Department of Agriculture, Bombay.

BULLETIN No

POONA FURNACE

(In the Satara District)

BY

P. C. PATIL, L.Ag.,
Divisional Inspector of Agriculture, C.D.



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APPENDICES. APPENDIX A.

(a) The crushing season in the Satara District is short. labourers get in this season about double the usual rates of wages. While in the Poona District which grows a very large acreage the season lasts for over 5 months and the wage-carners get only a trifle more than the usual rates, though they are usually high. It must therefore be remembered that the Sátára labourers work so hard only because the season is short and they get especially high wages. Even with the increased wages, however, they cannot work at this rate if they were to work several months together as in the Poona District.

The following gives the strength of the gangs usually employed in different parts of Sátára and Poona Districts:-SA'TA'RA.

Hours of work daily from the Quantity of juice in Quantity Cost of time the Men Bullocks Name of Daily making of gul in crushing in the in the the place. a working a working 10,000 lbs. expenses. begins till gang. gang. of gul. day, day. the last boiling is over. Wadgaon No. No. No. Lbs. Rs. a. p. Rs. a. p. Lbs. (Kolhapur), 1,100 10 11 97 2 20 17 16 7,422 6 0 Sarud (Kolhapur) 21 17 16 8,400 1,260 10 11 0 84 13 2 Yellur I. Taluka Valva ... 16 59 6 o 12 899 1,450 ... Yellur II. Táluka Valva ... 16 16 9 3 9 63 II O *** ... 1,450 Karanjawa de, Taluka Valva. 20 12 8,004 11 15 **6** 85 14 6 ••• 1,393 Chikurde I, Taluka Valva. 8,897 20 22 12 1.600 11 12 0 7 0 Chikurde H. Taluka Valva, Retre, Taluka 21 23 16 10,560 1,800 12 10 0 2 2 Karad 23 18 12 9,000 1,675 12 13 9 76 12 4 Mangale, Taluka Valva .. 20 16 10,800 2,000 2 0 70 10 0 POONA. Hadapsar I ... 8 5,304 760 This year's rates vary from Rs. 19 to 24 a thargodi. 4 GN4 About 15 hours. Rs. Maxi. this year.76 Mini. " 60 Normal average.68 II ... Do. 11 8 4,928 812 D٥. III ... 11 8 5,172 792 D٥. IV ... 11 8 5,188 780

8

8

5,084

4,512

792

760

11

31

Loni Kalbhor.

Manjari

From the last column one sees that even in the Sátára District the expenses of manufacture per 10,000 lbs. of gul vary from place to place from Rs. 59.6-0 to Rs. 97-2-6. Round about Poona expenses per 10,000 lbs. of gul vary from Rs. 60-5-4 to Rs. 76-3-5 according to rates per bhar-gádi (the rates vary from Rs. 16 to Rs. 24 a bhar-gádi: bhar-gádi is not a fixed weight, it weighs from 3,040 to 3,250 lbs.). Taking Rs. 21-8-0 a bhar-gádi as the average normal rate, the expenses of making 10,000 lbs. of gul come to Rs. 68-4-4 which is less than that incurred at several places in Sátára.

The writer is not prepared, and he does not think it necessary to introduce a change in the organisation employed in Sátára for crushing cane. It is however obvious that the Poona cane planter under existing condition, has to spend less under this head than the majority of the Sátára cane planters.

(b) Moisture from megass was determined from about half a dozen places near Poona and also from several places in southern Sátára, and it was found that near Poona the freshly crushed megass contained 60.4 per cent. water against 64.1 per cent. in southern Sátára, which means that Poona crushing is better.

At the same time extraction of juice from cane was tested in several places in these tracts, and it was found that Poona stands a little better, extracting 65.4 per cent. against 65 per cent. in southern Sátára.

APPENDIX B.

Opinions of the sugarcane growers.

(I)

To

The Divisional Inspector of Agriculture,

C. D., Poona.

Sir,

I am using the Poona furnace (i.e., with air passage) for the last three years and I find it economical. Last season I had got 6 acres of sugarcane and I had not to spend anything for extra fuel since I used Poona furnace.

On the Poona furnace we boil 7 pans a day, turning about 1,507 to 1,675 lbs. of gul. Each boiling takes from 3 to 3½ hours.

Often cultivators cannot construct this new furnace properly, and so I hope the Government officers will keep an eye on this.

When I was using the local number I had to buy extra fuel worth Rs. 20 per acre.

when are much benefitted by this Poona furnace.

(Signed) PANOURANGAO ANANDRAO MOHITE.

Retre Budruk, 12th March 1911.

(2)

Te

The Divisional Inspector of Agriculture,

C. D., Poor

Sir,

We have been using the Poona furnace for the last three years. In this village there are now 15 to 20 furnaces of this type. The cultivators who made gul on the e furnaces could do so with megass and trash alone without any extra fuel.

- 1. 12. Those who used old type furnaces (local ones) required extra fuel a worth Rs. 20 to 18 per acre.
- 3.4 For the last three years I have been using this furnace (Poena) for my 4-acres care plantation. I have to use outside fuel for a couple of Jays to start with, but the much is saved at the end; (this is necessary as the megass takes about 2 days to dry).
- 4. In the year 1909 to one of my partners insisted upon having the local furnace, when I had to purchase extra fuel of about Rs. 25 for one acre. The partner repeated, and this year he agreed to make gul on Poona furnace and we did not a sendem may for extra fuel.
 - 5. (1) tood this from my/personal experience.

(Signed) GOVIND VASUDEV DHAVALE,

Retro Budeak, 12th March 1911.

(3)

Extract from a letter from Mr. Deshmukh the Inamdar of Chikurde, Talirka Valva, to the Director of Agriculture, Bombay, dated 6th February 1910.

The cultivalors on this side require Rs. 25 to 30 worth extra fuel (in addition to mogass and sugarcane leaves) on the local furnaces. I boiled 29 pans (outrum of one acre) on the Poona furnace and required extra fuel for only 4 of these instead of for 13 as usual, thus saving about Rs. 18 per acre. We are indebted to the Gayerament for this.