Survey Schedule for Farmers on Millets (2023)

Farmer code: MH /PAL/JWR/Dngachimeth/01 (State code/District code/Village Code/No)

1. Demographic information

1. Name of Investigator: <u>Mob No.</u>_____

2. Date of interview: _____Name of the farmer: -----Mob No: -----

3. Gender (M/F): _____Age: _____Education (No. of schooling yrs.): _____

- Taluk /Mandal ------ District: ------ State: ------3. Village:
- 4. Members of panchayat/NGO/FPO/PG etc.: Yes/No, If yes than designation:

- 5. Distance from input market (km): _____ Distance from output market (km): ______
 6. Occupation: a) Main ______ b) Subsidiary ______
 7. Family members: ______ (14<yrs.) ______ (14-60 Yrs.) ______ (>60 yrs.) ______
 8. Experience of farmer in growing millets: _______
- 9. Distance from the KVK/SAU/ICAR Institute (km): _____
 - No. of visits in as season 0
 - Name of Nearest KVK/SAU/ICAR Institute -----0

2. Details of land holding: (acres)

| Land holding | Rainfed | Irrigated | Source of irrigation |
|-----------------------|-------------|------------|----------------------|
| Owned (acres) | | | |
| Leased-in (acres) | | | |
| Leased-out (acres) | | | |
| Permanently fallow | | | |
| Horticulture | | | |
| Notes: Canal=1; Tube- | well=2; fai | rm pond=3; | Open well=4, tank=5 |

3. Cropping pattern:

| Name of crop | Season | Area (Acres) | Production (Qntles) | Source of Seed* | Type of variety** (H/S/I) | Name of variety | Rainfed/ Irrigated |
|-----------------|--------|-----------------|------------------------|--------------------|------------------------------|--------------------|-----------------------|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| NA:II.e.t | | | | | | | |
| Millet | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

*Source of Seed -1 Own, 2 Fellow farmers, 3 NGO, 4 Market, 5 Govt.Dept, *Type of variety: H-Hybrid, S-Selection, I-Indigenous

Millet crop cultivation status (5 Yrs./10 yrs./20 yrs.)

| Sr. No. | Name of millet crop | Since How Many years (Use * mark to indicate crop under cultivation) | | | | |
|------------|------------------------|----------------------------------------------------------------------|---------|---------|---------|--|
| | | 5 Yrs. | 10 Yrs. | 20 Yrs. | 30 Yrs. | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| Sr. No. | Millet crop | Land type* | Soil Type** | Cropping system*** | If mixed then which crops | Sowing method**** | Seed storage method | Grain storage Method |
|------------|----------------|---------------|----------------|-----------------------|------------------------------|----------------------|------------------------|-------------------------|
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |

* Land Type: U- Upland, L-Low Land; ** Soil Type; ***Cropping system: Mono cropping/Mix cropping/Inter cropping, *** Method of sowing _ 1. Line sowing, 2. Broad costing 3. Transplanting 4. Ridge& Furrow, 4. Any other method -please specify.

4. Millet crop wise Cost of Cultivation

| (Millet crop Operations | (Kg or lit or (m | | amily Labour (man-days) Hired Labour (man-days) | | | Farn | n Machine | Bullock (days) | Expenditure (Rs/acre) |
|----------------------------|------------------|-----|-------------------------------------------------------|---|---|------|------------|-------------------|--------------------------|
| | tomes/ acre) | Μ | F | М | F | Hrs. | Charge/hr. | Charge/acre | |
| Ploughing | | | | | | | | | |
| Harrowing | | | | | | | | | |
| Others | | | | | | | | | |
| Seed Treatment | | | | | | | | | |
| Sowing/Planting | | | | | | | | | |
| FYM/Organic | | | | | | | | | |
| Manure | | | | | | | | | |
| Urea | | | | | | | | | |
| DAP | | | | | | | | | |
| MOP | | | | | | | | | |
| Micro-nutrients | | | | | | | | | |
| Other | | | | | | | | | |
| Pesticides, | | | | | | | | | |
| insecticides. | | | | | | | | | |
| Fungicide, | | | | | | | | | |
| Herbicide | | | | | | | | | |
| Irrigation | | | | | | | | | |
| Inter-culturing | | | | | | | | | |
| operations | | | | | | | | | |
| Weeding | _ | | | | | | | | |
| Farm Security | _ | | | | | | | | |
| Harvesting | | | | | | | | | |
| Threshing & | | | | | | | | | |
| winnowing | | | | | | | | | |
| Storage | | I T | | | | | | | |
| Loading | | | | | | | | | |
| Transportation | | | | | | | | | |
| Miscellaneous | | 1 | | | | | | | |

| Operations | Material (Kg/lit/tomes/ac.) | | uly Labour an-days) | Hired I (man- | | Bullock (days) | Farn | n Machine | | Expenditure (Rs/acre) |
|-------------------------------------------------|--------------------------------|-----|------------------------|------------------|----------|----------------------------------|------|-------------|---------------|--------------------------|
| | | М | F | Μ | F | | Hrs | Charge/hr. | Charge/acre | |
| Ploughing | | | | | | | | | | |
| Harrowing | | | | | | | | | | |
| Others | | | | | | | | | | |
| Seed Treatment | | | | | | | | | | |
| Sowing/Planting | | | | | | | | | | |
| FYM/Organic | | | | | | | | | | |
| Manure | | | | | | | | | | |
| Urea | | | | | | | | | | |
| DAP | | | | | | | | | | |
| MOP | | | | | | | | | | |
| Micro-nutrients | | | | | | | | | | |
| Other | | | | | | | | | | |
| Pesticides, | | | | | | | | | | |
| nsecticides. | | | | | | | | | | |
| Fungicide, | | | | | | | | | | |
| Herbicide | | | | | | | | | | |
| rrigation | | | | | | | | | | |
| Inter-culturing | | | | | | | | | | |
| operations | | | | | | | | | | |
| Weeding | | | | | | | | | | |
| Farm Security | | | | | | | | | | |
| Harvesting | | | | | | | | | | |
| Threshing & | | | | | | | | | | |
| winnowing | | | | | | | | | | |
| Storage | | | | | | | | | | |
| Loading | | | | | | | | | | |
| Fransportation | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | |
| Main output By product Source of seeds: (| (q) (q) Own-1, Fellow fa | rme | P | rice rea | lized (I | per q): Rs per q): Govt.De | | rivate deal | ers-6, others | s pls Specify |

5. What are the reasons for the preference of varieties?

- a.
- b.
- c.
- d.

6. Reasons for Increase / decrease in area under millet cultivation in your village

- a.
- b.
- c.
- d.
- e.

7. Willing to continue/extend growing millets: Yes/No

1 If yes why? Reasons there of

- a.
- b.
- c.
- с.
- •
- d.

2 If not why? Reasons thereof

- a.
- b.
- c.

8. Reason for cultivation of millets (Rank Them)

| a | _ | |
|-----|--------------------------------|--|
| Sr. | Reasons | |
| No. | | |
| 1. | Self-consumption | |
| 2. | Fodder purpose | |
| 3. | Tolerant to diseases | |
| 4. | It's better than rice/wheat | |
| 5. | Increased soil fertility | |
| 6. | Requires low resources | |
| 7. | Market oriented | |
| 8. | Low fertility status | |
| 9. | Low rainfall | |
| 10. | Small units of land holding | |
| 11. | Only suitable crop in our area | |
| 12. | Low risk crop | |
| 13 | Miscellaneous | |

9. Mode of Disposal of millets:

| Туре | Millet Crop-1() | Millet Crop-2() | Millet Crop-3 () |
|-------------------------------|-----------------|------------------|-------------------|
| Total Production | | | |
| Home consumption | | | |
| Given to labor | | | |
| Given to relatives/ daughters | | | |
| Seed Purpose | | | |
| Fodder, Animal Food | | | |
| Available for sale | | | |
| Instant sale | | | |
| After 2-3 months | | | |
| After 6 months | | | |
| Within year | | | |
| Miscellaneous | | | |
| Total | | | |

10. Marketing details:

- 1. Where do you sell the product? Village/Mandi
- 2. Distance of the market from village?..... Km
- 3. Whom do you sell the product and quantity sold?
- a) Village Traders
- b) Wholesalers
- c) Regulated market/APMC
- d) Local market
- e) Retailers
- f) e-NAM mandi
- g) Processors
- h) Exporters
- i. Why do you prefer the particular channel?
- j. When do you sell the produce?
- k. What price you received for the produce
- l. Is the price received remunerative?
- m. Is procurement done by government agencies at MSP rates?
- n. What according to you MSP must be for millets?
- o. Is e-NAM platform beneficial? Give the comments and ways to strengthen further

11.Competing crops

| Sr. | Season Main millet | | | Competing crops | | | |
|-----|--------------------|-------|---|-----------------|---|--|--|
| No. | | crops | 1 | 2 | 3 | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |

12. Are you aware of nutritional value of millets or just consuming traditionally? *Yes/No* If yes, please mention it's name (Carbohydrates, Proteins, Fat, Vitamins, Fibers, Minerals, Miscellaneous):

13. What is your opinion regarding utility of millets in certain common deficiencies/diseases?

| Sr. No. | Millet Name | Deficiencies /diseases | Miscellaneous | |
|------------|----------------|---------------------------|---------------|--|
| 1 | | Obesity | | |
| 2 | | Anemia | | |
| 3 | | Blood Pressure | | |
| 4 | | Heart Disease | | |
| 5 | | Bone related | | |
| 6 | | Digestion related | | |
| 7 | | Diabetes | | |

14. Processing and Value addition:

• Level of processing at farm gate level/ whether you are processing before selling?? Yes/No If <u>Yes</u>, A. Primary Processing- Cleaning/Grading/ Drying

B. Secondary Processing – Dehulling / Milling

• Do you have equipment for Primary processing Yes/No

If <u>yes</u>, what are they?

15. Millet value added products you are aware of (semi and processed)

| Sr. No. | Particulars | Yes/ No | Comment |
|------------|----------------|------------|---------|
| 1 | Biscuit | | |
| 2 | Rawa/Soji | | |
| 3 | Puffs | | |
| 4 | Flakes | | |
| 5 | Vermicelli | | |
| 6 | Murukku | | |
| 7 | Atta/Flour | | |
| 8 | Namkeen/Snacks | | |
| 9 | Others | | |

16. Do you enter into agreement with the processor /pre harvest contractors? Yes/No

a. If yes,

Type of agreements

Advance amount (Approximately in Rs or in %) Conditions/ preferred terms

b. If no, are you interested if some processor comes forward for agreement? Yes/No

17. Traditional Food recipes from Millets

| Sr. No. | Millet crop | Food recipes | Method of preparation |
|------------|-------------|--------------|-----------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |

18. Please Mention crop wise specific cultivation methods of Millet crop.

- Millet Crop 1 ----
- Millet crop 2 -----

19. Millet crop wise major Pests and its Traditional management methods

| Sr. No. | Millet crop | Name of pest (Local Name) | Traditional Pest Management Method |
|------------|-------------|------------------------------|---------------------------------------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

20.Traditional Millet Grain and Seed storage Methods.

21. Any of festivals/Rituals associated with Millet Crop? Yes/No1

22.Production Constraints

| Sr. No. | Constraints | Rank |
|------------|-----------------------------------------|------|
| 1 | Unavailability of Quality seed | |
| 2 | High cost of seed | |
| 3 | Lack of technical knowledge | |
| 4 | Occurrence of pest and diseases | |
| 5 | High cost of plant protection chemicals | |
| 6 | High cost of fertilizer | |
| 7 | Labor unavailability | |
| 8 | Lack Of Sufficient Rainfall | |
| 9 | Others | |

23. Marketing Constraints:

| Sr. No. | Marketing related constraints | Rank | | |
|------------|------------------------------------------------------|------|--|--|
| 1. | Low price of farm produce at the time of harvesting. | | | |
| 2. | Delay in payment by the marketing agencies. | | | |
| 3. | Lack of marketing information. | | | |
| 4. | Lack of marketing infrastructures | | | |
| 5. | Lack of awareness about fair average quality. | | | |
| 6. | Loss of weight during storage. | | | |
| 7. | Others (: if any) | | | |

24. Miscellaneous

a. Did you enroll to Pradhan Mantri Fasal Bima Yojana (PMFBY), which is the government sponsored crop insurance scheme that integrates multiple stakeholders on a single platform.? *Yes/No*

b. Are you a beneficiary of Pradhan Mantri Jan-Dhan Yojana (PMJDY), which is the National Mission for Financial Inclusion to ensure access to financial services, namely, Banking/ Savings & Deposit Accounts, Remittance, Credit, Insurance, Pension in an affordable manner? *Yes/No*

c. What are existing Govt schemes for millets in Your Village?

d. What support your looking from the government regarding millet cultivation?

e. Have you taken any credit and whether used for same purpose? Yes/No

* If No, then where it was used? _____