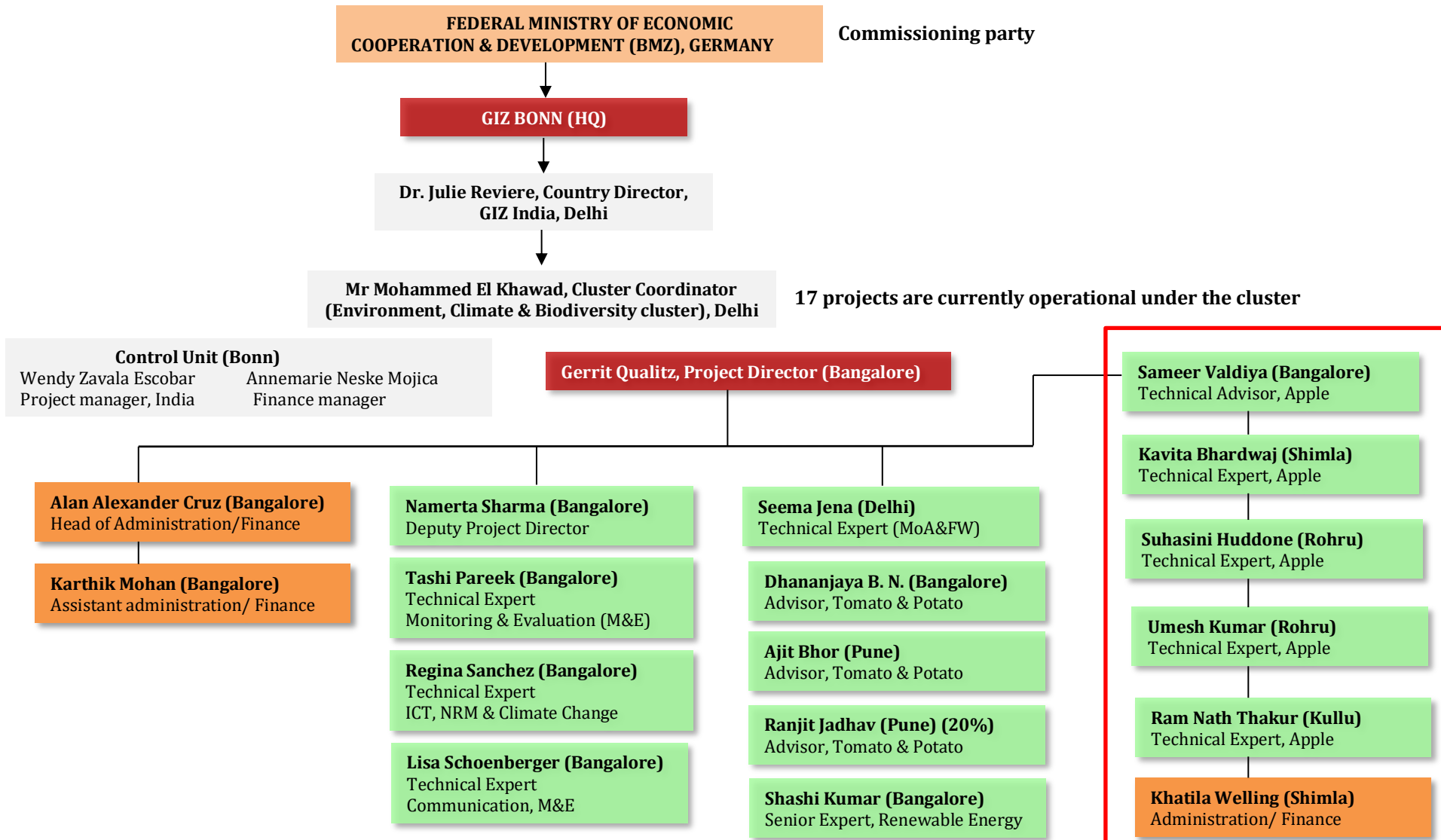


ORGANOGRAM – GREEN INNOVATION CENTRE FOR AGRICULTURE & FOOD SECTOR - INDIA



Tabular summary

Title	SEWoH - Green Innovation Centres in Agri-Food (India Country Package)
Project implementing partners	AFC Consulting Group, Andhra Pradesh Mahila Abhivruddhi Trust (APMAS), Deutsche Welthungerhilfe (WHH) Other project partners: International and Indian private sector, local and international research institutions and universities, civil society.
Implementation period	01.11.2014 - 31.03.2023
Value chains	Potato, Tomato, Apple
States	Karnataka (Chikmanglur & Hassan district) Andhra Pradesh (Chittoor district) Maharashtra (Pune, Ahmednagar & Ambegaon district) Himachal Pradesh (Kullu & Shimla ditrict)
Target group	<ul style="list-style-type: none"> • Smallholder farms, especially young people and women • Managers and employees in the upstream and downstream companies of the value chains (VC), especially young people and women
Indicators	<p>Income increase: in 111,300 smallholder farms by an average of 30%.</p> <p>Employment growth: through at least 1,800 newly created jobs</p> <p>Education and training: for 139,000 smallholder farmers</p>

1. Goals and approaches

The aim of the Green Innovation Centre is therefore to promote the dissemination of innovations that contribute to improving the income of smallholder farms, employment in the agricultural and food sector and the regional supply of food in selected Indian states.

The country package focuses on the micro and meso levels. At the micro level, the focus is on training and extension, the availability of inputs and services, and strengthening business relationships along the value chains. Private agricultural extension workers are at the centre of this approach. The competencies of farmers and farmers' organisations with regard to a sustainable increase in productivity are strengthened in particular through the application of *Good Agricultural Practices* (GAP). This is done on the one hand through training, field days and demonstration fields, and on the other hand through formalised further education and training courses. Producer groups and enterprises in the upstream and downstream sectors are supported in increasing their business capacity and in identifying and exploiting their market potential. At the meso level, the project strengthens the capacities of people in the service sector as well as in advisory, education and training institutions to disseminate innovations. The networking of actors in the states (macro level) and the political dialogue with the Ministry of Agriculture at state and central level are intended to contribute to improving the framework conditions for a modern agricultural and food economy.

The focus in the potato value chain is on professionalising the upstream areas (e.g. improved seeds), production (e.g. mechanisation) and marketing of table potatoes (e.g. networking with supermarket chains, direct marketing). The central starting point for the development of the agriculture value chain tomato is the upstream area of production of high-quality seedlings, e.g. through model seedling farms, and the marketing of seedlings. In the Apple value chain, the focus is on a transformation towards modern apple orchards as well as on production (e.g. nutrient and disease management, pruning of apple trees).

With the introduction of the new partnership category "Global Partners" under the BMZ 2030 reform concept, India will in future be counted among the global partners and will accordingly play a strategic role in solving global future issues and protecting global assets. The country package will therefore be increasingly integrated in the framework of a new module: Strengthening Global Partnerships, the country package will therefore increasingly work in the thematic areas of agroecology and South-South cooperation. For the Potato and Tomato value chain, the 2021 project progress analysis must examine whether and how a conclusion of the measures can be planned for the end of 2022. A corresponding concept for the realignment of the country package has been submitted to the BMZ and is part of the 2021 amendment offer.

2. Target group

- (Small-scale) farms along the tomato, potato and apple value chains
- Employees in the upstream and downstream companies of the value chains
- Women and young people

3. Partner

- Mission for Integrated Development of Horticulture (MIDH)
- State Departments of Horticulture (DoH),
- Agricultural Skill Council of India (ASCI)
- World Vegetable Center (WVC), International Potato Center (CIP)
- German Raiffeisen and Cooperative Association e. V. (DGRV),
- Andhra Pradesh Mahila Abhivruddhi Society (APMAS),
- Welthungerhilfe (WHH),
- AFC Consulting Group
- Bayer CropScience and various Indian companies

New partners:

- Access Livelihoods Group (ALC, Partner Chitrika)
- SELCO Foundation
- AllFresh Supply Management Pvt Ltd.

4. Engagement with the Government

GIZ shall periodically monitor and report the progress of the activities to the Project Steering Committee. For this purpose, GIZ shall prepare progress reports. MoAFW shall play an active role in intervening at the national/ state/ local level, wherever necessary for ensuring proper progress and success of the activities

State level technical committee (SLTC) meeting chaired by the Agriculture Commissioner is conducted at the state levels (Andhra Pradesh, Karnataka and Maharashtra) takes place regularly. GIZ share the project update in the meetings.

GIC has signed Memorandum of Agreement with Horticulture Universities in Maharashtra, Andhra Pradesh and Karnataka successfully. The objective of this cooperation is to foster inter institutional cooperation in order to support research activities, Indo German institutional collaboration Green Innovation Centres for the Agriculture and Food Sector – India involving sharing of technical expertise, knowledge management, applied research, studies, capacity development and placement of students for internships.

5. Activities (as per the value chain)

Potato

Karnataka

- Provided technical support to RAC nurseries to produced potato seedlings / cuttings. In this Kharif 21 season About 25 lakhs potato seedlings and supplied to farmers. The cuttings were also supplied to other states like Maharashtra, Odisha, Tamilnadu, Uttara Kand etc. In this season about 150 farmers have grown G-0 & G-1 seeds and kept in the cold storage.
- Hoysala FPC, Hassan facilitated for the purchase of 725 tonnes of Himalini seeds directly from the punjab farmers and supplied to the member farmers.

Maharsashtra

- Introduced Apical Root Cutting (ARC) seedlings first time in maharashtra with DoA in Akole tehsil of Ahmednagar district. 90000 cuttings received from hassan karnataka, which were locally grown in trays and distributed to 20 farmers in Akole.
- Training for DoA officials and lead farmers were conducted on filed preparations, nutrition managment, enriched neemcake praparation, package of practices for potatao at Akole, Ahmednagar district of Maharashtra.
- For ARC intervention exposure visit of FPC BoDs and AFC field team was arranged in this quarter. BODs from both the FPCs were participated in this exposure visit.
- Field days were arranged for Potato farmers in Khed taluka during this quarter.
- DoA official visited field demonstartion plot in khed taluka and interacted with farmers on 21 September 2021- Dr. A R Sasvikar (Project Manager NHM), Mr. Manoj Dhage (SDAO, Rajguruganar), Mr. Mandale (TAO, Rajgurunagar) and shared positive feedback on project interventions.

Tomato

Karnataka

- Small and marginal farmers friendly sprayers were developed which can be operated as knapsack sprayer. These sprayers are designed to suit for the Tomato, Onion, Potao and any other field crops.
- Output marketing of the tomatoes and other vegetables were done through modern retailers like More, Big Basket etc

Maharashtra

- TLC meeting at Sangamner were conducted on 20th September 2021 which was attended by DoA officials from Sangamner and Akole tehsil of Ahmednagar district.
- Krishinavkalpana FPC received support under NABRD PODF (Producer organisation Development Fund) scheme. This support will be for next three years.
- Krishinavkalpana and Versatile agrofirist FPCs have conducted AGM durig this quarter.

- Meeting on technical and capacity building support from the Indo-German Technical Cooperation Project “Green Innovation Centres for the Agriculture & Food Sector – India” (GIC) was held virtually on 24th September, 2021 with DoA, Maharashtra, Malegaon KVK, SAU-MPKV rahuri.

Apple

Himachal Pradesh

- In Himachal Pradesh, climate resilient and profitable activities are being promoted with technical expertise, new technologies and extensive private sector engagement.
- Around 1,000 women and youth were trained in food processing and local enterprise development at three sites to create new jobs. The training was provided by three small enterprises (Kotgarh Fruit Bageecha Pvt. Ltd., Hilly Foods and R R Enterprises) (implementation of COVID-19 special measures).
- In cooperation with the Indian fruit distribution company AllFresh, the sales market of 2,000 tonnes of apples is secured for the farmer producer organisations. In addition, around 200 farmers and young people take part in training courses on apple processing (implementation of the COVID 19 special measures).
- Capacity building trainings of 300 farmers on integrated pest management, safe use of pesticides and application technology.
- Introductory training on RIMPRO (virtual weather based disease & pest forecasting and advisory) technology to the farmers in coordination with Bayer Crop Science
- Facilitating linkages between farmers and soil testing laboratories to undertake soil testing of apple orchards soil.
- Bee-Keeping training provided to 40 farmers in Kullu district.

Employment: 1,662 additional jobs were created, of which 810 (49%) were for women and 840 (51%) for young people.

Education and training: More than 108,383 people participated in training, of which 31,202 (29%) were women and 41,031 (38%) were young people.

Gender: The new implementing partner Access Livelihoods Group (partner Chitrika) trains and advises 400 women entrepreneurs and start-ups in Maharashtra and Andhra Pradesh, thereby promoting female entrepreneurship.

Renewable Energy

- Two farmgate solar powered cold storage installed in Chuara Valley of Himachal Pradesh to fetch better price for the small farmers producing apple.
- MoU with Schnieder India Foundation is signed for skilling of youth in solar panel as electricians in operational areas of GIC project.
- Started food processing initiative within Tomato value chain intervention like tomato dryer, juicer and pulper is introduced in the operation area of GIC - Andhra Pradesh state by the Farmer Producer Organisation.

Project Progress Details

a) In value chain clusters

	PROJECT LOCATIONS					
State	Karnataka		Maharashtra		Andhra Pradesh	Himachal Pradesh
Districts	Chikmangalur district	Hassan District	Pune and Ahmednagar District	Aurangabad, District	Chittoor District	Kullu and Shimla District
Crop	Tomato	Potato	Tomato	Potato	Tomato	Apple
Number of project villages	49	86	65	42	307	190
Approx. area covered under the project	567ha	1,003ha	2,000ha	2,053ha	5,806ha	8,400ha
No of farmer groups and farmers reached	52 Men groups: 36 Women groups: 19 Mixed group: 3	71 Men groups: 49 Women groups: 15 Mixed groups: 7	83 Men groups: 69; Women groups:14	74 Men groups: 34 Women groups: 12 Mixed groups: 7	441	170
Outreach to farmers not organized in farmer groups	1812	937	6,014	5,541	2,400	3,000
Total number of farmers	2310	8975	6300	3519	7420	11138
No. of Farmer Producer Companies (FPCs)	2 FPC registered	2 FPC registered	4 FPCs formed	2 FPCs formed	12 FPCs (Mandal Level), 26 cooperatives (Panchayat level), 1 district level federation company registered	Support of 2 Farmer Associations in Kullu and Chhuara Valley

b) Other outcomes as complimentary activities: The project established 11 Green Colleges, registered under ASCI and trained over 28.000 trainees out of which over 60 per cent increased their income. In future, the Green Colleges will further align with the value chain approach in Maharashtra and Karnataka.