Loan Agreement

(Tamil Nadu Irrigated Agriculture Modernization Project)

between

INDIA

and

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
LOAN AGREEMENT

Agreement dated as of the Signature Date, between INDIA ("Borrower") and INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT ("Bank"). The Borrower and the Bank hereby agree as follows:

ARTICLE I — GENERAL CONDITIONS; DEFINITIONS

1.01. The General Conditions (as defined in the Appendix to this Agreement) apply to and form part of this Agreement.

1.02. Unless the context requires otherwise, the capitalized terms used in this Agreement have the meanings ascribed to them in the General Conditions or in the Appendix to this Agreement.

ARTICLE II — LOAN

2.01. The Bank agrees to lend to the Borrower the amount of three hundred and eighteen million Dollars (US$ 318,000,000) ("Loan"), to assist the project described in Schedule 1 to this Agreement ("Project").

2.02. The Borrower may withdraw the proceeds of the Loan in accordance with Section III of Schedule 2 to this Agreement.

2.03. The Front-end Fee is equal to one quarter of one percent (0.25%) of the Loan amount.

2.04. The Commitment Charge is equal to one quarter of one percent (0.25%) per annum on the Unwithdrawn Loan Balance.

2.05. The interest rate is the Reference Rate plus the Variable Spread or such rate as may apply following a Conversion; subject to Section 3.02(e) of the General Conditions.

2.06. The Payment Dates are June 15 and December 15 in each year.

2.07. The principal amount of the Loan shall be repaid in accordance with Schedule 3 to this Agreement.

2.08 (a) If on any given day, the Total Exposure exceeds the Standard Exposure Limit (as said terms are defined in sub-paragraphs (b)(ii) and (b)(iii) of this Section), the Borrower shall pay to the Bank a surcharge at the rate of
one half of one percent (0.5%) per annum of the Allocated Excess Exposure Amount (as defined in sub-paragraph (b)(i) of this Section) for each said day ("Exposure Surcharge"). The Exposure Surcharge (if any) shall be payable semi-annually in arrears on each Payment Date.

(b) For purposes of this Section the following terms have the meanings set forth below:

(i) "Allocated Excess Exposure Amount" means for each day during which the Total Exposure exceeds the Standard Exposure Limit, the product of: (A) the total amount of said excess; and (B) the ratio of all (or, if the Bank so determines, a portion) of the Loan to the aggregate amount of all (or the equivalent portions) of the loans made by the Bank to the Borrower and to other borrowers guaranteed by the Borrower that are also subject to an exposure surcharge, as said excess and ratio are reasonably determined from time to time by the Bank.

(ii) "Standard Exposure Limit" means the standard limit on the Bank's financial exposure to the Borrower which, if exceeded, would subject the Loan to the Exposure Surcharge, as determined from time to time by the Bank.

(iii) "Total Exposure" means for any given day, the Bank's total financial exposure to the Borrower, as reasonably determined by the Bank.

ARTICLE III — PROJECT

3.01. The Borrower declares its commitment to the objectives of the Project. To this end, the Borrower shall cause the Project to be carried out by the Borrower’s State of Tamil Nadu (Project Implementing Entity) with the assistance of other Participating Implementing Agencies, in accordance with the provisions of Article V of the General Conditions, Schedule 2 to this Agreement and the Project Agreement.

ARTICLE IV — EFFECTIVENESS; TERMINATION

4.01. The Effectiveness Deadline is the date ninety (90) days after the date of the Signature Date.
ARTICLE V — REPRESENTATIVE; ADDRESSES

5.01. The Borrower’s Representative is any of the following officials acting severally:
the Secretary, Additional Secretary, Joint Secretary, Director, Deputy Secretary,
or Under Secretary of the Department of Economic Affairs of the Borrower’s
Ministry of Finance.

5.02. For purposes of Section 10.01 of the General Conditions:

(a) the Borrower’s Address is:

Secretary
Department of Economic Affairs
Ministry of Finance
Government of India
North Block
New Delhi 110 001, India; and

(b) the Borrower’s Electronic Address is:

e-mail:
seey-dea@nic.in

5.03. For purposes of Section 10.01 of the General Conditions,

(a) the Bank’s Address is:

International Bank for Reconstruction and Development
1818 H Street, N.W.
Washington, D.C. 20433
United States of America; and

(b) the Bank’s Electronic Address is:

Facsimile:
1-202-477-6391

e-Mail:
jahmad@worldbank.org
AGREED as of the Signature Date.

INDIA

By

Authorized Representative

Name: SAMEER KUMAR KHARE

Title: JOINT SECRETARY

Date: DECEMBER 26, 2017

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

By

Authorized Representative

Name: JOHN D. BLOMQVIST

Title: ACTING COUNTRY DIRECTOR, INDIA

Date: DECEMBER 26, 2017
SCHEDULE 1

Project Description

The objective of the Project is to enhance productivity and climate resilience of irrigated agriculture, improve water management, and increase market opportunities for farmers and agro-entrepreneurs in selected sub-basin areas of Tamil Nadu.

The Project consists of the following parts:

Part A. Irrigation and Water Management

A.1 Institutional strengthening and capacity building for water management

Activities to be supported include:

1. Strengthening, modernizing, and carrying out capacity building activities for WRD and related agencies, including the SWaRMA, IWS and SG&SWDC, including provision of technical assistance for studies of ICT-based technologies and river-basin master plans; training of officers; provision of equipment, services and institutional infrastructure to support data collection and analysis; building of a modern knowledge base; development of modern ICT-enabled knowledge products and services; policy analysis; partnerships to support awareness-building; institutional synergy; and decision support.

2. Development of an e-Water Resource Department mobile application to facilitate customized access for technical staff, WUAs and the public to relevant data services, documents, and mapping services that draw upon curated data and real-time information from in-situ monitoring and earth observation.

3. Implementation of a pilot for monitoring services to support improved water resources and irrigated agriculture management.

4. Improvement of operation and maintenance for irrigation systems, including improving the information and analytical tools and capacity for system operation, updating of norms for operation and maintenance, improving estimation of operation and maintenance real needs with actual allocations, and improving operation and maintenance benchmarking.

A.2 Irrigation systems modernization

Activities to be supported include:
1. Rehabilitation and modernization of irrigation infrastructure by WRD or selected WUAs, based on individual sub-basin development plans, including modernization of control structures (diversion weirs), supply channels, cross-masonry structures; construction of recharge well structures; strengthening and upgrading of tank bunds; installation of flow measurement devices; upgrading of distribution systems; and improvement of irrigation and drainage canals.

2. Undertaking quality check of rehabilitation works, through introduction of O.K. card system, conducting and documenting specified frequency quality control tests by WRD, deploying non-nuclear density testing devices for on-site determination of compaction parameters, utilizing mobile quality control laboratories of the WRD for expediting testing of inputs and outputs, and hiring third-party construction quality consultancies.

3. Undertaking on farm development works, including concrete lining of irrigation channels and desilting of irrigation channels, in order to improve irrigation water delivery to farmers.

4. Improvement of operation and maintenance for irrigation infrastructure systems, including tanks, anicuts, canals and associated drainage.

A.3 Participatory irrigation management

Activities to be supported include:

1. Establishing a Participatory Irrigation Management (PIM) wing within the WRD to operate as the main unit for all PIM and WUA related activities and supporting such wing in developing tools for monitoring, assessing and conducting regular performance assessments for PM staff and WUAs, and strengthening and operationalizing a sustainable PIM model within the WRD and its four regional offices.

2. Establishing WUAs to improve the involvement of water users in management and operation, and maintenance of irrigation system.

3. Providing training and capacity building assistance to WUAs, including training on operation and maintenance of irrigation systems.

4. Improvement of operation and maintenance for irrigation systems, including improving budgeting in the Enterprise Information Management System, timely repair/modernization, and improving participatory irrigation management, and training WUAs in preparation of operation and maintenance budgets, collecting WUA subscription fees and carrying out maintenance activities.
A.4 Convergence for improved service delivery

Activities to be supported include:

1. Establishing and strengthening SWIKCs in selected model villages, including by providing administrative and operation cost support for their field staff, in order to facilitate CCWM at the village level.

2. Capacity building for stakeholders and farmer communities to enable them to prepare a community-level action plan for optimum use of water.

Part B. Agriculture Productivity Enhancement, Diversification, Improved Livelihoods, Marketing and Value Addition

B.1 Agriculture intensification and diversification

Activities to be supported include:

1. Upgrading and dissemination of technologies and agronomic and management practices for crops and horticulture through productive investments, demonstrations, awareness building, capacity building, training activities for producers and government staff, including:

   (a) promotion of cultivation of high-yielding, short-duration crop varieties/hybrids and complementary agronomic practices;

   (b) support to demand-driven micro-irrigation schemes;

   (c) testing, demonstration and dissemination of promising crop husbandry practices, water management technologies and integrated crop management;

   (d) promotion of cultivation of pulses, including identification of technology gaps, evaluation and demonstration of technology options, mobilization of pulse producer groups, provision of high-quality seeds and production technologies to producer groups, training of producer groups in postharvest value addition, and undertaking quality seed production under farmers’ participation approach;

   (e) promotion of accelerated diversification from a mono crop paddy system to a mixed cropping system including high-value crops (fruits, vegetables and spices), pulses, oilseeds and millets, including promotion of modern technologies, facilitating better linkages between farmers and markets, postharvest management and value addition;
(f) identification of technology gaps resulting in low productivity, demonstration and dissemination of crop husbandry best practices and water management technologies;

(g) promotion of and productive investments in resource saving technologies and practices, such as micro-irrigation, integrated soil fertility and nutrient management, system of rice intensification, sustainable sugarcane initiative, research and development of new drought-resistant seed varieties, pest management, organic farming techniques, and precision farming techniques;

(h) development of horticulture, including provision of assured irrigation for horticulture crops in select areas, promotion of use of seeds of improved varieties and production practices, and adoption of appropriate agronomic and irrigation practices;

(i) promotion of protected cultivation of flowers and vegetables, including construction of poly greenhouses and demonstration of mulching technology;

(j) training and capacity building for farmers in latest crop production technologies and other practices, through farmer field schools, on-site trainings, cluster-level trainings for farmers and exposure visits to other states;

(k) undertaking crop optimization ICT pilot;

(l) strengthening of market intelligence network to provide price forecasts to farmers before the sowing of crops;

(m) expansion of farmer database to provide farmers with price and other information through short message services or other methods;

(n) strengthening and promotion of e-agriculture platform for two-way farmer-scientist interaction covering crops, horticulture, livestock and fish production; and

(o) piloting of remote sensing and geographic information system application for geo-tagging at selected sub-basins.
B.2 Improving alternative livelihood sources through livestock and inland fisheries

Activities to be supported include:

1. Enhancing performance of livestock by: (i) adoption of sustainable and climate resilient animal husbandry technologies; (ii) formation of dairy interest groups with a focus on women and dissemination of technology through such groups; (iii) strengthening of input supply, extension, service delivery systems and infrastructure; (iv) validation of precision-balanced feeding technology and use of precision mineral feeding to reduce greenhouse gas emission; (v) strengthening of breeding programs and artificial insemination networks, including setting up of new mobile artificial insemination centers, fodder development and preservation, disease surveillance, calf management, mastitis control, and field veterinary institutions and animal disease intelligence units; (vi) improved information management, through establishment of ICT infrastructure for enhanced management information system and animal identification system and distribution of animal identify cards; (vii) undertaking innovative and climate-resilient validation trial in supplementing critical nutrients and production of mineral salt licks by dairy interest groups in an entrepreneurial mode; (viii) capacity development programs for Department of Animal Husbandry officers in infertility management, mastitis control methods and other critical areas of knowledge gap; and (ix) provision of veterinary equipment to select Department of Animal Husbandry institutions at the field level for improving better service delivery to the farmers.

2. Improving fish productivity in tanks and ponds through demonstrations of climate resilient modern technology packages; improved fish tank management; enhanced production models using fast-growing fish varieties; introduction of suitably formulated fish feed using locally available ingredients; promotion of innovative technologies and good aquaculture practices; production and supply of quality fingerlings through private farms; implementation of culture-cum-capture models for irrigation tanks; support to fish farmers in value chains; facilitation of better market links through development and enhancement of value chains and establishment of fish kiosks; upgrading of technology, breed quality and management practices of dairy and fisheries; demonstrations, training and capacity building of producers and line department staff; upgrading of research and extension infrastructures; training to fishers, transporters, processors, handlers, wholesalers and retailers in product safety procedures; and institutional capacity enhancement for quality control in fish feed and seed certification by strengthening knowledge and skills.
B.3 Agriculture marketing, value addition and post-harvest management

Activities to be supported include:

1. Establishing commodity groups and FPOs, providing capacity building and business expansion support to existing FPOs, and providing market link services to FPOs.

2. Providing grants to finance demand-driven investments to FPOs.

3. Providing business advisory, credit facilitation and market facilitation services to agro-entrepreneurs, especially women agro-entrepreneurs.

4. Supporting productive postharvest management infrastructure, and agriculture enterprise development.

5. Modernizing, automating and digitizing traditional market channels, including launching of smart agri-marketing hubs to introduce such practices through mobile and wireless platforms.

6. Supporting studies, management strengthening, and innovations for improved service delivery and results.

7. Piloting e-negotiable warehouse receipt model for mitigating price risk for farmers accessing regulated markets and other storage points, including providing finance investment support for warehouse rehabilitation/development, providing support for coordination, providing support for farmer’s enrollment, and providing evaluation support.

8. Supporting e-agriculture platform, crop optimization and geo-tagging to build localized problem-solving knowledge services.

9. Providing support to the operation of the agri-business promotion facility to foster backward and forward linkages in the value chains for agricultural products, and providing technical advisory services to facilitate access to finance for agri-business entrepreneurs.

10. Monitoring FPOs and agri-enterprises through cell-phone applications.

11. Training and capacity building of line department staff, including training in agribusiness, agriculture marketing, supply chain management and other relevant areas; undertaking domestic and international exposure and learning visits; and providing technical advisory services.
Part C. Project Management Support

1. Establishment of MDPU and its capacity building to support management and coordination of various activities under the Project.

2. Establishment of monitoring and evaluation system for the Project, and contracting an external agency to monitor Project activities and impact.

3. Coordination of innovative application of ICT, including through enhancement of Geographic Information System (GIS)-enabled web-based water resources information system, and provision of continued support and necessary enhancement to the management information system for the Project.

Part D. Contingency Emergency Response

1. Provision of immediate response in case of an Eligible Crisis or Emergency, as needed.
SCHEDULE 2

Project Execution

Section I. Implementation Arrangements

A. Institutional Arrangements

1. To facilitate the carrying out of the Project, the Borrower shall make the proceeds of the Loan available to the State of Tamil Nadu in accordance with the Borrower’s standard arrangements for developmental assistance to the States of India. Notwithstanding the foregoing, in the event that any provision of this Agreement, including the instructions that the Bank shall have specified pursuant to Sections 2.01(b) or 2.04(b) of the General Conditions, were to be found inconsistent with the Borrower’s standard arrangements for development assistance to the States of India, the provisions of this Agreement and related instructions shall govern.

2. The Borrower shall cause the State of Tamil Nadu to make available the Loan proceeds to Participating Implementing Agencies in accordance with the PIP.

3. The Borrower shall at all times protect its own interests and the interests of the Bank to accomplish the purposes of the Loan.

Section II. Project Monitoring Reporting and Evaluation

A. Project Reports

The Borrower shall, through the State of Tamil Nadu, furnish to the Bank each semi-annual Project Report not later than one month after the end of six months, covering the calendar semester.

Section III. Withdrawal of Loan Proceeds

1. Without limitation upon the provisions of Article II of the General Conditions and in accordance with the Disbursement and Financial Information Letter, the Borrower may withdraw the proceeds of the Loan to: (a) finance Eligible Expenditures; and (b) pay: (i) the Front-end Fee; and (ii) Interest Rate Cap or Interest Rate Collar premium; in the amount allocated and, if applicable, up to the percentage set forth against each category of the following table:
<table>
<thead>
<tr>
<th>Category</th>
<th>Amount of the Loan Allocated (expressed in USD)</th>
<th>Percentage of Expenditures to be financed (inclusive of Taxes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Goods, works, non-consulting services, training and Workshops, consulting services for the Project, and operating costs, for the Project</td>
<td>313,805,000</td>
<td>70%</td>
</tr>
<tr>
<td>(2) Grants under Part B.3 of the Project</td>
<td>3,400,000</td>
<td>70%</td>
</tr>
<tr>
<td>(3) Emergency Expenditures for the CER Component</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>(4) Front-end Fee</td>
<td>795,000</td>
<td>Amount payable pursuant to Section 2.03 of this Agreement in accordance with Section 2.07 (b) of the General Conditions</td>
</tr>
<tr>
<td>(5) Interest Rate Cap or Interest Rate Collar premium</td>
<td>0</td>
<td>Amount due pursuant to Section 4.05(c) of the General Conditions</td>
</tr>
<tr>
<td>TOTAL AMOUNT</td>
<td>318,000,000</td>
<td></td>
</tr>
</tbody>
</table>

2. Notwithstanding the provisions of paragraph 1 above, no withdrawal shall be made:

(a) for payments made prior to the Signature Date, except that withdrawals up to an aggregate amount not to exceed US$ 63,500,000 may be made for payments made prior to this date but not before December 15, 2016, for Eligible Expenditures under Category (1);

(b) under Category (2) unless the Project Implementing Entity has submitted evidence acceptable to the Bank confirming that it has adopted the FPO Manual in a manner and substance satisfactory to the Bank; and

(c) under Category (3), unless and until the Bank is satisfied, and has notified the Borrower and the Project Implementing Entity of its satisfaction, that all of the following conditions have been met:

(i) (A) the Borrower and the Project Implementing Entity have both determined that an Eligible Crisis or Emergency has occurred; (B) the Project Implementing Entity has furnished to the Bank a request through the Borrower to include certain activities in the
CER Component in order to respond to said Eligible Crisis or Emergency; and (C) the Bank has agreed with such determination, accepted said request, and notified the Borrower and the Project Implementing Entity thereof;

(ii) the Project Implementing Entity has prepared and disclosed all safeguard instruments, acceptable to the Bank, required for said activities, and have implemented any actions which are required to be taken under said instruments all in accordance with the provisions of Section I.E.1(a)(vii) of the Schedule to the Project Agreement;

(iii) the Project Implementing Entity has provided sufficient evidence satisfactory to the Bank, that the Coordinating Authority has adequate staff and resources in accordance with the provisions of Section I.E.2 of the Schedule to the Project Agreement, for purposes of said activities.

(iv) the Project Implementing Entity has adopted the CERC Annex, as part of the PIP in form, substance and manner acceptable to the Bank; and the provisions of said annex remain, or have been updated in accordance with Section I. E. 1 (a) of the Schedule to the Project Agreement so as to be, appropriate for the inclusion and implementation of said activities under the respective CER Component.

(v) the Project Implementing Entity has prepared and submitted to the Bank a CERIP, in form, substance and manner acceptable to the Bank, and the Bank has reviewed and approved the CERIP.

2. The Closing Date is June 2, 2025.
SCHEDULE 3
Disbursement-Linked Amortization Repayment Schedule – Annuity Repayment

1. Subject to the provisions of Section 3.03 of the General Conditions, the Borrower shall repay each Disbursed Amount in semiannual installments payable on each June 15 and December 15, the first installment to be payable on the fifteenth (15th) Payment Date following the Maturity Fixing Date for the Disbursed Amount and the last installment to be payable on the forty-fourth (44th) Payment Date following the Maturity Fixing Date for the Disbursed Amount. The following table sets forth the percentage of the Disbursed Amount payable on each Principal Payment Date:

<table>
<thead>
<tr>
<th>Principal Payment Date</th>
<th>Installment Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>2.33000</td>
</tr>
<tr>
<td>002</td>
<td>2.54000</td>
</tr>
<tr>
<td>003</td>
<td>2.42000</td>
</tr>
<tr>
<td>004</td>
<td>2.46000</td>
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<tr>
<td>005</td>
<td>2.52000</td>
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<td>006</td>
<td>2.58000</td>
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<td>008</td>
<td>2.71000</td>
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<td>012</td>
<td>2.99000</td>
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<td>014</td>
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<td>018</td>
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<td>019</td>
<td>3.56000</td>
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<td>020</td>
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<td>022</td>
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<td>024</td>
<td>4.03000</td>
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<td>025</td>
<td>4.13000</td>
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<td>026</td>
<td>4.23000</td>
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<td>4.33000</td>
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<td>028</td>
<td>4.43000</td>
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<tr>
<td>029</td>
<td>4.53000</td>
</tr>
<tr>
<td>030</td>
<td>4.64000</td>
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2. If any one or more installments of principal of the Disbursed Amount would, pursuant to the provisions of paragraph 1 of this Schedule, be payable after June 15, 2047, the Borrower shall also pay on such date the aggregate amount of all such installments.
3. The Bank shall notify the Loan Parties of the amortization schedule for each Disbursed Amount promptly after the Maturity Fixing Date for the Disbursed Amount.
APPENDIX

Definitions

1. "Affected Person" means a person who, on account of the execution of the Project, experienced or would experience direct economic and social impacts caused by: (a) the involuntary taking of land, resulting in: (i) relocation or loss of shelter; (ii) loss of assets or access to assets; or (iii) loss of income sources or means of livelihood, whether or not such person must move to another location; or (b) the involuntary restriction to access to legally designated parks and protected areas, resulting in adverse impacts on the livelihood of such person; and "Affected Persons" means, collectively, all such Affected Persons.

2. "Anti-Corruption Guidelines" means, for purposes of paragraph 5 of the Appendix to the General Conditions, the "Guidelines on Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants", dated October 15, 2006 and revised in January 2011 and as of July 1, 2016.

3. "Beneficiary FPO" means an FPO which has entered into an agreement to receive Grants under the Project in accordance with Section I.C of the Schedule to the Project Agreement.

4. "Category" means a category set forth in the table in Section III.1 of Schedule 2 to this Agreement.

5. "CCWM" or "Community Collaborative Water Management" means the system of water management to be established at the village level under Part A of the Project in accordance with the procedures set forth in the PIP.

6. "CER Component" means Part D of the Project, as described in Schedule 1 to this Agreement.

7. "CERC Annex" means an Annex to the PIP referred to in Section I.E of the Schedule to the Project Agreement, acceptable to the Bank to be adopted by the Borrower and/or the Project Implementing Entity for the implementation of the CER Component, in accordance with the provision of said Section.

8. "Contingent Emergency Response Implementation Plan" or the acronym "CERIP" means the action plan referred to in Section I.E.2 of the Schedule to the Project Agreement, acceptable to the Bank to be prepared by the Borrower and/or the Project Implementing Entity for the implementation of the CER Component, in accordance with the provision of said Section.

9. "Coordinating Authority" means the entity or entities designated by the Project Implementing Entity in the CERC Annex, and approved by the Bank, pursuant to
Section I.E.1(a) of the Schedule to the Project Agreement, to be responsible for coordinating their respective CER Component.

10. “Department of Animal Husbandry” means the State of Tamil Nadu’s Department of Animal Husbandry or any successor thereto.

11. “Eligible Crisis or Emergency” means an event that has caused, or is likely to imminently cause, a major adverse economic and/or social impact to the Borrower and/or the Project Implementing Entity, associated with a natural or man-made crisis or disaster.

12. “Emergency Expenditures” means any of the eligible expenditures set forth in the CERC Annex, in accordance with the provision of Section I.E of the Schedule to the Project Agreement, and required for the activities described in such Annex to be financed under the said CER Component.

13. “EMP” or “Environmental Management Plan” means each environmental management plan to be prepared under the Project in accordance with the ESMF, each such plan in form and substance satisfactory to the Bank, and defining details of measures to manage potential environmental risks and mitigate, reduce and/or offset adverse environmental impacts associated with the implementation of Project activities, together with adequate budget, institutional, monitoring and reporting arrangements capable of ensuring proper implementation of, and regular feedback on compliance with, its terms; as each EMP may be amended from time to time with the prior concurrence of the Bank.

14. “Enterprise Information Management System” means the system for managing irrigation water resources of Tamil Nadu in a holistic manner by setting irrigation targets, monitoring their progress, storing historical data and deriving irrigation trend and agriculture patterns, designed, developed and tested for WRD with the technical assistance of an information technology consulting firm under the Tamil Nadu Irrigated Agriculture Modernization and Water-Bodies Restoration and Management Project (Credit No. 4255-IN and Loan No. 4846-IN).

15. “ESMF” means the Project Implementing Entity’s environmental and social management framework dated January 1, 2017 and disclosed on March 21, 2017, setting forth the: (1) policy framework, principles, standards, processes and institutional arrangements to be applied to assess potential adverse environmental impacts associated with Project activities and the ways to avoid, minimize, mitigate or offset them, including public consultation, disclosure and reporting; as such framework may be amended from time to time with the prior concurrence of the Bank; and (2) social impact assessments and mitigation procedures and arrangements and grievance redress procedures for assessing and addressing any Project social impacts; as such framework may be amended from time to time with the prior concurrence of the Bank.
16. "FPO" or "Farmer Producer Organization" means a producer group organized in a cluster in accordance with the criteria and procedures set forth in the PIP, and registered as a cooperative or company under the applicable laws of the Borrower and/or the State of Tamil Nadu.

17. "FPO Manual" means the manual to be prepared by the Project Implementing Entity in a manner and substance satisfactory to the Bank for purposes of carrying out the Grants, which manual shall comprise, inter alia, the criteria and process for selection of Beneficiary FPOs; implementation and monitoring arrangements; eligible expenditures; and other rules and procedures for carrying out the Grants; as may be amended from time to time with prior concurrence of the Bank.


20. "Grant" means grant financing awarded, or caused to be awarded, by the Project Implementing Entity to a Beneficiary FPO, out of the proceeds of the Loan, pursuant to Section I.B of the Schedule to the Project Agreement and the selection criteria and procedures set forth in the PIP.


22. "FWS" means the State of Tamil Nadu's Institute for Water Studies or any successor thereto.

23. "MDPU" or "Multi-Disciplinary Project Unit" means the coordination unit established and referred to in Section I.A.2 of the Schedule to the Project Agreement.

24. "Operating Costs" means the reasonable costs of incremental expenditures incurred by the Project Implementing Entity on account of Project implementation, including, inter alia, costs of operation, rent and maintenance of offices, vehicles, communication costs, incremental staff salaries (including regular staff on deputation to the MDPU and PCUs), training, and travel allowances of Project staff related to Project implementation, coordination, and monitoring.

25. "Participating Implementing Agencies" means the following agencies of the State of Tamil Nadu responsible for implementation and execution of selected activities under the Project: WRD; Department of Agriculture; Department of Agriculture Engineering; Department of Horticulture; Department of Animal Husbandry; Department of Fisheries; Department of Agriculture Marketing and Agribusiness; Tamil Nadu Agricultural University; Tamil Nadu Veterinary and Animal Sciences.
University; and Tamil Nadu Fisheries University; or their respective successors thereto.

26. “PCUs” or “Project Coordination Units” means the implementing units, established one per each of the ten Participating Implementing Agencies.

27. PEC or “Project Empowered Committee” means the coordination unit established and referred to in Section I.A.1 of the Schedule to the Project Agreement.

28. “PIP” means the Project Implementation Plan, dated October 24, 2017, satisfactory to the Bank, setting forth, inter alia, the operating procedures for the carrying out of the Project and the FPO Manual; as such plan, may be amended from time to time with the prior concurrence of the Bank.

29. “PMP” or “Pest Management Plan” means the State of Tamil Nadu’s plan dated March 21, 2017 and disclosed on even date, prepared under the Project in form and substance satisfactory to the Bank, and containing the processes and actions to improve the procurement, handling, storage, use and disposal of pesticides and to promote integrated pest and nutrient management with the objective of reducing the use of pesticides and other agro-chemicals in agriculture, as amended from time to time with the prior concurrence of the Bank.

30. “Procurement Plan” means the State of Tamil Nadu’s procurement plan for the Project, dated October 24, 2017, and provided for under Section IV of the Procurement Regulations, as the same may be updated from time to time in agreement with the Bank.

31. “Procurement Regulations” means, for purposes of paragraph 85 of the Appendix to the General Conditions, the “World Bank Procurement Regulations for Borrowers under Investment Project Financing”, dated July 1, 2016.

32. “Project Implementing Entity” means the Borrower’s State of Tamil Nadu.

33. “RAP” or “Resettlement Action Plan” mean each resettlement action plan to be prepared under the Project in accordance with the RPF, each such plan in form and substance satisfactory to the Bank, and containing, a program of actions, measures and policies for compensation and resettlement of Affected Persons, including the magnitude of displacement, compensation and resettlement arrangements, budget and cost estimates, and sources of funding, together with adequate institutional, monitoring and reporting arrangements capable of ensuring proper implementation of, and regular feedback on compliance with its terms; as each RAP may be amended from time to time with the prior concurrence of the Bank.

34. “RPF” or “Resettlement Policy Framework” means the framework included in the ESMF, setting forth the guiding principles, acceptable standards and procedures
for: (a) the identification of any Affected Persons on account of Project implementation; and (b) the preparation of their prescribed RAPs.

35. “Safeguard Documents” means, collectively, the ESMF (which includes the RPF); the PMP; the EMP(s); and the RAPs, as well as any other plans and documents prepared or to be prepared, pursuant to Section 1.D of the Schedule to the Project Agreement.

36. “SG&SWDC” means Tamil Nadu's State Ground & Surface Water Resources Data Center or any successor thereto.

37. “Signature Date” means the latest of the two dates on which the Borrower and the Bank signed this Agreement and such definition applies to all references to “the date of the Loan Agreement” in the General Conditions.

38. “SWaRMA” means The State of Tamil Nadu’s State Water Resources Management Agency or any successor thereto.

39. “SWIKC” or “Single Window Information and Knowledge Center” means the center established in selected model villages under the Project with the objective of facilitating convergence among different departments and agencies involved in service delivery in the water sector, established and operated in accordance with the provisions set forth in the PIP.

40. “Tamil Nadu” means the Borrower’s State of Tamil Nadu or any successor thereto.

41. “Training and Workshops” means the reasonable cost of trainings, seminars, workshops, conferences and study tours, conducted in the territory of the Borrower or overseas and subject to the Bank’s prior agreement, organized or attended by the Project Implementing Entity’s staff and/or the staff of any Participating Implementing Entity in direct relation to the Project; which costs may include, inter alia: (a) the fees of training institutions and courses; (b) domestic and international travel costs, lodging costs, and subsistence/per diem allowances both for trainers and trainees; (c) the rental of training facilities; (d) preparation, purchase or reproduction of training materials; and (e) information, education, and communication costs.

42. “WRD” means the Water Resource Department of the State of Tamil Nadu.

43. “WUAs” or “Water User Associations” means local organizations, set up in accordance with the criteria and procedures set forth in the PIP, of water users involved in management and operation of irrigation systems.