Combined Project Information Documents / Integrated Safeguards Datasheet (PID/ISDS)

Appraisal Stage | Date Prepared/Updated: 28-Feb-2018 | Report No: PIDISDSA23460
BASIC INFORMATION

A. Basic Project Data

<table>
<thead>
<tr>
<th>Country</th>
<th>Project ID</th>
<th>Project Name</th>
<th>Parent Project ID (if any)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chad</td>
<td>P162956</td>
<td>Chad – Climate Resilient Agriculture and Productivity Enhancement Project</td>
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</table>

<table>
<thead>
<tr>
<th>Region</th>
<th>Estimated Appraisal Date</th>
<th>Estimated Board Date</th>
<th>Practice Area (Lead)</th>
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<tr>
<td>AFRICA</td>
<td>26-Feb-2018</td>
<td>26-Apr-2018</td>
<td>Agriculture</td>
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<table>
<thead>
<tr>
<th>Financing Instrument</th>
<th>Borrower(s)</th>
<th>Implementing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investment Project Financing</td>
<td>Republic of Chad</td>
<td>Ministry of Agriculture, Irrigation and Equipment</td>
</tr>
</tbody>
</table>

Proposed Development Objective(s)

The proposed Project Development Objective (PDO) is to “promote the adoption of improved technologies leading to increase productivity and enhance the climate resilience of agricultural production systems in the areas targeted by the Project”.

Components

- Institutional support for sustainable agriculture development and climate resilience
- Supporting adoption of demand driven technologies and climate-smart agriculture
- Contingency Emergency Response
- Coordination. Knowledge management and Monitoring and Evaluation

Financing (in USD Million)

<table>
<thead>
<tr>
<th>Financing Source</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDA Grant</td>
<td>41.00</td>
</tr>
<tr>
<td><strong>Total Project Cost</strong></td>
<td><strong>41.00</strong></td>
</tr>
</tbody>
</table>

Environmental Assessment Category

B - Partial Assessment

Decision

The review did authorize the preparation to continue
B. Introduction and Context

Country Context

1. Chad is a vast and landlocked country in Central Africa characterized by land degradation and erratic climatic conditions. It has a total land area of 1,284,000 km² that encompasses three agro-ecological zones: Saharan, Sahelian, and Sudanian. Out of a total population of over 14 million people, 47 percent live below the poverty line. Chad ranked 186 out of 188 on the 2016 Human Development Index (HDI, 2016), making it one of the poorest and most deprived countries in the world. Chad remains largely rural, with over three-quarters of its population living in rural areas where they depend on subsistence farming for both household food and income security. The country is also beset with high unemployment, particularly among the youth.

2. The economy continues to underperform, due to impacts from two main exogenous shocks: low oil prices and elevated regional insecurity. The oil and agricultural sectors were Chad's main growth drivers until the fall of the world oil price in 2014. Since then, Chad has experienced a sharp economic slow-down, with a fall in government revenue, resulting in a significant reduction in public expenses negatively impacting GDP growth (from 6.3% in 2014 to 0.2% in 2017), leading the economy into deeper recession. This difficult economic situation has been exacerbated by the prevailing serious threat to security in the region (including civil conflict and low-level insurgencies in the neighboring countries of Sudan, Nigeria, CAR and Libya), which has caused economic disruption in Chad and forced the Government to reprioritize its spending to defense, hosting of refugees and internally displaced persons. It also had an impact on cross-border trade, leading to the collapse of internal and external trade, especially for livestock, and a major disruption of the trade routes of imported products, especially in the Sahel.

3. The short and medium-term outlooks remain challenging, with projected GDP growth for 2019 of 3.15 percent. The situation has led the Government of Chad to prioritize diversification of the economy, focusing more on the non-oil sectors. The most important of these is the agricultural sector, which employs 80% of the Chadian workforce and accounts for 52% of GDP. It is also the second largest source of export income, after oil. In its 2016 – 2020 national development plan, the Government has, among other actions, prioritized the industrialization of agriculture, with the aim of boosting exports in order to diversify the economy to reduce its dependence on oil exports and increase tax revenue.

4. The country is also experiencing rapid population growth (6.3% annually from 2010 to 2015), with a large youth cohort – more than 65% of the population is under the age of 25. The majority of the population remains rural, deriving their incomes from subsistence farming and herding activities, relying on traditional extensive production techniques, with limited access to markets and services (Systematic Country Diagnosis - SCD, 2015). Women engaged in agriculture and/or living in rural areas face considerable barriers: Chad ranks 140 out of 144 on the Global Gender Gap Index. Adult female literacy rate is 13.9% per UNESCO, about half that of men, and women are often confined to producing

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2 World Statistics Pocket Book, UN 2016
subsistence crops and traditional farming, with little access to advisory services and inputs (mainly captured by men). As a result, they are financially more vulnerable.

5. **Food insecurity is a big concern that is likely to be exacerbated by climate change.** It is estimated that one out of 10 Chadians, or 1.4 million people, are chronically food-insecure, meaning they are unable to meet their basic food requirements even during “good” years of crop harvest. The situation worsens during “bad” years – characterized by limited availability of and constrained access to food – where millions more can easily and quickly fall into transitory food insecurity. Difficulties in access to food are partly attributed to the poor performance of the important crops and livestock sub-sectors, which are characterized by sluggish productivity growth due to multiple factors. Such factors include lack of and limited access to promising technologies, underinvestment in new technologies, as well as climate-related constraints. Crop and livestock production are highly dependent on rainfall, making these sub-sectors extremely vulnerable to climate shocks (in particular the scarcity and poor distribution of rainfall over time and space). This situation is aggravated by the country’s vulnerability to climatic risks, both short-term risks associated with its inherent climatic variability and long-term risks associated with climate change. The National Action Program of Adaptation (NAPA, 2010) reported that the main short-term climate risks are associated with droughts, floods, poor spatial and temporal distribution of rainfall, extreme heat, and strong winds.

**Sectoral and Institutional Context**

6. **Chad has enormous unrealized agricultural potential.** The country has a total agricultural area of more than 49 million hectares, of which only 6 percent is currently cultivated. Similarly, the available water resources remain largely untapped, with only 9 percent of this potential being used. Less than 1 percent of the agricultural land is under irrigation in Chad. The main Agro-Ecological Zones (AEZ) in Chad, from North to South, are the Saharan (up to 200 mm average annual rainfall), the Sahelian (200-700 mm) and the Sudanian (over 750 mm) AEZ. These distinct AEZs provide a unique opportunity to diversify agricultural production and to develop dynamic and complementary crop and livestock value chains. While other projects are already targeting livestock systems in the Sahelian AEZ, the proposed project will focus on the higher potential Sudanian AEZ where smallholder farmers are engaged mainly in traditional rainfed cereal-based (sorghum, millet and berbéré and associated pulses) farming systems, but including also some small livestock production. This zone is also a transit zone for livestock herds as they move southwards from the Sahelian AEZ during the dry season, causing some farmer-livestock herder conflicts.

7. **Despite its vast potential, the agriculture sector continues to underperform.** Yields of key cereals are far below the averages for sub-Saharan Africa (SSA), and yield gains have not kept pace with the yield gains achieved in other countries. For example, sorghum yields average stand between 720 and 785 kg/ha³ respectively for Sahelian and Sudanian zones of Chad, against an average of 980 kg/ha in the ECOWAS⁴ region.

8. **Average rainfall ranges between 800 to 1250 mm in the Sudanian Agro-Ecological Zone (AEZ), but the distribution increases in variability, in both inter-annual quantities and geographic distribution, when moving from the south towards the north. The main crops are cereals (sorghum, berbéré, maize and rice),

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³ Chad – Agriculture Sector Review (ASRR), May 2017
mostly intercropped with legumes, and roots and tubers, mainly grown for household consumption. Farmers also cultivate cotton for cash. Unfortunately, production of cotton is in sharp decline due to weak value chain organization. The Sudanian AEZ area is also classified as a cattle husbandry (and transhumance) area. Finally, collection of wild fruits and plants remains common, especially collection of shea nuts.

9. The 2017 Agriculture Sector Review Report (ASRR) described how Chadian agriculture is going through a deep crisis. The sector is struggling to modernize and remains largely dependent on weather conditions. However, the report emphasized the potential for development of family farming in terms of productivity, profitability and resilience to shocks and its potential to meet the national and external food demand and improve the welfare of the rural populations.

10. Several related factors explain the low productivity of Chadian agriculture:

   ▪ **Weak research and extension services as well as low overall institutional capacity constrain innovation and slow the rate of technical change.** The agriculture research and development (AR&D) system is weak, with limited human and infrastructure resources and lack of continued programmatic support. In addition, the limited reach of public and private agricultural extension and advisory services significantly affects the dissemination and adoption of promising technologies.

   ▪ **The use of low yielding agricultural technologies and poor and unsustainable traditional agricultural practices are the main characteristics of Chadian subsistence farming.** Farmers lack access to improved agricultural technologies, as well as to the know-how needed to improve productivity. For example, less than 5% of farmers are currently using improved seeds (Agriculture Sector Review, May 2017).

   ▪ **The growing population is increasing pressure on existing fertile production resources** and hence rendering the practice of extensive subsistence agriculture and traditional livestock management systems more challenging over time. Increased competition for the shrinking natural capital often results in tensions between diverse user communities with at times conflicting interests. As a result, the increasing pressure on natural resources, particularly in marginal areas and their fragile eco-systems, are leading to lower soil fertility levels, soil erosion and degradation.

   ▪ **Climate shocks are exacting an increasing toll on Chadian agriculture.** The Intergovernmental Panel on Climate Change (IPCC) categorizes Chad as one of the countries highly vulnerable to the impacts of climate change. Vulnerability in Chad is characterized by increasing scarcity of available natural resources, fragile and substantially degraded soils, high level of food security and poverty, and lack of infrastructure, which hinder the capacity of local population to adapt to severe weather conditions. Indeed, the Intended Nationally Determined Contribution (INDC) of the Republic of Chad (September 2015) indicates that over the past decades, the Saharan and Sahelian climatic zones of Chad have progressed southwards by 150 km.

   ▪ **Weak or lack of policies also lead to cumbersome administrative and organizational procedures in Chad.** The Agriculture Sector Review Report (ASRR) highlighted the persistent lack of concrete measures to address effectively the major factors that impact food and nutritional security. In practice, efforts to address those factors are very limited, and often questioned. As an illustration, the ASRR proposed a process for setting up a pastoral code, which has not moved forward even though there has been a resurgence of conflicts related to the access and control of natural resources.
resources by different users. This situation of land insecurity is still limiting private investment and the sector’s performance.

11. To address these constraints, the 2017 Agriculture Sector Review Report has identified improving productivity and strengthening resilience of family farming as effective and appropriate means of reducing poverty in rural areas.

12. The Project will coordinate closely with other IDA-financed projects and projects being implemented by other partners to ensure effective synergies on the ground. For example, the Project will rely on the Chad Hydrological and Meteorological Services Modernization Project (P164256) to strengthen the capacity of the National Meteorology Agency (ANAM) to provide effective agro-meteorological services in support of the Project’s activities, including training and acquisition of digital solutions for data collection and analysis and weather forecasting (e.g. remote sensing application and GIS products). The Project will also complement interventions in pastoralism management being supported under the Regional Sahel Pastoralism Support Project (PRAPS – P147674). The Project will support mixed crops and livestock systems in agro-pastoral zones, while PRAPS will target purely pastoral zones. The Project will establish strategic and operational linkages with the Rural Mobility and Connectivity Project (P164747) which will be implemented in two out of the three targeted regions. This Project will to improve road access to selected agricultural production basin and markets in the Project area. Technologies to be introduced by the Project would also be used in the irrigation schemes developed by the Chad’s Component of the Sahel Irrigation Initiative Project (P154482). The is aligned with the Sahel Alliance Initiative which objective is to improve the support and coordination of development partners in the region to contribute effectively and more broadly to the stabilization and eradication of poverty, by developing rural areas, creating employment for youth, improving energy infrastructure and strengthening governance.

C. Proposed Development Objective(s)

13. The proposed Project Development Objective (PDO) is “to promote the adoption of improved technologies leading to increase productivity and enhance the climate resilience of agricultural production systems in the areas targeted by the Project.”

Key Results

14. The PDO-Level Results Indicators are:

   i. Number of direct Project beneficiaries – or farmers/producers/processors reached with agricultural assets or services (of which 40% female and 50% youth);

   ii. Total land area under improved technologies (in hectares) disseminated by the Project (including % in CSA technology - proxy for climate resilience technologies/practices);

   iii. Increase in average yields of the direct beneficiaries compared to average yields in the Project area (% of baselines for targeted crops in the project area); and

   iv. Share of targeted beneficiaries with rating ‘Satisfied’ or above on Project interventions
D. Project Description

The total project amount is the equivalent of USD 44.6 million (IDA grant of USD 41 million and beneficiaries contribution of USD 3.6 million) over a period of 5 years. The project consists of four components, namely: (A) Institutional support for sustainable agriculture development and climate resilience; (B) Supporting adoption of demand driven technologies and climate-smart agriculture; (C) Contingency emergency response; and (D) Coordination, knowledge management and monitoring, evaluation, and learning (MEL).

**COMPONENT A: INSTITUTIONAL SUPPORT FOR SUSTAINABLE AGRICULTURE DEVELOPMENT AND CLIMATE RESILIENCE:**
This component is designed to strengthen institutional capacities for Agricultural Research & Development (AR&D) and climate change adaptation at national level. It includes the following sub-components: (A1) Strengthening the agricultural research and development (AR&D) system; (A2) Strengthening of national support services for sustainable agricultural development and climate resilience and (A.3) : Strengthening the framework for sectoral strategies and reforms preparation and monitoring

**COMPONENT B: SUPPORTING ADOPTION OF DEMAND DRIVEN TECHNOLOGIES AND CLIMATE-SMART AGRICULTURE:**
This component will support the adoption of high productivity potential and climate resilient technologies /practices. It is sub-divided into three sub-components: (B.1) Improving the effectiveness of agricultural support services in the targeted areas; (B.2) Accelerating adoption of improved technologies and innovations; and (B.3) Implementing climate-smart agriculture plans.

**COMPONENT C: CONTINGENCY EMERGENCY RESPONSE**
This component will create a mechanism for financing emergency works in case of another disaster event by including a “zero-dollar” Contingency Emergency Response Component (CERC). Should this component be activated, it will allow rapid disbursement of funds to help reduce damage to infrastructure, ensure business continuity, and enable early rehabilitation. Following an adverse event that causes a major disaster, the GoC will be able to request that the Bank to channel resources from other components into an Immediate Response Mechanism (IRM). The IRM will enable the use of a portion of uncommitted funds from the overall IDA portfolio to respond to emergencies. To mobilize resources from the component, it will use the “Immediate Response Mechanism Operational Manual.”

**COMPONENT D: COORDINATION, M&E AND KNOWLEDGE MANAGEMENT**
This component is to support the Project on: (i) coordination and management, including human resources, financial management and procurement; (ii) M&E, gender impact evaluation and technical studies, (iii) knowledge management and communication; and (iv) safeguards and citizen engagement. The project will pilot the “Iterative Beneficiary monitoring” (IBM) System which is a simple low cost, high frequency feedback mechanism elaborated to inform regularly on what is not working during the project implementation and help to improve project results gradually and quickly without need of lengthy and expensive evaluations.

E. Implementation

Institutional and Implementation Arrangements

15. The project will be implemented under the supervision of the Ministry of Agriculture, Irrigation and Agricultural Equipment (MAIEA). It will be supported by a National Steering Committee for all
projects/programmes in the Agricultural sector, chaired by the Ministry’s General Secretary, whose composition and mandate will be specified in a MAIEA decree.

16. By Ministerial Decree, dated 05 October 2017, all new projects/programmes under the MoA are under a unique Project Coordination Department (CCP). The CCP mandate are to ensure: (i) the alignment of agricultural projects/programs with national and regional policies and strategies; (ii) the development of synergies and collaborative frameworks between agricultural projects/programs funded by different donors; (iv) monitoring the progress of projects / programs by updating the MoA’s indicators dashboard; (vi) knowledge management and communication on the projects and programs achievements; (viii) the organization of capacity building activities and exchange between the different projects/programs; (x) the recruitment of the (external) financial auditor in accordance with the provisions of the Financing Agreement and monitoring of the implementation of the recommendations; and (x) support for the release of counterpart funds for sector projects/programs.

17. The day to day project management and coordination will be under the responsibility of a Technical and Fiduciary Coordination Unit (UCTF). As agreed with MAIEA, the UCTF will be the implementation unit for all new World Bank funded operations in the agriculture sector. Reporting to the CCP, the UCTF main functions of this unit are to: (i) coordinate all projects of the agricultural portfolio of the Bank and their relations with the technical departments of the Ministry; (ii) the preparation and signing of the various memoranda of understanding, agreements and contracts linking the project(s) to the various partners and service providers; (iii) Financial Management (FM) and procurement activities in accordance with the provisions of the Credit Agreement between IDA and the Government and the procurement and FM guidelines; (v) Terms of reference preparation, recruitment and management of support staff and technical units of Bank / IDA (UTPs) agricultural projects; (vi) preparation of annual work plans, budgets and progress reports and presentation of these documents to the PSC in relation with the CCP; (vii) daily liaison with all national partners, including communication on agricultural projects / programs funded by the World Bank; and (viii) the organization of supervision missions, mid-term and final evaluations of WB agricultural program projects.

18. The UCTF will be headed by a National Programme Coordinator. It will include the following staff: an Internal Auditor, an Administrative and Financial Officer, an Accountant, one Procurement Officer, an Environmental Specialist, Gender and Social Development Specialist, a Monitoring and Evaluation and knowledge management Officer, and support staff.

19. At field level, a Regional Technical Support Unit (RTSU) will be set up in Sarh for the field activities coordination and follow up. The TSU will be reporting to the UCTF. The TSU will be a light structure that will work closely with the regional rural development delegations. The TSU mandates are to: (i) ensure and support the project activities implementation within its coverage area; (ii) providing technical and management support to project beneficiaries; and (iii) ensuring the compliance of the various subprojects to the operational rules and procedures.

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F. Project location and Salient physical characteristics relevant to the safeguard analysis (if known)

The proposed Project will primarily target the Sudanian Agro-Ecological Zone of Chad, considered as high potential for agro-pastoral activities, but where the risk of food and nutritional security and rural poverty are of serious concern. The project's activities will be implemented in three (03) administrative regions, namely Salamat, Middle Chari and Mandoul located in the south-eastern pole of Chad. The project areas are home to about 1.55 million people, representing over 11% of the total population. Targeted regions are further characterized by high poverty rates of 70.9% in Mandoul, 61.4% in Middle Chari, and 48.4% in Salamat. In these communities, the average rate of fertility is estimated at about 6.5. In terms of natural and human resources, the targeted areas have significant agricultural potential, representing the Sudanese AEZ with annual average rainfall ranging between 800 to 1250 mm. However, the rainfall is highly variable in both inter-annual quantities and in geographic distribution when moving from the south towards the north. Wooded Sudanian savanna constitutes the main vegetation in these areas, while relatively poor leached tropical ferruginous soils (on hills) and richer floodplains soils favorable to the culture of rice and all-season vegetable production dominate the main soil types.

G. Environmental and Social Safeguards Specialists on the Team

Demba Balde, Social Safeguards Specialist
Cheikh A. T. Sagna, Social Safeguards Specialist
Emeran Serge M. Menang Evouna, Environmental Safeguards Specialist
Bougadare Kone, Environmental Safeguards Specialist

SAFEGUARD POLICIES THAT MIGHT APPLY

<table>
<thead>
<tr>
<th>Safeguard Policies</th>
<th>Triggered?</th>
<th>Explanation (Optional)</th>
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<tbody>
<tr>
<td>Environmental Assessment OP/BP 4.01</td>
<td>Yes</td>
<td>The Project is classified as category B project. As part of the project’s aim of improving agricultural productivity, the project will support the use of improved agricultural inputs including fertilizers, improved seeds, irrigation agriculture and pesticides that will require environmental assessment to ensure potential adverse effects are mitigated. The project is expected to be beneficial to the environment given the aim is to ensure the impact of climate change is mitigated, adaptation measures implemented and resilience is built in to the production landscape. The project will ensure that</td>
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</table>
modern efficient utilization of pesticide and fertilizer will be introduced and farmers trained in their applications that will have a positive impact on the environment compared to the status quo. Further, a strict control mechanism will be put in place to avoid potential adverse impacts such as pollution from agricultural runoffs. An Environmental and Social Management Framework (ESMF) will be prepared by the borrower given that the exact detailed footprint types and locations of project activities and their respective sites have not yet been identified. The ESMF will be consulted upon and publicly disclosed, both in-country and at the InfoShop before appraisal. In addition, for subprojects that are expected to be identified during preparation, an ESIA will be prepared by appraisal.

<table>
<thead>
<tr>
<th>Natural Habitats OP/BP 4.04</th>
<th>No</th>
<th>The project is not expected to intervene in any critically natural habitats</th>
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</thead>
<tbody>
<tr>
<td>Forests OP/BP 4.36</td>
<td>No</td>
<td>The project will not support forest exploitation.</td>
</tr>
<tr>
<td>Pest Management OP 4.09</td>
<td>Yes</td>
<td>OP 4.09 is triggered based on project’s activities to increase agricultural productivity which is expected to result in increased use of agrochemicals, such as pesticides. Any use of pesticides will be justified under the Integrated Pest Management (IPM) approach that will be promoted by the project. An Integrated Pest Management Plan (IPMP) will be developed, consulted upon by the borrower and publicly disclosed thereafter, both in-country and at the InfoShop before appraisal.</td>
</tr>
<tr>
<td>Physical Cultural Resources OP/BP 4.11</td>
<td>Yes</td>
<td>Due to potential impacts on Physical Cultural Resources associated with civil works, the ESMF will include provisions of “Chance Finds” approach to ensure that these aspects will be taken into account in ESIA/EMPs to be developed under the ESMF.</td>
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<tr>
<td>Indigenous Peoples OP/BP 4.10</td>
<td>No</td>
<td>There are no Indigenous Peoples People, as per the policy definition, in the project area.</td>
</tr>
<tr>
<td>Involuntary Resettlement OP/BP 4.12</td>
<td>Yes</td>
<td>This policy is triggered because the project investments may support interventions that could entail land taking or limiting access to land and other resources. Since details of the subproject footprints are still unknown at this very juncture, an RPF will be developed by the borrower, consulted upon and publicly disclosed, both in-country and at the InfoShop, before appraisal. Where and when warranted Full Resettlement Action Plans (FRAPs) or</td>
</tr>
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</table>
Abbreviated Resettlement Action Plans (ARAPs) will be prepared, reviewed, cleared and disclosed.

<table>
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<tr>
<th>Safety of Dams OP/BP 4.37</th>
<th>No</th>
<th>The project is not building dam (big and small).</th>
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</thead>
<tbody>
<tr>
<td>Projects on International Waterways OP/BP 7.50</td>
<td>No</td>
<td>The Project is not intervening on International Waterways.</td>
</tr>
<tr>
<td>Projects in Disputed Areas OP/BP 7.60</td>
<td>No</td>
<td>Non applicable</td>
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**KEY SAFEGUARD POLICY ISSUES AND THEIR MANAGEMENT**

**A. Summary of Key Safeguard Issues**

1. Describe any safeguard issues and impacts associated with the proposed project. Identify and describe any potential large scale, significant and/or irreversible impacts:

The environmental and social impacts and risks of the project activities are expected to be moderate to low, mostly site-specific and easily manageable to an acceptable level, typical of Category B projects. The potential negative environmental and social negative impacts and risks of the proposed project are associated with the implementation of Component 1 an 2, which are designed to support various activities for strengthening the agriculture research system and productive and resilient technology dissemination. These include: soil erosion due to agricultural developments; the spread of waterborne disease vectors and health risks associated with pesticide use, risks of increased prevalence of HIV/AIDS and other SCDs due to foreign workers on construction sites, the risk of pollution and environmental degradation by fertilizers and pesticides, reduced vegetation and pasture due to agricultural developments, etc. At the social level, though the project does not anticipate to physically display people, some of its proposed activities may require acquisition of land plots or restriction of access to productive natural resources, and/or loss of incomes and livelihood resources without proper precautionary measures taken on time, could potentially lead to the involuntary resettlement of project affected persons (PAP).

The proposed project triggers are OP/BP 4.01 (Environmental Assessment), OP 4.09 (Pest Management), OP/BP 4.11 (Physical Cultural Resources); and OP/BP 4.12 (Involuntary Resettlement). In conformity with the World Bank' requirements and the Government’s Environmental Impact Assessment legislation, an ESMF was prepared, amply consulted upon, along with a RPF, and a PMP. These were approved by the Ministry of Environment through a national validation workshop, cleared by the Bank and publicly disclosed both in-country and at the World Bank website prior to appraisal.

No large-scale or irreversible adverse impacts and risks haves been identified during the participatory ESMF, IPMP and RPF analysis conducted.

2. Describe any potential indirect and/or long term impacts due to anticipated future activities in the project area:

No adverse long term impact and risk haves been identified during the EA process. Instead, the project is expected to deliver significant environmental and social benefits to hundred thousands of Chadians’ beneficiaries whose main livelihoods depend largely on agriculture crops and value. The adoption of improved technologies, the sustainable management practices of land and water as part of the formulation and implementation of climate-smart agriculture plans are expected to increase the productive capital of the land and the net carbon stock; and to increase the resilience of agro-sylvo-pastoral systems to climate risks. However, project activities to increase agricultural

Jan 04, 2018
productivity could potentially induce indirect, but manageable impacts associated with increased use of agrochemicals, such as pesticides. These issues are addressed in the Pests and Pesticides Management Plan (PMP).

3. Describe any project alternatives (if relevant) considered to help avoid or minimize adverse impacts.

N/A

4. Describe measures taken by the borrower to address safeguard policy issues. Provide an assessment of borrower capacity to plan and implement the measures described.

The proposed project will be implemented by a new PIU under the Ministry of Agriculture, Irrigation and Agriculture Equipment. The Ministry has some experience in implementing the Bank’s safeguards policies as it has implemented the Agriculture Support Production Project (P126576). The Government of Chad (GoC) has completed the preparation of an ESMF, an PMP and a RPF to address issues related to the safeguard policies triggered.

The ESMF outlines an environmental and social screening process for future sub-projects to ensure that they are environmentally sound and socially equitable, sustainably implementable, and in line with GoC and World Bank operational safeguards policies and guidelines on environmental and social impacts and risks management. The implementation cost of the ESMF is estimated at FCFA 502 million, is proposed to be included the overall project budget.

A Pests and Pesticide Management Plan (IPMP) has been prepared based on project activities to increase agricultural productivity which is expected to result in increased use of agrochemicals, such as pesticides. The PMP action plan aim to ensure safe pests and pesticides management. It includes: (i) promoting the use of alternative pest management strategies in the project areas; (ii) strengthening of controls during importation of phytosanitary products; (iii) capacity building of key actors on the rational use of pesticides; (iv) sensitization of producers on good pesticide management practices (transport, storage, applying, safety measures); (v) environmental monitoring of the physico-chemical quality of water resources (groundwater and ponds); (vi) health monitoring of pesticides users and management of empty containers; and (v) a coherent budget of FCFA 328.5 million proposed to be included in the overall project budget.

The RPF sets forth the basic principles and procedures to be followed once the physical footprints of project activities are known in details to properly mitigate any potential adverse social impacts (i.e. preparation of site specific resettlement action plan-RAP, etc.). The RPF includes specifics such as valuation of assets, public consultation and participation, institutional arrangement, capacity building, monitoring and evaluation, grievance redress mechanism, budget and source of financing. CFA 192.5 million are proposed to support resettlement (RAP preparation, sensitization and training of key stakeholders), and to be included in the overall project cost. These do not include compensation costs which will be borne by the Government.

A 2-person team of Social and Environmental Safeguards Specialists (SESS) will be established at the PIU level to adequately handle the implementation of social and environmental recommendations. The SESS will work in tandem with the WBG safeguards specialists to ensure due compliance with core safeguards policies requirements.

All bidding documents for civil works will have embedded environmental and social clauses (ESC), in order to enable contractors to follow up on environmental and social due diligence and to mitigate the anticipated negative risks and impacts. Depending of the type, scope/nature and size of construction, a supervising engineer (Bureau de contrôle) will be hired by the project to oversee the construction works (including implementation of environmental and social measures by the constructor) on behalf of the PIU. For small size construction type, the PIU will rely on the
deconcentrated technical services like Génie Rural, Regional Directorate for Environmental, as well as local level Socio-environmental Specialist, etc. to ensure due diligence on safeguards as described in the ESC. Regular Environmental Assessment and Pollution and Nuisance Control Directorate (DEELCPN) patrols will inspect the construction sites if the construction activities are in compliance with the approved site specific safeguards documents.

The Borrower has some experience with the World Bank Safeguards policies’ requirements through several past and ongoing Bank funded projects. The proposed project will build on this experience and the 3 standalone safeguards instruments (ESMF, IPMP & RPF) include provisions to further strengthen the capacity of the various stakeholders.

5. Identify the key stakeholders and describe the mechanisms for consultation and disclosure on safeguard policies, with an emphasis on potentially affected people.

The key stakeholders identified are:

• The Steering Committee (SC): The Steering Committee will monitor the registry and budgeting of the environmental and social due diligence from the Work Plan and Annual Budget (WPAB);
• The Project Management Unit (PMU): The PMU will ensure that environmental and social aspects and issues are taken into account in the implementation of project activities. The PMU should benefit from capacity building in the implementation of the project;
• The Environmental Assessment and Pollution and Nuisance Control Directorate (DEELCPN): it will review and approve the environmental classification of sub-projects and also approve the Environmental and Social Impact Notices (ESIN). It will also participate in the external monitoring;
• The research institutions will provide technical manuals of research findings and ecological monitoring of some activities. They will also participate in the preparation of the manual of good agricultural practices.
• The National Agency for Rural Development Support (ANADER) will be responsible for the extension of good agricultural and environmental practices in the area;
• The Department of Fisheries and Aquaculture Development will take care of the environmental and fish production monitoring;
• Decentralized Technical Services (DTS or « STD » in French): The STDs are composed by the Regional and Departmental Directorates of Ministries in charge of agriculture, animal resources, Health, of Environment. These regional and departmental directorates of the project’s intervention zones will be associated to all activities implemented in their range and zones of action during and after the Project;
• Municipalities: They will participate in environmental and social monitoring through their municipal technical services;
• The Regional Committees of Actions (CRA), the local Committees of Actions (CLA), the Departmental Committees of Actions (CDA), the National Council of Concertation of Rural Producers of Chad (CNCPR), Associations of Farmers, Breeders and Fishermen. All these structures will also be involved in the implementation of the ESMF of the Project (identification of sub-projects, screening, etc.);
• Construction companies: They will be responsible for the implementation of the Site-ESMFs and the drafting of implementation reports of these ESMFs through their Environmental Expert;
• Owner’s Engineer: The Environmental Expert within their organization will be responsible for the day-to-day monitoring of the implementation of the site-ESMF and the drafting of an environmental and social monitoring report to submit to the Project Management Unit (PMU);
• NGOs: In addition to social mobilization, they will participate in the sensitization of populations and the monitoring of the implementation of the ESMF interpellation of the principal actors of the Project.

Throughout the entire process of project preparation, transparent and engaging stakeholder participation consultations were organized in the project intervention areas. The key concerns raised by the local stakeholders are
related to land degradation issues that affect their livelihood, mainly the reduction of arable lands due to water erosion and silting of lowlands, lack of access to finance, and need for capacity building to improve agricultural practices. They have been incorporated in the project design (protection of watersheds from erosion and secure irrigation potential, Farmers Field School program, matching grant facility, etc.). Since stakeholder consultation and participation is an iterative process, it will be pursued and sustained throughout the project lifespan.

As part of the ESMF, the IPMP and the RPF, in addition to the series of intensive local stakeholder meetings (open and/or focus groups discussions), a national stakeholders’ workshop was organized by the Client on to share the results of the safeguards instruments, mainstream ownership and seek inputs from the stakeholders. The 3 standalone safeguards instruments, approved by the DEELCPN as result of this national stakeholders’ workshop, have been submitted to the Bank for final approval. They have been disclosed both in-country (Feb 23, 2017) and at the InfoShop (Feb. 22, 2018) prior to appraisal. The ESMF describes a comprehensive consultation and participation mechanism and disclosure during subprojects preparation.

B. Disclosure Requirements

<table>
<thead>
<tr>
<th>Environmental Assessment/Audit/Management Plan/Other</th>
<th>Date of receipt by the Bank</th>
<th>Date of submission for disclosure</th>
<th>Comments</th>
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"In country" Disclosure

Chad

23-Feb-2018

Comments

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<th>Resettlement Action Plan/Framework/Policy Process</th>
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"In country" Disclosure

Chad

23-Feb-2018

Comments
Pest Management Plan

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<th>Was the document disclosed prior to appraisal?</th>
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"In country" Disclosure
Chad
23-Feb-2018

Comments

If the project triggers the Pest Management and/or Physical Cultural Resources policies, the respective issues are to be addressed and disclosed as part of the Environmental Assessment/Audit/or EMP.

If in-country disclosure of any of the above documents is not expected, please explain why:

C. Compliance Monitoring Indicators at the Corporate Level (to be filled in when the ISDS is finalized by the project decision meeting)

OP/BP/GP 4.01 - Environment Assessment

Does the project require a stand-alone EA (including EMP) report?
Yes
If yes, then did the Regional Environment Unit or Practice Manager (PM) review and approve the EA report?
Yes
Are the cost and the accountabilities for the EMP incorporated in the credit/loan?
Yes

OP 4.09 - Pest Management

Does the EA adequately address the pest management issues?
Yes
Is a separate PMP required?
Yes
If yes, has the PMP been reviewed and approved by a safeguards specialist or PM? Are PMP requirements included in project design? If yes, does the project team include a Pest Management Specialist?
Yes
OP/BP 4.11 - Physical Cultural Resources
Does the EA include adequate measures related to cultural property?
Yes
Does the credit/loan incorporate mechanisms to mitigate the potential adverse impacts on cultural property?
Yes

OP/BP 4.12 - Involuntary Resettlement
Has a resettlement plan/abbreviated plan/policy framework/process framework (as appropriate) been prepared?
Yes
If yes, then did the Regional unit responsible for safeguards or Practice Manager review the plan?
Yes

The World Bank Policy on Disclosure of Information
Have relevant safeguard policies documents been sent to the World Bank for disclosure?
Yes
Have relevant documents been disclosed in-country in a public place in a form and language that are understandable and accessible to project-affected groups and local NGOs?
Yes

All Safeguard Policies
Have satisfactory calendar, budget and clear institutional responsibilities been prepared for the implementation of measures related to safeguard policies?
Yes
Have costs related to safeguard policy measures been included in the project cost?
Yes
Does the Monitoring and Evaluation system of the project include the monitoring of safeguard impacts and measures related to safeguard policies?
Yes
Have satisfactory implementation arrangements been agreed with the borrower and the same been adequately reflected in the project legal documents?
Yes

CONTACT POINT
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Senior Agriculture Economist

Ziva Razafintsalama
Senior Agriculture Economist

**Borrower/Client/Recipient**
Republic of Chad

**Implementing Agencies**
Ministry of Agriculture, Irrigation and Equipment
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**APPROVAL**

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<tr>
<th>Task Team Leader(s):</th>
<th>Amadou Ba</th>
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<td>Ziva Razafintsalama</td>
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**Approved By**

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<tr>
<th>Safeguards Advisor:</th>
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<tr>
<td>Practice Manager/Manager:</td>
<td>Marianne Grosclaude</td>
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<td>Country Director:</td>
<td>Francois Nankobogo</td>
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