

India: AP Integrated Irrigation & Agriculture Transformation Project
Second Implementation Support Mission
February 13-24, 2020
Aide Memoire

I. INTRODUCTION

1. A World Bank Team¹ conducted an implementation support mission to the AP Integrated Irrigation & Agriculture Transformation Project (APIIATP) from February 13-24, 2020, with the objective to review project implementation and agree on the steps to accelerate progress. The mission visited project sites in Guntur, Chittoor and Nellore districts, interacted with project beneficiaries, and had discussions with the project staff under the leadership of the Project Director Mr. P S Raghavaiah. The consolidated findings and recommendations of the mission, including follow up actions, were discussed and agreed upon at wrap-up meetings with the Special Chief Secretary, Department of Irrigation Mr. Adityanath Das; Special Chief Secretary, Department of Agriculture and Cooperation Dr. Poonam Malakondaiah; and Principal Secretary, Finance Mr. Shamsher Singh Rawat. The Aide Memoire is endorsed by the Bank Management.

II. PROJECT DATA AND RATINGS

Project Data	US\$ (million)
Original Project Amount	172.20
Total Disbursement	28.4
Disbursement in FY 18-19	28.4
Closing Date	Oct 31, 2025

Project Ratings	Previous	Current
Project Development Objective	S	S
Implementation Progress	S	S
Component A: Improving Irrigated Agriculture Efficiency	S	S
Component B: Promoting Climate Smart Agriculture Practices	MS	MS
Component C: Post-harvest Management, Market and Agribusiness Promotion	MS	MS
Component D: Project Management and Capacity Building	S	S
Financial Management	S	MS
Procurement	S	S
Safeguards	MS	MS

IV. IMPLEMENTATION PROGRESS AND KEY FINDINGS

Key Findings

2. **Project Overview:** The project is currently operating at 75 percent staff strength, with a Project Management Unit (PMU) in Vijayawada and one District PMU (DPMU) each in 12 project districts in the state. Despite initial delay in release of funds and few pending recruitments, the project has shown a good pace of progress on all fronts. The project has disbursed 16.5 percent of funds and is projected to spend INR 3370 million (US\$48.14 million) in 2020-21.

3. **Cascade Planning:** Cascade planning has emerged as an indicator of sound inter-departmental cooperation in rolling out management plans in 148 identified cascades. To this effect, the mission has stressed the need for an inter-departmental meeting of secretaries to oversee design and execution of cascade development plans engaging institutions at the local level (SO, WUA, Line Departments) with technical back-up by a dedicated team of experts placed with the external monitoring agency through a variation order, to be completed before end May 2020.

¹Mission Members: Messrs. /Mme. Ranjan Samantaray (Task Team Leader), Venkat Rao Bayana (Sr. Social Development Specialist), Balagopal Senapati (Sr. Procurement Specialist), Tanuj Mathur (Sr. Financial Management Specialist), Charu Jain (Environment), Martin Kumar (Consultant-Fisheries), Sudhirendar Sharma (Consultant-Agriculture/ZBNF), Saumya Srivastava (Consultant-Agribusiness), and Kumudni Choudhary (Program Assistant).

4. **Organic Approach**²: Given concerns regarding lower productivity and lowest farmer incomes in the three north coastal districts - Srikakulam, Vizianagaram and Vishakhapatnam – the mission, in persuasion of GoAP order dated April 4, 2019, has agreed to promote organic farming with support from *Rythu Sadhikara Sanstha*, in one land parcel in each of the three low productivity districts in the State. This would need re-appropriation of already allocated funds to bring more focused approach in consolidating the efforts made under the project, and would support the regional improvement agenda of the State.

III. ASSESSMENT OF IMPLEMENTATION PROGRESS³

Component A: Improving Irrigated Agriculture Efficiency

5. Under this component, the project is supporting rehabilitation and modernization of small-scale community-based irrigation (SSCBI) systems including 1000 tanks and associated distribution structures. With an aim to improve irrigation water delivery and enhance the efficiency of irrigation water use, tank rehabilitation and modernization seeks to improve productivity in 90,000 ha of farmland.

Subcomponent A1: Institutional Strengthening & Capacity Building of WUAs

6. PMU has continued to build WUA capacity through trainings and exposures, backed up by a performance assessment protocol to monitor progress. 198 para workers are extending support to WUAs for developing tank and cascade-level development plans but the mission observed in need for external assistance for piloting a couple of CDPs from among 148 cascades. The project is advised to expedite placement of a SO in Kadapa, and engage a Training Facilitation Agency to build institutional capacities.

7. Progress on this sub-component is rated 'Satisfactory'.

Subcomponent A2: Rehabilitation and Modernization of SSCBI systems

8. The mission made field visits to the Kambakam Big Tank in Chittoor District, and Musunuru Big Tank in Nellore District. Technical recommendations for compacting the raised bund; extending the cut-off trench; and plugging the leakages in one surplus weir were shared with the project engineers. The mission was appraised about the need to increase the live storage in Musunuru tank by selective de-silting, to which it was suggested that a detailed note, based on the topographic survey, justifying de-silting and silt-disposal should be furnished by the project to the Bank for consideration.

9. The mission stressed the need to put in place by June 30, 2020 the Third-Party Quality Control & Assurance Agencies, one each for four districts, to ensure that the works conform to the specifications, sound construction procedures and quality control requirements. These Agencies should be equipped with proper "Mobile Quality Control Laboratories (MQCL)" for efficient and expeditious working.

10. With 219 DPR Packages (containing 288 tank systems) already been approved; requisite Bid Documents prepared; and packages ready to be awarded by June 15, 2020, the mission held discussions with DPDs of East Godavari, Kadapa, Vishakhapatnam, West Godavari and Vizianagaram Districts to highlight and explain correct/sound construction procedures for effective execution of rehabilitation works. In this context, besides explaining these procedures, colored photocopies of the equipment/devices to be used were also furnished to them. This sub-component is rated 'Satisfactory'.

Subcomponent A3: Improving Water Productivity and Efficiency

11. Ground water department has proposed six pilot projects to promote conjunctive water use in 6 ayacut areas to minimize the gap ayacut. In some of the ayacut areas, stage of groundwater development is around 20-25 percent, and groundwater table is relatively shallow, sometimes reaching less than 2 meters. In such areas, the department has suggested to utilize groundwater to minimize the gap ayacut area and avoid potential waterlogging. The mission has suggested that the department: (i) ensure the stage of groundwater development does not cross 50 percent, (ii) ensure that additional irrigation water is not used to grow water intensive crops like paddy, cotton, banana and sugarcane, and (iii) promote micro-

² The mission visited farmers' fields in Guntur and had detailed discussions with officials of the *Rythu Sadhikara Samstha* (RySS) on various aspects of Zero Budget Natural Farming and its progress across the state.

³ Additional updates on component and sub-component progress is annexed (Annex 2).

irrigation schemes by working with horticulture department. Two pilot proposals have been presented, to which the mission has advised an updation based on the above-mentioned criteria. Additional four proposals on similar lines will be submitted before end March 2020.

12. The progress on this sub-component is rated 'Satisfactory'.

Component B: Climate Smart Agricultural Practices

13. This component intends to increase on-farm productivity and strengthen farmers' resilience to climate change through adoption of a diversified agriculture production system, leading to increased income for farmers as a net outcome of improved irrigation infrastructure created under Component A.

Subcomponent B1: Climate Smart Crop Production and Diversification

14. In preparation for achieving the stated goal of this subcomponent on increasing farm productivity by reducing 'input' costs and enhancing 'output' from farming systems on a sustainable basis in irrigated command areas, the project has started off well on bringing various stakeholders together through training, convergence of line departments in delivering implementation progress.

15. The project has made significant progress under the demonstration activities (see Annex 2). However, the mission noted that the planning approach has yet to emphasize upon the 'tank typology' approach which is based on not only hydrology, physiographic, and agronomic parameters for developing tank-specific intervention plans, but also aligning to the larger market demands; resulting in adaption system built upon market-driven diversification and better linkages with the post-harvest interventions planned in Component C. The progress on this sub-component is rated 'Moderately Satisfactory'.

Subcomponent B2: Climate Smart Aquaculture Production

16. Under the fisheries subcomponent several measures were initiated by the Department of Fisheries and PMU towards implementing planned project activities including establishing the brood bank, captive nursery, an Aqualab, fish landing centre, and organising both domestic and overseas training programs as part of capacity building. Although a number of activities received both administrative and technical approvals, funds are yet to be disbursed due to delay in its release from the government along with other administrative issues. However, mission observed that a revised action plan for 2020-21 inclusive of all activities that was to be completed in the previous year with a budget of INR25.13 Cr has been prepared and decisive steps have been taken to implement the activities.

17. On account of significant next steps, this subcomponent is rated 'Satisfactory'.

Component C: Post-harvest Management, Market and Agribusiness Promotion

18. With an aim to ease market infrastructure constraints on the post-harvest side; and to improve farmers' access to markets through FPOs by enhancing their capacity to add value to their produce, various measures have been planned under the project. While the guiding principles, selection criteria and overall planning for creation of post-harvest infrastructure is clear, lack of planning is evident in terms of scale of operations planned and identification of already operating larger markets.

19. The mission insisted that the agribusiness and post-harvest infrastructure planning to have specific objectives and held at regional or cluster levels, rather than at the district levels. Moreover, the potential plan for creating new infrastructural facilities should complement the overall project objectives, with larger consultation/agreement with the line departments and the Agribusiness Support Organization.

20. In order to facilitate linkages of FPOs and value-chain operators to various markets, the project has completed assessment of status and functioning of existing 177 FPOs in tank command areas through a Training Needs Assessment exercise. The mission appreciated the innovative approaches and use of technologies adopted by two FPOs during the field visits, and suggested that viable FPOs be supported where the individual/collective input, production and revenue model shows that FPOs can provide economies of scale, meet basic operating costs, and be financially sustainable. Given all these factors, the mission strongly suggested that the project opt for a focused strategy in mobilizing and strengthening these FPOs, and move forward in finalizing and implementing its FPO strategy.

21. This component has been rated 'Moderately Satisfactory'.

Component D: Project Management and Capacity Building

22. The mission is pleased to note progress on the project's GIS portal for real time tracking of progress, and has advised the need for developing coordinates to gauge impact of investments overtime. On the ground, verification for various parameters is complete for 652 tanks with 498 tanks identified with above 40 hectares command area. However, 48 tanks have no WUAs, 23 tanks are without para workers, and Kadapa district with 15 tanks tendered for civil works is without a SO. The mission has advised the project to complete the process of placing requisite support structure before March 31, 2020. The PMU is in the process of making arrangements for hiring a training agency, alongside conducting a two-day workshop for SOs, ADPs and other stakeholders before April 2020 to draw Work Plans for each project tank, and identify WUAs strengths and weaknesses.

23. The mission has re-emphasized urgency of hiring additional staff to oversee and implement 'institutional component' before March 31, 2020. This component earned 'Satisfactory' rating.

Fiduciary

Financial Management (FM)

24. **Disbursements:** As on Feb 19, 2020, US\$28.43 million has been disbursed. The State Government had negotiated in March 2019 for an advance of US\$28.43 million out of the loan amount of US\$172.20 million, and the same continues to reflect in our system as disbursed. However, our recent meeting with the CAAA confirmed that future disbursements will be made only after a significant part of the advances (80%) have been liquidated. Given this condition, the current spending of US\$6.7 million (till mid-Feb 2020) by the project will not get reflected as 'disbursed' in the World Bank system till a significant portion of the initial advance of US\$28.43 is liquidated. However, the project will continue to incur its planned expenditure without the same being reflected in the disbursed table over the next three quarters (till December 31, 2020).

25. The Project has been provided with a budget of INR2146.9 million (US\$30.67 million) for FY19-20 in two tranches, out of which the project has spent INR668.17 million (US\$9.55 million) till mid-Feb 2020. It is expected that INR600 million (US\$8.57 million) will be spent till March 31, 2020. The Project forecast that INR3370 million (US\$48.14 million) shall be spent in FY20-21.

26. **Audit (CAG Audit/ Internal Audit):** The FY18–19 audit is overdue; the project financial statements, duly audited by the C&AG were required to be submitted to the Bank by September 2019. This will be the first audit of the project since inception and the C&AG has already been invited for the audit.

27. The project arrangements require that a regular internal audit be carried out to conform the stability and efficacy of internal controls. As agreed during project inception, the State Audit Department will be requested to undertake the audit. This needs to be expedited, and process started by April 1, 2020.

28. FM performance is rated 'Moderately Satisfactory'.

Procurement

29. The procurement review revealed that for the rehabilitation of SSCBI systems, bids valuing INR 3216.1 million are called for 221 works packages across all 12 districts of the project, and agreements for 210 civil works contracts worth INR3261.9 million have been concluded, and works are under progress. Bids for 10 works packages were non-responsive, and 1 works package in Srikakulam is reported cancelled. For the second round, administrative approvals are issued to 219 DPRs, valuing INR2183.0 million which will result in the total tenders being invited for 230 civil works, valuing INR2341.9 million.

30. The project is proposing to use e-Tendering system for all future works. The IT&EC Department was requested to make apeprocurement.gov.in website compatible to World Bank National Competitive Bidding Document (One Envelop Bidding Process) for civil works. Now, the website is referred to Standardization Testing and Quality Certification (STQC) for purpose of functional audit, by APTS, after which the website will be ready to float World Bank Tenders. The Banks conditions for allowing the use the Andhra Pradesh e-procurement systems were communicated to the Project Director.

31. The list of post-review contracts required for the Procurement Post Review (PPR-2020) was provided to the Bank, which will be carried out at Vijayawada from Feb. 24-28, 2020.

32. The procurement progress is being rated as 'Satisfactory', and the same will be updated in PRAMs.

33. The consolidated status of procurements is given below:

No.	Brief Description of Procurement	Unit	Category Goods/Works/ Services/ Consultants/ Other	Method of Procurement	Contract Value		Payment made till date (INR, Million)
					US\$ (Million)	INR (Million)	
1	Tank Infra. Development	210	Works	NCB	50.031	3261.99	468.49
2	Consultancy Services	19	Services	QCBS/DS/FBS	1.50	97.66	25.70
3	Procurement of Goods in SPMU	7	Goods	RFQ	0.02	1.33	1.23
4	Procurement of Goods in DPMU	20	Goods	RFQ	0.035	2.27	2.27

Environmental and Social Safeguards Management

34. Issued in Dec 2019, the State Sand Mining Policy has helped the project in ensuring continued supply of sand from authorized sites after a delayed construction period. The mission noted the need to conduct social screening for all construction activities and will combine this with the ongoing TDP preparation for all Phase I tanks, Godowns and WUA buildings.

35. PMU is in process of engaging an Environmental Specialist and identifying officer at district level to strengthen the project's institutional capacity for ESMF compliance. Quality Assurance Wing of the State Irrigation Department has an inbuilt-mechanism for ensuring compliance of environmental management requirements before issuing quality certificate, the details of which has been sought. It is advised that the third-party monitoring includes reporting on environmental management aspects.

36. In addition to safeguards compliance, Integrated Pest and Nutrient Management Plan (IPNP) is directly related to Component B of the project. PMU was advised to prepare a strategy to study the existing nutrient loading in project tank environments. This would include studying the quality parameters of water and soil, as well as pesticides and fertilizer use in tank ayacut and influence areas. Such study will help in developing IPNP to be adopted for individual tanks by analyzing the gap between the applied nutrient loading and its uptake by crops. In light of the need for crop nutrient management in tank commands, the mission observed the significance of integrating natural organic farming being promoted by the *Rythu Sadhikara Samstha* (RySS) and recommends its implementation in selected districts.

37. The social safeguards for this project is largely related to possible encroachments in tank bed area for cultivation and requirement of any additional widths of land for improvement of tank bunds. The preparation of TDP/CDP will identify such issues and facilitate developing action plan for dealing with social issues as per project ESMF. The progress on social safeguards is rated 'Moderately Satisfactory'.

V. NEXT STEPS AND AGREED ACTIONS

38. Annex 2 summarizes the mission's agreed actions. The next mission is planned for September 2020.

Annexures

Annex 1: Project Components

Annex 2: Summary of Agreed Actions

Annex 3: Status of Agreed Actions from the last Mission

Annex 4: List of officials met

Annex 5: Status of 5 largest procurement packages

Annex 6: World Bank Response to the queries raised by PMU

Annex 7: Audit at the WUA Level and Other Capacity Building Measures

Annex 8: Results Framework

Annex 1

Project Components (additional updates)

Subcomponent A2: Rehabilitation and Modernization of SSCBI systems

Field Visits to Selected Phase-I Tank Systems. The mission made field visits to the following two Tank Systems and the mission observations and suggestions are outlined in the following paragraphs:

Rehabilitation of Kambakam Big Tank (Independent) of Kambakam Village in Varadaiahpalem Mandal, Chittoor District: Whereas, the earth fill layers placed on the existing tank bund were compacted to specified density with power roller for raising and strengthening the bund, the earth fill on the side slopes had been left loose without any consolidation. The earth fill on the sides should be adequately compacted through deployment of 'rig-mounted plate fixture'.

Presently, a cut-off trench had been provided in part length on the upstream toe of the bund which helped in checking the seepages occurring on the downstream of the bund. The cut-off trench should be extended further in order to check the seepages occurring in the other reach / reaches.

Modernization of Musunuru Big Tank in Musunuru & Chenchuganipalem Village in Kavali Mandal in SPSR Nellore District: The earth fill placed on the raising & strengthening of Tank Bund was observed to be well compacted and no cracks were observed on the tank bund top.

Of the three surplus weirs, the mission visited one surplus weir of the total length of 185 m, which had been modified from the existing B.C. Weir of 163 m length into High Coefficient Weir constructed in concrete with extension of 22 m constructed as High Coefficient Weir. The weir was observed to be associated with leakages from the foundation at several locations. This was indicative of the foundation having not been properly prepared prior to placement of concrete. *Prompt action needs to be taken to stop the leakages, as else the stability of the newly constructed weir could be affected. Possible remedial measures were explained at site.*

Selective De-silting of Musunuru Tank: The mission was apprised that the present Ayacut was 502 acres against the total ayacut of 8881 acres, thereby, resulting into a Gap Ayacut of as much as 379 acres. Selective de-silting of the tank bed might be needed to restore the original live storage of the tank. In this context, topographic survey should be carried out to establish the quantum of the loss of live storage capacity of the tank. There are 8 sluices in this tank. It should be determined as to where the silt level has come above the sill level of the respective sluices. The quantity of de-silting and disposal of dredged silt should be assessed, alongside the possibility of utilization of silt by the farmers should be explored. It should also be seen whether some quantity could be placed on the rear side of the 5.64 km of earthen bund, thereby, utilizing considerable quantity of dredged silt for substantial widening of the bund.

Subcomponent B1: Climate Smart Crop Production and Diversification

In preparation for achieving the stated goal of this subcomponent on increasing farm productivity by reducing 'input' costs and enhancing 'output' from farming systems on a sustainable basis in irrigated command areas, the project has started off well on bringing various stakeholders together through training, convergence of line departments in delivering implementation progress.

Demonstration of High-value crops as pilots for commercialisation and adoption. Under the demonstration activities, the project is piloting new technologies⁴. The mission visited Prakasam district where an area expansion under high value crops and technologies is under demonstration. Thus far, the project has expedited demonstration activities in 11 tanks, covering a total of 290 farmers, coupled with demonstration of technologies such as fertigation, protected cultivation for capsicum (15,400 sqm area in 2 tanks), and permanent pandals covering a total of 75 farmers in 5 districts - detailed below:

⁴ Various technologies and practices such as cultivation of Pomegranate and muskmelon in a cropping system, use of drip and plastic mulching techniques, use of water-soluble fertilizers through fertigation, shadenet, permanent pandals, etc. and engage with various line departments to understand the potential investment for high-value commodities was suggested to be taken up on pilots., and plan the storage/ processing facilities accordingly

Area Expansion Program	Tanks	Area (ha)	Farmers (no.)
Papaya	3	24	33
Sweet orange	1	3	2
Tomato	3	18	33
Vegetables	2	23	41
Chili	2	61	181
Total	11	128	290
Demonstration- improved technologies	Tanks	Area (ha / sqm)	Farmers (no.)
Protected cultivation	2	15400 sqm	4
Fertigation through drip pipes	1	52.8 ha	71
Permanent Pandals	4	2.4 ha	4

The mission highlighted the lack of a structured process to link up the new technologies and their commercialization; and suggested to take advisory support from the ABSO and line departments, thus ensuring relevant and value-add demonstrations within the project interventions, more suited to the market needs.

Subcomponent B2: Climate Smart Aquaculture Production

This sub-component is intended to transform the inland fisheries by implementing programs including transfer of innovative and climate resilient production technologies; improved post-harvest technology and enhanced value chain participation; and policy reforms to ensure quality in fish production and marketing. The AP Government is introducing a major policy reform by implementing fish feed act for quality control which is for the first time in India. The bill related to this reform is under parliament consideration. A detailed action plan with a budget of INR 25.13 Cr was prepared for the year 2020-21.

The mission noted the highly successful operation of captive nursery at Neela kota ava, East Godavary District. Captive nursery is intended to ensure fish seed quality, size and composition of species and prevent mortality due to stress caused during transport. These factors will increase productivity, reduce operational costs and enhance profitability. AP DoF is to submit detailed economics of this captive nursery operation before Mar 10, 2020.

Fish market survey undertaken by Fisheries Federation and the latest information from the District level officers have to be considered for the implementation of activities related to improving value chain participation such as establishing fish kiosk and mini processing plants.

The new State Government initiative, the “Village secretariats” has recruited significant numbers of well qualified technical staff in all Agricultural specialisations including Fisheries. Project implementation team should be able to utilise the services of these technical staff for implementation of activities. The mission recommended the following measures as matter of priority and prepared a detailed agreed action plan.

- There is a dire need to fill the Fisheries Coordinator (PMU) and designated Fisheries Officer (APDoF) sanctioned positions under APIIATP for the effective implementation of the project.
- The Technical Advisory Committee shall be constituted before Mar 2020 with CIFA, CIFRI, CIFT, SIFT, SVVU and Department of Fisheries for providing advice, guidance, inspection, evaluation and review of implementation progress including the establishment of Brood banks and pure-line breeding program.
- One proposal has been submitted from Anantapuram District, out of 8 fish landing centres budgeted for this financial year. The pending 7 proposals with estimates must be submitted as a priority.
- The Department of Fisheries should send the Technical Officers for the Training of Trainees (ToT) to CIFRI for studying the methods on inland water body-based production models for optimal enhancement in fish productivity. This will enable proper preparation of the tank level action plan for the implementation of the project effectively.
- Overseas exposure visit/training is vital to introduce the latest innovative production and post-harvest technologies as per PIP. Due to the less allocation of budget for overseas training and exposure visit to technical staff, it is not possible to take it up in this financial year, 2019-20. Hence, the budget shall be provided for the next financial year i.e., 2020-21

Component C: Post-harvest Management, Market and Agribusiness Promotion

The goal of Component C is to enhance the profitability of farmers, by improving access to markets and capacity to add value to what is produced. This will be achieved by (a) easing market infrastructure constraints on the processing, storage, handling, and marketing of farm produce, especially for high-value horticultural crops; and (b) facilitating linkage of FPOs and value-chain operators to local, national, and where appropriate international markets.

The mission insisted that the agribusiness and post-harvest infrastructure planning to have specific objectives, and plan for creating new infrastructural facilities to have larger consultation and agreement with the line departments and the ABSO. The key activities as proposed under the post-harvest infrastructural support is listed here under:

Activities planned under component C	Units planned for 2019-20
<i>Post-harvest infrastructure creation</i>	
Construction of rural godowns	21
Secondary processing units to CIG farmers	32
<i>Post-harvest infrastructural support for FPOs</i>	
Construction of Rythu Bazaars/Rural Markets	7
Construction of low-cost onion storage structure (25 MT capacity)	30
Refrigerated transport vehicles (6 MT capacity)	5
Mobile pre-cooling units	4
Construction of evaporative low energy cool chamber (8 MT capacity)	15

In order to facilitate linkages of FPOs and value-chain operators to various markets, the project has completed assessment of status and functioning of existing 177 FPOs in tank command areas through a Training Needs Assessment exercise; based on which trainings and exposure visits have been organised and better convergence of FPO with Agriculture and allied departments have been planned.

Component D: Project Management and Capacity Building

A critical component to sustain the longevity of the 'tank institution', the project has made progress since last mission - collected details of ayacutdars, prepared draft TDPs, mobilized SOs, prepared manuals for WUA and SO. However, several other activities need to be completed to achieve satisfactory results:

It is assessed that about 300 tanks, out of 1000, have command area of less than 40 hectares. Towards making permanent arrangements for managing these tanks, the CADA has issued orders to re-delineate the arrangements based on hydrology assessments. As this exercise will take substantial time, the PMU has proposed to make temporary arrangements by forming the Committees through SOs. The PMU will finalise and place necessary arrangements before end July 2020.

Annex 2: Summary of Agreed Actions

Actions	Responsible	Due Date
Component A: Improving Irrigated Agriculture Efficiency		
Appoint three Third Party Quality Control & Assurance Agencies	PMU	June 30, 2020
Presentation of draft Cascade Development Plans for two cascades	PMU	Mar 31, 2020
Draft ToR for Consultant to support Cascade Development Plans.	PMU	Mar 31, 2020
Component B2: Support to Climate Smart Aquaculture		
Fill the Fisheries Expert and Deputy Director of Fisheries vacant positions sanctioned under APIIATP for effective implementation of the project	PMU, APDoF	April 30, 2020
The pending 7 proposals from Ananthapuram District with estimates to be submitted	APDoF	Mar 31, 2020
Send the Departmental Officers for Training of Trainers (ToT) to CIFRI for studying the methods on inland water body-based production models	APDoF	Mar 31, 2020
Complete tank level implementation plan for selected water bodies for the year 2020-21	APDoF, PMU	Mar 31, 2020
Prepare operational guidelines for fisheries activities for cooperatives	APDoF, PMU	Mar 31, 2020
Organise a meeting involving New Fisheries commissioner (APDoF), Projects Director and key members of respective department to address all pending administrative issues	APDoF, PMU	Mar 11, 2020
Component C: Post-harvest Management, Market and Agribusiness Promotion		
Award of contract for the Agribusiness Support Organization	PMU	Immediate
Develop & share strategy for creating new infrastructure under post-harvest management	PMU	Mar 20, 2020
Organise periodic workshop at district-levels with relevant stakeholders (FPOs, Private players, buyers)	PMU	Mar 15, 2020
Component D: Project Management and Capacity Building		
Appoint SO, identify remaining para workers, and place remaining WUAs	PMU	Mar 31, 2020
Financial Management		
Audit by the CAG	PMU	Immediate
PAO invited for Internal Audit of the Project	PMU	April 1, 2020
WUA/ FPO Audit – send draft ToR for approval to the World Bank	PMU	April 1, 2020
Procurement		
All DPMs will be registered in STEP	IA	Immediate
The data on use of e-procurement for Civil Works for the first 6 months of use will be consolidated and shared with the Bank	IA	Immediate
All future procurements, including civil Works procurements will be entered in STEP	IA	Immediate
Environment and Social Safeguards		
Appoint a full time Environment Safeguards Expert in the PMU	PMU	Mar 31, 2020

Develop strategy to develop baseline for nutrient loading and develop IPNP	PMU	Mar 15, 2020
Develop environmental screening-cum-guidelines for rural gowdowns	PMU	Mar 15, 2020
Share QA document of Irrigation Department with Bank	PMU	Immediate

Annex 3: Status of Agreed Actions from the Last Mission

Actions	Responsible	Due Date	Status
Component A: Improving Irrigated Agriculture Efficiency			
Propose a plan for conjunctive management of surface and groundwater in a selected number of tanks to serve as pilot based on groundwater potential.	MPDU	Dec 31, 2019	Conjunctive use plan of 6 tanks prepared
Submit Cascade development plan in a pilot cascade for review	MPDU	Immediate	Submitted for review
Prepare and Submit an M&E manual describing the methodological approach for measuring, monitoring and evaluating project activities and indicators.	MPDU, Third-Party Monitoring	Dec 31, 2019	M&E Manual ready for review
Component B: Promoting Climate Smart Agriculture Practices			
Organise a joint meeting between line departments (Agriculture, Horticulture, Groundwater, and Agribusiness) for developing an integrated approach for input management in tank commands.	PMU, Agri, Horticulture, GW Deptt.	July 31, 019	Meeting held on 20.08.2019, and guidelines shared
Develop 'tank typology' based on hydrology, physiographic, and agronomic parameters for developing tank-specific intervention plans.	Agri, Horticulture, GW	Dec 31, 2019	Integrated plan for 2 tanks prepared
Modernisation and upgradation of fish seed farms	Deptt of Fishery	Dec 31, 2019	Estimates received, remarks given
Establishment of captive fish seed nurseries	Deptt of Fishery	Sept 30, 2019	Admn. approval for 25 nurseries
Establishment of fish landing centres	Deptt of Fishery	Dec 31, 2019	Proposals not received
Component C: Post-harvest Management, Market and Agribusiness Promotion			
Selection and appointment of an Agri-Business Support Organization (ABSO)	PMU	Dec 31, 2019	Selected MANAGE
Component D: Project Management and Capacity Building			
Organize exposure visits to Saguna Baug (www.sagunabaug.com) in Raigad (Maharashtra), and to Farmers Field School under POCRA	PMU	Dec 31, 2019	Visits planned in Feb/Mar 2020
Financial Management			
Claim for retroactive period, as well as the quarter ending Mar 21, 2019	PMU	Immediate	Claims upto Jan submitted
Procurement			
All DPMs will be registered in STEP	IA	Immediate	
The data on use of e-procurement for Civil Works for the first 6 months of use will be consolidated and shared with the Bank	IA	Immediate	
All future procurements, including civil Works procurements will be entered in STEP	IA	Immediate	

<i>Environment and Social Safeguards</i>			
Appointment of Environment Safeguards Expert in PMU	IA	July 31, 2019	Selection sent for Govt. approval
Dam safety panel to be asked to provide for each of the 5 tanks identified, instrumentation and emergency plans. The plans to be shared with World Bank	IA and CE, WRD	August 15, 2019	Matter being pursued by DPMUs
Third party monitoring agency to report on performance of project with regard to ESMF on a six-monthly basis. Orders, if necessary, to be issued by PMU	IA	Immediate	Pending

Annex 3: List of Officials Met

S.No.	Name of the participant	Designation	Office
	Sri/ Smt.		
1	Adityanath Das	Special Chief Secretary	Department of Irrigation
2	Dr. Poonam Malakondaiah	Special Chief Secretary	Department of Agriculture and Cooperation
3	Shamsher S. Rawat	Principal Secretary	Department of Finance
4	Dr. P.S. Raghavaiah, I.F.S.	State Project Director, APIIATP	APIIATP
5	Ch. Mallikarjuna Reddy	Chief Engineer, Minor Irrigation	Chief Engineer, Minor Irrigation
6	P. Purushothama Reddy	Director, GWD (I/c) & Joint Director (GWD), APIIATP	PMU
7	Y.V. Raja Rajeswari	Superintending Engineer	PMU, APIIATP
8	R. Reddaiah	Superintending Engineer	IC, Ongole
9	Prasada Rao	Superintending Engineer	IC, Nellore
10	M. Surendra Reddy	Superintending Engineer	IC, Chittoor
11	E. Kalavathi	JD(Finance)	PMU, APIIATP
12	Chandra Sekhar Reddy	JD (Fisheries)	Prakasam District
13	M. Nageswara Rao	JD (Fisheries)	Nellore District
14	S. M. S. Rao	EE/Technical	PMU, APIIATP
15	K. Chandra Sekhar	EE (Procurement)	PMU, APIIATP
16	K. Lakshmi Reddy	DPD /EE	EE, Ongole
17	K. Srinivas Rao	DPD /EE	EE, Atmakur Division
18	V. Sateesh Babu	DPD/EE	Chittoor District
19	S. Murali Mohan Raju	Dy. Chief Engineer	CE, MI
20	K. Rama Krishna	Dy SE	IC, Ongole
21	K. Siva Bhaskara Rao	DSE/IC	
22	B. Ravindra Babu	PD-APMIP	Prakasam District
23	S K Subhani	PD- Horticulture	Nellore District
24	R. Padma Prasad	Dy. Director (GWD)	GWD Dept.
25	B. Nagaraju	DD GWD	Prakasam District
26	N. Reddaiah	DD (Fisheries) /IC	PMU, APIIATP
27	S. Srinivasa Rao	DD Agriculture	Prakasam District
28	R. Sobhan Babu	DD (Ground Water)	Nellore District
29	K. Sreenivasulu	Dy. Director	
30	K. Sreenivasa Rao	Dy.EE	PMU, APIIATP
31	B. V. V. Narayana Rao	Dy.EE	PMU, APIIATP
32	R. Sangeetha	Dy.EE	PMU, APIIATP
33	B. Parvathi	Dy.EE	PMU, APIIATP
34	S. Neeraja	Dy.EE/CE MI	CE, MI
35	G. Kajeswaramma	ADA/ PMU/CADA	PMU, APIIATP
36	Ramana	Asst. Director (Agriculture)	Commissioner of Agriculture
37	V. Ranganatha Babu	ADA Fisheries	Prakasam District
38	U. Nagaraju	AD Horticulture	Prakasam District
39	B. Prasad	Additional Director	
40	B. Pavan Kumar	FDO, HO Fisheries	Commissioner of Fisheries

41	S. Srinivasa Rao	Fisheries Development Officer	Kavali, Nellore District
42	Ch. Shashi Kiran	CB & ID Expert	PMU, APIIATP
44	P. Kiran	MIS Expert	PMU, APIIATP
45	Dr. N. Bhaskara Rao	GIS Expert	PMU, APIIATP
46	M. Masthan Rao	Agribusiness Expert	PMU, APIIATP
47	A. Radha Madhavi	Asst.EE	PMU, APIIATP
48	Ch. Tejaswi Saraswathi	Asst.EE	PMU, APIIATP
49	U. Naveen	Asst.EE	PMU, APIIATP
50	V.M. Manasa	Asst.EE	PMU, APIIATP
51	Sk. Azila Tabusam	Asst.EE	PMU, APIIATP
52	Y.K. Kanthi	Asst.EE	PMU, APIIATP
53	J. Niharika	Asst. Hydrologist	PMU, APIIATP
54	A. Srinivasa Reddy	Sr. Asst	PMU, APIIATP
55	V S N Murthy	Team Leader	CTRAN
56	Saroj Naik	VP, Ctran Consultancy	CTRAN
57	Dr. M. Vanaja	Consultant	CTRAN
58	M. Pavan Kumar	Consultant (Social)	CTRAN
59	C. Ratnama Chary	Consultant (Fisheries)	CTRAN
60	P. Mohan Rao	Head	SO- Effort of Prakasam Dt.,
61	R. Suneel Kumar	Head	SO- SARDS of Prakasam Dt.,
62	K. Sudhakar	T.L	SO -Effort of Prakasam Dt.,
63	Sk. CH. Silar	T.L	SO- SARDS of Prakasam Dt.,

Annex 4: Status of 5 Largest Procurement Packages

#	Contract Description and STEP Ref #	Date of signing of contract	Date of expiry of contract	Contract Value (Rs)	Contract Value (\$)	Physical progress	Financial progress	Remarks
1	Modernization/Rehabilitation of Ummadi tank (Cascade No.13) in Vemagiri(V) in S.Rayavaram(M) in Visakhapatnam District	08.01.2019	07.07.2020	74725219	1146092.3	2%	0%	All 221 civil works cleared in initial 18 Months Procurement Plan by the World Bank
2	Rehabilitation of Manchalakatta MI Tank (Independent) in Manchalakatta Village in Gadivemula Mandal in Kurnool District	17.11.2018	16.05.2020	52751544	809072.76	34%	34%	
3	Rehabilitation of Yerra Cheruvu Cascade No.01 in Peddadevalapuram (V) in Bandiatmakur (M) in Kurnool District	15.12.2018	14.06.2020	52712770	808478.07	45%	34%	
4	Rehabilitation of Puttayapalli tank cascade No. 3 in Putayapalli (V) in Badvel (M) of Kadapa District	26.11.2018	25.05.2020	50598500	776050.61	32.69%	32.69%	
5	Rehabilitation of Kaggallu M.I. tank Cascade No.4 in Kaggallu (V) in Hindupur (M) in Ananthapuramu (Dist)	08.03.2019	07.09.2020	50188000	769754.6	6.00%	0	

Annex 6: Audit at the WUA Level and Other Capacity Building Measures

1. Around 449 Water User Associations (WUAs) have been formed and out of the same 275 WUAs have started undertaking activities based on approval of the Technical Advisory Committee (TAC). A total of 16 Support Organizations (SOs) have been given the task in different districts for supervising and guiding the WUAs in terms of mobilization, holding of meetings, undertaking of activities, record keeping.
2. In terms of capacity building, four training modules have been developed for the WUAs: (a) Roles and Responsibilities; (b) WUA self-monitoring; (c) Financial Management and resource mobilization; and (d) Overall Project Objectives. The SOs have prepared a training calendar and training provide to some 9,000 WUA functionaries. Further training events need to cover training of financial management and book keeping aspects as well.
3. In terms of audit, WUAs will handle upto INR0.5 million each, similarly some FPOs have been identified; these may handle funds upto INR3 million each. Thus, there is a need to audit these entities on a regular basis. It was agreed that a ToR for WUA/ FPO Audit will be finalized and a firm of Chartered Accountants hired for the audit.

Others

4. The project has 66 DDOs at this time. 13 each from Water Resources Department, Agriculture, Fisheries, Groundwater and one nodal DDO. Budgets are provided through the nodal DDO. Availability of budget and timeliness of payments at the DDOs/ departments is reasonable at this time.

Annex 7: Results Framework

PDO Indicators by Objectives / Outcomes

Farmers reached with agricultural assets or services				
►Farmers reached with agricultural assets or services (Number, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	200,000.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Project is at preparatory stage and execution of works at the tank level is yet to commence. Measurement of Indicators will be taken up only after work is executed. PDO level indicators to be mapped during mid-term and end-line assessment. After intervention it will be reported				
▲Farmers reached with agricultural assets or services - Female (Number, Corporate Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50,000.00
Project is at preparatory stage and execution of works at the tank level is yet to commence. Measurement of Indicators will be taken up only after work is executed. PDO level indicators to be mapped during mid-term and end-line assessment.				
Productivity of specific crops increased				
►Productivity of specific crops increased (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator measures the increased crop productivity for paddy, red gram, groundnut and chili crops at farm level in metric ton per hectare.			
Project is at preparatory stage and execution of works at the tank level is yet to commence. Measurement of Indicators will be taken up only after work is executed. PDO level indicators to be mapped during mid-term and end-line assessment. Productivity mapping can be done only after a cropping season / cycle is completed (2019 Kharif and Rabi)				
▲a. Paddy (Metric ton, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	5.00	5.00	5.00	5.50
▲b. Groundnut (Metric ton, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.14	1.14	1.14	1.43
▲c. Chilli (Metric ton, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.37	2.37	2.37	2.96
Farmer's household income increased				
►Farmer's income increased (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	INR 15,722.00	15,722.00	15,722.00	INR 19,653.00

Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will track the annual farm income of project beneficiaries. It measures how the income of the farmers evolves with project activities, compared to the income of farmers that do not benefit from project interventions (Household income increases in INR).			
Project is at preparatory stage and execution of works at the tank level is yet to commence. Measurement of Indicators will be taken up only after work is executed. PDO level indicators to be mapped during mid-term and end-line assessment. Assessment of Income of the farmers from agricultural activities can be done only after a cropping season / cycle is completed (2019 Kharif and Rabi).				
Water Productivity Increased (kg/m3)				
▶Water Productivity Increased (Kg/m3) (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	(as given for each crop)	as given for each crop in baseline value	as given for each crop in baseline value	(as given for each crop)
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure the annual increase in water productivity at tank command areas; it is expressed ratio of agriculture production in Kg over water consumed (in m3).			
The project has taken up rehabilitation and modernisation of SSCBI system. In the first phase, rehabilitation and modernisation of 346 tanks have been taken up. As works are in progress, baseline situation still prevails. Secondly, as first cropping cycle will be taken up during 2019, water productivity assessment will be done only after completion of tank rehabilitation and end of cropping season.				
▲a. Paddy (Surface water) (Text, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.33 kg/m3	0.33 kg/m3	0.33 kg/m3	0.42 kg/m3
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
▲b. Paddy (Surface + Groundwater) (Text, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.37 kg/m3	0.37 kg/m3	0.37 kg/m3	0.50 kg/m3
▲c. Groundnut (Surface + Groundwater) (Text, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.28 kg/m3	0.28 kg/m3	0.28 kg/m3	0.35 kg/m3
▲d. Chilli (Surface + Groundwater) (Text, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.30 kg/m3	0.30 kg/m3	0.30 kg/m3	0.38 kg/m3

Intermediate Results Indicators by Components

Component A: Improving Irrigated Agriculture Efficiency				
▶Satisfaction rate related to WUAs performance (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	17.00	17.00	17.00	70.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure the satisfaction rate related to WUAs performance, due to project intervention. This will be measured annually after the mid-term of the project.			
Activities are planned to be implemented through WUA but as project is in inception stage, associated of WUA is very limited. Further, to strengthen WUAs, project planned measures are yet to be executed. Hence, WUA satisfaction rating can only be done once involvement of				

WUA comes to a stage and major part of the planned activities are executed.

►Area provided with new/improved irrigation or drainage services (Hectare(Ha), Corporate)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	90,000.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator measures the total area of land provided with irrigation and drainage services under the project, including in (i) the area provided with new irrigation and drainage services, and (ii) the area provided with improved irrigation and drainage services, expressed in hectare (ha).			

▲Area provided with new irrigation or drainage services (Hectare(Ha), Corporate Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	90,000.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025

The project has taken up rehabilitation and modernisation of SSCBI system. In the first phase, rehabilitation and modernisation of 346 tanks have been taken up. As works are in progress, irrigation coverage remains same to that of baseline situation. Once works are completed, gap ayacut is expected to get reduced and designed ayacut will be covered under irrigation..

▲Area provided with improved irrigation or drainage services (Hectare(Ha), Corporate Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	46,000	46,000.00	46,000.00	90,000.00
Date	19-Mar-002018	07-Jun-2019	19-Feb-2020	31-Oct-2025

The project has taken up rehabilitation and modernisation of SSCBI system. In the first phase, rehabilitation and modernisation of 346 tanks have been taken up. As works are in progress, irrigation coverage remains same to that of baseline situation. Once works are completed, gap ayacut is expected to get reduced and designed ayacut will be covered under irrigation.

Component B: Promoting Climate Smart Agriculture Practices

►Area increased/decreased in the Tank Command under Paddy, Pulses, Oil seeds and Vegetables (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025

Comments: This indicator will measure the area increased/decreased (Hectare) in the Tank Command under paddy, red gram, groundnut and chilies, measured separately for individual crops (in Metric ton / Hectare).

Project support system for agriculture promotion will commence from 2019 Kharif season. Hence this indicator will be measured only after the cropping season is over (Kharif / Rabi)

▲a. Paddy (Hectare(Ha), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	95,908.00	95,908.00	95,908.00	75,908.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025

▲b. Red Gram (Hectare(Ha), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2,052.00	2,052.00	2,052.00	5,552.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025

▲c. Groundnut (Hectare(Ha), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	4,982.00	4,982.00	4,982.00	8,482.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
▲d. Chilli (Hectare(Ha), Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	627.00	627.00	627.00	4,777.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
▶Area under fishery increased (Ha EWSA) at Full Tank Level (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	33.00	33.00	33.00	41.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure net fish cultivation area increased in tank water reservoir areas (Effective Water Spread Area for fishing) in percentage.			
Project support system for aquaculture promotion will commence from 2019 monsoon season. Hence this indicator will be measured only after the first harvest is completed.				
After intervention the figures will be indicated, as of now baseline figures will be remain same.				
▶Increment in Fish Productivity in short seasonal tanks (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.36	0.36	0.36	0.53
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure net fish productivity per effective water spread area (tones/year).			
Project support system for aquaculture promotion will commence from 2019 monsoon season. Hence this indicator will be measured only after the first harvest is completed.				
Component C: Post-harvest Management, Market and Agribusiness Promotion				
▶Number of Farmers Having Access to Infrastructural Facilities Created (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	0.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure the number of farmers having access to post-harvest infrastructural facilities (Storage Structures and Low Energy Cool Chambers) created under the project.			
Agricultural Infrastructural facilities are to be created after detail feasibility assessment. Once such infrastructures are created, based on the assessment, accessibility parameter can be measured.				
▲a. Storage Structures (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6,000.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
▲b. Low Energy cool Chambers (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target

Value	0.00	0.00	0.00	5,000.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
►Number of FPO activities financed through business plans (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator represents number of business plans for FPO activities prepared and supported under the project (in absolute number) from year 3 onwards.			
FPO promotion and strengthening process is at the preliminary stage. It is expected that FPOs will come to a stage to take up business only after they reach to that stage. This indicator can be measured only after FPOs takes up certain business activities, based on their business plan.				
►Number of women represented in WUA and FPO (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	30.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator will measure the percentage of women represented in WUAs and FPOs formation, and active participation in decision making process.			
WUA promotion process has been initiated and the process is expected to completed in coming months. Once, the overall process is completed, this indicator will be mapped.				
Component D: Project Management and Capacity Building				
►Beneficiary (of which 50 percent women) satisfaction rate with quality of services provided by the project (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	19-Mar-2018	07-Jun-2019	19-Feb-2020	31-Oct-2025
Comments:	This indicator measures the percentage of beneficiaries who expressed satisfaction with the quality of services provided by the project based on formal surveys (of which 50 percent should be women).			
Delivery of project framed service has been initiated,specifically capacity building. Beneficiary satisfaction can be mapped only after certain category of inputs are rendered and benefit is accrued / not accrued at the beneficiary level.				