an process can proce develop arily schoo <u>oybean proc</u> <b>Expected</b> an farmir ean proc ation of for new soybea nination s	sing gro ssed for ped sic pl pupili pcessing Outpung for essing pod proo an food of dev	oup ood for s g <u>ts</u> better group cessing	To To le ect abo	Numi group Deve Numi proce <u>Numi</u> tal Co tal cost and p ; the	ber o loped ber o essed f ber of st (EU st dep period	techni UR) bends of the	blishe from s upils ical m ical m ical m ical m	d soy oybean who anual Ex a M. j IN	bean n take	proces	bean rces
<b>Project Risk:</b> Since irrigation is a key f earlier. Residual pesticide affect de do not have cultivation tech	ecrease of	sesame	e price			c					-	
<b>Environment Assessment</b> An Environmental and S implementation of the project	ocial Imp					proje	ect sh	all be	cond	lucted,	once	the

Project No.29	I												
Project Title	Pro	motio	n of N	utrien	t-For	tified	Crops	s (Ora	inge F	leshe	l Swe	<u>et Pot</u>	ato)
Priority in Province	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
	V Ben	eficiar	v farn	l ✓ ner σr	v auns a	of bas	-fond	devel	onmer	nt with	v acce	ss to y	wate
Target Groups			•	•	-				-	charge		55 10	wate
										s (DGI	V) et	Direc	tion
										ageme			
Implementing Agency				du MA						C			1
	•	Direct	ion de	la nut	rition	du M	inistèr	e de la	a Sant	é			
									<u>`````````````````````````````````````</u>	CNCN	/		
Potential Collaborators										the Ru			CIF
										nternat			1.
<b>Objectives:</b> The production					orange	-flesh	ed sw	eet po	otato (	OFSP)	are 1	ncreas	ed 11
order to alleviate the de						: f:		a 1. aa	1+1	. <b>h</b> 1	in Du	سا و ا	Face
<b>Rationale:</b> Vitamin A defi As a measure to address the													
been taking possible measure													
as crop rich in vitamin													
consequence of such effort													
and various researches to													
aims at replicating existing	good	practi	ces in	the pr	omoti	on of	the pro	oducti	on and	d cons	umptio	on of (	DFS
to entire country, based on		-	-										
Project	2013	2014	2015	2016	2017	2018	2019	2020	2022	2024	2026	2030	205
Implementation									-		For Five	e vears)	
													1
Expected Outputs	-			1	De	-	ment ]			• •	a.	(7.17	
• The volume of OFSP p					•					ion of			
• The volume of OFSP c										vho ar materi			
• The nutritional effec known.	ι οι	OFSP	15	widely	′   <b>.</b>	-		-	-	y cha			
KIIUWII.										chains			
							stablis						
					•					pulatio	on w	ho k	now
										ecipes			
Major Activities with the	Expe	cted (	)utpu	ts	To	tal Co	st (El	J <b>R)</b>		Ex	pecte	d Sou	rces
• To collect and analyz				of the			st dep				Bui	kinab	e
production of plant-ma						-	eriod		-	•		vernm	ent,
• To prepare and distr							estima		ost is	•	IFN		
production of planting-						out 5	millio	n.		•	oth	er Dor	lors
• To conduct the co	oking	clas	ses t	o the	;								
population.			- 4 -										
To coordination organizations and pub	with	priv etor ir		sector									
the establishment and													
supply chains of plan	-												
value chains of t			luding										
examination of utilization													
feeding)													
Project Risk: It is importa													
OFSP, as it is not tradition													
shall be explained to farm	ers cl	early, j	prior t	to the	select	on of	crops	, whe	n the	availał	oility	of land	d and
water is limited.													
Environment Assessment		Immo	t Acc		nt fo	. this	nraia	ot al	ما له	0.000	luotad	0.00	, th
An Environmental and S implementation of the project							proje	u sn	an 06	cont	nucled	, once	un -
imprementation of the project	15 aj	PIONO	4 WIUI	mane	141 500								

PEF-PNDBF

Burkina Faso

Planting-materials of OFSP cut into 25 cm long (at a NAFASO farm, May 2018).	There is demand of planting-materials through the year. Farmers with the irrigation systems keep cultivating OFSP during the dry seasons (at a NAFASO farm, May 2018).
	BODNADSILE Potate à chaire jaure) Farine Infantile Greichie en minéreaux et vitamines Biélé bien nonvil Biélé en benne sante
Out of 45 Provinces, Kénédougou, Houet, Sissili, Nahouri, Gourma, Kouritenga and Banwa are famous for the production of sweet potatoes. (Source: Centro International de la papa, Helen Keller International, INERA. 2014)	Packaging of a locally produced OFSP-based infant flour (Source: Helen Keller International – Burkina Faso. 2014)

Project No. A												
Project Title	Strengthe				epara	tion o	n bas-	fonds	and i	rriga	ted	
Troject The	farmland			v								
<b>Priority in Province</b>	ND SA	CN	BM	CO ✓	PC	CT	CS	CE	ES ✓	CA	HB	SO
Target Groups		of MA	AH, D	GAHI	DI, Re	egiona	l and p	rovin	cial St	aff		
Implementing Agency	· DGAI		,		,	0						
Potential Collaborators	• JICA,	KfW,	FAO, '	WB, E	EU							
Objectives: national su						igated	l farn	nland	for i	mpro	vemei	nt of
effective land use and	agricultura	al pro	ductio	1								
<b>Rationale:</b> GIS data base on bas-fond listed in the data base suc crops cultivated, and othe effectively prepare budget	ch as irrigat er related in	ed far forma	mland, ition. S	nece Such i	ssity inven	of reh tory in	abilita 1 the	ition d data l	of devo base w	elopeo vill co	d farm ontribu	land, te to
conducted. This project aims to support the GIS data base couple agricultural production dev <b>Project</b> Implementation	rt to prepare d with info	e inven ormatio	tory of on gath	bas-t bas-t	fonds of r	and ir elated	rigated	l farm	land to	o be r	ecored	ed in
1												
Expected Outputs				De	velop	ment	Indica	tors				
<ul> <li>Inventory of irrigated related information</li> <li>GIS data base on b farmland with related in</li> <li>Trained governmental information and data sharing with concerned</li> <li>A system of inform collection, informati bas-fonds and irrigated</li> </ul>	bas-fonds a nformation. staff in t update and organizatio nation gath on sharing farmland.	nd in the fid informons. nering, g or	rigated eld of mation , data n the		Num Estab data	collect	traine l syste tion an	d staff m for	inforr ormatio	on sha		
Major Activities with the						st (El					ed Sou	
<ul> <li>Field survey and collection and inforbas-fonds.</li> <li>Field survey and collection and inforbas-fonds.</li> <li>Field survey and collection and inforbirrigated farmland.</li> <li>Assistance for GIS dat</li> <li>Training of the concernation base operation and mailing and the concernation and the concernatio</li></ul>	rmation ga confirmation rmation ga a base formu ned staff on ntenance levelopment	atherin n for atherin ulatior the GI	ng on data ng on S data ess and	le a ect; abo	and p the	st dep beriod estima millio	of th ated c	e pro	j	AAH,	Dono	rs
Project Risk:			·1· .	1	1					, · ·		<i>.</i> .
Budget allocation and hun				n by t	the go	vernm	nent di	uring	projec	t impl	lement	ation
and after the project for sus		velopn	nent.									
<b>Environment Assessment</b> An Environmental and S implementation of the project	ocial Impac					proje	ect sha	all be	cond	lucted	, once	the

Project No. B													
Project Title		ancen					ing sk	cill and	d agri	cultur	al ext	tensio	n
110jeet Inte		acities		1			<b>67</b>		<b>6D</b>	7.0	~ .		~~
<b>Priority in Province</b>	ND	SA ✓	CN	BM	CO ✓	PC	CT	CS	CE	ES	CA	HB	SO ✓
Target Groups		Staff c	of MA	AH. R			-	-			•	•	•
Implementing Agency		MAA			<u> </u>		*						
Potential Collaborators		JICA,			-								
<b>Objectives:</b> Capacity de					<i></i>		ltural	exten	sion s	taff			
Rationale:													
New crop variety develop													
government while capacity													
the country due budget an													
level, some useful and eff	ective	e resul	ts we	re rep	orted	but th	eir ex	tensio	n pro	gress	in the	count	ry is
going slowly.		•,	1 1					• 1	. 1	, .		cc · ,	
This project aims to suppo													
of farming practices, exte			, and	moni	oring	and	evalua	tion a	bilitie	s in c	order	to inc	rease
agricultural production of t	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	1
Project Implementation	2017	2020	2021	2022	2025	2024	2023	2020	2027	2020	2020	2030	
Implementation			1	1									
Expected Outputs					Do	voloni	nont ]	 Indica	tors				
governmental agricultu	ral ex nprov ral ex lation ral ex ral p ion m	vement tension abili tension product	n staff of n staff ities n staff tion s	the the	•	farmi Numl exten Numl moni Yield produ	ng pra ber c sion s ber c toring an action.	actices of sta kills of sta and e d q	ff ol ff ol valuat uantit	otainec otainec ion ab ies	l cer l cer ilities of a	tificate tificate tificate agricul	e of e of
Major Activities with the						tal Co	<u>``</u>	,			pecte	d Sou	rces
<ul> <li>Assistance for trainin improvement activities</li> <li>Assistance for trainin improvement activities</li> <li>Assistance for moni- training.</li> <li>Assistance for extensi- level</li> <li>Assistance of devel</li> </ul>	ng o toring ion v	of exte g and vorks	ension eval in the	skill luatior e field	le ect abo	and p	eriod estima	of thated control of thated control of thated control of the thated control of the	e pro		AAH, ERA	Dono	rs,
manual.													
Project Risk: Budget allocation and hum and after the project for sus Environment Assessment: An Environmental and S	staina : ocial	ble dev Impac	velopn et Ass	nent. sessme	nt for	this							
implementation of the project											-		

Project No. C													
Project Title	Imp			f infra							ral ar	ea	
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
Target Groups		✓ People	in ru	✓ ral are	✓ 0	√ ·kat nl	Vers	1	1	1	1	1	1
Implementing Agency		MI, M			a, 111a1	Ket pi	ayers						
Potential Collaborators				, WB, E	TI								
Objectives: income gen			,	· · · · · ·		ond (	onstr	uction	and	imnra	wome	ntin	rural
area connecting to ma		11 01 1	armer	s un	Jugni	oau (	constr	uction	i anu	mpre	veme		lurai
Rationale:	INCL												
Since village and farmland	d scat	ters in	wide	exten	t of r	ural a	rea m	arket	acces	s for t	arme	rs and	farm
product is not easy activ													
improvement is considered													
from the farmland to the													
condition and such difficul						· · · · · · ·				r			
This project aims to support						ent of	rural	roads	brancl	ned fro	om tru	ınk roa	ıds in
order to improve physical													
farmers' income.							0				0		
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation													
													1
Expected Outputs					De	velop	ment	Indica	ators				
• Development plan	of	constr	uction	and	1 .	Deve	lopme	ent p	lan	of c	onstru	iction	and
improvement on rural r	oad n	etwork	ζ.			impr	oveme	ent					
Feasibility study report				on and	1.	Feasi	ibility	study	repor	t on 1	oad c	constru	ction
improvement of rural re							mprov						
• Road constructed and in	mprov	ved			•	Leng	th of	cons	tructed	d roa	d and	l imp	roved
• Increase of income of f	armer	s				road						-	
• Improved living	condit	ions	near	the	•	Aver	age in	come	of the	e farm	ners b	enefite	ed by
constructed and improv	ed roa	ad				the p	roject						•
-					•	Posit	ive op	oinion	s of f	armer	s on	their l	iving
						cond	itions	after i	mplen	nentati	on of	the pr	oject
Major Activities with the	Expe	cted (	)utpu	ts	To	tal Co	ost (El	JR)		Ey	specte	ed Sou	rces
• Technical assistance for	or ma	king (	develo	opmen	t To	tal co	st dep	ends	on sc	a M	AAH	, Dono	rs
plan on road construction	on and	l impr	oveme	ent	le and period of the proj								
<ul> <li>Technical assistance</li> </ul>	for 1	naking	g fea	sibility	ect; the estimated cost is								
study on road construct	tion ar	nd imp	roven	nent	abo	out 20	0 mil	lion.					
• Technical and financi	ial as	sistan	ce for	r road	l								
construction and impro	veme	nt											
• Baseline survey and	end l	ine su	irvey	of the	;								
project													
• Observation and inter					5								
before and after implen	nentat	ion of	the pr	oject									
Project Risk:													
Since road construction rec	-	-	-					-				-	-
allocation and skilled sta								-	•	-			t the
government cannot afford t													
Road route may have to pa													
such circumstances, there			some	adver	se coi	nmen	ts and	opin	ions a	igainst	the	projec	t and
project implementation ma		y.											
Environment Assessment		L	+ A		nt f.	1.:		at -1	all 1.		1		. 41
An Environmental and S							proje	ect sh	all be	e cono	ucted	, once	e the
implementation of the project	et is ap	prove	u with	manc	iai sol	irces.							

												DUIKI	
Project No. D													
Project Title		al wa					1				1		
<b>Priority in Province</b>	ND	SA	CN	BM	CO	PC	CT	CS	CE	ES	CA	HB	SO
Target Groups	· /	People	v nin mi	rol oro	✓	√ 1 adm	↓ inictre	v tion o	fficas	of the		<ul> <li>Image: A state of the state of</li></ul>	√ ont
Implementing Agency	•	MEA,			a, Tula	ii auiii	misuc		mees		gouve	emem	σπι
Potential Collaborators													
	·	JICA,				•							
Objectives: improvement	10 11	water	suppr	y conc	iition	in rui	rai are	eas					
Rationale: Due to sever climate in the people in such places has living locations. Developm rural people who is sufferin This project aims to suppo and management body of c and procurement of consun Project Implementation	to ta lent c lng fet ort co consti	ke dri of wate ching on nstruct ructed	nking er well drinkir ion of water	water is on ng wat water well i	from e of se er und r well n tern arts 2023	water olutior ler diff in rur ns of i 2024	resource ragain ficult of ral are nstitut	arces and the condit conditional condititat conditionactivity conditional conditional condition	located e said ions. l assis arrang 2027	d far j constr t to es	places aint a stablis	from nd mit h oper	thei tigate
• Development plan of						-		Indica				n of v	
<ul> <li>Feasibility study report water well in rural areas</li> <li>Constructed water well</li> <li>Established operation organization</li> <li>Improved living condition consumption and availation</li> <li>Improved living conditional availation</li> <li>Technical assistance for plan on water well construction</li> <li>Technical assistance study on water well construction</li> <li>Baseline survey and oproject</li> <li>Observation and inter before and after implen</li> </ul>	s by the n a sitions <u>ible v</u> <b>Expe</b> or mastruct for a struct al as end l view	in te vater v ceted ( aking ion making ition sistanc ine su on fi	ect manag rms o olume Dutput develo g feas ce for urvey xed fi	gemen f time opmen sibility water of the armers	t · · · · · · · · · · · · · · · · · · ·	const Numi of wa Posit condi tal Co tal cost and p	ber of ater we ive op itions ost (EU st dep beriod estima	n constr estab ell pinion after i UR) pends of th ated c	ructed lished s of f mplen on sc ne pro	water opera armer nentati Ex a M	well witing o s on t ion of <b>cpecte</b>	rganiz their 1 the pro d Sou Dono	ation iving oject <b>rces</b>
Project Risk: Since location of water we meet requirement of rural p against it. Operation and maintenance project management but co insufficient cost collection Environment Assessments An Environmental and S implementation of the project	eople of cost c and le cost c	e; som water collecti <u>ow ski</u> Impao	etimes well on an ll of m	it sha and r d mai nainter	ll be l elated ntenan ance a nt for	ocated facili nce w activit	l a bit ties a orks s ies.	far fro re qui someti	om vill ite im imes f	lages a portan face d	and vil t for ifficul	llagers sustain ties di	may nable ue to

Den in a Nie F													
Project No. E	Τ		ant -	f h	<b></b>		4	<b>:</b>	nal -				
Project Title	ND	oroven SA	CN	BM	nic el	PC	CT	In ru	ral ar CE	ES ES	CA	HB	SO
Priority in Province	ND ✓	JA SA			<u></u>			v V	✓ CE	<u>L</u> 3 √	V V	11D ✓	<u>s</u> 0 ✓
Target Groups	•	People	e in ru	ral area	, rura	ıl adm	inistra	tion of	ffices	of the	gouve	erneme	ent
Implementing Agency	•	MEA,	MAA	.Н,									
Potential Collaborators	•			WB, E									
Objectives: Decrease m	ortal	ity and	l mor	bidity i	n rui	al are	ea thro	ough e	extens	sion of	latri	ıe	
Rationale: In some rural places hygi under unavoidable circum being. Installation of latrine wil mortality also will relate h This project aims to suppo- latrine coupled with exter pregnant mothers and infat	l be o ygien ort im nsion <u>nts.</u>	es of fa one of ic envi proven works	solut ronme nent o for k	risk of ions to ent in su of hygic ceeping	dece decr ich ai enic c appr	ases c ease eas. onditi opriat	such c ons in e hyg	by ex leceas rural ienic	es in areas circur	ent ma rural throug nstanc	areas areas	s of hu and i tallatio	iman nfant on of
Project	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2020	2030	
Implementation						l							
Expected Outputs					De		ment l						
• Extension plan of latri					Report on extension plan of latrine								
• Extension materials	for	impro	oveme	nt of	•		loped		tensio		mater		for
hygienic condition	1	C1 4								ic con	dition		
• Introduction and instal					•		ber of					1	. 1
• Hygienic education to	villa	gers an	nd ext	ension	•				-	nd vill	-		
staff		ation of	flatuiu		•	Deve of lat		techn	ical n	nanual	s for	install	ation
• Technical manual for i Major Activities with the					Tot		st (EU	<b>ID</b> )		Fx	pecte	d Sou	roos
Technical assistance					_		st dep		on se		AAH,		
extension plan of latrir		ueve	lopine	111 01							,	Dono	
<ul> <li>Technical assistance</li> </ul>		deve	lonme	nt of	le and period of the proj f ect; the estimated cost is								
extension materials	for		oveme				milli						
hygienic condition		1											
	hnical	assi	stance	e for									
installation of latrine.													
<ul> <li>Technical assistance</li> </ul>		deve											
technical manuals for i	install	ation o	f latrii	ne									
Project Risk:													
Since villagers in targeted					. 1 1 .	•	1	C * .	1.	•		1	
and its effect shall be cor	nducte	d befo	re and	l after	instal	lation	of fac						
and its effect shall be con misuse of latrine and it will	nducte Il caus	ed befo se less j	re and projec	l after t imple	instal ment	lation ation o	of fac effect.	cilities	. Oth	erwise	, there	e wou	ld be
and its effect shall be con misuse of latrine and it will Budget allocation and st	nducte ll caus aff m	ed befo se less j nobiliza	re and projec ation	l after t imple by the	instal ment gove	lation ation o ernme	of fac effect. nt are	cilities quite	. Oth	erwise ortant	, there factor	e wou rs to	ld be keep
and its effect shall be cor misuse of latrine and it will Budget allocation and st appropriate hygienic cond	nducte ll caus aff m litions	ed befo se less nobiliza in vill	re and projec ation lages a	l after t imple by the after pr	instal ment gove oject	lation ation e ernme imple	of fac effect. nt are ementa	quite quite	. Oth imp Lack	erwise ortant of gov	, there factor vernme	e wou rs to ent suj	ld be keep
and its effect shall be con misuse of latrine and it will Budget allocation and st	nducte ll caus aff m litions	ed befo se less nobiliza in vill	re and projec ation lages a	l after t imple by the after pr	instal ment gove oject	lation ation e ernme imple	of fac effect. nt are ementa	quite quite	. Oth imp Lack	erwise ortant of gov	, there factor vernme	e wou rs to ent suj	ld be keep
and its effect shall be cor misuse of latrine and it wil Budget allocation and st appropriate hygienic cond on budget and staff will ca	nducte Il caus aff m litions use di t: Social	ed befo se less j nobiliza in vill ifficulti	re and project ation lages a ies of a ct Ass	l after t imple by the after pr sustain	instal menta gove roject able p nt for	lation ation of ernme imple project	of fac effect. nt are ementa t imple	quite quite ation.	. Oth imp Lack ation a	erwise ortant of gov and ma	factor factor vernme magen	e woul rs to ent suj nent.	ld be keep pport

Project No. F													
Project Title	Imp	roven	nent o	f info	rmatio	on and	l com	munic	ation	condi	tions		
Priority in Province	ND	SA ✓	CN	BM ✓	CO ✓	PC ✓	CT	CS ✓	CE ✓	ES ✓	CA ✓	HB ✓	SO ✓
Target Groups	•	People	e in ru	ral are	a, gou	verne	ment o	offices					
Implementing Agency	•	MI, M	AAH										
Potential Collaborators	•	WB											
Objectives: improveme purposes	ent ir	iterne	t con	nmun	icatio	n cor	ndition	n for	agri	cultur	al de	velop	ment
Rationale: According to information of are 94, so that it can be co and connect internet; how well development. Improvement of internet co areas, obtaining of farmi production for selection of of climate. This project aims to suppo agricultural development. Project Implementation	nsider ever, i onditic ng te bette	red tha interne on will chniqu r sellir	t mos et com help n nes frong pric	t of runection many om ex ce, info	things provide things provide the thing of the thing of the	such obta on of	incluc in the as; dev ining weath	ding fa e coun velopri price ner for	armers try sti nent o infor ecast t	f micr mation	ise mo e a lo o fina n of a zent se	bile p ng wa nce in agricu	whone y for rural ltural affect
Implementation													1
Expected Outputs					De	velop	ment	Indica	tors				
<ul> <li>Establishment of an or and management of imp</li> <li>Rules and regulations management of the organization</li> <li>Installation of required for internet condition ir</li> <li>Technical manual management of network</li> </ul>	oroved of 1 e ne equip nprov for	d mob the op twork oment a ement	ile net peratio and and fa	works n and l the		mana Deve Conn cond	olished agemen loped aecting ition.	nt rules a g are	and re a of	on fo gulatio f imj anuals	ons provec		and
Major Activities with the		cted C	Jutnut	ts	To	tal Co	st (El	JR)		Ex	pecte	d Sou	rces
<ul> <li>Technical assistance to plan of internet condition</li> <li>Technical assistance for and regulations for O&amp;</li> <li>Financial and tech installation of required</li> <li>Technical assistance technical manuals for O</li> </ul>	o dev on or dev M org nical equip for	elop i velopm ganizat assi ment a deve	mprov nent of ion stance and fao lopme	remen f rules e for cilities	t Tot le s ect abc	tal co and p ; the	st dep period	oends of th ated c	ne pro	a Do oj	onors	~~ ~ • • •	
Project Risk: Since project requires the project, there will be risks under the project. Initial investment cost w implementation. Environment Assessment: An Environmental and S	for sh vill b	ortage e hug	of hu ge, see	man r	esourc	es wh	io are ial so	eligibl	e for o	conduc be a	risk	ired v	vorks roject
implementation of the project							L'OJ.			- 511		,	