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Agricultural Demonstration

Centres

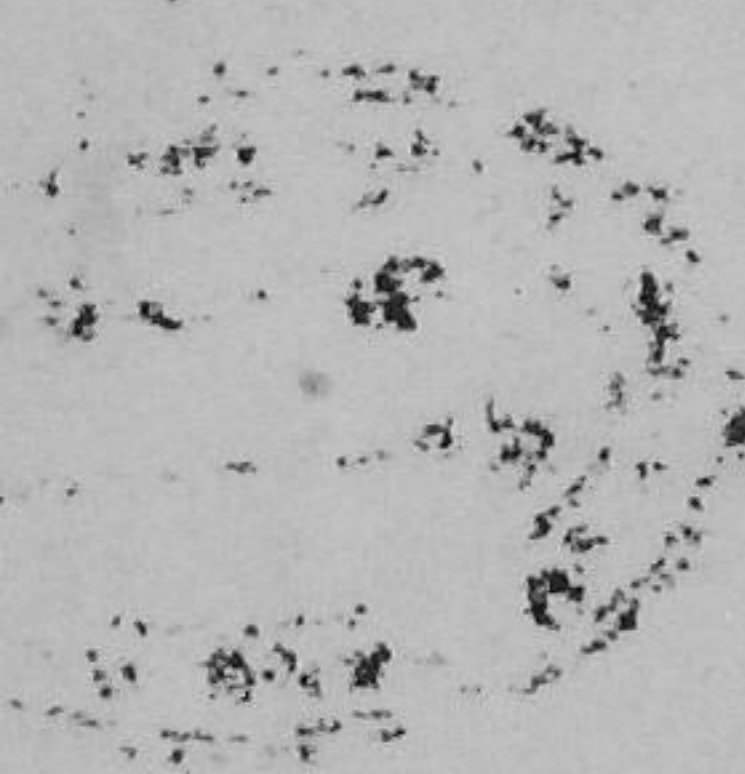
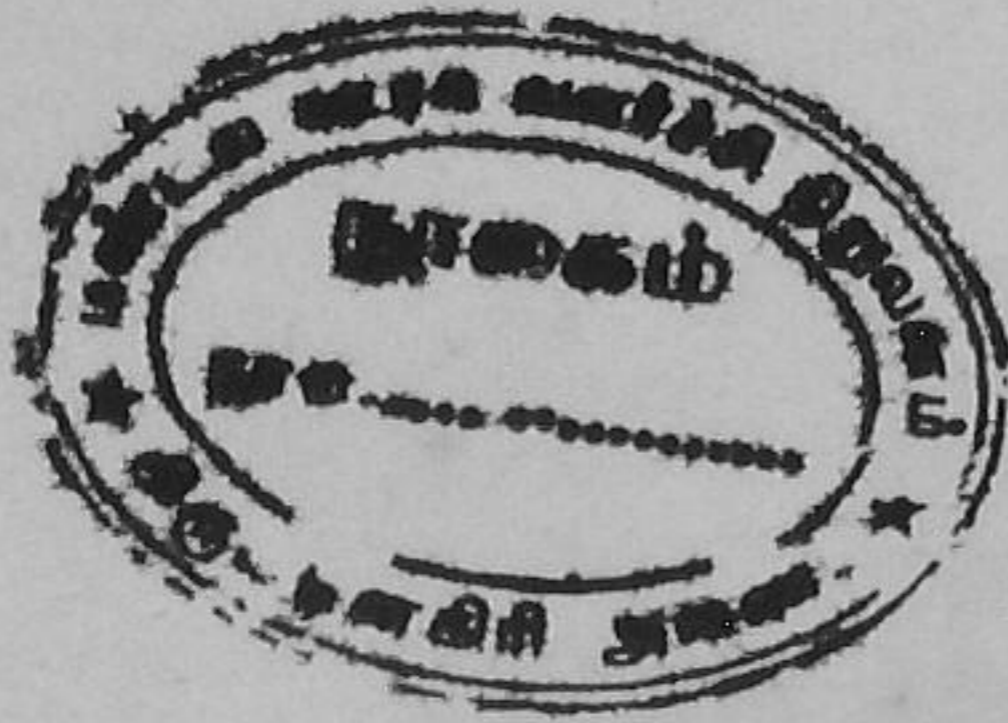
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would adopt agricultural improvements advocated by the Agricultural Department, and that he would render all possible assistance to the extension staff in supplying information about the working of the Centre, in arranging demonstrations, etc.

Instructions for the working of the Centre

(i) A plan for agricultural improvements to be demonstrated at the Centre should be prepared by the Deputy Director of Agriculture of the region in consultation with the owner of the holding, the District Agricultural Officer, and the Block Development Officer. The plan so prepared should be implemented by the Village Level Worker under the guidance of the Block Extension Officer (Agriculture). Items of agricultural improvements to be undertaken at the centres are listed in *Appendix A* to serve as a guide.

(ii) A sketch plan of the area of the Centre should be prepared showing field boundaries, roads and paths, buildings, and, on irrigated areas, wells, water-channels and drains, if any. The water of the well at the Centre should be analysed.

(iii) Before the commencement of *kharif* and *rabi* seasons, cropping schemes for the Centre should be prepared by the Block Extension Officer (Agriculture) in consultation with the owner of the holding. These schemes should be considered by the District Agricultural Officer, the Deputy Director of Agriculture, and the Project Officer for final approval.

(iv) A statement should be prepared indicating what land development projects, e. g., bunding, levelling, provision of irrigation facilities, planting of trees, etc. could be carried out on the area of the Centre.

(v) The Village Level Worker should maintain essential books and records such as crop ledger, cropping scheme, records of demonstrations held at the Centre, etc. Suitable forms should be evolved to maintain such accounts and records with a view to working out the cost of production of crops and the profits accruing to the cultivator. Forms showing the *cropping scheme, daily labour sheet, cultivation sheet and income*, to be maintained are shown in *Appendices B, C, D and E*. These are the forms adopted by the Bombay Department of Agriculture and may serve as a guide for other States.

(vi) A suitable schedule of inspections by the Block Extension Officer (Agriculture), the Block Development Officer, the District Agricultural Officer and the Deputy Director of Agriculture should be laid down in order to ensure that the work is progressing according to the plan.

(vii) The members of the local and Block Advisory Committees may visit any of the Agricultural Demonstration Centres and record their remarks and observations in the instruction book which should be maintained at the Centre. These remarks should be written on left-hand half of the page, and the action taken on them by the Village Level Worker should be recorded opposite each item on the right-hand side of the page.

(viii) Demonstrations should be arranged at these Centres to which cultivators should be invited. There should be at least one demonstration in each cropping season.

APPENDIX A

Items of agricultural improvements to be undertaken on the Agricultural Demonstration Centre

1. **Land Development** Bunding, levelling, provision of waste weirs, etc.
2. **Cultural Practices** Ploughing with iron ploughs; ploughing immediately after harvest, harrowing immediately after harvest, broad ridge method of cultivation, interculturing of crops, removal of weeds, wider sowing of crops, preparation of a good seed-bed, application of manures to seed-bed *versus* *rabbing*, carrying out timely field operations. Dry Farming practices. Japanese method of paddy cultivation, top-dressing of sugarcane, drill sowing of jute, etc. Mixed farming and forage crops.
3. **Seeds** Use of improved seed, collection of good seed at harvest time, testing germination of seed before sowing, treating seed with fungicides before sowing, roguing, storage and care of seed, etc.
4. **Manures** Preparation of farmyard manure, preparation of compost, collection of cattle urine for use in making compost and farmyard manure, care of manure pits, application of farmyard manure as a basic dose, use of artificial fertilisers as top-dressing, time of application of manures and fertilisers, green manuring. Raising of green manure crops on field borders, growing of leguminous cover crops.
5. **Irrigation** Preparation of land for irrigation, methods of irrigation, the amount of irrigation water to use and interval of irrigation.

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| 6. Improved agricultural implements and machinery | Improved agricultural implements for tillage like heavy and light ploughs, seed drills, inter-culturing implements such as Baroda or Akola hoe and Japanese paddy weeders, wet land puddler, green manuring trampler, bund former, ridge plough, Olpad thresher, winnowing fans and winnowers, improved water lifts, cane crushers, <i>gur</i> boiling pans, etc. |
| 7. Cropping scheme | Balanced cropping, leguminous cover crops, double cropping, etc. |
| 8. Introduction of new varieties of crop | |
| 9. Plant Protection Measures | |
| 10. Horticulture | Introduction of improved varieties of garden crops, budding of <i>ber</i> , top working of inferior fruit trees to superior ones such as in the case of mango, <i>ber</i> etc., cultivation of vegetables, planting of useful shade and fuel trees. |
| 11. Livestock | Maintenance of pedigree animals, proper feeding of animals, treatment of cattle diseases. Improvement of grasslands and introduction of improved grasses and legumes. |
| 12. Poultry | Improved types of poultry birds, their care and proper feeding, etc. |
| 13. Farm accounts | |
| 14. Subsidiary occupations | Rope-making, bee-keeping, sheep and goat keeping. Carting work to be undertaken. |

APPENDIX—B

Cropping Scheme

Serial No.	Plot No.	Survey No.	Area (acres)	Last year's crop			Current year's crop			Tillage	Manure	Cultural Operations	Estimated yield	Remarks
				Kharif	Rabi	Hot weather	Kharif	Rabi	Hot weather					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

APPENDIX C

Daily Farm Labour Sheet

Plot No.	Sub-Division	Crop or other head of charge	Labour				Cattle		Engine		Electrical Motor	Details of work done	Approximate area
			Malis	Men	Women	Children	Bullock	Mules, buffaloes etc.	Oil (lbs.)	Machine	Units consumed		
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Notes—Column 3 is left blank till the nature of the crop is ascertained. When this is done, say, at sowing season, the back entries are to be filled in. The miscellaneous headings are to be left to the discretion of the superintendent. Small heads are to be grouped under "Charges", i.e., Farm charges, and the explanation given in the last but one column. In entering the numbers of plots in column 1, care should be taken to keep the consecutive order. Here also enter other charges, such as dairy, miscellaneous etc.

Farm, Plot No. _____ Sub-plot No. _____

Crop and its variety—

PURPOSE :

TREATMENT { Preparatory tillage—
 Manure per acre—
 Seed-rate per acre—
 Subsequent cultivation—
 Irrigation—

PREVIOUS TREATMENT { Crop and its variety—
 Cultivation—
 Manure per acre—
 Irrigation—

Yield of crops					Cost of cultivation			Labour
Name of the crop and kind of produce	Quantity		Value		Name of item	per plot	per acre	Date
	Per Plot	Per acre	Per Plot	Per acre		Rs. n.P.	Rs. n.P.	
	lbs.	lbs.	Rs. n.P.	Rs. n.P.				

* Other charges may include land revenue, seeds,

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Sheet

Area (acres) _____

charges						* Other charges		Total Charges
Description of item	Quantity				Cost	Quantity	Cost	
	Men	Women	Boys	Bullocks	Rs. n.P.	Nature	Rs. n.P.	

manures and fertilisers, irrigation, etc.

APPENDIX E

INCOME

(1) Gross income

Crop and/or produce	Area (acres)	Total outturn (mds.)	Rate (Rs.)	Value (Rs.)
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(2) Expenditure

	Cost (Rs.)
(i) Manual labour	---
(ii) Bullock labour/power	---
(iii) Seeds	---
(iv) Manures & fertilisers	---
(v) Implements (1/5th of the cost of a new implement to be charged if its value is more than Rs. 10; full cost to be charged if its value is less than Rs. 10)	---
(vi) Irrigation	---
(vii) Land revenue	---
(viii) Miscellaneous	---
	Total...

(3) Net income

(i) Gross receipts	---
(ii) Expenditure	---

Net income...