## **MOU IV: Post Harvest Component**

#### **Broad Objective**

The objective is to reduce postharvest losses of selected agriculture produce through appropriate technological interventions such as appropriate storage structures and increase farmers' financial returns through value addition route which includes primary and secondary processing.

#### **Scope of the Project**

Objective 1: Technology intervention to reduce post harvest losses in onion

Objective2: Technology intervention for value addition of agriculture produce via processing.

#### **Important aspects of the Project**

- 1. Screening of FPCs to select most promising FPC (based on set criteria)
- 2. Exploring Value addition opportunities
- 3. Feasibility analysis of Value addition intervention considering social, economic and ecological aspects to ensure its sustainability.
- 4. Collaborative work to establish processing unit/storage unit with selected FPC/FPCs.



#### Value addition component

**Desired output** 

cultivation based on

Production potential

local agroecology

Economics of

for different

geographies

Knowledge of current processing

Current market

linkages and logistics

activities

Data received from

**PMU** In first week of August

District level

production data

(various commodities)

Second week of

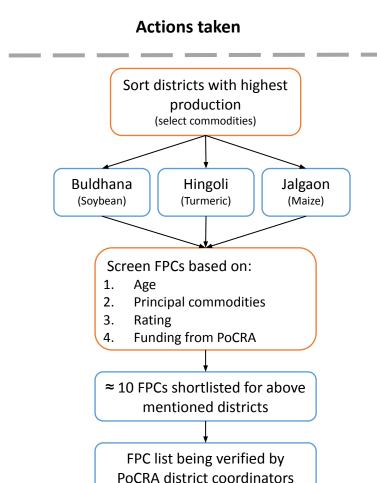
August

FPC details and

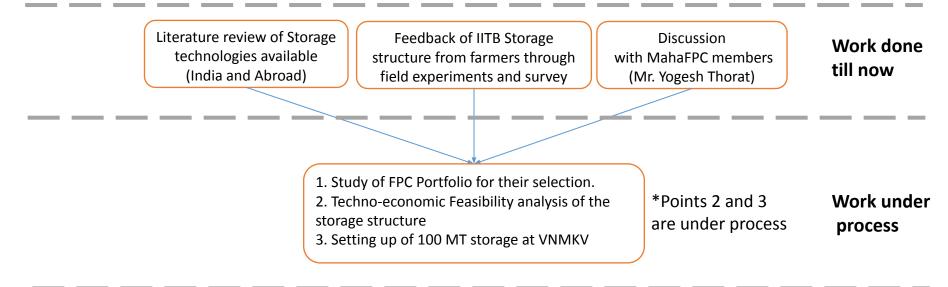
ratings

Data received from

**PMU** 



# Onion storage Structure (For Farmer Producer Companies)



#### Major discussion points

- 1. From discussion with MahaOnion, It came to know that all the large onion warehousing systems are running as Open ventilated system
- 2. If we could get storage data (and spoilage data ) of last 2-3 years of such large storages set up by MahaFPC comparison of performance, and economics of IITB storage structure at different scales can be done.

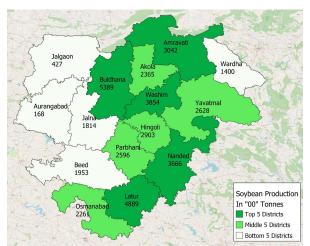
## Onion storage Structure (For Farmer Producer Companies)

#### **Potential Vendors**

- Paradigm Services Private Limited
  - (20+ years of experience with Food Processing Plant Design and Operations)

- RINAC India Limited
  - (One of the major players in Cold storage and cold rooms in India)

### **Mapping of Production data**





Top 5 Districts:

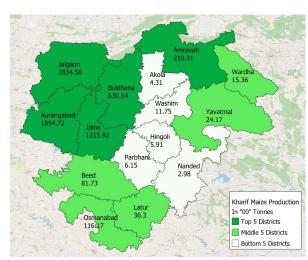
#### **Buldhana**

Latur

Washim

Nanded

**Amravati** 



**Maize Production** 

Top 5 Districts:

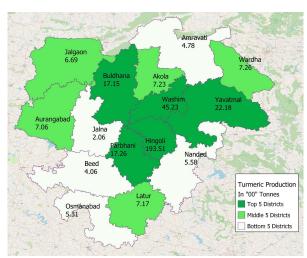
#### Jalgaon

Aurangabad

Jalna

Buldhana

Amravati



#### **Turmeric Production**

Top 5 Districts:

#### Hingoli

Washim

Yavatmal

Parbhani

Buldhana

#### Data received from Field visit to FPCs

Data received from Field visit to FOS							
		No of shareholders		Month/Year of Registration	Infrastructure		Funding through PoCRA
Rajshree FPC, Tal Lonar, Dist Buldhana		1320		Jan 2019	None		None
Sonpaul FPC, Tal Lonar, Dist Buldhana		1010		Apr 2018	1500 MT (x2) Godown 4 TPH Seed Processing plant		1 cr (60% subsidy)
Ruj FPC, Tal Mehkar, Dist Buldhana		252		Sep 2018	1500 MT (x2) Godown 4 TPH Seed Processing plant		1 cr (60% subsidy)
Crops	Average Productivity(Quintal	"		uantity Procured season (Quintal)	Average cost of cultivation (Rs/ha)	Average rate of sale to farmers/seed companies (Rs/Kg)	
Soybean	15		Upto 1000		37500	100-120	
Tur	7		Upto 50		7500(Additional cost being intercrop with soybean)	100-120	
Gram	16		Upto 350		25000	75-90	
					•		

30000

40-45

Wheat

20

12

### Insights from the field visits

- Currently the FPCs are involved in cleaning, grading, bagging, packing of seeds
- No involvement in value addition.
- The procured quantum for soybean is quite small (varying between 10 and 100 tonnes).
- The procured material has been majorly used as seeds for 2nd or 3rd generation crop.
- Apart from selling it to farmers, seed companies procure the produce from the FPC as source.
- Post 2022, the potential for value addition can be explored particularly when the FPCs will have enough quantum of 3rd generation seed.
- Something of interest: Value addition of pulses and gram Dal mill and flour making facilities (besan).

## Way ahead...

 Survey of all the selected FPCs in Buldhana, Jalgaon and Hingoli districts will be completed in first and second week of October.

 Selection of FPC will be done based on insights and analysis of the field data and discussion with PMU.

 Appropriate Value addition intervention will be proposed through techno economic feasibility analysis in consultation with FPC and PMU and will be reflected in the DPR.

#### Photos of the field visit Dt. 21 Sept 2021 (Tal Lonar, Mehkar, Buldhana district)



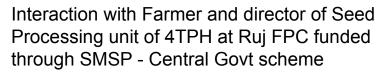
Godown facility of Ruj FPC funded through PoCRA



Godown facility of Sonapaul FPC funded through PoCRA

#### Photos of the field visit Dt. 21 Sept 2021 (Tal Lonar, Mehkar, Buldhana district)







Seed Processing unit of 4TPH at Sonpaul FPC funded through SMSP - Central Govt scheme