Papers re.
Secend revision settlement Bardoli taluka.
(ineluding Valod makal)
of Surat district.
(S.R.B.G. $\left.\begin{array}{r}\text { no. } 648 \\ \text { new sos. }\end{array}\right)$ new sos.)

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Second revision settlement
Bardoli taluka.
(including Valod mall)

- of Surat district.


## SELECTIONS FROM THE RECORDSTOF BOMBAY GOVERNMENT

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No. DCXLVIII-New Series


## PAPERS

RELATING TO THE

## SECOND REVISION SETTLEMENT

OF THE

## BARDOLI TALUKA

INCLUDING

## VALOD MAHAL

OF THE

## SURAT DISTRICT

3
[Price-Pupees 2 or 3 s .6 d.$]$

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Index to the correspondence relating to the Second Revision Settlement of Bardoli Taluka including Valod Mahal of Surat District.


Ftom

M. S. JAYAKAR, Esq., M.A.,<br>Assistant Settlement Officer, Bardoli Taluka (Including Peta Mahal Valod), District Surat;

To
The COLLECTOR of SURAT.
Surat, 30th June 1925.
Sir,
I have the honour to submit proposals for the second Revision Settlement of the Bardoli Taluka and Valod Peta of the Surat District.

- 2. The previous Settlements are :-


3. The present settlement comprises 137 Government villages of which 13 are uninhabited. The difference of one village less than before is due to Chandraya village of Valod Peta being included in the village limits of Siker as per Settlement Commissioner's No. 390-S.S., dated the 21st July 1915 (Superintendent, Land Record's No. 1455, dated 6th July 1915, and Collector's No. A.D.M., dated 10th July 1915). The number of villages in Valod Peta still remains the same and becomes one less in Bardoli Taluka owing to the transfer of Titwa village of Bardoli Taluka to Valod Peta-vide Government Resolution, Revenue Department, No. 2597 of 12th December 1921. There are no Inam villages.

## Position, Physical features and Soils.

4. Bardoli Taluka with the Valod Peta forms one of the Eastern most Talukas of the Surat District. It is bounded on the North by the Tapti River beyond which is situated the Taluka of Mandvi of this District. On the East it is bounded by Vyara Taluka of the Baroda State. On the South the Taluka is bounded partly by the villages of Valod Peta and partly by the river Purna which separates it from Baroda territory and the Jalalpur Taluka of the District. On the West the Taluka is bounded by Baroda State comprising the Talukas of Palsana and Kamrej.
5. The Peta Valod is bounded on the North by Bardoli Taluka; ou the East it is bounded by Baroda Territory as in the case of the Taluka. On the South by Baroda State villages and on the West by the villages of Bardoli Taluka and Baroda Territory. The Taluke and the Peta consist of flat country, and there are no hills anywhere in the Taluika. There are three big rivers the Tapti, the Purna and the Mindhola that run right across from East to West in the Taluka and the Peta. There are certain small tributaries of these three big rivers that also run across the Taluka and the Peta, and cut up the otherwise flat country. As a matter of fact the three rivers divide the country into well marked compartments, viz., that part lying between the Tapti and the Mindhola and that lying between the Mindhola and the Purna. There is of course not any well marked difference in these tracts of the country as it cannot be said that the soil in one compartment is decidedly superior to that in the other compartment. The best lands are all situated between the Purna and the Mindhola in the Western part of the Taluka. As on the other hand the lands situated towards the Eastern villages in this compartment are of a comparatively inferior kind especially so in the case of Valod villages. As we work upwards the soil between Mindhola and Tapti is somewhat of an inferior kind though the Western part of this compartment is as
gogdips the lands in the same part of the last compartment. As however we go to the Eastern parts in the two compartments we come across inferior kinds of lands. On the whole it may be said that mostly the soil of the Western villages is superior to that of the Eastern villages. Practically a line drawn North *to South in the centre of the Taluka and Peta gives the rough basis for dividing the good lands from the bad ones. The good lands censist of rich black soil, all level and flat and which have good capacity for retaining moisture. The cther soil is mostly light and is wanting in the capacity of retaining moisture. This latter is met in the Eastern parts and in the villages near about the Tapti river. In places the country is cut up by the rivers and "Nalahs" and this further affects the cultivation in some parts. But on the whole 1 hold that the soil both in the Taluka and Peta is quite good. The country is also well wooded, there are good mango trees growing all over and in places one comes across excellent mango groves which are such a pleasing feature to the eye. The water-bearing capacity of the soil is also a satisfactory feature of the Taluka and Peta villages mostly as water can be tapped at comparatively easier depths. This is a great facility for carrying on garden cultivation but the advantage thereof is not greatly availed of by the people. They are satisfied by growing a few vegetables, onions and chillies by means of garden cultivation of which a few patches here and there are noticed. The people are mostly attracted by the good prices realised on account of sale of cotton during recent years and they mostly go in for cotton cultivation and they would grow cotton even on soils which are not quite suited for cotton cultivation.

## Communications.

6. The Taluka and the Peta are well supplied with communications internally and has the broad gauge line of the T'apti Valley Railway running through it from East to West throughout the whole breadth of the Taluka (Peta). There are four stations : Bardoli, Timberwa, Madhi, in Bardoli Taluka and Kiher in Valod Peta. This latter which was a flag station has now been converted into a regular station. The Tapti Valley Railway thus connects the Taluka with Surat in the West and Amalner in the East.
7. Besides this Railway facility the Taluka and the Peta have got good roads throughout. First of all there is the Bardoli-Supa road which is pakka metalled road-and is in a good condition. This road cennects the villages lying round about Sarbhon in the Bardoli on one side and Jalalpur Taluka on the other. It affords easy communication with Bardoli and Navsari (via Kaliawadi) which are great trading centres. During the cotton season a great number of carts not only from this locality but from others lying beyond Bardoli even use this road for getting to Navsari gins. This road also runs through Bardoli up to Kadod which is also a big trading centre for timber from Mandvi and which is situated towards Northern extremity of the Taluka-so that this road forms one of the most important means of communication in the Taluka. The latter half, viz., that part running from Bardoli to Kadod is in charge of the District Local Board and is not in quite so good a condition as the road connecting Bardoli with Supa. But all the same it is quite convenient for the bullock cart traffic on this road. In addition to this there is another road connecting Bardoli with Valod. This road lies on the southern portion of the Taluka and the Peta and provides a good means of communication to the villages on this side with Bardoli and Valod. Then there is also a road running from Buhari to Valod and thence on to the Madhi Station. This road is very largely used and is in a good conditicn and affords very convenient means of communication to the Peta as a whole. This rcad also leads beyond Madhi Station and connects this part of the Taluka with Tarsada of Mandvi Taluka. A further continuation of this road beycnd Tarsada joins the road which leads on to Kadod. The road up to Tarsada is in a gocd condition. There is also another road bifurcating at Kamalchod and joining Kiher Station. This runs through Baroda Territory but all the same it is largely used by villages round about Kamalchod. These roads are all in a more or less good conditicn for the bullock cart traffic. Over and above these there is also a road leading from Bardoli to Kamalchod, via Kikvad, and Hindolia and joining the main road at Kamalchod. This was the old road leading to Khandesh. There is also another road leading from Sarbhon to Vankaner, via Nijar-Goji. These latter are not
maintained in proper state of repairs at present. Then tinere is a road conuecting Mota with Bardoli proper. In addition to these there are village roads connecting some of the villages with these main roads. Mention amongst these is made of the Kadod-Haripura road.
8. It may therefore be stated that the Taluka and the Peta are well off in point of communicaticn. The important roads menticned are passable during the rains. It is only some of the villages lying to the West of the Bardoli-Supa road that find means of communicaticn somewhat difficult during actual rains. These villages are Ambheti, Lakhanpore and others. But otherwise the means of communication are quite good and the ccnditicn of the rcads good. It may be menticned that there is a regular motor traffic in the road between Madhi to Tarsada. There is also a motor traffic from Madhi to Valod and on to Buhari. In the same way there is motor traffic between Tarsada to Kadod but in the case of Buhari and Kadod it is not very regular because of the condition of the road in these parts, which is not good for motor traffic.
9. It will thus be ncticed that there has been a great improvement all round in this respect. The Taluks Local Board and the District Local Board have maintained the various roads in good ccnditicn. The main roads are certainly far better than what they were fermerly and the great trunk road joining Bardoli with Surat is not in that condition in which it formerly was. No doubt it cannot be described as a first class road but all the same it cannot be described as what it was formerly by Colcnel Prescctt, viz., " nothing more execrable than it could be conceived, and that to travel on it broke the heart of man and beast". Thus cn the whole there is general improvement all over in this connection. The roads newly constructed since the first Revisicn Settlement are as under:-
10. Madhi-Mandvi Road.
11. Bardcli to Bardoli Station Road.
12. Bardoli to Mota Road.
13. Madhi to Valod Road.

## Markets and Fairs.

10. The chief marketing centres are Bardoli proper and Madhi to a certain extent also. The annual fairs are held at the following places, viz., Mota, Khali, Vaghech, Kadod and Mia-Vadi (of Bardoli Taluka) and Valod proper (of Valod Peta). These villages are situated in convenient places and are within easy reach from the main trunk roads. The fairs have more of religious significance about them. The average attendance and the average price of sweetmeats sold at each of the places of annual fairs except at Valod are 675 and 285 respectively; at Valod 3,000 people attend the annual fair and the price of sweetmeats sold amounts to Rs. 800. More important however from our point of view are the weekly bazars that are held at places menticned below. It will be noticed that these bazars are held at centrally situated villages. The most important weekly bazar is the one held at Buhari. Here a large number of trades people flcek from various places and even some of the Sonis (gold-smiths) from such a lcng distance as Mandvi bring their articles for sale. A brisk market for all articles of daily use is found here as in other places also and people from surrounding localities flock at these bazars to make their weekly purchases. It has however to be menticned that as in some Deccan fairs and bazars no plough cattle are brought for sale at these fairs and weekly bazars. In this respect the practice is that traders from Hansot and from Sindh bring their cattle for sale. They move on from village to village making short camps at convenient places and from these tradesmen villagers buy their bullocks and other live stock.

| Weekly Bacars | Approzimate No. of persons visiting the fair. | Approximate amount of sale. |
| :---: | :---: | :---: |
|  |  | Rs. |
| Kadod every Sunday | 400 | 195 |
| Surali every Thursday | 500 | 303 |
| Kamalchhod every Sunday (in fair season cnly) | 500 | 535 |
| Valod every Friday (in fair season only) | 100 | 195 |
| Buhari every Wednesday .. | 800 | 1,555 |

## Imports and Exports.

11. The export of cotton, it is clear from general observation has gone up considerably during recent years. Reference to the area of lands under various kinds of crop-vide Appendix B-will show that the area of land under cotton cultivation has considerably increased. The proportion is 40,099 acres in 1923-24 against 25,990 acres in 1894. As against that area of land under jowari has gone down which is 18,642 now, against 27,554 of 1894. The necessary effect of this has been that people have largely to import their food-stuffs from outside the Taluka. This has been the evident result of the high prices of cotton that have been ruling in the recent years and the natural tendency of the people to secure as much money as possible for their crops. Thus whilst the Taluka has on the whole been getting large returns from the crops grown therein it has necessarily slso to depend upon outside help in respect of its food-stuffs.

## Industries and Manufactures.

12. As might be expected industry for the most part is concerned with cotton. Bardoli, Madhi, Valod, Kamalchod and Buhari are the centres of the ginning and pressing industry. There is however no mill in the Taluka and Peta. In the places mentioned cotton is ginned, pressed and then exported. From the fact that the number of gins and presses has slightly increased since the lasi revision it appears that they are adequate for the work of the Taluka and the surrounding Baroda territory. It may be mentioned that raw cotton is even taken to gins, situated at Navsari and other places of the Baroda territory for being ginned and this accounts to some extent for the comparatiyely slight increase in the number of gins.
13. As regards hand industries Appendix E shows that there has been an increase in the number of hand gins. The number under other headings is more or less steady. The number of spinning wheels known as "Rentias" is 962 .

## Population.

14. Appendix $M$ will give the figures in this respect. In his Settlement Report Mr. Fernandez has shown the figure of population for 1891 at 84,211 but the correct figure as ascertained by a reference to the Imperial Census Report is 84,111, so that taking this figure at 84,111 it will be seen that there has been in 1921 an increase of populaticn by 3,800 in round figures. Bardoli proper shows a slight decrease in the first decade but during the subsequent two decades there has been a steady increase. With regard to Vilod there is a considerable decrease in the first decade but during the next decade the number has gone up considerably the last decade showing a slight fall. But taking the Taluka and Peta figures as a whole there is an increase.
15. During the interval of the years of 1896 to 1924 , the most serious epidemic was that of cholera and fever in 1900 when 981 and 5,262 died of these epidemics respectively. Total mortality of that year was 7,776 which is the heaviest in the whole period. In 1902, plague carried off 1,072 people. Another sericus epidemic was of influenza and that was during the year 1918 when the total mortality from all causes amounted to 5,738 of which 3,236 were deaths from influenza. The years 1900 and 1918 also show that the deaths were considerably higher than the births. During the years, viz., 1900 there were births 2,677 and deaths 7,776 , in 1918 births 3,578 and deaths 5,738 ; otherwise for the other years the number of births has been greater than the number of deaths, the total figures for births and deaths compare as under :-

| Births | .. | .. | .. | .. | 105,768 |
| :--- | :--- | :--- | :--- | :--- | ---: |
| Deaths | .. | .. | .. | .. | 88,064 |

## Education.

16. The following figures give the number of schools in the Taluka and Peta. I have had no figures for 1900 supplied to me. The figures show an increase till

1916 but in 1924 they have gone down. This is due to the closing down of certain schools on account of the nen-co-operation movement a few years back. The average attendance in these Local Bcard Schools is as shown in the statement below.
17. The number of girls' schools has gone down from 11 to 8 . The attendance herein has proportionately decreased. Statement showing the number of schools, pupils and average attendance in the Taluka of Bardoli (including Peta Valod).

| Kind of school, | 1808. |  |  | 1016. |  |  | 1024. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of School. | Number of .puplis. | Average A.ttendance. | Number of School. | Number of pupils. | Average attendance | Number of School. | Number of pupils. | Average Atten. dance. |
| Local Board and Municipal Schools, Bardolf | 26 | 2,255 | 1,169 | 84 | 3,848 | 2,140 | 28 | 2,801 | 1,872 |
| Valod .. .. | 18 | 1,028 | 681 | 18 | 302 | 843 | 21 | 1,846 | 877 |
| Angiovernacular school, Bardoli | 2 | 41 | 27 | 3 | 123 | 05 | 2 | 80 | 79 |
| Valod .. | 1 | 13 | 6 | 1 | 14 | $\theta$ | * | . $\cdot$. | - |
| Engilsh Figh School (Nit in Bardoll and Pets) .. |  | *.. | -.. | $\cdots$ | $\cdots$ | - | $\cdots$ | $\cdots$ | - |
|  | 45 | 3,392 | 1,827 | 58 | 4,787 | 8,087 | 61 | 4,238 | 2,828 |
| Srhooin for Girts. |  |  |  |  |  |  |  |  |  |
| Local Board Muntel- <br> Pal  <br> Bardoll Schools, <br> Bat  | 5 | 296 | 102 | 7 | 613 | 391 | 6 | 504 | 841 |
| Valod .. | 2 | 143 | 79 | 4 | 238 | 149 | 2 | 104 | 70 |
| Total | 7 | 430 | 241 | 11 | 852 | 840 | 8 | - 608 | 411 |

## Climate.

18. The climate is somewhat moist but healthy on the whole though there is malaria in parts of Bardoli Taluka and most of the villages of Valod Peta. November to February are cool, but in the after March the heat is very great.

## Rainfall.

19. The average rainfall of the last 29 years is $47 \cdot 92$ inches for Bardoli and 52 inches for Valod, the most frequent annual falls between 47 and 48 and 53 to 54 inches respectively. The figures in Appendix A show a fairly steady fall of rain somewhat more or less than the average during the last 29 years with the exception of years 1899, 1901, 1904, 1905, 1911, 1915, 1918, the years italicised were of poor crops while the rest, though the rains were less than the average were somewhat of fair crop than those of the former. The average for the three decades for the years 1896 to 1904, 1905 to 1914 and 1915 to 1924 eome to 41, 52 and 49 inches for Bardoli and 49, 55 and 51 for Valod Peta. The lightest falls were during the years 1899 and 1918:

Methods of cultivation and crops.
20. The chief instrument of cultivation is the wooden country plough. Appendix $D$ shows that the number of small ploughs has decreased and the number of large ones has increased, as also the number of plough cattle has greatly increased.
21. The staple agricultural product of the Taluka is cotton. The statement attached below will show what percentage of the land is under this crop. The
extension in the area of cotton at the expense of food crops is shown by the following figures. It may also be noted that area under grass lands is extensive :-

22. Cctton is getting more and more popular as the cultivation thereof involves less trouble and expenditure and as a rule realises large profits to an agriculturist. The cultivation thereof also does not involve any large expenditure to be incurred by the grower. Similar is the case with grass lands. Large quantities of grass are grown without any extra labour or troubled.and are brought to Surat bazar for sale where good prices are as a rule realised. The prices of cotton have this year gone down a bit and this has led the agriculturists a thinking but the tendency and inclination to grow cotton will still exist unless and until cotton prices show an abnormal fluctuation when perhaps, cultivators might resort to growing food stuffs. On the other hand grass market has been more or less steady and it is to this steadiness of the market that the tendency to leave lands open for grass growing is to be attributed. The Taluka on account of its sufficient grass and other jowar fodder has never suffered from any shortage of fodder for the plough cattle and in this respect it is entirely independent of any outside fodder supply.
23. The tendency to grow cotton has naturally resulted in another consequence, viz., that people are averse to bagayat cultivation which requires abnormal labour and money though in some places there are lands with wells that could be brought under bagayat cultivation. There are very many good wells in the Taluka but they are lying idle because of cotton cultivation.
24. The chief food grain is Kharif jowari. This is frequently grown in alternation with cotton, but more often this alternation is not observed and in very many fields cotton is the only crop that is sown.
25. Other crops especially Mug, Math, Tuver, Hemp, Gram, Chola, Val, Peas, Adad which are grown as mixed crops are grown in fairly large quantities. Oil seeds are also grown in small quantities.
26. Vegetables particularly brinjals, potatoes, chillies, onions, Suran, Rataloos and cabbages are grown here and there under wells generally throughout the Taluka. Water-Melons and Musk-melons are also grown where suitable soil is available in the river beds.
27. There is no regular system of fallows strictly as such though sometime, land on which cotton has been grown for 2 or 3 years is brought under Jowari cultivation. The cultivation is more or less intensive but the land is manured by cowdung or by flocking goats and sheep on the lands.
28. The Taluka is sown mostly with Kharif crops since as a rule early rains are favourable. Rabi crops are grown in comparatively small areas.
29. Cotton is sown after the first few showers but it ripens late and the pickings generally commence from the beginning of February and last till April. More or less by the end of April the whole of the cotton is removed.
30. As stated above cowdung is the chief manure used. But sheep flocking is also resorted to in some villages. The rabadis are asked to flock their sheep and goats on payment. The land is ploughed up in April and May and manured thereafter. The ploughing is commenced on the day known as "Akhatrij".
31. The greater portion of the land is cultivated by the owners with the help of their servants known as 'Halis'. The cultivators are mostly Kunbis excepting in parts of Valod where they are Kaliparaj Chodras, Bhramins and Muhammadans. Amongst the Kunbis there is a class known as Matias and they with
the other Lewa Kunbis are very industrious cultivators. Even their women folk attend to the lighter duties in fields. The Muhanmadans and Kaliparaj cultivators are comparatively idle and the difference in a field owned and caltivated by men of the two classes is easily noticeable. In one the fields present an appearance of industry and sufficient pains by their clear and well-kept appearance, in the other signs cf carelessness by way of growth of useless grass and weeds, on the part of the cultivator are clearly apparent. Land whenever it is let, is let on cash rent the assessment being paid by the owner of the field. But of late the tendency has been to let lands on " $A d h$-Bhag" i.e., share of produce half to half, the assessment being paid by the owner, the tenant bearing all the other costs. The tendency of giving lands on " $A d h$-Bhag" is of comparatively recent origin, since the high limit of prices that cotton reached.

Agricultural stock, live and dead.
32. Appendix D shows that plough cattle have remained more or less the same. At the time of the Ist revision settlement this number was 18,348, in 1909-10 the number was 15,800 in 1914-15 it was 17,622, in 1919-20 it was 17,171 and the present figure 18,127. So that during the period intervening between the lst Revision Settlement and the present one, the figures are steady the difference being 219 which is nominal. The area under cultivation has increased and along with that, one would expect an increase in the number of plough cattle, but the number has not increased because of the system that is prevalent amongst agriculturists of lending plough cattle amongst themselves either on hire or free amongst relations. On the other hand the number of milch cattle was $8,835,8,977$, at the 1st Revision Settlement. This number underwent the following fluctuations, viz., 1909-10 it was $8,147,8,417$, in 1915 it was $9,078,10,177$, in 1919-20 it was $8,338,10,123$ the present figure being 8,283 and 10,854 . The number of she-buffaloes has gone up considerably. This is easily to be accounted for by the fact that she-buffaloes are considered a great source of profit by agriculturists. The dung is used for manuring purposes and the milk is turned into Ghee and sold at considerable profit in the bazar at Surat which affords a ready and paying market at a convenient distance. The number under young stock has been more or less steady though buffalo calves show an increase of nearly 1,000 . In the same way the number under. the heading 'other cattle' shows a very slight increase. The difficulty with agriculturists in respect of these animals is that they cannot get rid of these animals on account of religious feelings and sentiments and economically these animals cannot well be used and cannot well be fed but the difficulty is partly met by allowing such animals to go astray and find out grazing for themselves. 10.7 acres per pair of plough cattle is very small area and it shows that there are sufficient plough cattle. Milch cattle are also numerous as stated above. A tour of the Taluka gives the impression that the cattle are mostly well-fed and well-lopked after and are quite useful and fit for the work for which they are intended.
33. The figures for ploughs show a slight decrease.
34. The increasing prosperity of the Taluka is shown by the steady advance in the number of carts both for passengers and for produce 33 per cent. and 5 per cent. respectively. This latter number should have gone up considerably in proportion with the general prosperity of the Taluka but the Tapty Valley Railway which is largely availed of for general export purposes has kept the rise in very limited bounds.

## Water Supply.

35. Appendix $F$ shows that the number of wells used for irrigation has increased by 44 per cent., and those used for drinking purposes by about 44 per cent. The number of wells in disuse has increased. It is noticed that many of the wells in use are in fairly good repairs.
36. There are at present two tanks for drinking water.

Water supply is good and sufficient all over the Taluka and Peta. Even during the hot season the supply of drinking water is found to be sufficient and within easy reach from the villages concerned. Even in fields, wells containing good supply of water are found situated within convenient distances.

Sales.
37. Appendices G, G1, G2, H, H1, and H2, show the sale prices of Jarayat Rice and Garden lands and the rates of leases for the same in Bardoli Taluka during the year of 1901-02 to 1924-25 (24 years of the present settlement). The figures are the totals of the bona fide true transactions as again verified by the Mamlatdar on the remarks of the Settlement Commissicner of sales and leases in all villages comprising the various groups and these have been taken after careful scrutiny. To arrive at the real value of land as estimated by the people themselves, the sales in which the price was not fixed by eccnomic considerations have been excluded, viz.-
(a) Sales in which wells, buildings, etc., were included in addition to the cost of land.
(b) Conditional sales, e.g., mortgages in the form of sales and sales containing a conditicn to return the land on payment of a certain sum.
(c) Sales of land brought or used for purposes other than agriculture.
(d) Sales of Inam land because the Inam right has a value of its own.
(e) Sales, which for any other reason, appeared abnormal (i) such as among nearest relations in which it was found that the price was below the value of the land and (ii) such, in which an heirless owner or a relative which anticipated the functions of a will. The sale value was arrived at by the vendor and the Vendee after free bargaining where neither party had any particular advantage over the other. The buyer was indeed aware that the land was subject to Government assessment annually and must have made allowance for this charge in the purchase price.
The figures of sales and the average derived from them and shown in the following statements may be taken as fairly representing the present prices.
38. The multiples of assessment in Appendix G derived during 1918-19 to 1924-25 when compared with those of 1901-02 to 1910-11 show a marked rise and clearly depict the present high state of prices.
39. In short careful scrutiay was made to arrive at the real price of the land after excluding all considerations in the sales which gave a least clue of the transaction being not bona fide for one reason or the other. Thus the pure agricultural value has been taken as the basis of our present report.

## Sales.

Jarayat land, Rice land and Garden land. (Bardoli including Valod.)
Jarayat land.

40. A comparison of the figures of the period of the previous settlement is difficult owing to the form in which they are given in appendix K of Mr. Fernandez's report.

But from the above figures it clearly appears both from the rate per acre and the multiple of assessment that the prices of land in all the groups have risen considerably at the end of the present settlement compared to those prevailing at the beginning of the settlement.

## Leases.

41. These have been subject to the same scrutiny as the sales and the following classes rejected as uneconomic:-
(a) Leases of Inam lind as these sometimes fetch a higher rent for sentimental reasons and sometimes a lower rent because the holder has only to make good from his rent the amount of judi and not of assessment.
( $l$ ) Leases, where the tenant is the previous owner as a higher rent is often paid in order to preserve connection with the land.
(c) Leases in which the amount of rent was not lona fide for considerations, such as near relations, previous debts between the parties, etc.
The level of rents depends upon the price of produce determinable by the ratio of supply to demands, the supply being largely determined by the cultivable area and the demand by population and standard of living. The rent of each particular field is decided by the margin of profit which it leaves to the cultivator after he has made good the expenses of cultivation: The rent is fixed by bargaining between the superior and inferior holders. The statistics have been collected from all these points of observation and comprised in the report after all possible scrutiny.

The following abstracts of the leases of jarayat, rice and garden lands representing comparative rise in the land show the present state of rental value of each kind of land.

The multiples of assessment represented by rent in appendix H between the
periods $1901-02$ to $1910-11$ and 1918-19 to 1924-25 show a rapid rise during
latter period representing the present state of rental value in these lands.
In short the lease statistics in the report were taken from leases on cash rents.
1918-25. Jarayat Land. (Bardoli including Valod.)


Cs $10-3+$

From the above tables of leases it is clear that on the whole there has been a continuous and steady rise in the amounts from one period to another as shown in Appendix H. The column of index shows that the rates now proposed to be charged are below those shown in that column. From the multiple of assessment represented by the rent it is also clear that it is more than three times except group: I and II of rice land where it is 2.70 and 2.78 respectively. In garden lands it is 1.63 in which case no increase in the rates has been proposed.

## Demand for land.

42. It can very safely be stated that the demand for land has gone up considerably during the period of the present Settlement; and this is clear firstly from the fact that the average prices of jarayat and rice lands have gone up considerably. This can be seen from the figures which I have given above and wherein I bave shown the difference in the price of various kinds of lands during the lst period and the last period. In the same way the fact that the number of sales during the three periods both for Bardoli and Valod shows a steady rise points out to the same conclusion. The following statement gives the exact figures both for Bardoli and Valod.

43. This is another indication to show the increasing demand for land. The 3rd indication that warrants this inference about the increasing demand for land for cultivation is the increase in the area under cultivation. The figure of area under cultivation (gross cropped area) was 104,876 at the time of the 1st Revision Settlement-this now stands at 133,401. The increase in occupied area is $\mathrm{d} \mathbf{r}^{-}$ to the grant of Government waste land for cultivation.

## Price.

44. Prices prevailing in the last 37 years are given in Appendix I ani they are illustrated by a graph for cotton, jowari and rice. Figures prior to $1888-8$ have not been available. The three main crops that might be considered $f$ d the purposes of the report are jowari, rice and cotton. The appendix woul show that during the period of the present Settlement Jowari has gone ul considerably in price-in the 1st decade from 1895 to 1904 it was 16 seers 10 cht tanks and in the last decade it rose to 8 seers 2 chhatanks. Same is the case wi rice. It rose from 17 seers 12 chhatanks in the 1 st decade to 10 seers 12 chhatan in the last decade. Cotton on the other hand, the area under which shows suck large increase as stated in the body of the report shows greatly marked increa: In the 1st decade it showed at 5 seers 15 chhatanks and in the last decade it show at 2 seers 7 chhatanks an increase of 144 per cent. The graph shows some mark ${ }^{2}$ fluctuation both for Jowar and cotton for the year 1918 and 1919 but that way due to war conditions prevailing; since then they have gone down but have nad reached the former level.

Wages.
45. The following table shows the rates of wages in 1911, 1917 and 1924 :

46. The most remarkable change is the increase of agricultural and ordinary labourers' wages. This is probably due to the keen demand for this sort of labour and to the increased cost of living which makes a certain minimum wage absolutely necessary for existence for whole time labourer. The nearness to Railway and *Surat City and the presence of good many gins in the locality has added to the demand for labour and this accounts partly also for the high wages demanded. There is reason to believe that labourers have improved their position on account of the high wages they get.
47. Revenue History.-The first Revision Settlement came into force from 1897 ; the original demand was $4,30,263$ and it was raised to $4,58,317$ in the first revision. The increased amount was collected without any difficulties. There were no large acquisitions of land or any transfers to gam-tal that affected this demand. The present demand for $1923-24$ is $4,95,509$.
48. Remissions were given during the first Revision as shown in Appendix K: Suspensions due to bad season are nil. This shows that the tract is immune from famine. Even during the years that rainfall was below the average the assessments were fully collected. It is noteworthy that the column for unauthorised outstandings is blank. Thus the whole revenue was collected in full for 30 years without any hitch. The case with which it was collected is shown by the following figures:-
Years.
1915-16 to $1923-24$

No. of notices.
173

No. of $t$ fine
12

Forfeiturea.
1
49. Holdings of Agriculturists.-The following figures show the numbers of holdings of various sizes. Figures prior to 1916 are not available for Bardoli Taluka and for Valod they are not available prior to 1920. The figures cannot be said to be accurate as one holder may have other holdings in different villages. But they roughly show that there were no great fluctuations in the number of holdings of all kinds. The greatest number of holdings is in the first batch upto five acres, wherein the number has risen by 200-a very small increase on the whole :-

Bardoli.


The area of land held by agriculturists and non-agriculturists in the 'ast five years is shown in the statement below :-

| Yeara. | Agrioulturista. |  |  | Non-agricalturists. |  |  | Total. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Acres, | Assessment. | Average smount per acre. | Acres. | Asbesgment. | Average amount per acre. | Acres. | Assessment. | Average amount per acre. |
| Bardoli. |  |  |  |  |  |  |  |  |  |
| 1919-20 | 70,686 | $\xrightarrow{\text { 3,09,706 }}$ |  | 0,789 | Re. | Re. ${ }_{\text {ar }}$ | 80,375 | ${ }_{\text {8,52,609 }}^{\text {Re. }}$ | ${ }_{4}^{\text {Re. a. }}$ ¢ ${ }_{2}$ |
| 1920-21 | 71,771 | 2,32,336 | 3 | 10,165 | 42,808 | 4314 | 81,936 | 3,75,144 | 493 |
| 1921-22 | 70,750 | 3,28,786 | 4104 | 10,200 | 43,854 | 440 | 80,950 | 8,72,640 | 497 |
| 1922-23 | 69,965 | 3,81,454 | 572 | 10,347 | 43,034 | 426 | 80,312 | 4,24,487 | 6 4.6 |
| 1923-24 | 68,213 | 3,28,222 | 4153 | 11,052 | 43,874 | 3156 | 77,264 | 7,72,097 | 91510 |
| Valod. |  |  |  |  |  |  |  |  |  |
| 1919-20 | 31,025 | 95,222 | 311 | 13,178 | 35,319 | 2114 | 44,203 | 1,30,941 | 215 |
| 1920-21 | 30,699 | 94,134 | 311 | 13,500 | 36,780 | 2117 | 44,199 | 1,30,914 | 2154 |
| 1921.22 | 31,852 | 97,640 | $\begin{array}{lll}3 & 1 & 1\end{array}$ | 12,270 | 33,327 | 2116 | 44,122 | 1,30,967 | 2156 |
| 1922-23 | 31,886 | 97,509 | 310 | 12,230 | 33,305 | 2117 | 44,116 | 1,30,814 | 2165 |
| 1923-24 | 31,158 | 97,046 | 319 | 12,943 | 33,526 | 285 | 44,101 | 1,30,572 | 215 |

50. The following points deserve notice (1) In the case of Bardoli Taluka the area held by agriculturists is roughly 7 times that held by non-agriculturists-but in Valod non-agriculturists have comparatively more land in their possession than the agriculturists. This is due to the large part of the population being Kaliparaj Chodhras, advantage of whose ignorance has been taken by the scheming kaniamoney lenders. (2) The average of assessment on the land held by non-agriculturists is practically the same as that on agriculturists' holdings.
51. The above figures also bring out clearly the social condition of the Taluka. More than two-third of the land is in the hands of those who cultivate it. There are 3,958 and 1,976 holdings of from 6 to 25 acres and these chiefly represent the great body of cultivators. There are some wealthier land owners.

Some wealthier land owners with holdings between 101 to 500 acres and the number of such is 14 and 26 respectively in Bardoli and Valod. There are also comparatively wealthier land holders holding land more than 25 acres and upto 100 acres. The holdings below 6 number 7,463 and 2,916 and this class probably consists of agriculturists who come from the labouring class and who besides cultivating their own land also cultivate as tenants the lands belonging to othere.
52. Appendix O shows that the labourers in the whole Taluka inclusive of Peta numbered 34,445 in 1921 while tenants and sub-sharers were 31,604 . The other land holders numbering 1,111 -a number which very nearly approximates to the number of large holdings given below which is 851.
53. Grouping.-I propose that Group I of Mr. Fernandez should be maintainea omitting the villages of Kuvadia, Kharad and Chitra and adding Akoti, Afwh; Khoj, Kantali, Gotasa, Palsod, Pardi-Kadod, Bamni, Bbarampur, Ruwa, Vankaner, Samthan and Sarethi: I propose the omission of Kuvadia, Kharad and Chitra as these villages are situated in the extreme south corner of the Taluka, the land is greatly cut up by the in-roads that the river has made and access to the main road running between Bardoli and Jalalpore is very difficult. The land also seems to be of a somewhat inferior kind to the surrounding tract. With regard to the additions of villages to this group which I propose I do not find anywhere in -Mr. Fernandez's report any reasons given for their omission from this class. The soil in these villages is certainly in no way inferior to the soil in the tract that form the major portion of this tract and with regard to facilities of market they enjoy the same benefits as other original villages in this group. There is a good road connecting Vankaner to Bardoli and the crossing of the river from this side is in no way difficult during the fair season. The other villages in the North of Bardoli which I propose for inclusion in the group enjoy the same benefits in respect of road and market facilities as the others (originally included) in this group. The road from Bardoli to Kadod is semi-pakka now and the District Local Board is gradually putting this road in order. In the fair season this road certainly affords as much facility of traffic to these proposed villages as any other in the group. My first group would therefore be constituted of these yillages.
54. With regard to Group II, I propose that it should be constituted of the remaining villages of Mr. Fernandez's Group II with the addition of Kharad, Chhitra and Kuvadia of Group I and Madhi, Surali, Manekpor and Kamalchhod of Group III, of Mr. Fernandez. Madhi and Surali are quite close to the Railway Station and have very good marketting facilities. Madhi is gradually growing into importance and a new gin and press have recently been set up there. Manekpor is situated just to the west of the pakka road connecting Valod with Madhi station. It has also good marketting facilities and the soil is in no way inferior to that in other villages of this group. Kamalchhod is rising in importance now. There is a pakka road connecting it with Madhi station which also has grown up considerably during recent years*and with Kiher station which is a newly opened station. At Kamalchhod there is a ginning factory and a weekly Bazar is held. It is a centre for money lending classes and the marketting facilities on account of its nearness to Madhi and Kiher stations are good. On these considerations I propose the inclusion of these four villages in Group II.
55. With regard to Group III, I propose that it should consist of the villages of Mr. Fernandez's Group III minus the four villages which are proposed for inclusion in Group II with the addition of Buhari, Dadaria, Degama, Goddha, Golan and Hathuka. Bhuhari is a growing place and is a market place in itself. There is a ginning factory working there and the place has a weekly Bazar, where pople from the far-off distances gather on the Bazar to sell their articles. The place has quite an importance of its own. As regards Degama, it has got the facilities of Madhi, Valod road and Madhi and Kiher stations and is in no way inferior to Butwada, which is in Group III of Mr. Fernandez. Dadaria, Goddha, Golan and Hathuka are round about Buhari and enjoy the marketting and ginning facilities owing to their nearness to Buhari.
56. The remaining 24 villages will remain in Group IV. It may be added that in proposing the above grouping I have entirely left out of consideration any caste considerations, and have taken the marketting and other relevant factors in coming to a conclusion. I should however add that even if caste considerations were to prevail there would be no change. in the grouping as the Kaliparaj people also have shown signs of fast improvement during recent years. The temperance movement of two years back was a sure indication in that direction then, the increased demand for schools from this class is another sure indication of the progress made by these people. The present Chodra or Gamta presents better clad appearance than . his forefathers did. This is a sure sign of the improvement that has taken place in this class of people.
57. Proposals for Revision.-The following conclusions necessarily suggest themselves from what has been stated above, viz., that the climate of the Taluka and Peta is on the whole healthy, that the rains have been sufficient and well distributed, that the population has increased, so has wealth if we are to judge by the new and well built pakka houses that have sprung up all over and that are still springing up, that even the Kaliparaj people who at one time formed such a backward and ignorant class in the Taluka and Peta have greatly improved their condition that trade also increased, that prices of food grains have risen abnormally, that cotton has been realising large prices to the agriculturists, that there has been an increase in carts and cattle especially milch, that agricultural wages have doubled. What however strikes one most is the fact that the prices of land have risen steadily and rapidly and that the assessment represents a steadily decreasing proportion of the rent.
58. The position of the agriculturist as ascertained at present may be stated to be as under:-
59. In 1901-11 Jarayat land in Group No. I which was worth Rs. 106 is now worth Rs. 368. If its rent in $1910-11$ was Rs. 8 . it is Rs. 15 now. If the land be Rice its value in Group I has risen from Rs. 222 to Rs. 795 and rent from Rs. 21 to 29. Even the other group villages show an increase in the same way. (Vide please statements above.)
60. In 1901 - 11 Jarayat land was sold for $24 \cdot 27$ times the assessment and let for $2 \cdot 03$ times the assessment. In 1918-24 it was sold for 77.21 times the assessment and let for $\mathbf{3} 44$ times its assessment. The increases are 220 and 69 per cents.

Ca 10-4+
61. Rice land sold for $19 \cdot 56$ and let for $1 \cdot 85$ times the assessment and in the last period for $72 \cdot 01$ and $2 \cdot 70$ times the assessment respectively, has an increase of 267 and. 45 per cent.
62. The figures for the other groups can be seen from the statements given above in this connection. It will be noticed that the assessment has become comparatively lighter in all the groups during the last period. Now considering the matter from the point of view of Government it can easily be gathered that it has been receiving proportionately less than what it should actually have received. In the first period 1901 to 1910-11 in the first group of villages Government was levying an assessment on Jarayat land equivalent to nearly half of the rent. It is now levying nearly one-third. Supposing the assessment had been levied in kind, then if a field of one acre grew cotton at the average price prevailing for that period, viz., 1905-14 Government would have taken 24 seers and 12 Chhataks for their Rs. 6. For the value of 24 seers and 12 Chhataks at the average rate for 1915 to 1924 Government would have taken Rs. $10 \%$. If the field had grown Jowari Rs. 6 would have represented 74 seers and 10 Chhataks the price for which on 1915 to 1924 average would be Rs. 9-3-0. The figures for rice in husk work as under-for Rs. 12 then Government would have received Rs. 16-15-0. This would be the case in Group I.
63. In the case of villages in Group II the amount of assessment, viz.; Rs. 5 for Jarayat and Rs. 10-8-0. Rice would come to Rs. 8-7-0 for cotton, Rs. 7-10-0 for Jowari and 14-13 for rice respectively. In Group III for Rs. 4 and Rs. 9 respectively the figures would be Rs. 6-12-0 for cotton and Rs. 6-2-0 for Jowari and Rs. 12-11-0 for rice. In the same way in Group IV villages where the Jarayat rate is Rs. 3 and rice 7-8 cotton would be Rs. 5-1-0, Jowari 4-9-0 and rice 10-9-0 respectively. For Valod in Group III the figures for cotton would be $7 \cdot 14$ and for Jowari Rs. 6 and for rice 14-5, and in Group. IV they are 5-15 for cotton, Jowari Rs. 4-8 and rice Rs. 11-15 respectively. Thus it is clear that if Government had merely collected assessment in kind instead of in cash the amount of assessment would have risen automatically.
64. The percentage increase in the groups "at the above figures taking the prices of Jowar and cotton for Jarayat lands and Rice lands are as under :-

|  |  |  |  |  | Jarayat. |
| :---: | :--- | :--- | :--- | :--- | :--- | Rice.

65. The similar increases yielded by a comparison of prices taken for the period during the lst decade after the first Revision Survey with the prices prevalent during the last decade one for Jarayat land $124 \cdot 1$ for Bardoli and for Valod $139 \cdot 43$ and for rice land $65 \cdot 12$ for Bardoli and $80 \cdot 23$ for Valod. I also consider this from another point of view. I have pointed out above the areas under the main crops. After the introduction of the first Revision Settlement the area under Cotton Jowari and rice in 1897-98 was respectively $22,181,34,080$ and 18,612. Average yield per acre as ascertained from enquiries made of the officers of Agricultural Department in the district is as under:-Raw cotton 6 maunds per acre, 240 lbs. Jowari 12 maunds 480 lbs. and rice 25 maunds $1,000 \mathrm{lbs}$. There is no reason to believe that the average yield at the time of the I Revision Settlement was less than this. If anything it was more then. Converting this into money for the acres under the various crops the figures for cotton, Jowari and rice at the price that prevailed at the first decade, i.e., 1895 to 1904 comes to cotton Rs. 4,21,439+Jowari Rs. 4,77,120+Rice Rs. 4,83,912=Rs. 1,382,471. At the prevailing prices of the same areas this amounts to cotton Rs. $10,64,688+$ Jowar Rs. $9,88,320+$ Rice Rs. $8,37,540=$ Rs. $28,90,548$. This represents a clear increase of $15,08,077$. This means that whereas Gevernment has during the various periods been charging for its share of the produce, the same rates of assessment, the agriculturists have been getting this increased difference, due to the variations and to the gradual rise of prices during the intervening periods. Now the amount of assessment of this acreage of land is roughly Rs. $3,00,000$. If the assessments
were to be increased by 33 per cent. the increase over the present assessment of Rs. $3,62,000$ in round figures would be Rs. $3,62,000+1,20,666$, $i . e ., 1,20,700$. This amount of Rs. $1,20,700$ represents a withdrawal of nearly 9 per cent. out of the net increase of $\mathbf{1 0 9}$ per cent. of the present'realizations as shown above. This consideration as also the considerations arising out of the increased percentages due to Government on account of the rising prices as shown above, clearly indicate an increase of 33 per cent. If the agriculturists had been getting all this extra money due to rise in prices then the margin for the increased assessments would. certainly be far greater. But along with that there is the cry of increased cost of production and the general increase in the cost of living which has to be taken into consideration. Looking to the first factor the statement that I have attached above would show that an agriculturist. has to pay more for his labourers, for his plough and for his cattle and their maintenance. This factor cannot certainly be ignored. The other factor that also cannot be ignored is as regards the pitch at which the present high prices would be prevailing particularly of cotton. We shall be fixing the assessments for a period of 30 years from now. It is very difficult to say what will happen as regards cotton prices as they depend so largely not upon merely local circumstances but upon the conditions prevailing in the world market. Some allowance for both these factors is essential. The percentage of increase is 109 . But we are tied down by a limitation. We cannot increase more than 33 per cent. of the assessment or 50 per cent. of the rent.
66. Looking therefore to the above figures especially the proportion which the assessment bears to the amount of leases and particularly bearing in mind the great uncertainty of prices for cotton and the fact that the present settlement would be for a period of 30 years from now an increase of 25 per cent. over the present rates would be quite fair and equitable. I, therefore, propose the following rates :-

|  |  |  |  | Preeent Rates. | Proposed Rates. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Jarayat | I | .. | $\cdots$ | .. 6 | 78 |
|  | II | $\cdots$ | $\cdots$ | .. 5 | 64 |
|  | III | . | $\cdots$ | .. 4 | 50 |
|  | IV | $\cdots$ |  | .. 3 | 312 |
| Rice | I | $\cdots$ | $\cdots$ | .. 6 \} | 781 |
|  |  |  |  | . 6 | 781 |
|  | II | $\cdots$ | .. | $\left.\begin{array}{lllll}\therefore & 5 & \\ & 5 & 8\end{array}\right\}$ | $\left.\begin{array}{ll}6 & 4 \\ 6 & 14\end{array}\right\}$ |
|  | III | .. | .. |  | 50 |
|  |  |  |  | 5 ) | 6.4 |
|  | IV | .. | .. | $\left.\begin{array}{llll} \\ \cdot & 3 & 0 \\ 4 & 8\end{array}\right\}$ | 312 5 |

As regards Bagayat rates, I do not propose any changes in view of the above figures (multiples of assessment worked out above). Details are given in Appendix L .

The concessions with regard to maffi-kachha should be continued.

> I have the honour to be,
> Six,
> Your most obedient servant,

M. S. JAYAKAR,<br>Assistant Settlement Officer, Bardoli Taluka (including Peta Valod), district Surat.

Rainfall recorded at Bardoli Taluka,

A.

District Surat.


## APPENDIX A.

Rainfall recorded at Bardoli Taluka, District Surat.


## Kenuarkis with regand to the character of the Seasons at Surat, Bardoli and Valod during the years 1913 to 1923.

1913 : The total fall of the year was about the avarage. Rains started early in June but the fall being very hespy kharit sowings were completed only in July under the favourable conditions of the month. In August and September the rainfall, though below average, was well distributed and the crops continued to be in a satisfactory condition and made a good progress. The monsoon practioally terminated from October but the rabi sowings were done on the strength of previous moisture, A good shower later in the season would have been very beneficial for the young rabi plante but none such was reoeived. The season was a good kharif and faikly good rabi.
1014:-Rain during the year much exceeded the usual quantity. The commencement of monsoon was usual and the fall was sufficient to complete tharif sowings, and to start transplantation. July rain was much above the average, retarding agricultural operations thereby in many places. A break was urgently required. The desired break occurred in August and the crops generally throve well. September rain was abnormally heavy threatening the standing kharif crops and checking rabi sowings in places. There was only light rain in October. Rabi crops, however, made fair progress as there was good previous moisture. The season on the whole was good, though it was somewhat marred by excess of prain in places.

- 1915 :-Aggregate fall of the year was ahout two-third of the average. The regular monsoon broke out during the last week in June but the fall being neasonable and sufficient kharif sowing including cotton were started. July rains were just enough to complete sowings but was defective for transplantation everywhere. The rains during the next month were very defective at Surat and the crops suffered for want of sufficient moisture. At Bardoli and Valod, however, they did not materially suffer as the rain Want of sumcient moisture. At Bardoli and Valod, however, they did not materially sumer as the rain
was fairly heav. In September the rain was deficient in all the talukas and crop ahowed signs of distress nearly everywhere. Octoher rain was heavy and proved useful to the survived kharif orops and to start rabi sowings. There was no further rain except a few cente at Valod. The rabi orops were thus stunted in their growth due to insufficient moisture. The season on the whole was fair though at Surat the insufficiency of rain considerably reduced the yield of the rice orop.
1916 :-With the exeeption of Valod where the total fall of the year was defective the rains at the other two places were much above the average. The monsoon set in in June but the fall being much below average places were much above the average, The monsoon set in in June but the fall being much below average
especially at Surat sowings had to be postponed to July when they were completed. The rain in this month too (i.e., July) was again deficient and transplantation of rice was rotarded in many places. The deficiency was made good in August when ample rain was received. This rain enabled completion of transplantation and gave an impetus to the development of the crops. In September the rainfall was considerably in excess of the average. It damaged crops in places but it was on the whole useful in providing moisture for the standing crops as also for sowing of rabi crops. Octobor rain being, however, again heavy and damaged the rice crop. Rabi sowings were vigoroualy pushed on as there was sufficient moisture in the soil left by heary rains during the preceding months. There was no further rain and none was needed. The season on the whole was fairly satisfactory though the deficiency of rains in the beginning and their excess later on marred prospects in places.
1017 :-Rain during the year was nearly fifty per cent. in excess of the average. Heavy rain was received in May. The fall in June was sufficient for kharif sowings. In July the fall was below average but being seasonable and well distribated the crops were making good progress. They were further favoured by copious rains in August. The rains were very heavy in September and remarkably so in October with the result that the standing orops were levelled to the ground in many places, the grain was cliscoloured and the out-turn was reduced. The absence of rain in November and December was rather to be desired than otherwise. This gave relief to the standing crops. The rabi sowings made. did generally well on the strength of the previous moisture and rabi crops yielded fairly well. The season on the whole turned out to be only fairly good as the excess of rain spoiled the situation in many places.
1918 -The total fall of the jear was considerably in defect of the average. The monsoon set in during the third week of June but the rains being very much defective kharif sowings were postponed to July, when they were completed under the seasonable fall of the month. The rainfall in August was fairly heavy at Valod where the crops did well. In Bardoli it was only one-third of it with the result that the crops in these two talukas auffered. In September the rainfall amounted to a few crops the crops in these two talukas suffered. In September the rainfall amounted to a few crops
while it was totally absent subsequently. As might be expected the kharif crops withered away in vast While it was totally absent subsequently. As might be expected the kharif crope withered away in vast
areas and were saved only with the help of irrigation. Similarly rabi sowinge were impossible except in places with irrigation facilities. The season on the whole was distinctly poor.
1919|:-The year's fall was about the normal exeept at Bardoli where it was slightly defective. The fall in June was geinerally inadequate but that in the last week was useful to push on kharif sowings. Under the good rain in July the sowings and transplantation were satisfactorily done. From August onwards the rains were on the whole favourable and both the kharif and rabi orops progresser well without any the rains were on the whole favonrable and both the kharif and rais
1920:-Rain during the year wos much under the average. The monsoon opaned about the middle of June. The rains were fairly adequate at Surat and Bardoli where sowings were commenced in earnest. At Falod, however, the rains were oniy half the normal and here sowings had to be postponed to July. The rains in this month (July) though below average were on the whole satisfactory and sowings and transplantation were generally completed. The rains in August were just enough for the crops at Bardoli and Valod but fell short of requiroments at Surat. In September the rainfall was fairly heavy at Bardoli and benefitted the crops in that taluka but in Surat and Valod Talukas it was very deficient at Bardoli and benefitted the crops in that taluka but in Surat and Valod Talukas it was very deficient
and cropa suffered and rabi sowings were retarded. The total absence of rain from the end of September, howevar, tokd serioualy on the well being of the kharif crops and rabi seedlings were seriously checked in their growth. As might be expected both the kharif and rabi gave a poor return. Season on the whole was thus poor.
19.21 :--Total fall of the year was considerably above the average. Rain in June was too meagre to be of any use for general sowings. In July on the other hand it was very heavy and checked sowing and transplantation in places. In Angust the rainfall wes moderate and conditions being generally favourable the young crops fared well generally. In September the rains were double to triple the average and proved injurious in places. The absence of rain in October was beneficial as it gave relief to the standing crops and enshled rabi sowings to bo undertaken. The total absence oontinuing, however, subsequently told serioualy on the rabi orops which were reduced in yield consequently. Owing thus to the uneven distribution of the rains the season turned aut to be only moderate.
1 d 22 :-Rain during the year was slightly above the average. The monsoon broke out in June and gave sufficient rain for kharif sowings though this proved excessive in places. July rain was general and sufficient and sowings and transplantation wore completed smoothly. The fall of August was meagre but with the previous moisture available it proved generally sufficient to maintain the orops. Rain in September was more than double the average. It was, however, well spread and the crops throve well. The break from the leat week in September allowed the rabisowings and the seedlings fared well on the strength of previous moisture. With a few crops in October the monsoon withdrew with the result that the rabi orops lacked moisture in their latter stage of development. The gerson on the whole was fairly good.

1923 :-The gear's fall was only two-thirds of the normal at Surat but alightly below the average at Bardoli and Valod. There was no rain in June. Monboon opened in July and the rains being copious bowing were completed and tramplantation commenced during the month. The rainfall in Auguat wad much below the average but was still just enough to maintain the crops. In September the rainfall was only half the usual amount while it totally withdrew from the end of this month (Soptember). An may he hali the usual amount while it totally withdrew from the end of this month soptember). An may he expected the Kharif crops suffered owing to deficiency of moisture while rabi sowing were pousible
only in places with irrigation facilities. The season on the whole was thus moderate for the kiarif crope and poor for the rahi crops.
(Signed) HAROLD H. MANN,
Director of Agriculture.

## APPENDIX B.

Details of cullivation and crops in the villages of Bardoli Taluka and Peta Mahal Valod of the Surat District:


## APPENDIX C.

Details of population according to the occupation as per Census of 1921 for Bardoli Taluka.

| Agricultural Popalation. |  |  |  | Non-egricultural Population. |
| :---: | :---: | :---: | :---: | :---: |
| Having interest in land. |  | Labourers.$3$ | Total. <br> 4 |  |
| Tenants and Sub-sharers. $1$ | Other land holders. $2$ |  |  | 5 |
| 21,605 | 762 | 23,312 | 45,678 | 13,613 |
| 9,999 | 349 | 11,133 | 21,481 | 8,136 |
| Total. .. 31,804 | 1,111 | 34,445 | 67,160 | 20,749 |
|  |  |  |  |  |

## APPENDIX D.

Agricultural stock of the Government villages in the Bardoli Taluka (including Peta Mahal Valod), during the year 1924-25.


| Number of villages. | Horses and pories (including foris). | Sheep. | Goata. | Plough. |  | Carts. |  | Cropped tand per pair of cattie. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Small. | Large. | For passengera. | For produce and goods. |  |
| 1 | 18 | 14 | 16 | 18 | 17 | $18 \cdot$ | 19 | 20 |
| 138 | 248 | 4,150 | 15,422 | , 0,285 | - 11 | 1,488 | 4,352 | . $\cdot$. |
| 138 | 286 | 4,144 | 17,514 | 7,561 | - 1 | 1,713 | 5,446 | .... |
| 188 | 817 | 2,077 | 18,810 | 7,958 | 8 | 1,813 | \$.601 | ... |
| 188 | - 300 | 2,978 | 17,868 | 7,056 | 4 | 2,041 | 5,398 | .... |
| 187 | 382 | 4,278 | 18,232 | 7,984 | 84 | 2,110 | 6,055 | 107 |

APPENDIX E.
Shops, industries, etc., in the villages of Bardoli. Taluka and Peta Mahal Valod, District Surat.


## APPENDIX $F$.

Wells Budkis Tanks and other sources of water supply in the Government Villages of the Bardoli Taluka (including Peta Mahal Valod) of Surat District.


Abstract of appendix F, 1922-23.

M. S. JAYAKAR,

Assistant Settlement Officer;'
Bardoli Taluka.

G.

Taluka and Peta Mahal Valod of the Surat Collectorate.


APPENDIX


G-continued.

| to 1917-18. |  |  | 1918-19 to 1924-25. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sale price. | Number of times the assessment represented by the price. | Number of transactiong. | Ares of land sold. | Assessment. | Sale prico. | Number of times the assessment represented price. price. | Number of transactions. |
| Bs. a. |  |  | A. g. | Rs, a. p. | $\mathrm{Ba}, \mathrm{a}$. |  |  |
| 21,137 2 | 46.80 | 38 | 16925 | 590110 | 58,208 10 | $88 \cdot 60$ | 40 |
| 11,297 0 | 55.10 | 19 | s\% 15 | 141 D 0 | 15,218 0 | 107.45 | 14 |
| 4,268 0 | $23 \cdot 43$ | 10 | 7834 | 32080 | 19,76s | 61.68 | 14 |
| 1100 | 81.42 | 1 | 35 | 1880 | 2,639 0 | 198.15 | 7 |
| $\cdots$ | ... | . | 18 | 12100 | 4750 | 37-62 | 1 |
| 7.7170 | 36.25 | 18 | 5022 | 204100 | 11,896 | 68.18 | 27 |
| 0.1405 | 71.04 | 10 | 2014 | $94 \leqslant 0$ | 11,869 0 | 157.65 | 12 |
| 38.5858 | 37.25 | 45 | 12716 | 441140 | 28,848 0 | 58.08 | 26 |
| 3.199 | $20 \cdot 82$ | 2 | 8911 | 14150 | 8,041 4 | $56 \cdot 88$ | 4 |
| 8,437 0 | $89 \cdot 20$ | 11 | 988 | 4860 | 8,0720 | 163.48 | 5 |
| 14.138 | 92.01 | 44 | 36922 | 1,174 140 | 61,466 12 | 48.80 | 65 |
| 34,552 8 | $59 \cdot 67$ | 38 | 9585 | 29160 | 85,921 18 | 128.29 | 26 |
| 9.0210 | $55 \cdot 11$ | 6 | 2588 | 111150 | 15,578 0 | $180 \cdot 89$ | 7 |
| 8.0480 | $67 \cdot 06$ | 12 | 508 | 171150 | 38,449 12 | $104 \cdot 54$ | 23 |
| 8,507 4 | 48.89 | 9 | 39 | 16200 | 11,054 0 | 68.29 | 6 |
| 1.4000 | 74.06 | 3 | 688 | 2970 | 7,7650 | 263.78 | 4 |
| $7.590 \quad 7$ | 52.34 | 0 | 816 | 6510 | 6,290 0 | 81.88 | 6 |
| 4,854 0 | 68.78 | 0 | 3036 | 13460 | 18,000 0 | 138.95 | 4 |
| 4,380 0 | 19.59 | 6 | 2312 | 77110 | 4,768 0 | 61-50 | 3 |
| .. | ... | .... | 688 | 1600 | 1,000 0 | 100.00 | 2 |
| 23,071 0 | $56 \cdot 68$ | 24 | 7089 | 23930 | 17,019 12 | $76 \cdot 60$ | 8 |
| 8.284 | 88.00 | 16 | 1437 | 6520 | 0,482 | 90-68 | 10 |
| 21,772 0 | 28.87 | 29 | 89888 | 861120 | 34,282 18 | 39.78 | 30 |
| 9,292 8 | 10.53 | 85 | 20810 | $697 \leqslant 0$ | 21,7168 | 31.16 | 75 |
| 11,346 12 | 51.00 | 21 | 7210 | 267100 | 22,826 0 | 84.34 | 38 |
| 69.1930 | 92. 14 | 68 | 8919 | 35500 | - 68,59714 | $170 \cdot 14$ | 48 |
| $8,16,509 \quad 9$ | $30 \cdot 02$ | 639 | 2,12683 | 8,09170 | 7,01,154 9 | $94 \cdot 07$ | 569 |
| 6,785 4 | 86.00 | 19 | 14 21 | 5070 | 8,996 4 | $178 \cdot 16$ | 16 |
| 10.48210 | 16.55 | 54 | 319 28 | 1,107 20 | 42,487 5 | 38.38 | 104 |
| 12,889 | 24.79 | 44 | 13738 | 464180 | 20,800 12 | 43.67 | 54 |
| 12.0980 | 48.88 | 28 | 9500 | 315150 | 15,802 0 | 50.00 | 87 |
| 12.2950 | $4 \cdot 67$ | 18 | 238 | 85110 | 4,706 0 | 84.08 | - 8 |
| 2.6670 | 47\%8 | 8 | 2710 | 760 | 5,707 0 | $76 \cdot 27$ | 5 |
| 39,686 0 | 61.19 | 115 | 3605 | 1,197 10 | 87,085 0 | 78.50 | 122 |
| 35,247 8 | $33 \cdot 44$ | 84 | 22836 | 70850 | 60,857 8 | 88.77 | 55 |
| 14,584 12 | $41 \cdot 40$ | 41 | 28516 | 88110 | 82,050 12 | 101.08 | ${ }^{1}$ |
| 17,889 0 | 48.59 | 21 | 11012 | 386 - 0 | 21,067 0 | $62 \cdot 88$ | 21 |
| 2,835 0 | 45.00 | 8 | $14 \cdot 15$ | 58.0 | 4.886 | $91 \cdot 81$ | 4 |
| 10,348 | $80 \cdot 64$ | 21 | $82 \cdot 8$ | 28040 | 14,806 8 | $66 \cdot 80$ | Ir |
| 4,441 0 | 70.21 | 8 | 2287 | OS 140 | 10,860 0 | 170.01 | 10 |
| 0,087 0 | $97 \cdot 81$ | 12 | 8735 | 1180 | 21,744 12 | 188.39 | 18 |
| 16,82s 0 | $24 \cdot 14$ | 48 | 37014 | 1,174 150 | 05,888 | 58.04 | 42 |
| 28,699 0 | 68.00 | 11 | 728 | 26100 | 85,045 0 | 139.41 | so |
| 1,800 0 | 108.00 |  | 155 | 480 | 9,289 0 | 174.34 | 11 |
| 64,062 | 32. 30 | 242 | 42411 | 1,180 110 | 88,977 | $75 \cdot 34$ | 184 |
| 65,626 | $44 \cdot 20$ | 00 | 2540 | 80770 | 48,820 8 | 59.86 | 68 |
| 2,652 | 36.60 | 13 | 14124 | 288140 | 28,062 0 | $7 \cdot 01$ | 21 |
| 3,80,269 0 | $88 \cdot 17$ | 810 | 3,08685 $\ldots$ | $0,433 \wedge 0$ $\ldots$. | $0,78,8681$ | $\cdots$ | $\cdots 82{ }^{824}$ |

[^0]| Serial <br> No. in AppendixL. | Name of village. | 1901-02 to 1010-12. |  |  |  |  |  | 1011-12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Area of land sold. | Assessment. | Sale price. | $\begin{gathered} \text { Number of } \\ \text { the amesess- } \\ \text { mont repre } \\ \text { mentec } \\ \text { by hto } \\ \text { price. } \end{gathered}$ |  | Ares of land sold. | Amomment. |
| 136 | Growp IV. <br> Vanskui <br> Total of Talaka <br> Talod Mahal Group III. | $\begin{aligned} \text { A. } & \mathbb{E} \\ \text { gi2 } & \mathbf{2} \end{aligned}$ | $\begin{array}{lll} \text { Rs. } & \text { A. } & \text { p. } \\ \text { sice } & 8 & 0 \end{array}$ | $\begin{array}{rr} \text { Hs. } & \text { a. } \\ 8,159 & \text { 0 } \end{array}$ | $10 \cdot 4$ | 81 | $\begin{array}{cc} \text { A. } & \text { E. } \\ 407 & 14 \end{array}$ | Bs. a. p. <br> 90010 |
|  |  | 7,501 82 | 26,851 50 | 6,30,208 2 | 28•80 | 1,704 | 8,045 84 | 82,180 8 0 |
|  |  |  |  |  |  |  |  |  |
| 79 | Boldhe | 8421 | 261150 | 8,365 0 | 82.88 | 36 | 984 | 12190 |
| 888 | Butwada | 161 | 568110 | 17,297 0 | 81.28 | 25 | 120 | 43770 |
|  | Delwada | 18 | 05180 | 8,696 0 | 58.73 | 10 | 88 | $\begin{array}{llll}38 & 0 & 0\end{array}$ |
| 86 | Inma | 4526 | 14880 | 8,308 8 | 23.85 | 12 | 200 | 8100 |
| 68 | Kamalchhod | 42028 | 1,287 16 | 48,667 10 | 88.95 | 100 | 11411 | 40860 |
| 98 | Khambhla | 12888 | 59000 | 7,588 | 19.45 | 24 | 2087 | 609 n 0 |
| 97 | Nansad | 10012 | 28280 | 5,084 0 | 17.81 | 18 | 6816 | 19850 |
| 101 | Pavran | 5628 | 20240 | 6,578 0 | 32.52 | 11 | 4125 | 14810 |
| 104 | Shalupor Valod | 48 | 15120 | 3950 | 25.01 | 1 | 1923 | 8400 |
| 106 | Biker | 54.4 | $184 * 0$ | 4,900 0 | 80.41 | 10 | 784 | 29830 |
| 105 | Syadla | 10611 | 32350 | 7,424 0 | 02. 98 | 46 | 1538 | 59110 |
| 108 | TIghra Valod | 1315 | 4430 | 1,543 0 | $35 \cdot 62$ | 8 | 1838 | 6230 |
| 109 | TYtwe | 218 0 | 09600 | 12,100 0 | 17.51 | 78 | 12588 | 412130 |
| 110 | Tokarws | 21611 | 583 0 0 | 6,013 0 | 9.74 | 48 | 684 | 42280 |
| 111 | Valod Krabo | 3380 | 70870 | 14,082 4 | 17.74 | 61 | 29228 | 095150 |
|  | Total of Group <br> Average per acre. . | 1,962 27 | 6,810 100 | 1,41,828 0 | 21*41 | 437 | 1,216 | 8,954 © 0 |
| 214 | Adyapore | 2816 | 7180 | 2,163 12 | 30.26 | 7 | 3620 | 1171 |
| 115 | Agarala | 588 | 1400 | 556 | 89. 64 | 2 | 25 | 60 |
| 216 | Alghadh | 795 | 176.30 | 2,414 0 | 18.70 | 18 | 740 | 16460 |
| 117 | Anmbuch | 0481 | 17820 | 2,618 0 | 14.88 | 12 | 97 32 | 22170 |
| 118 | Bahod | 5030 | 113 6 0 | 1,093 0 | 9.04 | 7 | 340 | 7100 |
| 119 | Bedkuwa | 27418 | 7100 | 5,288 4 | $7 \cdot 47$ | 49 | $180 \quad 7$ | 44140 |
| 120 | Bhimpore | 545 | 72.0 | 2,023 0 | 28.09 | 12 | 50 34 | 67150 |
| 82 | Buhar! | 2 sl | 7 3. 0 | 210 | $28 \cdot 21$ | 4 | 121 | 40 |
| 84 | Dadaria | 107. 26 | 28820 | 4,005 4 | 14.59 | 28 | 2038 | 69120 |
| 85 | Degama | 5042 | 2,080 880 | 48,586 8 | 20.85 | 75 | 36820 | 83300 |
| 121 | Dhamodis | 32836 | 82800 | 10,712 4 | 13.01 | 77 | 24811 | 084120 |
| 122 | Dumkthal | 28117 | 436 - 0 | 6,516 0 | 15.60 | 36 | 6518 | 112140 |
| 87 | Goddhe | 111 | 880 | 278 | 20'72 | 1 | 2427 | 67110 |
| 88 | Golan | 28620 | 41060 | 12,018 12 | 29.28 | 20 | 070 | 454180 |
| 89 | Hathuka | 4835 | 10200 | 8,436 ${ }^{6} 0$ | 88.68 | 8 | 6131 | 128120 |
| 128 | Jamania | 889 | 214120 | 8,078 0 | 24.80 | 14 | .... | $\ldots$ |
| 124 | Kalamkuwa | 304. 26 | 744120 | 9,5088 | $12 \cdot 88$ | 78 | 22411 | 58280 |
| 125 | Kabjod | 674 | 158120 | 3,522 0 | $22 \cdot 18$ | 16 | 130 | 292350 |
| 128 | Ebesay | 161 E | 324180 | 5,757 8 | 15'80 | 88 | 1029 | 22700 |
| 127 | KCher | 186 | 36088 | 3,405 4 | $0 \cdot 50$ | 86 | 1073 | 39970 |
| 128 | Eosambia | 3221 | 7488 | 1,246 0 | 10.72 | 10 | 6885 | 13000 |
| 129 | Kumblea | 1082 | 218100 | 2,698 0 | 12.29 | 16 | 5682 | 14470 |
| 180 | Mordevt | $125 \quad 25$ | 305120 | 2,770 0 | $9 \cdot 06$ | 22 | 12981 | 24800 |
| 132 | Nalotira | 13917 | 285 : 0 | 8,028 8 | $19 \cdot 07$ | 29 | 9638 | 20180 |
| 181 | Nalon | 18 12 | 25.0 | 6380 | 25.00 | 4 | 1414 | 2470 |
| 133 | Pelad Bubarl | 118 | 2730 | 7718 | $28 \cdot 87$ | 18 | \$ 22 | 22150 |
| 184 | Ranvari | 1611 | 369110 | 8,189 0 | 18.60 | 32 | 17615 | 39870 |
| 136 | Vedchbi | 4527 | 1110 | 6100 | $5 \cdot 47$ | 9 | 6031 | 146140 |
| 137 | Virpore | 18719 | 31740 | 8,608 0 | $11 \cdot 08$ | 14 | 2628 | 22100 |
|  | $\begin{cases}\text { Total } & \text { of } \\ & \text { Group } \\ \text { Aversge per acre. . } \\ \\ \text { Total on Valod Mabal }\end{cases}$ | 8,519 26 | 9,089 100 | 1,43,057 9 | $\ldots$ | 687 | 2,809 29 | 6,264 15 0 |
|  |  | ... | $\ldots$ | ... | 15.82 | .. |  |  |
|  |  | 5,482 28 | 14,850 40 | 1,84,885 15 | $19 \cdot 19$ | 1,164 | 8,826 83 | 10,210 60 |

G-ooncluded.

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Talukas.

Statement showing the selling value of lands in the village of Bardoli

$\mathbf{G}^{1}$.
Tahuka and Peta Valod of thé Surat Collectorate.


Ca 10 - ${ }^{-9+}$

| 1901-02 to 1910-11. |  |  |  |  |  |  | 1011-12 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8ertal <br> No. in <br> dixpen. | Name of village. | Area of land sold. | Acsesamment. | 8ale price. | Number of times the assessment represented price. | Number of transac. tlons. | Area of land sold. | Assesament. |
| $\begin{array}{r} 52 \\ 9 \\ 53 \\ 55 \\ \quad \quad 18 \end{array}$ | Bhamalya <br> Bharampore <br> Bhatlev Mots <br> Falod Mots | A. g | Ru. a. | Res, a. |  |  | A. 8. | Rr. A. |
|  |  | 28 | 2112 | 2,008 0 | 08-46 | 2 | 1117 | 1080 |
|  |  | 634 | 046 | 1,224 11 | $10 \cdot 12$ | 8 | 728 | 7118 |
|  |  | 69 | 387 | 1,214 18 | 35.838.55 | 10 | 737 | 61 \% |
|  |  | 11 | 90 | 32 - |  |  | 1022 | 985 |
|  |  | 1884 | 12714 | 2,310 0 | 18.08 | 8 | 1234 | 893 |
| 56 | Harlpura | 942 | 8582 | 20,09E 12 | 28.42 | 75 | 530 | 402 |
| 57 | Kalsad .. | 280 | 11412 | 2,656 0 | 23.18 | 7 | 788 | 8811 |
| 59 | Kanal .. | 1211 | 0212 | 1,154 4 | 12.44 | 11 | - 8 | 529 |
| 17 | Kantall .. | 3635 | 3572 | 4,134 4 | 11.57 | 19 | 2324 | 2223 |
| 60 | Karachks | 216 | . 2212 | 1600 | $7 \cdot 04$ | 2 | $28 \quad 2$ | 2280 |
| 61 | Ehall .. | .... |  | $\cdots$. | $\cdots$ | . | $\cdots$ |  |
| 18 | Khoj .. | 28 | $21^{*} 8$ | 1880 | 8.51 | 3 | - 16 |  |
| 08 | Elywad | 5.21 | 452 | 0698 | 21.61 | 11 | 818 | 738 |
| 67 | Mangrolira | 323 | 308 | 1,106 0 | $89 \cdot 23$ | 4 | 70 | 842 |
| 25 | Palsod .. | 11.38 | 821 | 1,080 0 | $28 \cdot 59$ | 8 | 711 | 6512 |
| 27 | Pardi Kadod | $25 \quad 20$ | $262 \quad 2$ | 7,380 0 | $28 \cdot 15$ | 21 | 1030 | 107 9 |
| 68 | Plparis .. | $\ldots$ | 14813 |  | .... | $\cdots$ | $\ldots$ | $\cdots$ |
| 36 | Ruwa .. | 1818 |  | $2,456!$ | 16.48 |  | 83 | 3011 |
| 39 | Samthan .. | 5410 | 56310 | $0,587$ | 17.01 | S1 | 8824 | 00115 |
| 41 | Sarethi .. | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | .. | ... | ... |
| 70 | Tajpur Khurad | .... | $\ldots$ | -... | .... | . | ... | : $: 6$ |
| 71 | Tajpore Valod | $\cdots$ | $\cdots$ | $\cdots$ | ...70.58 | . | $\cdots$ | 100 |
| 72 | TImbarwa | 114 |  | 8600 |  | 9 | $\begin{array}{rrr}13 & 1 \\ 7 & 9\end{array}$ |  |
| 78 | Uohharel .. | 1211 | 11214 | 1,052 0 | 17.20 | 7 |  | 8410 |
| 74 | Uttara .. | ... | 9415 |  | ....9.57 | .. | $\ldots .$ | $88.6$ |
| 75 | Vadhawa .. | $10 \quad 27$ |  |  |  | 8821 |  |  |
| 78 | Vageoha Kadod | 22.2 | $\begin{array}{ll}107 & 8 \\ 180 & 7\end{array}$ | $\begin{array}{ll} 2,220 & 0 \\ 8,401 & 4 \end{array}$ | $\begin{aligned} & 11 \cdot 10 \\ & 47 \cdot 17 \end{aligned}$ |  |  | 237281281 |
| 49 | Vankaner .. | 240 |  |  |  |  |  |  |
|  | Total of Group No. II. Average per acre .. <br> troup IIT. | 4128 | $0,550 \quad 2$ <br> .... | $\begin{gathered} 70,84911 \\ \ldots \end{gathered}$ | $8 \cdot 36$ | $811$ | 44721 | 8,844 $\quad$ g |
|  |  |  |  | 2,206 0 |  |  | - |  |
| 77 | Alla | 1012 | 604 |  | $36 \cdot 62$ | 10 | 2588 | 188 |
| 78 | Balda .. | - 39 | 73.0 | 49012 | 6.88 | 5 | 254 | 1238 |
| 81 | Bhensudb | 628 | 420 | 2800 | 0.81 | 6 | 62 | 870 |
| 80 | Bhatlavamal | .. | $\cdots$ |  |  | . |  |  |
| 80 | Hindolia .. | 125 | $\begin{array}{ll}10 & 0 \\ 18 & 8\end{array}$ |  | $\cdots .$. $20 \cdot 10$ | 1 | 011 | 10 |
| 92 | Junwant .. | $\geq 0$ |  | 2680 | 15.65 | 2 | 73 | 510 |
| 65 | Madhi .. | 1659 | 10218 | 1,530 0 | 14.88 | 12 | 2087 | 13812 |
| 68 | Manekpore | 1413 | 11212 | 2,047 4 | 28.48 | 11 | 86 | 2258 |
| 04 | Masad .. | 1731 | 1254 | 2,089 | $10 \cdot 68$ | 9 | 1822 | 1318 |
| 95 | Mlyawad . . | .. | $\ldots$ | ... | .... | . | 910 | 050 |
| 180 | Nagla .. | 018 | 90 | 60 | 22.00 | 1 | 136 | 1310 |
| H8 | Nasura .. | 08 | 480 | 5084 | 11.83 | 4 | 294 | 220 |
| 98 | Orgam .. | 25 | 181 | 5980 | 52.22 | 2 | 28 | 134 |
| 100 | Pardi Valod | 115 | 90 | 2000 | 28.88 | 2 | 038 | 08 |
| 102 | Rajwad .. | 1824 | 139 | 1,216 14 | 8.74 | 17 | 1592 | 1179 |
| 108 | Sejwad .. | 327 | 1862 | 5,018 0 | 26.60 | 88 | 1115 | 833 |

$\mathrm{G}^{2}$-continued.


APPENDIX

| 1001-02 to 1010-11. |  |  |  |  |  |  |  | 1011-12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sertal No. in Appen- dix $L$. | Name of village. | Area of land gold. | Aspenment. | Sate price. | Number of tlmes the ascesment represented price. | $\begin{aligned} & \text { Numbar of } \\ & \text { transac- } \\ & \text { tions. } \end{aligned}$ | Area of lend | Assenamerit |
| $\begin{array}{r} 107 \\ 69 \\ 111 \\ 112 \end{array}$ | $\begin{array}{lll}\text { Singod } & . . & . . \\ \text { Surall } & . . & . \\ \text { Uwa } & . . & . \\ \text { Wadbwanla } & . & . .\end{array}$ | A. g. | Re. B . | Ro. a. |  |  | A. 8. | Ra. a. |
|  |  | 1182 | 1024 | 2,883 0 | 28.85 | 10 | 20. | 1004 |
|  |  | $20 \quad 19$ | 1420 | 8,168 8 | 22.25 | 10 | \$1 17 | 231 |
|  |  | 522 | 437 | 0630 | 22.16 | 7 | 150 | 11510 |
|  |  | 1615 | 124.5 | 1,800 4 | 14.48 | 11 | 1088 | 7814 |
|  | Total of Group No. MI. Average per aere | 10488 | 1,868 0 | 22,754 2 | $\ldots$ | 177 | 26181 | 1,789 3 |
|  |  | $\ldots$ | .... | $\ldots$ | 16.68 | . | $\ldots$ | $\ldots$ |
| 135 | Group IV. | 710 | 410 | 5250 | 12.80 | 0 |  |  |
|  | Fanskut .. |  |  |  |  |  | 1023 | 1025 |
|  | Total of Talua. Dardolil | 87620 | 18,027 7 | 1,01,276 7 | 11.58 | 848 | 88719 | 8,889 |
|  | Valod Group No. 111. | 228 | 210 |  |  |  |  |  |
| 78 | Beidha .. |  |  | 4750 | 22-61 | 4 | .... | .... |
| 83 | Butwada .. | 1839 | 18018 | 2,761 | $21 \cdot 10$ | 11 | - 6 | 669 |
| 86 | Delwada .. | 5 | 894 | $\begin{array}{rrr}1,480 & 0 \\ 13 & 12\end{array}$ | $87 \cdot 19$ | 7 | 53 | 407 |
| 91 | Inma .. | 018 | 88 |  | $8 \cdot 92$ | 1 | .... | .... |
| 68 | Kamalchhod | 650 | 47818 | 13,510 0 | 28.52 | 61 | 2422 | 1812 |
| 93 | Khambhla | 287 | 200 | 2880 | $14 \cdot 9$ | 6 | 518 | 330 |
| 97 | Nansad .. | 025 | 50 | 750 | 15.0 | 1 | 312 | 240 |
| 101 | Pavran .. | 48 | 270 | 5810 | 21.51 | 3 | 730 | 488 |
| 106 | shapore, Valod .. | 1929 | 1506 | 2,083 8 | 17.84 | 9 | 828 | 690 |
| 100 | Siker .. -- | 98 | 699 | 1,542 | 22.02 | 8 | 157 | 11511 |
| 101 | Syadls .. | 828 | 022 | 8504 | 18.68 | 15 | .... | .... |
| 108 | Tlgra Valod .. |  | $18011$ | $\cdots$ | .... | . | .... | $\cdots$ |
| 109 | Titws .. | 1922 |  | 2,370 0 | $18 \cdot 12$ | 28 | 784 | 854 |
| 110 | Tokarwa .. | .... | $34018$ | $\ldots$ | $15 \cdot 44$ | 28 | $50 \quad 19$ | $27712$ |
| 118** | Valod Exabo | $54 \quad 37$ |  |  |  |  |  |  |
|  | Total of Group No. III. average per acre. | 21210 | 1,47915$\ldots .$. | 81,801 16 | $21 \cdot 63$ | 180 | 13713 | $\begin{aligned} & 9010 \\ & \ldots \ldots \end{aligned}$ |
|  |  |  |  |  |  | . |  |  |
|  | Valod Group No. IV. | 1881 | 7214 |  |  |  |  |  |
| 114 | Adyapore .. |  |  | 1,058 0 | 14.50 | 8 | 1410 | 650 |
| 115 | Aganis .. | $\therefore$. |  | .... | $\ldots$ | - | :... | $\ldots$ |
| 116 | Alghat .. | 632 | 378 | 9400 | 9.06 | 5 | 1088 | 5012 |
| 117 | Ambaoh .. | 020 | 40 | 1200 | 30.00 | 1 | 418 | 290 |
| 118 | Bahej .. | .... | $\cdots$ | .... | $\cdots$ | . | $\therefore$. | $\ldots$ |
| 119 | Bedkuwa .. | 13 36 |  | 1,048 4 | 11.75 | 13 | 1089 | 641 |
| 120 | Bhimpore .. | $\begin{array}{rl}13 & 28 \\ 18\end{array}$ | 96 | 1890 | $21 \cdot 36$ | 1 | 430 | 256 |
| 82 | Buhari .. | 630 | 872 | 8870 | 16.88 | 7 | 1220 | 6814 |
| 84 | Dadarla .. | 610 | 282 | 2140 | $7 \cdot 60$ | 4 | 885 | 284 |
| 85 | Degama .. | 2310 | 18112 | 8,600 4 | 27.82 | 28 | 3787 | 21718 |
| 121 | Dhamodla.. | 218 | 140 | 1950 | 13.82 | 8 | 816 | 10 0 |
| 122 | Dumkhal .. | 121 | 308 | 6270 | 20.55 | 7 | 282 | 180 |
| 87 | Goddha .. | 428 | 268 | 1960 | 7'39 | 8 | 118 | 632 |
| 88 | Colan . | 88 | 1818 | 6740 | $41 \cdot 74$ | 0 | 728 | 894 |
| 88 | Hsthuks .. | 985 | 578 | 1,147 0 | 10.94 | 4 | 1813 | 107 7 |
| 128 | Jamania .. | $\begin{array}{ll}1 & 88 \\ 5 & 24\end{array}$ | 1112 | 1350 | 11.46 | 2 | $\ldots$ | 208 |
| 124 | Kalamkuwa |  | 340 | 2090 | $6 \cdot 14$ | 3 | 318 |  |
| 125 | Kanjod .. - - | $\cdots$ | $\cdots$ | .... | .... | .. | 036 | 50 |
| 126 | Heswav ... |  |  | 0684 | 19.870.67 | 18 | 19 8 | 10210 |
| 127 | Kither ... .. | .. 1712 | $\begin{array}{r}72 \\ 104 \\ \hline\end{array}$ | 1,006 4 |  | 16 | 811 | 498 |

G1-continued.


Ca $10-10+$

APPENDIX


GL-omcluded. .

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Talukas.

APPENDIX


## H.

| to 1917-18. |  |  | 1918-10 to 1024-25. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Rants. | Mutiple of assensment sepresented by reat. | Indices. | Area of land lesaed. | Anesmment. | Mentar | Multiple of asecsament re presented by rent. | Indlces. |
| Re.a. |  | Ra. e. p. | A. g. | п. a. | Ra. 3. |  | Re. a. p. |
| 4,0621 | $2 \cdot 97$ | 8147 | 70413 | 2.847 | 21,254 0 | 2.05 | 11141 |
| 5.834 | $4 \cdot 74$ | 1487 | 33183 | 1,373 10 | 8,781 0 | $4 \cdot 83$. | 16128 |
| 4,202 | $2 \cdot 85$ | 880 | 179 | 7520 | 2,240 8 | 2-98 | 8150 |
| 1.120 4 | $2 \cdot 82$ | 0154 | 15385 | 670 | 2,193 0 | 8.27 | 91212 |
| 0,602 8 | $2 \cdot 68$ | 807 | 03110 | 4,850 5 | 17,284 3 | 8.56 | 1019.10 |
| 0000 | $3 \cdot 10$ | - 6 | 8910 | 150 B | 776 | 6.13 | 15.2 |
| 0070 | 1-62 | 50. | 7122 | 3057 | 1,151 10 | 8.77 | 11.13 |
| 3,295 10 | 2.32 | 015 | 395 | 1,677 12 | 4,689 14 | $2 \cdot 78$ | B 55 |
| 1,015 0 | 3.08 | 915 | 10385 | 3040 | 2,280 0 | 6.81 | 17810 |
| 00912 | 2.81 | 8610 | 42.20 | 2094 | 0027 | 4.74 | 1437 |
| 5,012 6 | $1 \cdot 06$ | 5187 | 4765 | 2,002 10 | 4,451 6 | 2.22 | 6107 |
| 00612 | $8 \cdot 00$ | 11156 | 1635 | 828 | 2230 | $8 \cdot 68$ | 807 |
| 1,087 4 | 1.95 | 5137 | 173 | 8082 | 2,082 12 | 2. 55 | 7104 |
| 178 | 2.25 | 6120 | 1810 | 6815 | 2530 | 8.67 | 1102 |
| 26 | 712 | 2156 | 1412 | 720 | 2838 | -08 | 11128 |
| 2,007 8 | 3.30 | 014 | 27219 | 1,124 4 | 4,024 0 | -10 | 12.9 |
| 48,985 0 | $2 \cdot 41$ | 787 | 8,049 93 | 10,418 0 | 01,847 0 | 8.77 | 11.11 |
| 2,508 0 | $2 \cdot 52$ | 7811 | 7427 | 3842 | 1,032 0 | 8.09 | 944 |
| 2,088 13 | 2.78 | 855 | 8985 | 4120 | 1,571 11 | 3.81 | 11610 |
| 3,485 2 | 2. 97 | 8140 | 6710 | 26411 | 1,200 | $4 \cdot 7$ | 1421 |
| 3,370 | 2.04 | 6 111 | 9617 | 54515 | 2,492 8 | 4.58 | 181010 |
| 2,508 4 | 3.20 | 91311 | $16 \quad 37$ | 890 | 4310 | $4 \cdot 84$ | 1483 |
| 1,215 | 1.88 | 5102 | ... | 4048 | 1,021 12 | 2.20 | $0 \cdot$ |
| 2,038 | 2.58 | 7110 | 8831 | 4637 | 2,214 0 | 4.78 | 145 |
| 2,103 0 | 3.48 | 10.7 | 8285 | 154 1 | 5854 | 8.78 | 115 |
| 4.238 | 2.80 | 8.4 | 38832 | 1,858 8 | 5,214 12 | $8 \cdot 84$ | 1183 |
| 13,185 12 | 8.05 | 924 | 45010 | 2,270 0 | 10,241 8 | $4 \cdot 4$ | 1876 |
| 1280 | 3.87 | 11.98 |  | .... | $\ldots$ | .... | .... |
| 4.8096 | $8 \cdot 17$ | 981 | 8325 | 43318 | 1,348 | $8 \cdot 09$ | - 4 |
| 20.5872 | 2.75 | 840 | 1,404 35 | 7,03s 7 | 20,278 3 | $2 \cdot 87$ | 998 |
| 964 0 | $2 \cdot 86$ | 712 | 2810 | 156 | 3980 | $2 \cdot 55$ | 7104 |
| 1.079 | $2 \cdot 12$ | 659 | 19636 | 66115 | 2,018 12 | 3.04 | 0111 |
| 9,487 12 | 121 | 1254 | 50421 | 2,089 8 | 10,020 7 | $4 \cdot 81$ | 14610 |
| 5,366 2 | 2.70 | 8 l | 1748 | 1,418 8 | 4,790 8 | 8. 39 | 1028 |
| 0,8978 | 2.68 | 807 | 78714 | 2,980 8 | 7,051 | 2.36 | 71.9 |
| 5,675 0 | 2.88 | 8102 | 6380 | 28218 | 1,313 0 | $4 \cdot 09$ | 14158 |
| 4,027 4 | 4.28 | 12111 | 1350 | 05112 | 8,579 12 | -60 | 1700 |
| 5,049 7 | 3.32 | 10811 | 2250 | 9285 | 4,398 12 | $4 \cdot 73$ | 1411 |
| 2,880 8 | $2 \cdot 00$ | 112 | 918 | 438 | 2,858 0 | 5. 32 | 1515 4 |
|  |  | - 77 | 1483 | 921 | 3640 | 3.95 | 1118 |
| $\text { 1,95,1:1 } 11$ | $2.75$ | $8 \leqslant 0$ | 12,903 10 | 57,292 11 | $1,98,064$ | $\begin{aligned} & . . . \\ & 8.44 \end{aligned}$ | $\begin{gathered} \ldots \\ 105 \end{gathered}$ |
| 8100 | 1.59 | 8157 | 12716 | 574 | 1,821 8 | 8.17 | 7140 |
|  | . | .. | 8988 | 1888 | 61015 | 3.24 | 81 |
| 5910 | 1.88 | 1.2 | 4813 | 1747 | 276 | 1.58 | 815 |
| 0,283 5 | $1 \cdot 08$ | 4159 | 725 | 2,883 1 | 7,662 9 | $2 \cdot 68$ | 6105 |
| 1,0es | 8.68 | - 28 | 18310 | 59510 | 2,554 | $1 \cdot 28$ | 10112 |
| 1,950 $\quad$ O | 2.97 | 7610 | 101 14 | 413 | 1,347 0 | 8. 26 | 825 |
| 4,660 $\quad$ - | $2 \cdot 00$ | 610 s | 80027 | 1,495 18 | 5,577 6 | 9.72 | 140 |
| 6778 | 2.75 | 6140 | 4788 | 162.1 | 1,052 15 | 6.50 | $16 \cdot 0$ |
| 3054 | 4.27 | 5100 | 2200 | 778 | 2,074 | $8 \cdot 4$ | 892 |
| 800 | $1 \cdot 68$ | 425 | 40 | 1580 | 896 | 8.00 | 780 |

[^1]APPENDIX

| sierfal <br> Appon- <br> dix L. | Name of rinige. | 1901-02 to 1910-17. |  |  |  |  | 1012-12 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ares of land leased. | Apsomment. | Rents. | Multtole of assonsment representod by ront. | malceses. | Ases of kand leased. | Ascomment. |
| 58 <br> 59 |  | A. \& | Pus. a. | \#3. 4. |  | Rs. a.p. | - A. g. |  |
|  |  | 3318 | 480 | 1078 | $2 \cdot 25$ | 6100 | 888 | 118 |
|  | Kanai | 448 | 1872 | 3818 | $2 \cdot 08$ | 312 | 1297 | 6480 |
| 17 |  | 15.15 | 68.5 | 2020 | $8 \cdot 20$ | 800 | 18834 | 4680 |
| 60 | Karachka | 7814 | 50115 | 796 | $2 \cdot 63$ | - 92 | 37112 | 1,256 0 |
| 1 | Khall | 196 | 5540 | 1,170 8 | $2 \cdot 11$ | 6.5 | 1888 | 8160 |
| 18 | Khol | - 030 | 42 | 180 | 4.87 | 10149 | 68 | 3111 |
| 08 | Kliwwad | 90427 | 8,144 4 | 7,782 | $2 \cdot 47$ | - 210 | 1,890 18 | 4,816 6 |
| 67 | Mangrolis | 2724 | 645 | 750 | 1.17 | 2140 | 18088 | 604 8 |
| 26 | Palaod | 3412 | 17413 | \$08 15 | $2 \cdot 26$ | 6112 | 7825 | 4268 |
| 97 | Pardi Kadod | 2025 | 12125 | 2818 | 2.80 | 6120 | 6715 | 2488 |
| 7 | Plparis | $50 \quad 19$ | 28811 | 4300 | 2.20 | 580 | 1301 | 5341 |
| 38 | Ruwa | 788 | 812 | 672 | $2 \cdot 16$ | 565 | 420 | 20.0 |
| 20 | Samthan | $\cdots$ | $\ldots$ |  | $\ldots$ | . | 442 | 18814 |
| 31 | Sareths | 6132 | 25815 | 6881 | 2.71 | 6125 | 12138 | 640 a |
| 75 | Tajpur Khayad | 10211 | 34215 | 71412 | 2.08 | 582 | 22138 | 2500 |
| . 78 | Tajpur Vatod | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | . | $\ldots$ |  |
| 77 | Tlmberwa | 2014 | 5111 | 16910 | $8 \cdot 26$ | 825 | 24012 | 04711 |
| 78 | Uctharel | 2923 | 1142 | 3801 | $2 \cdot 80$ | 787 | 7332 | 28410 |
| 78 | vttara | 1,632 2 | 4,312 8 | 8,978 8 | 2.08 | 582 | 3,237 35 | 8,026 10 |
| 31 | Vadhave | 42138 | 1,364 13 | 2,758 5 | 2.02 | 609 | 1,187 29 | 8,976 18 |
| 32 | Vaghecha Kadod .. | 1878 | 6400 | 1.4028 | $2 \cdot 16$ | 505 | 38580 | 1,410 |
| 40 | Vankaner | 42034 | 1,721 13 | 5,451 | 8. 18 | 7152 | 8854 | 8,458 7 |
|  | Total of Group No. II. <br> A verage per acre .. | 5,002 11 | 10,630 8 | 38,707 8 | 2. 32 | 5128 | 10,726 37 | 36,692 18 |
| 51 | Aliu | 18.23 | $64 \cdot 0$ | 22010 | 342 | 0185 | 616 | 23514 |
| ${ }_{3}$ | Bulda | 7415 | 2275 | 47212 | 2.08 | 420 | 1,308 86 | 4,039 10 |
| 85 | Bhosundia | 1516 | 492 | 1040 | $2 \cdot 12$ | 4310 | 76124 | 2,488 2 |
| 94 | Bhatlav Nanl | 1026 | 572 | 121 B | $2 \cdot 14$ | 445 | 2858 | 802 s |
| 86: | Hindoila | 1788 | 559 | 1,086 2 | 1.00 | 2210 | 40020 | 1,274 3 |
| 87 | Junwan! | 526 | 182 | 9212 | $5 \cdot 17$ | 1055 | 4227 | 1252 |
| 65 | Madh! | 298.30 | 9447 | 2,430 0 | $2 \cdot 50$ | 580 | $718 \quad 24$ | 2,202 18 |
| 66 | Manckpore | 21039 | 624 is | 1,808 14 | 8.08 | 110 | 81815 | 2,095 3 |
| 88 | Masad | 17011 | 4424 | 1,151 i2 | $2 \cdot 60$ | ${ }^{1} 382$ | 2810 | 7610 |
| 89 | Mlyamadi | 1,056 0 | 1,562 0 | 1,771 0 | $1 \cdot 13$ | 242 | 3350 | 8560 |
| 88 | Nagla | 4813 | 1874 | 52813 | 8.16 |  | 17024 | 350 |
| 90 | Nabura | 15518 | 4328 | 1,309 6 | 8.03 | 010 | 14831 | 4445 |
| 69 | Orgam | 1137 | 5712 | 1170 | 2.02 | 407 | 10039 | 258 |
| 70 | Pardif Valod | 208 | 7418 | 6970 | 7.96 | 15149 | 9022 | 3156 |
| 72 | Rajwad | 81728 | 8984 | 2,540 12 | $2 \cdot 83$ | 5102 | 23020 | 8030 |
| 78 | Sojurad | 53030 | 1,620 6 | 9,022 14 | 2. 33 | 474 | 49718 | 1,425 1 |
| 9 | Slingod | 18 | 70 | 11 0 | 1.57 | 822 | 7188 | 288 |
| 74 | Surall | 86925 | 1,376 16 | 6,022 15 | 1.87 | 8112 | 3,087 8 | 8,818 8 |
| 80 | Uva | 61715 | 1,888 $\quad$ B | 4,800 3 | $2 \cdot 32$ | 4102 | 88824 | 2,988 15 |
| 02 | Jadhavanta | 30338 | 72814 | 1,882 0 | 2.58 | 520 | 2140 | 5038 |
|  | Total of group No. $\mathbf{I I I}$. | 4,827 5 | 14,797 15 | 30,355 | $2 \cdot 67$ | 522 | 10,469 6 | 83,217 |
|  | Average per acte .. | ... | .... | ... | ... | $\cdot$ | $\ldots$ |  |
| 9*. | Vanskul | 39116 | 1,028 10 | 2,101 12 | $2 \cdot 05$ | 312 | 2,003 6 | 0,013 8 |
|  | Total of Talaka .. | 18,688 36 | 65,70 10 | 1,44,8e9 $\quad 0$ | .. | -• | 38,078 2 | 1,41,280 7 |
|  | Average por acre .. |  |  | $\ldots$ | $2 \cdot 20$ | $\cdots$ | ... | $\ldots$ |

## H-continued.

| to 1017-18. |  |  | 1918-19 to 1824-25. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ronti. |  | Indipon. | area of tand leased. | Assessment. | Ftanta. | 3turtiple of assessment re presented | Indices. |
| Ra. a. |  | Ra. e. p. | A. g. | Rs. A. | Re. a. |  | Rs.a. p. |
| 28 | 2.49 | 627 | 6810 | 2104 | 58212 | $2 \cdot 77$ | 6140 |
| 1,835 0 | 2.46 | 625 | 1788 | 7808 | 1,674 0 | $2 \cdot 97$. | 510 \% |
| 1.73912 | 3.76 | 957 | $59 \quad 17$ | 2605 | 2600 | 4.07 | 1020 |
| 5,017 13 | 3.99 | 9157 | 227 M | 74411 | 3,381 8 . | $4 \cdot 54$ | 1157 |
| 2,262 0 | 3. 67 | 920 | 23814 | 1,032 2 | 8,212 12 | 3.11 | 7125 |
| 750 | 2.36 | 5145 | 828 | 219 | 1110 | $5 \cdot 14$ | 1213.7 |
| 12,039 8 | $2 \cdot 78$ | 0168 | 1,290 26 | 4,261 3 | 14,301 12 | 3.35 | 8.0 |
| 2,028 12 | 5.65 | 1420 | 20912 | 1,004 7 | 4,527 0 | $4 \cdot 50$ | i1 40 |
| 8497 | 1.97 | 41410 | 6917 | 280 | 1,080 4 | 9.85 | 9100 |
| 7601 | s.08 | 7112 | 129 | 5395 | 2,790 12 | 5.16 | 12145 |
| 1,415 8 | 2.65 | 6100 | 13452 | 536 | 1,824 8 | 3.40 | 88.0 |
| 700 | 3. 50 | 8120 | $38 \quad 3$ | 1400 | 480 | 3. 50 | 812.0 |
| 7628 | $1 \cdot 08$ | 1012 | $\cdots$ | . | $\cdots$ | $\cdots$ | .... |
| 1,730 11 | 3. 30 | 800 | 5026 | 23011 | 8398 | $3 \cdot 63$ | 91.2 |
| 2,043 0 | 2.73 | 0 is 8 | 458 | 1.5210 | 3,848 8 | $2 \cdot 38$ | 515.7 |
| $\cdots$ |  | $\ldots$ | 3821 | 1088 | 1950 | $1 \cdot 82$ | -4 89 |
| 1,050 2 | $2 \cdot 30$ | 5120 | 12828 | 2258 | 8108 | ${ }^{6} 62$ | 90.0 |
| 04018 | 3.33 | 852 | $65 \quad 17$ | 25014 | 9074 | 3.87 | 0109 |
| 18,524 13 | 2.07 | 520 | 2,862 4 | 7,910 2 | 24,090 8 | 3.04 | 757 |
| 8,028 in | $2 \cdot 24$ | 597 | 1,186 21 | 4,091 14 | 9,790 15 | $2 \cdot 4$ | 6 12 |
| s,675 7 | 2.58 | 672 | 18526 | 6687 | 2,387 0 | $3 \cdot 60$ | 000 |
| 0,1025 | s.73 | 9152 | 31413 | 2,355 13 | 6,773 3 | 4.25 | 10100 |
| 06,449 12 | $\cdots$ | $\ldots$ | 9,445 | 38,809 14 | 1,07,434 7 | $\cdots$ | $\cdots$ |
| .... | 2. 58 | 678 | $\ldots$ | $\ldots$ | .... | 3.22 | 80 |
| 1,044 19 | 4.42 | 8155 | 450 | 1620 | 8328 | 5.14 | 10 - 6 |
| $0,040 \quad 8$ | 2.23 | 474 | 1,287 24 | 3,622 9 | 10,078 12 | $2 \cdot 94$ | 514 |
| 0,091 0 | 2.45 | 414 | 925 3 | 2,085 4 | 7,607 0 | $2 \cdot 54$ | 51 |
| 2,291 0 | 2.56 | 5210 | 18624 | 5238 | 1,258 0 | $2 \cdot 40$ | 4129 |
| 3,824 4 | 8.00 | 60 | 3160 | 1,001 4 | 8,872 13 | 3. 86 | 711 |
| 4570 | 8.65 | $7 \leq 0$ | 538 | 1368 | 4900 | $0 \cdot 34$ | 74 |
| 7.659 | 3.34 | 01010 | 83222 | 2,769 0 | 12,385 0 | $4 \cdot 47$ | 8150 |
| 0,469 4 | 8.09 | - 211 | 48384 | 1,260 7 | 4,311 14 | 3.42 | 6135 |
| 2,520 0 | $3 \cdot 31$ | c 210 | 27138 | 72514 | 2,884 2 | 3.94 | 714 |
| 2.574 | 8.00 | 600 | 1,185 0 | 2,462 0 | 6,922 0 | 2.81 | 5010 |
| 1.4120 | 4.01 | 100 | 1340 | 4888 | 2,387 7 | 6•30 | 10.7 |
| 1,128 9 | 2.54 | 5123 | 4228 | 12913 | 04312 | 406 | 1914 |
| 0390 | 2. 52 | 5 0.7 | 816 | 245 | 1024 | 4.25 | 88 |
| 1,419 0 | 4.49 | 8158 | 382 | 11710 | 7048 | 5.88 | 11154 |
| - 1,652 8 | 2.79 | 593 | 190 | 619 | 1,697 8 | 2.68 | 5.2 |
| 4,883 0 | 3.42 | 8386 | 23632 | 6882 | 2,628 8 | 4.22 | 8 ? |
| - 9790 | 3.41 | 8131 | 5912 | 2127 | 5324 | 2.51 | 5.04 |
| 20.017 . | 3. 29 | 693 | 97488 | 8,00411 | 11,285 2 | 3.72 | 7.7 |
| 8,189 5 | 2.76 | 583 | 84010 | 2,007 1 | 8,155 15 | 3.13 | 64 |
| 1.858 | 8. 12 | 6810 | 929 | 2582 | 1,300 8 | 5.40 | 1015 \% |
| 08,17910 $\ldots$. | $2.08$ | \% 150 | $8,084 \quad 9$ | 23,723 15 | 80,776 18 | $\cdots$ | . 612 |
| 18,594 8 | $2 \cdot 26$ | 368 | i,836 6 | 8,561 7 | 14,603 10 | 2.68 | 3150 |
| 3,86,580 9 | .... | .... | 8,258 29 | 1,10,878 $\quad 0$ | 8,99,508 $\quad 0$ | $\cdots$ | $\ldots$ |
| ... | $2 \cdot 74$ | $\ldots$ | .... | .. | ... | 3.38 | $\cdots$ |

APPENDIX

$\mathrm{H}^{1}$ RICE.


APPER 1 X


H- Continued.

| to 1917-18. |  |  | 1918-19 to 1924-25. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{-1}$ Rents. | Multiple of sssessement represented by rent. | Indices. | Area of land leased. | Assessment. | Rent. | Multiple of assessment represente y rent. | Indices. |
| Re. a. |  | Rs. a. p. | A. g. | Rs. a. | iss. a. |  | Rs. a. p. |
| 3860 | $3 \cdot 66$ | $\begin{array}{llll}19 & 3 & 5\end{array}$ | $20 \quad 0$ | 1812 | 61815 | 3.41 | 17145 |
| - 3790 | $2 \cdot 66$ | $1315 \quad 5$ | 148 | 1346 | 2238 | $1 \cdot 67$ | 8143 |
| 9020 | 2.01 | 10810 | 5817 | 4868 | 1,623 0 | $3 \cdot 38$ | 1779 |
| 2,815 0 | 1.56 | 831 | 310 0 | 2,616 0 | 4,912 0 | $1 \cdot 11$ | 5133 |
| .... |  |  | $13 \quad 27$ | 1328 | 20214 | $1 \cdot 53$ | 806 |
| 80110 | $2 \cdot 31$ | 1220 | 1988 | 15713 | 42910 | $2^{2} 72$ | 1445 |
| 2,438 B | 1. 98 | 10.72 | $58 \quad 16$ | 5515 | 1,286 14 | $2 \cdot 33$ | 1239 |
| 870 | $4 \cdot 83$ | $\begin{array}{llll}25 & 5 & 8\end{array}$ | $25 \quad 18$ | 20611 | 8648 | $4 \cdot 17$ | 21143 |
| .... |  | .... | .... | .... | .... | $\ldots$ | .... |
| 2840 | $2 \cdot 72$ | $\begin{array}{llll}14 & 4 & 5\end{array}$ | 729 | 7111 | 3620 | 5.05 | $\begin{array}{llll}26 & 8 & 2\end{array}$ |
| 8868 | $2 \cdot 70$ | 1429 | $57 \quad 5$ | 40412 | 1,718 14 | $3 \cdot 39$ | 17129 |
| 2000 | $4 \cdot 48$ | $\begin{array}{llll}23 & 8 & 8\end{array}$ | $70 \quad 19$ | 5338 | 1,504 0 | $2 \cdot 82$ | 141210 |
| 3150 | $2 \cdot 14$ | $\begin{array}{llll}11 & 3 & 9\end{array}$ | $24 \quad 9$ | 18814 | 37212 | $1 \cdot 99$ | 1073 |
| 2520 | $2 \cdot 31$ | 1220 | 375 | 8798 | 1,398 10 | $8 \cdot 68$ | 1951 |
| . |  | $\cdots$ | .. | .... | .... | ... | $\ldots$ |
| 7350 | $2 \cdot 51$ | 13210 | $15 \quad 22$ | 1609 | 4220 | 2.48 | 1300 |
| 5248 | $2 \cdot 39$ | 12:8889 | .... | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ |
| $\ldots$ | . | $\ldots$ | $\cdots$ | $\ldots$ | .... | .... | $\ldots$ |
| .... | $\cdots$ | $\ldots$ | .. | $\cdots$ | - | .... | $\cdots$ |
| 3064 | $2 \cdot 35$ | 1255 | 27.5 | 24115 | 7604 | 3.14 | 1679 |
| 99115 | $2 \cdot 20$ | 11) 89 | 571 | 3905 | 92212 | $2 \cdot 36$ | 12 B 3 |
| .... | .... | ... | .. | .. | .... | ... | .... |
| 1,063 6 | $2 \cdot 13$ | 11211 | 3611 | 3318 | 73612 | 2.22 | 11106 |
| 1,814 в | $2 \cdot 11$ | $\begin{array}{llll}11 & 1 & 3\end{array}$ | $15 \quad 1$ | 136.10 | 33812 | 2:47 | 12156 |
| 3,257 8 | $3 \cdot 32$ | 17611 | $66 \quad 30$ | 5491 | 2,404 10 | $4 \cdot 38$ | 221511 |
| 23,259 5 | $\cdots$ | $\ldots$ | 1,086 27 | 9,268 11 | $25,848 \quad 2$ | $\cdots$ | $\cdots$ |
| .. | $2 \cdot 38$ | 12711 | $\ldots$ | .... | .... | $2 \cdot 78$ | 1496 |
| 1,563 6 | $3 \cdot 12$ | 14.07 | 6223 | 3017 | 2,828 14 | $9 \cdot 36$ | 42110 |
| 8400 | $2 \cdot 04$ | 9210 | 4838 | 24715 | 6554 | $2 \cdot 64$ | 11140 |
| 5810 | $2 \cdot 17$ | 9123 | $37 \quad 33$ | 2690 | 5870 | $2 \cdot 18$ | 91211 |
| 1050 | 2.38 | 1078 | $10 \quad 17$ | 630 | 1400 | $2 \cdot 22$ | 0159 |
| 2010 | $2 \cdot 68$ | 12011 | 41.11 | 1470 | 4164 | $2 \cdot 83$ | 12118 |
| 3470 | 2.03 | 922 | 1535 | 1120 | 2884 | $2 \cdot 57$ | 1190 |
| 5250 | 3.04 | 131010 | $48 \quad 19$ | 2787 | 780 | $2 \cdot 84$ | 12125 |
| 1,459 12 | $3 \cdot 32$ | 14150 | 1619 | 1138 | 4232 | 8.71 | 1611 |
| 7214 | $2 \cdot 06$ | 9. 4.3 | 3918 | 278.8 | 8340 | 2'99 | 1373 |
| 400 | $3 \cdot 33$ | 14158 | 180 | 1030 | 180 | $1 \cdot 74$ | 713 |
| 1580 | 3.67 | $\begin{array}{llll}16 & 8 & 3\end{array}$ | 1014 | 660 | 2574 | $3 \cdot 89$ | 1781 |
| 728 | 1.65 | $\begin{array}{llll}7 & 6 & 9\end{array}$ | 284 | 220 | 870 | 3.95 | 1712 |
| 600 | $2 \cdot 30$ | $\begin{array}{llll}10 & 5 & 7\end{array}$ | $28 \quad 9$ | 143 B | 2918 | 2.04 | 9210 |
| 2177 | 3.55 | 15157 | 725 | 500 | 1610 | $3 \cdot 22$ | 1479 |
| 1690 | $2 \cdot 25$ | 1020 | 526 | 3815 | 950 | $2 \cdot 79$ | 12810 |
| 1,703 12 | $2 \cdot 83$ | 12118 | 5818 | 9211 | 8768 | $9 \cdot 43$ | 42611 |
| 770 | $2 \cdot 36$ | $10 \quad 910$ | $64 \cdot 38$ | 60011 | 1,093 0 | $2 \cdot 18$ | 91211 |
| 4,360 12 | $2 \cdot 71$ | $\begin{array}{llll}12 & 3 & 1\end{array}$ | $37 \cdot 15$ | 248.0 | 79912 | $3 \cdot 29$ | 141210 |
| 42914 | $2 \cdot 07$ | 950 | 6121 | 4135 | 1,200 0 | $2 \cdot 6$ | 1309 |
| 2010 | $2 \cdot 09$ | 8 8 5 | 520 | 410 | 660 | $1 \cdot 60$ | 73 |
| 14,525 11 | .... | $\cdots$ | 61726 | 3,519 14 | 12,064 8 | .... | $\ldots$ |
| .... | $2 \cdot 62$ | 11127 |  |  |  | 3.42 | 1562 |

Ca $10-13+$

APPENDIX

$\mathrm{H}^{1}$-conlinued.


APPENDIX


H-1-concluded.

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Talukas.

## APPENDIX I.

Prices prevalent in the Bardoli Taluka from 1888-89 to 1924.

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Talukas.

APPENDIX I-contd.
Prices prevalent in the Valad Mahal from 1888-89 to 1924.

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Choradi Talukas.


K-continued.


Ca $10-18+$


K-continued.



K-continued.


Ca ${ }^{10-16+}$


K -continued.



K-coneinued.


Ca $10-17+$


K-continued.

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{5}{|c|}{Groap III.} \& \multicolumn{5}{|c|}{Group IV.} \& \multicolumn{4}{|c|}{Total.} <br>
\hline \multirow[t]{2}{*}{Detalle of Fillages of old groap taken to now - groaping.} \& \multirow[b]{2}{*}{Demand.} \& \multirow[b]{2}{*}{Remis. slons.} \& \multicolumn{2}{|l|}{Outatanding.} \& \multirow[t]{2}{*}{Detaila of villages of old group taken to new grouplig.} \& \multirow[b]{2}{*}{Demand.} \& \multirow[b]{2}{*}{Remisslons.} \& \multicolumn{2}{|l|}{Oatatanding.} \& \multirow[b]{2}{*}{Demand.} \& \multirow[b]{2}{*}{Romitssions.} \& \multicolumn{2}{|l|}{Outatanding.} <br>
\hline \& \& \& Authocinod. \& Unauth- \& \& \& \& Authorisod. \& Unauthorised. \& \& \& Authorized. \& Unanth orized. <br>
\hline 17 \& $$
\begin{array}{ccc}
\text { Ra. } & \text { s. } & \text { p. } \\
57,795 & 7 & 0
\end{array}
$$ \& $$
\left.\begin{array}{rr}
\text { Rs. a. p. } \\
2 & 0
\end{array} \right\rvert\,
$$ \& .. \& $\cdots$ \& $\cdots 1$ \& $$
\begin{array}{ccc}
\text { Rs. } & \text { a. } & \text { p. } \\
\hline 6,717 & 5 & 10
\end{array}
$$ \& Ra. e. p. \& $\cdots$ \& . \& R. a. p. \& Ra. a. p.

$\cdots$
$\cdots$ \& $\cdots$ \& -• <br>
\hline .... \& .. \& . \& ** \& . \& $\ldots$ \& $\ldots$ \& . \& "' \& -* \& .... \& $\cdots$ \& . \& -• <br>
\hline ... \& ... \& $\cdots$ \& $\cdots$ \& $\cdots$ \& .. \& .... \& $\cdots$ \& . \& -• \& … $\cdot$ \& -• \& $\cdots$ \& -• <br>
\hline $\cdots$ \& 57,79570 \& 263 \& $\cdots$ \& -• \& $\cdots$ \& 4,717 510 \& - \& $\cdots$ \& * \& 3,59,784 00 \& 10118 \& .. \& $\cdots$ <br>
\hline 14. \& 42,417 126 \& . ${ }^{\prime}$ \& * \& -• \& 23 \& 62,488 1111 \& . \& . \& -• \& $\cdots$ \& $\cdots$ \& -• \& -• <br>
\hline - \& 22,264 131 \& -• \& $\cdots$ \& -• \& $\ldots$ \& $\cdots$ \& . \& -• \& . \& ...' \& - \& . \& - <br>
\hline .... \& 64,682 97 \& .- \& $\cdots$ \& $\cdots$ \& .... \& 67,483 1111 \& -• \& . \& . \& 1,50,744 70 \& $\cdots$ \& -• \& $\cdots$ <br>
\hline $\cdots$ \& 1,22,478 1 \& 208 \& -• \& . \& .... \& 68,201 19 \& - \& -• \& " \& 4,00,528 70 \& 19.11 \& .. \& . <br>
\hline 17 \& 57,890 17 \& 106 \& $\cdots$ \& ' \& 1 \& 4,717 510 \& . \& $\cdots$ \& . \& $\ldots$ \& -.. \& . \& $\therefore$ <br>
\hline $\ldots$ \& . $\cdot$ \& . \& - \& - \& .... \& ... \& * \& $\cdots$ \& .. \& $\therefore \cdot$ \& $\cdots$ \& -• \& $\cdots$ <br>
\hline .... \& .... \& $\cdots$ \& \& - \& $\cdots$ \& .... \& $\cdots$ \& -• \& - \& .... \& .. \& $\cdots$ \& $\cdots$ <br>
\hline * \& 57,890 17 \& 186 \& $\cdots$ \& $\cdots$ \& $\cdots$ \& 4,717 510 \& $\cdots$ \& \& -• \& 3,00,028 2 \% 6 \& 18146 \& .. \& .. <br>
\hline 14 \& 42,402 71 \& .. \& . \& . \& 23 \& 67,479 164 \& . ${ }^{\prime}$ \& \& \& $\ldots$ \& - \& $\cdots$ \& $\cdots$ <br>
\hline $\theta$ \& 22,271 1510 \& . \& $\cdots$ \& $\cdots$ \& $\ldots$ \& $\cdots$ \& ** \& \& -• \& .... \& * \& . \& - <br>
\hline .... \& 64,674 611 \& .. \& $\cdots$ \& . \& $\ldots$ \& 57,479 15 4 \& * \& . \& . \& 1,30,794 15 1 \& . \& -• \& -• <br>
\hline $\cdots$ \& 1,22,564 8 8 \& 196 \& . \& . \& $\ldots$ \& 52,197 5 \& * \& \& $\cdots$ \& 4,00,753 1 1 \& 18 14.6 \& . \& - <br>
\hline 17 \& 57,890 17 \& . \& $\cdots$ \& . \& 1 \& 4,717 510 \& 814 82 \& \& $\cdots$ \& $\cdots$ \& -• \& $\cdots$ \& ** <br>
\hline $\ldots$ \& $\ldots$... \& -• \& $\cdots$ \& -• \& $\ldots$ \& .... \& .. \& \& - \& .... \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline .... \& -... \& - \& $\cdots$ \& $\cdots$ \& .. \& .... \& . \& -• \& - \& $\cdots$ \& $\cdots$ \& $\cdots$ \& - <br>
\hline $\cdots$ \& 57,890 17 \& 4,021 48 \& . \& . \& . \& 4,717 610 \& 814 5 2 \& . \& $\cdots$ \& 3,00,079 588 \& 27,249 910 \& - \& - <br>
\hline 14 \& 22,401 211 \& 3,001 27 \& -• \& $\cdots$ \& 23 \& 57,479 59 \& 4,638. 311 \& -• \& -• \& $\ldots$ \& $\cdots$ \& - \& $\cdots$ <br>
\hline 6 \& 22,271 1510 \& 2,44170 \& - \& . \& $\ldots$ \& $\cdots$ \& $\cdots$ \& . \& . \& $\cdots$ \& -• \& $\cdots$ \& $\cdots$ <br>
\hline ...' \& 64,673 20 \& 3,442 $\quad 77$ \& . \& . \& $\cdots$ \& 57,479 58 \& 4,633 3111 \& $\cdots$ \& $\cdots$ \& 1,30,733 1.4 \& 10,8088 5 \& " \& $\cdots$ <br>
\hline .... \& 1,22,58s 44 \& 9,463 14 \& $\cdots$ \& $\cdots$ \& \& 62,196 $11 \quad 7$ \& 1,947 91 \& . \& $\cdots$ \& $4,00,81270$ \& 88,058 20 \& -• \& $\cdots$ <br>
\hline 17 \& 58,097 12 0 \& 196 \& . \& . \& 1. \& 4,717 510 \& -• \& . \& . \& $\cdots$ \& - \& -• \& $\cdots$ <br>
\hline .... \& .... \& . \& $\cdots$ \& $\cdots$ \& . \& $\ldots$ \& $\cdots$ \& - \& . \& $\ldots$ \& -• \& . \& $\cdots$ <br>
\hline .... \& $\cdots$ \& . \& - \& -• \& .. \& .... \& $\cdots$ \& $\cdots$ \& . \& ... \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline .... \& 58,097 120 \& 180 \& - \& - \& $\cdots$ \& 4,777 610 \& - \& . \& $\cdots$ \& 3,00,459 128 \& 18146 \& $\cdots$ \& $\cdots$ <br>
\hline 13 \& 62,410 1010 \& - \& - \& $\cdots$ \& 23 \& 67,482 131 \& . \& - \& . \& $\cdots$ \& -• \& .. \& . <br>
\hline 6 \& 22,273 311 \& - \& - \& -• \& $\ldots$ \& $\ldots$ \& - \& $\cdots$ \& $\cdots$ \& $\cdots$ \& -• \& -• \& $\cdots$ <br>
\hline .... \& -64,088 149 \& - \& $\because$ \& - \& .... \& 67,482 18 1 \& - \& $\cdots$ \& $\cdots$ \& 1,80,607 4 \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline .... \& 1,28,781 10.0 \& 196 \& " \& .. \& $\ldots$ \& 62,150 211 \& - \& . \& $\cdots$ \& $4,01,157$ I 4 \& 1814 8 \& . $\cdot$ \& $\cdots$ <br>
\hline 17 \& 68,128 12 2 \& 1328 \& . \& . \& 1 \& 4,777 510 \& * \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline .... \& ... \& -• \& . \& -• \& $\ldots$ \& $\cdots$ \& -• \& . \& -• \& . $\cdot$. \& -• \& - \& $\cdots$ <br>
\hline - $\cdot$. \& *... \& $\cdots$ \& " \& $\cdots$ \& $\ldots$ \& $\ldots$ \& - \& $\cdots$ \& . \& .... \& $\cdots$ \& - \& $\cdots$ <br>
\hline .... \& 68,128 12 2 \& 181818 \& - \& -• \& .... \& 4,717 510 \& - \& - \& $\cdots$ \& 3,61,851 6 \& 3,020 15 5 \& -• \& * <br>
\hline 14 \& 42,411 0 2 \& .. \& \& . \& 28 \& 57,424 150 \& $\cdots$ \& $\cdots$ \& - $\cdot \cdots$ \& $\ldots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline 6 \& 22,277 811 \& $\cdots$ \& -. \& . \& $\cdots$ \& $\cdots$ \& - \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ \& $\cdots$ <br>
\hline .... \& 64,882 91 \& . ${ }$ \& - \& -• \& ... \& 57,424 $15 \quad 9$ \& - \& . $\cdot$ \& - \& 1,30,688 1.8 \& - \& $\cdots$ \& $\cdots$ <br>
\hline .... \& 1,29,811 5 \& 18138 \& .. \& .. \& ... \& 62,142 57 \& - \& -• \& - \& 4,02,539 880 \& 3,020 16 5 \& . \& $\cdots$ <br>
\hline
\end{tabular}

APPENDIX


K-concluded.


L.
occupied land, Taluka Bardoli, District Surat.




Ca $10-18+$

APPENDIX

-continued

M. S. JAYAKAR,

Assistant Settlement Officer, Surat.

## APPENDIX 1.

Summary of Dry crop rates of Bardoli Taluka, Surat District.

(Vide Correction slip to Survey and Settlement Manual, page j53.)


| Current asbermment. | Proposed Aspowifuct. | Villages. |  |  |  |  | Per cent. increase. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Group 1. |  |  |  |  |  |
| 1,64,254 | 2,05,009 | 37 villagen of Group I .. .. .. | . | . | - |  | $25 \cdot 18$ |
| 59,780 | 87,154 | 13 Villages of Group II transferred to Group I | .. | .. | . |  | $45 \cdot 01$ |
| 2,28,884 | 2,92,768 |  |  |  |  |  | $30 \cdot 71$ |
|  |  | Grout 11. |  |  |  |  |  |
| 60,965 | 76,171 | 19 Villages of Group 11 .. .. .. <br> 3 Villages of Group I transferred to Groap 17 <br> 4 Villages of groap III transferred to Group II | .. | .. | .. |  | $24 \cdot 04$ |
| 4,697 | 4,869 |  | .. | .. | . |  | 3 cos |
| 30,523 | 46,858 |  | . | . | .. |  | 53.52 |
| 96,185 | 1,27,808 | Growp iII. |  |  |  |  | $32 \cdot 97$ |
|  |  |  |  |  |  |  |  |
| 1,09,012 | 1,87,882 | 81 Villages of Groap $I I$ <br> 6. Villages of Group IV transterred to Group III | -. | .. | . |  | 24.94 |
| 28,088 | 37,258 |  | . | . $\cdot$ | -. |  | $61 \cdot 36$ |
| 1,33,000 | 1,74,685 | Gromp 17. |  |  |  |  | $31 \cdot 50$ |
|  |  |  |  |  |  |  |  |
| 81,598 | 78,877 | 24 Villages of Group IV .. | .. | :• | . |  | 24.85 |
|  |  | Grand Tatal. |  |  |  |  |  |
| 8,16,762 | 0,72,278 | 187 Villages of the Bardoli Taluma | . | .. | . |  | 30.59 |

M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Talukas.

APPENDIX M.
Population and area of Government unocoupied land in the Bardoli Taluka and Peta Mahal Valod of the Surat District.


[^2]Ca $10-20+$

APPENDIX M -contd.


Note.-These flgures differ from those given In the Imperial Census Polumes for 1801, and 1001. I have taken the Imperial :mus figured as correct.

APPENDIX M—coutd.


Note.-These flgures differ from those glven in the Imperlai Censur Volumes for 1881 and 1901. I have taien the Imperial Census Agurea an correct.

## M. S. JAYAKAR,

Assistant Settlement Officer,
Bardoli and Chorasi Taluka.

## APPENDIX N.

[Please vide Selections from the records of the Bombay Government. No. CCCLIX-New Series.]

# (Below Revision Settlement Reports on Bardoli Taluka from the Settlement Officer.) 

No. S.R.V.-53.
Surat, 11th November 1925.
$\therefore$ Submitted to the Commissioner, Northern Division.
2. Original draft reports were sent by the undersigned as Settlement Officer for these talukas to Mr. Macmillap (to England) who was Collector at Surat till 11th June 1925 and who is now on leave. Mr. Macmillan has made his notes thereon. (vide please his D. O. dated 18th October 1925). Copies thereof are herewith submitted. It appears that he has genergally approved the proposals resulting in the final rates.
3. The draft reports in advance were submitted to the Settlement Commissioner and after being revised in accordance with his instructions in connection with certain paragraphs specially regarding leases, sales, etc., they were again submitted to him for approval. He has returned them now for being submitted through the proper channel.

M. S. JAYAKAR,<br>Collector, Surat.

Through,
The Settlement Commissioner and Director of Land Records, Poona.

> Kilarden, Rosneath, Dumbartonshire : 18th October 1925.

## Dear Jayakar,

I return the copies of your reports on Chorasi and Bardoli with a few brief notes.

I have been through them several times, but I find that I cannot do much with them without being able to visit the places and refer to various district statistical returns.

The grouping I cauld not go into without local enquiry except in the most general way.

Your increase proposals are practically based on the fact that the mere fall in the value of money would justify an enhancement of more than 30 per cent. in every case, and 25 per cent. keeps you on the safe side, while the revenue history shows that the existing assessment has been moderate even under the conditions of the first ten years.

That being so as you have a big margin, it is not necessary to enquire carefully into the exact amount of increases in leasing and selling value.

Perhaps those who will oppose increases will point to the slight increase in leasing value and it would be well to try to have that cleared up and explained. Net rents should have increased by something approaching 100 fer cent. in propertion to the general rise in prices if all factors had changed proportionately.

Yours sincerely,
A. M. MACMILLAN.

## Notes on Revision Settlement Report, Bardoli.

4. Communications.-I think the fact that the T. V. Railway has been opened and that there are now Railway export stations, Bardoli and Madhi in the Taluka, and hence the facilities for export for all the villages of the taluka have been entirely changed, should have been emphasised more.

I understand that the Bardoli-Surat road is still used only for bullock cart traffic and that it is bad for that.
6. Imports and exports.-Jowari area has fallen by 9,000 acres, cotton has risen by 14,000 . A general summary showing the principal changes in crop areas would be interesting.
8. Population.-Increase from 1891 to 1921 is 3,800 .

According to paragraph 10 (climate) births exceeded deaths by 17,724 from 1896 to 1924. The difference of about 14,000 is difficult to account for except by unreliability of the figures.
11. Rainfall.-Varies from 18 to 72 and even in normal years varies from about 40 to 65 .

A scientific analysis of rainfall conditions as affecting crop outturn would be useful, but I am afraid extremely difficult. It seems to me that the D.A.'s summaries cannot be clearly generalised from and related to the 30 year statistics.

As a basis, a separate record of conditions and final outturn for each main crop, on the curve of rainfall as a base would have to be maintained every year, and a separate one for each different class of soil, and for late and early sown crops.

As it is the references to rainfall are necessarily entirely vague, general and unscientific.
12. Methods of cultivation.-Percentage comparisons are I think vitiated because I believe it is only in the last ten years or so that grass has been recorded as a crop in cultivated area.

Is more grass not grown to provide fodder when cotton which gives no fodder (except cotton seed) is substituted for crops like jowari which give fodder as well as grain?

I think a close examination of twenty years' crop statistics for the taluka and for typical villages would throw light on this.

The area under vegetables seems to me extraordinarily small.
What is the exact reason for the increase of the $\operatorname{Adh}$ thag system? It is not apparent on the surface.
15. Prices of land.-Why have sale prices increased so enormously and leasing rates so moderately? Are many of those leases merely part of the conditional sale sum lease forming together a mortgage without possession? Presumably the increase in sale prices is due to the rise in the general level of prices by nearly 100 per cent., the exceptional increase in cotton prices and extension of cotton area, and the improvement in export facilities due to the opening of the T. V. Railway.

If I had all the village crop statistics and the original sale and lease statistics arranged by years and villages I would like to look into it.

The all over figures are in any case sufficient to justify your proposed increases, so that it may not be necessary to go into a detailed analysis.
16. See pencil note.
17. Prices from 1859 to $1893-94$ seem to be given in Appendix N of the 1895 R. S. Report (Selections, p. 25).
18. I greatly doubt the reliability of these figures as accurate, representative and directly comparable.

Wage figures are always vaguely and unscientifically reported.
20. Clerical error in Bardoli figures for 1923-24.

Proposals for Revision.-Assuming that the previous assessment was fair and reasonable in 1895, then an all over increase merely in proportion to the general rise in prices, i.e., somewhere near 100 per cent. would be justified. Beyond this the prosperity of the taluka has been increased by the-

- Extension of cotton cultivation.

Opening of the T. V. Railway.
Improvement in local communications.

This is supported by the increase in selling prices of all class of land by from 100 to 300 per cent.

These ought to be proportional to the net rental value, after payment of assessment.

You say all your rents include assessment. If so the net rent received by the landowner are the multiples given by you minus one. I have put the corresponding figures in approximately in pencil and the percentage increased naturally come a little nearer the percentages for sales.

Of course it is the gross, including assessment which has to be looked to in considering what proportionate increase in assessment is justified.

Why have rents not increased at least 100 per cent. in proportion to the general rise in prices i.e., the fall in the value of money.

It may be that owing to scarcity of effective labour, the cultivating tenants and labourers are now in a stronger position and are able to derive better bargains with the landowners and obtain a bigger share of the gross produce, and that of the increasing profits of agriculture the cultivators and labourers have been able to appropriate the largest share. It may be that land owning saukars go on the principle of low rents and big profits on their trading transactions with their tenants.

Although the figures in any case seem to more than justify even a 30 per cent. enhancement, it would be interesting to try to find out the meaning of this peculiar feature of the statistics.

The figures seem fully to justify your proposed increase of 25 per cent. all over in rates.

As to the grouping, I cannot give a definite opinion without visiting the villages in question with this in view.

The main ground which would justify substantial changes is the opening of the T. V. Railway and the existence now of two direct export stations both for Surat and for the Tapti Valley and Bombay in the centre of the taluka, whereas previously the nearest export stations were at Surat and Navsari, both at the time reached from Bardoli by bad roads, and secondly the opening of the Madhi Mandvi and improvement of Madhi Buhari road and Bardoli-Navsari road.

Apart from the changes which should obviously follow from these facts (e.g. the putting up of Madhi and Surali), I do not think any detailed discussion of your proposed changes without a study of conditions on the spot and detailed examination of the village crop and sale and tenancy records, would be of much value.
(Below No.S.R.V.-53, dated 11th November 1925, from the Collector of Surat.)

$$
\text { No. S. T.-490, dated Poona, } \frac{9 \mathrm{th} \text { April }}{155 \mathrm{t} \text { Hay }} 1926 .
$$

## Forwarded with compliments to the Commissioner, Northern Division.

2. The law as to settlements contained in the Land Revenue Code directs that the revision of the settlement shall have regard to the value of land. Now what is chiefly lacking in this report is an adequate attention to this provision of the law. It is quite true that we have Appendices $G$ and $H$ in the standard forms with a large mass of figures, but they are appendices, and in the body of the report there is scarcely any reference to them. If it were not for occasional remarks that sale prices have risen, or that rents have increased, one might almost say that there was a complete disregard of the value of the land. In the proposals for regrouping I do not find any such reference and only vague references in the proposals for rating.
3. Now in Bardoli, in 1896 there was no Tapti Valley Railway and the mainroad from Mandvi through Madhi.to Valod and Buhari, which by the way continues to Unai and Bansda-although our district maps ignore the fact. In 1896 cotton was not so vastly important as it now is to the economics of Bardoli. But even so the grouping, that is, the division of the tract into areas of approximately equal rental values was arranged on the theory that nearness to Surat and the main B. B. \& C. I. Railway were the leading considerations. The construction of the T. V. Railway and of the roads in the east and the new Kalamba railway to the south tend to equalise the whole taluka in matters of communications. There is no village which is more than a day's journey from a good market. Consequently nearness to market must have dropped into secondary rank, and it is quite a mistake to suppose that nearness to market is the only consideration in determining the rent of land. One of the largest factors, when markets are left out of consideration, is the proximity of important villages or centres of population where there is trade, work, amusements, civilization to be enjoyed. Now no man, unless he has spent all his life living in a few villages and studying their land values, can possibly say a priori what are going to be the rental values over a tract like Bardoli-Valod. He can only investigate the actual values and see how they group themselves.
4. This has been done by Mr. Jayakar in Appendices $G$ and $H$ and very broadly speaking they show that the old grouping was not very far wrong. There is a higher rental value in the west particularly along the roads leading conveniently to Narsari, and since the new railway and the new roads have begun to function that rental value has spread along the line of the railway and roads to the eastuard so that some of the eastern villages are now by no means so much behind the western villages as they were in 1896. But when we come to examine the details of these values we shall find that there are anomalies; some villages show a higher rental value than you might a priori have expected, and others apparently well placed show less satisfactory values. When we find this for an isolated village of course it means little more than that our statistics cannot be relied upen for such minutiae. But when we find a group of villages all lying together and all exhibiting the same general abnormality there is only one conclusion possible which is that there is something about that group not covered by our "communications and markets and climate" formula which depresses or elevates the rental value in that area, and very often we shall find that the reason is the proximity or distance of some populous centre, or it may be nothing more than a mere wave of popularity or the reverse.
5. We now discuss the grouping which Mr. Jayakar proposes and which the Collector accepts. Mr. Jayakar was himself acting Collector and his proposals have been actually endorsed by Mr. A. M. Macmillan, I.C.S., the substantive Collector absent on leave when the report came through. I submit separate maps to illustrate my proposals.
6. Group I.-Mr. Jayakar retains it as it is with the exception that be wishes to put down 3 villages and bring up from Group II 13 villages. The villages he puts down are:-

Kuvadia,
Cbitra, and
Kharad.
Ca $10-22+$

The reasons he gives are: that the villages are in the south corner of the taluka-a reason which in 1896 would have placed them certainly in Group I, because they are a most the nearest of all to Navsari ; secondly, that the land is cut up by the river and that access to the Bardoli-Jalalpur road is difficult. There may be one or two miles of bad going, but the whole distance to Navsari town is only about 7 miles via Supa, and it will be difficult to find a poorer reason for lowering these villages by a group. If the people had to carry their cotton even on their heads to Navsar they would still have a great advantage over many villages. It will be seen that in these reasons there is not the slightest suggestion of a reference to the value of the land. Let us therefore turn to the appendices, and we shall find that as against a proposed rate of Rs. $7 \frac{1}{2}$ maximum for Group I, Kuvadia and Chitra both have a rental index of Rs. 11, standing indeed well above the general average of Group I. I myself found land assessed at Rs. 198-13-0 let for cash Rs. 676 (rental index Rs. 10-3-2) closely agreeing with Mr. Jayakar. One could not possibly have a stronger condemnation of the proposal to put them down into Group II. I trust any one examining this proposal will not do so merely with the little map of the taluka itself which does not show where Navsari and the railway lie, but with the district map which puts things in their proper proportion. As to Kharad the rental index is only Rs. 7-10-4 which is rather close to the proposed assessment of Re. 7-8-0 and is well below the average of Group I. It is a small village and I do not think there is very strong reason why we should think that it differs from its neighbours. The low index would certainly be rejected by those who do not believe in these rental statistics and it would be attributed to the mere accident that we happened to have collected the figures from some unsatisfactory fields. I can see very little reason for putting any of the villages south of Sarbhon in a lower group, and since even Kharad does not actually show an index below Rs. $7 \frac{1}{2}$ I can hardly support the proposal for that village.
7. Next Mr. Jayakar proposes to raise 13 villages into Group I. Remembering what I have said as to the natural consequence of the new roads and railway that they would extend the improved rental values further eastwards-this elevation is precisely what we should look for and expect. In respect of eight or possibly nine of the villages, I accept : let me first give a list of them :-

| Akoti |  |  | Rs. a.p. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | .. | .. | . . Sale Index | 817 |
| Khoj | . | . | .. .. | 1213 |
| Kantali | .. | . | $\cdots \quad$. | 102 |
| Palsod | . | . | .. .. | 910 |
| Pardi Kadod | - | . | .. .. | 8 |
| Ruva | . | . | .. .. | 812 |
| Vankaner | .. | . | . ${ }^{\text {- }}$ | 1010 |
| Sarethi | . | $\cdots$ | .. .. | 912 |
| Samthan | $\cdots$ | $\cdots$ | . | o figures |
| Gotasa | . | . | .. .. | 89 |
| Bharampur | . | . | .. .. | 825 |

The last two I feel very doubtful about. If the district map is taken it will be found that the proposed villages which I accept lie in a favourable location along the Bardoli-Kadod and Bardoli Vankaner roads, also favourably near to the new railway. But the last two are a little doubtful. It may be here a deficiency of statistics, or some transactions have been included which ought not to have been. We must be guided by their nearest neighbours and I decide to accept Bharampur, but not Gotasa.
8. We next have two villages which Mr. Jayakar proposes which I cannot, upon the rental values, agree to. They are :-

|  |  |  |  |  | Rs. | a. | p. |
| :--- | :--- | :--- | :--- | :--- | :--- | ---: | ---: |
| Aphwa | $\ldots$ | $\ldots$ | $\ldots$ | $\ldots$ | 7 | 14 | 9 |
| Bamni | . | $\ldots$ | $\ldots$ | $\ldots$ | 3 | 15 | 3 |

This latter village is right away eastwards and lies beyond the tract to which this rise in rents has yet been shown to extend. But as soon as we begin to examine the rental statistics we shall find that Mr. Jayakar has not taken into his proposals anything like all the villages which show a very marked improvement. Consider this group :-

' All these villages form a definite group lying between the Tapti river and those 3 or 4 villages on the Bardoli-Kadod road which Mr. Jayakar has already proposed to raise to Group I. Why he leaves out these villages he does not suggest ; because when we come to consider the reasons he gives for raising the 9 or so villages accepted we shall find that every reason applies with at least equal force to these villages also. The group is absolutely compact. It has a rental value will above the group level. It would be impossible to raise the other villages and leave these as they are. So much for the Bardoli-Kadod road the construction and improvement of which occupied a great deal of my time while I was Collector. But why have none of the villages which lie along the T. V. Railway been proposed for promotion? If a railway is worth anything there are surely one or two villages which, with new railway stations and a great improvement of communication, must show improved rental values? As soon as we turn to the schedule of rentals we find at once that this is so. Timbarva which has a station has a rental index of Rs. 9-0-9; Mangrolia Rs. 11-4-0. If any of the other villages Mr. Jayakar has singled out are raised then these two at any rate cannot be left out. Also if Vankaner and Sarethi go up then there is at least one more village Bhatla Moti (Rs. 9-4-9) which must go with them.
9. Let us look at the reasons he has given for raising those he has recom-mended-
(1) the soil is not inferior to Group I. This of course as every settlement officer ought to know is an inadmissible reason. Varieties of soil are fully accounted for in the classification; and if we also push villages up a group on account of the good soil we not only make all the good soil in those villages pay in two ways for the advantage, but we also enhance the rates upon all the bad soil of those villages. It is an axiom in settlement work that grouping has nothing to do with soil qualities.
(2) they enjoy the same facilities of markets as other Group I villages of which Mr. Jayakar then gives details. An excellent reason but most indiscriminating; because if it justifies our putting Palsod and Akoti into Group I then what about Timbarva which has all their advantages in a higher degree, and (much more so) how about Kuvadia and Chitra which are within a short walk of Navsari instead of something over 20 miles which these villages have to traverse? Yet these villages are raised to Group I while Chitra and Kuvadia are put down from Group I to Group II not only against his own argument but also against the evidence of the rental values.
10. I therefore propose the villages which I have detailed in paragraph 8 for addition to those which will go up into Group I. The peculiarity of this arrangement is that there are six villages:-

which form a group east of the river between Bardoli and Vankaner which certainly seem to be unpopular, with very poor rental values. I am inclined to say that all these should be included in Group II (Isroli, Patti and Tajpur Budruk being reduced) and not Group I. It may look a little anomalous on the map to have Bardoli in Group I and Vankaner in Group I and then a batch of 6 or 8 villages lying in between which are in Group II. But after all we have the rental figures, and there is not anything in the nature of things which renders such an arrangement in the least improbable. The rest of Group II will stay as it is (for dry crop) with some additions from the lower group.
11. We now come to old Group III. The general pitch of the rental index for this group, for which Mr. Jayakar proposes a maximum rate of Rs. $5-0-0$ is about Rs. $7-0-0$. But we very soon find 2 batches of villages which stand well above this level and also we can find very good reasons for this. The first batch are those along the railway and the Madhi-Valod Road. The railway station villages of Madhi (Rs. 8-15-0) and Surali (Rs. 7-7-0), and a little further south the village Manekpur (Rs. 6-13-5) and Kamalchod (Rs. 7-5-6). Mr. Jayakar himself proposes these for elevation, and the reasons that he gives are that they are near to the railway stations and have good market facilities. At Kamalchod there is a ginning factory and it is a centre for money lenders, etc. These are excellent reasons, but should certainly have been reinforced by reference to the rental value. There might very easily be all the facilities in the world in the matter of communications and yet for want of population, or for some other reason there might be no marked improvement in rental values, and if that were so there would be no legal ground for enhancing assessment. But as soon as we admit these reasons we find another batch of villages every bit as fully entitled to the same treatment. These are the 5 villages which lie between Vankaner and Valod containing PardiValod (Rs. 11-15-4) ; Ala (Rs. 10-4-6) ; Pavran (Rs. 10-10-6) ; Delvada (Rs. 11-5-1); Nagla (Rs. 10-9-7). Here is a compact group showing excellent rental value as to which every argument used for raising of the other batch applies with equal force. Also the 2 villages between Manekpur and Saruli, Siadla (Rs. 10-10-0) and Titwa (Rs. 8-1-3) which consolidate Group II. Pardi-Valod, from its position and its sale and rentad statistics (index Rs. 11-5-4) should join Group II (blue) with Alu, Nagla, etc. I therefore propose they must be raised from Group III to Group II. Beldha though its sale statistics (multiple $44 \cdot 15$ ) are not bad is below the general average of Group III but its index Rs. 5-12-9 is well above Group IV (Rs. 3-12-0) and upon rental facts belong to Group III (brown) though consideration of vicinity might lead one to put it in either II or IV. I think it must stay, though isolated, in III.
12. Coming now to old Group IV: Mr. Jayakar proposes to put up Buhari (Rs. 8-15-0) ; Daddaria (Rs. 10-7-6) ; Degama (Rs. 8-11-5). I quite concur. The reasons he gives are that "they enjoy market and ginning facilities". I wonder if any village ever has been pushed up a group which means a large increase in taxation with so few words of justification as that? However I have supplemented it by giving the rental index figures and I will now show that not only these villages but several others round them are equally marked out for increment. Mr. Jayakar proposes Godha (Rs. 6-6-5) ; Golan (Rs. 5-10-3) and Hathuka (Rs. 7-0-9) in addition. But I do not find justification for this. But going near to Valod I find :-

| Kosamba | . | . | .. |  | 110 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mordevi | . | . | . |  | 712 | 4 |
| Behej | $\cdots$ |  |  |  | o figur | s, but by |
| Kanjod |  |  |  |  | 914 | y. |
| Dumkhal |  |  |  |  | 78 | 3 and also |

which in the former period had a rental index of Rs. 11-0.0 (though on a very small area in recent years we find the anomalous figure of Rs. 4). It is quite clear that this group of villages lying southwest of Valod with facilities of market in every direction and admirable climatic conditions and very high rental
values cannot remain down in Group IV. There is one more village which on account of its nearness to Buhari and its high rentals must go under the same treatment, that is Kasvav (Rs. 9-15-7). Several of these villages have such high values that if it were not for the limit of enhancement at one settlement one would have proposed they should be lifted more than one Group.
13. I have the advantage of having toured frequently in Bardoli taluka as Collector. I still remember it quite well. It is no use to construct new railways and new roads to open up the centre of the taluka unless it has some effect on rental values, and I do not deduce those rental values 'a priori' but by induction from the actual facts as has been*done in Appendix H. The Madhi-Kamalchod road has, had a marked effect on rents.
14. Generally I regret to note that I cannot believe that Appendix $G$ has been scrutinised with the care that it required. The number of transactions is very large and anyone who will think for a moment will see how impossible it is for transactions which took place between 1901 and 1910 to be "scrutinised " by a settlement officer in 1925 with any hope of success. Moreover I find in some of the correspondence statements that many of these figures had been tested and rechecked by the Mamlatdar. Now I do not consider that check by the Mamlatdar, which usually means check by one of his clerks or Circle Inspectors, can take the place of the check which a Settlement Officer is supposed to apply personally to these sale and rental statistics. In spite of all the doubt that I have as to the adequacy of the scrutiny still we cannot discard the broad results. There can be little doubt that the general average results correctly represent the condition of the taluka and I rely on the late years, not on 1901-1910.
15. We now come to Mr. Jayakar's proposals for fresh rates. I regret to find that he has almost exclusively confined his consideration to the gross value of the produce! Even in his summary of the general conditions in paragraph 57 he confines his notice of the rise in land value and rents to a single sentence, and he only says that sale prices have risen steadily, and that the assessment consequently represents a decrease in proportion to the rent. Here there is no foothold, nothing definite that one can possibly nse as the foundation for anything. This is not what one expects in a settlement report. He then occupies two pages in proving what we all well know that if Government had taken its revenue in kind, then the cash value of the revenue would have increased enormously. He shows that the probable increase in the gross produce of the taluka is something like 15 lakhs, and then only it begins to dawn upon him that perhaps it is all irrelevant, because if the cost of production had increased likewise by 15 lakhs there would be no increase on which any further demand for a share in the rental value could be based. Furthermore if the cost of production had increased say by 17 lakhs and not 15 then there is a case for actual reduction. Now how is Mr. Jayakar going to determine for us whether the increased cost of production has or has not altogether exceeded the increased value of the produce? He has nothing more to say than that "this factor cannot certainly be ignored ". In fact he leaves the main gate of the fort wide open. The whole of his conclusions could be rushed and overthrown in a moment without there being in his report a single word of reply by any one who alleges that the cost of production has increased more than the price of the produce. Perhaps now when this is realised it will be seen how exceedingly important it is to base one's settlement proposals on rentals and not on gross produce and prices. Rentals of course do take into strict account every item of cost of production as well as value of produce. No man can possibly pay a single anna of increased rent until he had definitely ascertained that the value of the produce at the end of the year is likely to exceed the cost of the production by one anna more than it did previously. I am afraid that almost the whole of Mr. Jayakar's report from paragraph 57 to paragraph 65 is irrelevant, and worse than that, it is positively dangerous as affording no justification for his proposals and suggesting arguments against them. Towards the end of paragraph 65 he does see also the great difficulty of determining assessment for a period of 30 years ahead. It is of course, as Government are well aware, a task beyond human power. Thirty years' settlements are things which ought not to be attempted. They have only been adopted in the past through a complete ignorance of the nature of Settlements
and absence of any theory or legal provision for the foundation of settlements. But of course if you fix settlements with reference to the gross price of produce you are in the worst possible position. The state of mind to which one is reduced is well revealed in the last portion of paragraph 65. When we come to paragraph 66 where Mr. Jayakar makes his final proposals he is of course in this condition. He has shown gross produce has increased enormously so that he is quite sure that the 33 per cent. can certainly be taken on that foundation. At the same time he knows that prices may not be maintained and he does not want to be accused of excess. So he very timidly and without the slightest stated reason at all takes refuge in an increase of 25 per cent. as "fair and equitable". If the Government maximum of increase had been 75 per cent. he would probably have said that 65 per cent. was "quite fair and equitable". The truth is that he is sailing without a compass and without rudder.
16. Turning to our one true guide, the rental values, it will be found that in Group I the general average index exceeds Rs. 10 whereas the maximum dry-crop rate is now Rs. 6, and increase of 33 per cent. would take it to Rs. 8 . There are a few villages in this tract the statistics of which indicate that they would be rather pinched (that is they will be paying a full half of the rental value) if we took Rs. 8 ; but that is only for one or two villages, and I think we may safely conclude that after excluding those villages from Group I as I have proposed Rs. 8 is a rate which can be imposed with complete safety. This would be based not upon prices of produce but upon rents which have been climbing steadily up and which are nothing like so unstable as produce prices. It is interesting to note that even in the prewar period of 1911-12 to 1917-18 the general average index based on rental value in Group I exceeded Rs. 8. Therefore we should have to go back below the level of 1912 before Rs. 8 becomes an excessive rate.
17. Now the second Group is at present rated at Rs. 5 , and with a 33 per cent. increase would be rated at Rs. 6-10-8. Its rental index for the whole Group is Rs. 8-0-9. There is more than a rupee margin. But as against this I am proposing to take a few of the better villages up into the I Group. This will have the effect of bringing down this average to the neighbourhood of Rs. $7 \frac{1}{2}$. I think that even if we could take Rs. $6-10-8$ which is in itself rather an awkward figure we may be going a little near to the full half share of the rental in some cases, and I would therefore recommend Rs. $6-8-0$ as keeping rather more within the margin.
18. The index for Group III is Rs. 6-12-9 for the taluka and Rs. 7-1-3 for the mahal. Some villages will be changed in grouping, and the final result of such alteration would be to bring the average down to the neighbourhood of between Rs. 6 and Rs. $6 \frac{1}{2}$. The present rate is Rs. 4. The rate to be levied for 33 per cent. increase should be Rs. $5-5-4$, or say Rs. $5-4-0$ which is a trifle less.
19. Group IV: the present rate is Rs. 3. An increase to 33 per cent. would give Rs. 4. Mr. Jayakar proposes Rs. 3-12-0. The average rental index is Rs. 5-10-0. I find only two villages which show an index value below Rs. 4. 'However in consideration of the fact that some of the better villages are proposed for Group III I am prepared to accept Rs. 3-12-0 for the residue of this group. .
20. In view of the recent report of the Committee on Indian taxation I venture to give the following table showing the relation between the rates I have proposed to the rentals in the Bardoli taluka. It will be remembered that the Committee have (very tentatively and by no means emphatically) suggested that 25 per cent. land revenue plus 64 per cent. Iocal funds would be a desirably low standard to which we might in future gradually work. They have not suggested that the existing rates should be reduced to this level but they look rather to the gradual rise of rents to bring the percentage down. Now in Bombay we have never had any such low standard, and on general grounds of theory. I think that it is far too low a standard We in Bombay have been content with not exceeding 50 per cent. Our local fund is about $2 \frac{1}{2}$ per cent. on the rental (because it is 64 per cent. upon the land revenue assessment which takes about 40 per cent : $\frac{40 \times 6 \cdot 25}{100}=2 \frac{1}{2}$ ).
21. Mr. Jayakar has collected rents for $\mathbf{4 2 , 9 2 3}$ acres of dry crop and rice out of a gross area of $\mathbf{1 2 6 , 9 8 2}$. Thus it is clear that at least $\frac{3}{3} \mathrm{rd}$ of the whole taluka and mahal tngether are actually leased on cash rental and to this must be added
the crop shares and produce reat area. I found in going through several villages even some additional areas thus cash leased beyond those he has noted. He had probably not included these rentals I found, because the transactions were open to some objection. However I think there is little doubt that at least half the total area is held by landlords who do not cultivate it. Now the rents which he has found upon the 42.923 acres do not include a large revenue from trees, especially toddy trees. The rent on the 1 -3rd of the total area is Rs. $5,36,180$ and exceeds the whole of the existing assessment of the whole taluka and mahal (Rs. 5,14,762), and does nnt fall very far short of the proposed new assessment, which my changes in grouping if accepted will tend to reduce. Thus we shall not be taking more than 40 per cent. of the rental as estimated from these aggregates. But the following table shows what result we get when we deal not with the gross aggregate rent of all the area but with the indices worked out for each group upon the average rents found in that group :-


Thus it will be seen that the general average for the taluka is about 37 per cent. of the unimproved rental and adding $2 \frac{1}{2}$ or even 3 per cent. for local fund we do not exceed the standard of 40 per cent. which is well inside the Corzon standard and is about 8 per cent. above what the Todhunter Committee propose as a desirable future moderate level at which we might aim. It is also lightest on the poorer groups. I therefore think that the rates proposed are such as can be unhesitatingly sanctioned. They have not enhanced the land-revenue by nearly so,great a percentage as the rents have increased.
22. Rice Grouping. - Mr. Jayakar has said as nearly as possible nothing about the rice grouping. The total area of rice in the taluka is about 17,000 acres compared with 99,000 dry-crop. Consequently the rice is not negligible. In the old settlement, the rice groups coincide with the dry-crop groups; that is to say, they are gmuped solely upon a priori considerations in respect of markets. Rice when separately assessed for snil and water facilities does not need to be grouped for climate. If a field reneives bad water supply it is put in a lower water class, and to put it again in a lower group for "dry climate" would be giving two concessions for the same defect. It has consequently been the practice usually to treat all rice when water is separately assessed as practically on a level, climatically. If it were not so. one would of course imagine that in the eastern parts approaching the Dangs the villages of Valod and Bardoli would be much more favourable for rice than in the west approaching the sea-coast plain, and therefore the higher rates for rice would be in the east and the lower in the west-which is exactly the reverse of the old grouping. Since however the climatic factor is removed there is not really very much left upon which rice can be grouped; for the rice must be almost all locally consumed, consequently markets, railway stations, and export facilities count for almost nothing; and when we tarn to the statistics of sales and rentals of the rice we find that this is so. We find that there is no marked superiority of places near to the markets, and if there is a little higher level in the western tracts, then it may be attributed to the fact that the rice area is smaller (in Group I there are only 3,700 acres-a much lower proportion than in the other groups) and that is why rice land still is in rather better demand. I cannot see the slightest reason why one should suppose that the rice groups should coincide with the dry-crop groups when the reasons are quite different, and when we turn to the statistics of rice rentals we shall find our suspicion quite confirmed, and there is merely a general higher level of rents in
the west not at all regularly distributed, and which can be attributed almost entirely to a more dense population. Rental figures for rice show that in many of the villages rice is more heavily assessed than dry-crop, and throughout Gujarat there is this tendency, though I admit it is not so marked in Bardoli (which is hardly Gujarat, because the east of it runs into the Dangs). I am convinced that we must boldly follow rentals particularly when we find that they do group themselves in a definite logical way.
23. In Group I, I am prepared to let most of the villages stay in the highest group but I pick out the following which certainly cannot, and it will be found that they form a quite consistent selection for incorporating in Group II :-
Chitra,
Kuvadia,
Kharad,
Gosarda,
Babla,

Goji,
Isroli,
Ancheli (good rental cn a very small area ; but bad sales), Bhuwasan.
24. In Group II we have proposed several villages to go up to Group I of the dry-crop; but I find that there are only five of these which can be similarly treated for rice and 2 more which can go up for rice but cannot go up for dry-crop. The villages which should go into Group I (Rice) are :-

| Khoj, | Afwa, |
| :--- | :--- |
| Pardi Kadod, | Gotasa, |
| Timbarva, | Bhatlav Moti. |

It will be seen that four of these are proposed for group I without discriminating between rice and dry-crop by Mr. Jayakar also. They do not coincide with the villages which I have selected as fit for dry-crop enhancement.
25. There is a very definite block of villages in Group II which should go down to Group III for rice. They show rice rental indices which could not support the rates proposed by Mr. Jayakar. These villages are-
Palsod,
Ruva,
Bharampur,
Bhamaia,
Falod Moti,
Vaghecha Kadod,
Uchrel,

Haripur,
Samthan,
Akoti,
Kalsad,
Bamni (poor sales),
Kantali (poor sales).
26. We now come to Groups III and IV, and on going over these I find that there are just as many bad villages in Group III as there are good villages in Group IV; and looking at the map it will be seen that this is quite natural. Considering that the rice is locally consumed and that it is all fairly good country for rice growing (worse in the north on the Tapti banks which are rather flat, and better as we go south-eastwards) the present groups which are solely based on cotton and oriented with reference to the distance from Surat and Nausari require undoubtedly to be disregarded and reconstructed on the basis of the rental statistics which the settlement officers 30 years ago unfortunately had not got. Now I put all the old III and IV groups in the melting pot, together with the 13 villages that I have already brought down from Group II, and then I shall leave the whole of them in Group III with the exception of the following villages which will form the new Group IV. Now if these villages are traced on the map one by one, it will be found that they form just as logical and connected a group as the old groups and they have this great merit over the old group that they coincide with the sale and rental statistics, while the old groups were in flat contradiction thereof :-

1. Singod,
2. Orgam,
3. Miyawadi,
4. Wadhwania,
5. Bhesudla, $\}$ (These nine villages were originally in Group III).
6. Bhatlar Nani,
7. Beldha,
8. Valod,
9. Pavran.
$\left.\begin{array}{ll}\text { 10. Alghat, } \\ \text { 11. } & \text { Jamnia, } \\ \text { 12. } & \text { Adapur, } \\ \text { 13. } & \text { Ranveri, } \\ \text { 14. } & \text { Golan, } \\ \text { 15. Virpur, } \\ \text { 16. } & \text { Kiher, } \\ \text { 17. Kalamkuva, } \\ \text { 18. } & \text { Vanskui, } \\ \text { 19. Bedkuva, } \\ \text { 20. } & \text { Dhamodle. }\end{array}\right\}$ (These eleven villages are already in Group IV

The rest of the present group IV should go up to Group III and will be found likewise to constitute a quite consistent group with the villages already recommended for Group III.

It will be found that four adjacent villages :

## Orgam IV, <br> Kalsad III, <br> Mangrolia II, Timbarva I,

have a sharp grouping gradient. But if we look closer at the map we shall find it is quite natural. Orgam is on the hill top watershed not well placed for rice: each of the succeeding villages is lower down the valley and better watered and so has more attractive rice cultivation and also we approach Bardoli and the Railway at each step. The rentals prove that classification has not sufficiently distinguished them.
27. In addition to the rice there is Bhatta or garden land in 11 villages divided in 2 classes of Dhekudi and Bhatta proper.
28. Rice rates.-The existing rice rates are Rs. 12, Rs. $10 \frac{1}{2}$, Rs. 9 and Rs. $7 \frac{1}{2}$. Mr. Jayakar proposes to raise all these by 25 per cent. so that they would then be Rs. 15, Rs. $13-2-0$, Rs. $11-4-0$, and Rs. $9-6-0$. If the groups had remained as Mr. Jayakar proposed them I should not agree to this. We should even have villages raised to the rice maximum of Rs. 15 which upon the statistics of rental have a rental index of less than Rs. 8 and there would be other outrageous anomalies of the same sort. But after having practically re-grouped the villages for rice and disregarded the quite illogical and demonstrably inaccurate grouping according to dry-crop conditions, then the villages will fall into groups to which Mr. Jayakar's proposed rates will be quite appropriate. On the whole I am rather lowering the general rice rates because I am proposing that considerably more villages should go down than should go up in their grouping. But then on the other hand, the effect of my dry-crop proposals will be to raise several villages in the grouping which of course is based mainly upon cotton and dry-crops, and as the increase in the dry-crop groups will be more truly about 30 per cent. we should be in danger of increasing the whole taluka more than we intend unless the rice rates are treated more moderately. But my rice grouping proposals will, so far I can judge without having the figures worked out in full detail, result in keeping well within the limits.
29. In order that there may be no uncertainty as to what I have proposed I have drawn up a list of all the villages as in Appendix L and I have marked for dry-crop Mr. Jayakar's proposals on one side and my proposals on the other, and it will be found that as to the dry-crop Mr. Jayakar and I disagree eventually as to only 32 villages out of 138. For the rice I have not repeated Mr. Jayakar's proposals, because they are just the same as he proposes for dry-crop. But I have shown my proposals (which are entirely at variance with his and not'at all the same as my proposals for the dry-crop) in a separate map, and I trust Government will not think it at all remarkable that the grouping for rice in this taluka and mahal should be regarded as a quite different proposition altogether from the grouping in respect of cotton. I am very satisfied with the result given by the rental statistics, because it will be found that they bring out the rental groups, particularly for rice, in a way which I am sure is correct from my knowledge of the taluka.

Ca $10-24$ -

I have also prepared two maps of Dry-crop and Rice Groups as I prefer them. There is no doubt that those villages down on the north of Group II on the south banks of the Tapti river were considerably overrated for their rice, and the villages on the ridges or water sheds of the taluka were not so favourably situated and not so popular for rice cultivation as was indicated by their old grouping.
30. Garden Crops.-Mr. Jayakar says nothing about them but simply recommends that the rates should be continued. He has given rental statistics for 3 villages only, and even here the areas are very small. Sale figures only relate to about 3 acres in the whole taluka and mahal, and consequently are far too limited for any conclusions at all. The aggregate garden area in Appendix $L$ is only 63 acres : the average assessment is about Rs. $10-10-0$. What rental statistics we have are very poor and seem to indicate that garden cultivation is not popular. But then of course these very few rented gardens may be unusually neglected. The Settlement Officer should certainly have given us the benefit of his opinion and results of his inspection. He says that he proposes no increase in view of the " multiple of assessment worked out above". I have not been able to discover what he refers to. Even the sale prices of garden land do not suggest much increase. In only one case where 24 acres were sold at 100 times the assessment have we any facts at all to go upon. The other petty sales were at very low rates, plainly for abandoned fragments. There is not a word in the report which gives me any help. Since I was able to visitSurat, I decided to go and see for myself as much as I could of the gardens in Bardoli and Chorasi. There are only 63 acres of garden in Bardoli taluka and of that 41 acres are in the three villages of :-

Kuwadia,
Chitra, and
Kharad,
which I visited. I found that the " garden" is not what we ordinarily understand in that it did not contain wells or other artificial irrigation, but is a deep alluvion exposed to inundations. Now these inundations of course give very heavy and rich crops, but there is also great damage to the land by scouring and cutting it up, and the general condition of the garden was not very alluring. I tried to find cash rents but could find none. They are all cultivated by their owners probably because no tenant is willing to pay an attractive rent for them. Mr. Jayakar has given us a very few patchy rents, and so far as there are any to be found anywhere they indicate a very low value indeed for the garden. My belief is that they are too highly assessed in the present desiccated condition of Gujarat. Mr. Jayakar proposes that the rates should be kept as they are. In my opinion they ought, following rents and sales, to be cut down by about 30 per cent. There are not in these alluvial gardens of Bardoli any of the valuable "bor" trees which are found in Chorasi.

This " garden" land is technically called Bhatta; and in several recent Settlements we have had to re-examine and re-class it. In Bardoli I see no such need, as none of the acreage I saw was materially altered. But it cannot have even the existing assessment and the maximum should be fixed Group I at 8; II at 7; IV at 5 Rs. (there is no Bhatta in old III).
31. The general conclusion from all the recorded statistics is that the taluka in 1896 was either overassessed or assessed right up to the full limit of half the rental value. During the post-war period rents have risen so that now there is no question of over assessment. Rice rates as throughout Gujarat were undoubtedly pitched higher in proportion than the dry-crop rates, and the general condition of rice lands shows that they cannot be increased in the same proportion. But in Bardoli (right on the confines of Gujarat and almost in the Dangs, where rice is the staple crop) this feature is hardly discernible. Nothing has been said in the report as to the rates prevailing in the Baroda territory which surround Bardoli-Valod. It would be very interesting to know what rates are collected in that enlightened province as compared with the rates we are collecting and propose to collect in our territory. Bardoli is perhaps almost the only taluka in the Presidency in which for about 30 years there has been no need to resort to any coercive methods or pressure for the recovery of the land revenue.
32. My own recommendation is that these rates should be sanctioned for not more than 15 years. I think it is impossible and also most unfair to sanction rates
for so long a period as 30 years. But if Government adhere to that policy they will have no difficulty in disregarding my recommendations.
33. I regret to find in the report no remarks upon the relations between landlords and tenants and there has been no attempt as in most of the talukas recently resettled to compile statistics showing the area rented and the area cultivated by its owners. The abundance of the statistics in Appendix $H$ lead one to the conclusion that the quantity of land rented by landlords to tenants must be very large. (See also para, 21 above.)
34. The comments of Mr. Macmillan upon Mr. Jayakar's report do not help us much. They ignore the very important fact that there is no connexion between a rise in rents and a fall in the value of money. It is perfectly possible that money should fall in value, that is, the price of every thing generally should go up, and yet rents should not go up (a condition very prominently marked to-day in France). This would happen if population declined and competition for land is lessened or if the distribution of the increased prices were such that the cost of production went up far more than the value of the gross produce rose. In fact, that very phenomenon can be excellently studied in England where Mr. Macmillan was when he wrote his remarks, where he would find that although values of agricultural produce have risen by about 75 per cent. since 1914, still not only have rents not risen (or not in anything like that proportion) but land is even relapsing to a lower cultivation than ever. The reason of course is that the rise in agricultural wages have more than swamped the increase in the price of produce.
35. The value of the report lies chiefly in its appendices. I regret to find the Assistant Settlement Officer and the Collector have so largely ignored the land values. The Report of the Todhunter Taxation Enquiry Committee just to hand strongly endorses the view, long accepted in Bombay; that (unimproved) rental values are the only sure foundation for Settlements.

F. G. H. ANDERSON,<br>Settlement Commissioner and Director of Land Records.

(Below Commissioner of Settlements' No. S.T.-490, dated 9th April/15th May 1926.)

No. S.R.V.-117.

Ahmedabad. Shahibagh, W. D. No. 1 :<br>25th August 1926.

## Revenue Department.

Submitted to Government.
2. I have no personal knowledge of the Bardoli Taluka or Valod Mahal to enable me to criticize the report. But it is quite evident from the rental figures given that the Assistant Settlement Officer has gone astray in many of his proposals from neglect of Appendices $G$ and $H$ upon which he should have mainly depended. I accept the Commissioner of Settlements' dry-crop rates and grouping with some hesitation as regards the villages east of the river which separates them from Bardoli. Tajpur Khurad, Tajpur Valod and Vadhava show very poor rental figures : their indices are lower than the rates proposed for them. But they are surrounded by villages of the first and second group and cannot conveniently be grouped otherwise than with the latter. Both the Assistant Settlement Officer and the Commissioner of Settlements who have local knowledge of the tract agree in rating them somewhat higher than their indices appear to warrant. I therefore yield to their view of the matter; and accept the Commissioner of Settlements' dry-crop rates and grouping in toto.
3. As regards rice, the Commissioner of Settlements who knows the tract well states that it is consumed locally, not exported. The reasons which underie the dry-crop rating do not therefore apply to the rice groups: and he has proposed a different grouping for wet cultivation. His reasoning is borne out by the statistics of leases and sales. These show clearly that the sale and lease values of dry-crop and rice land in the same village are by no means proportionate. The Commissioner of Settlements has made out his case for a separate grouping in the case of rice and here too I support his recommendations as regards rates and grouping.
4. Garden crops are said by the Commissioner of Settlements not to be popular in Bardoli. I accept his proposal to reduce the rates on the garden or bhatha land.
5. The objections received are quite worthless.

G. E. CHATFIELD,<br>Commissioner, Northera Division.

Statement contrasting groups proposed by Mr. Jayakar and Settlement Comimissioner.


Ca $10-25+$



Out of 138 villages I differ from Mr. Jayakar's grouping in respect of-
Dry Crop 23 villages raised, 9 reduced $=32$.
Kice 16 villages raised, 38 reduced $=54$.
Bhatta, all reduced.
F. G. H. ANDERSON,

Commissioner of Settlements.

Revision Settlement.
Bardoli Taluka and Valod Petha, Surat District.
Second - of,

## GOVERNMENT OF BOMBAY.

## Revenue Department.

Resolution No. 7259/24.
Bombay Castle, 19th July 1927.
Memorandum from the Commissioner, N. D., No. S.R.V.-117 dated 25th August 1926-Submitting, with his remarks, the papers specified below*, containing proposals for the second revieion settlement of the Bardoli Taluka and Valod Peths of the Surat District, together with certain petitions of objections relating thereto.
*Letter from Mr. M. S. Jayakar, Assistant Settlement Officer, Bardoli Taluka and Valod Petha, dated 30th June 1925.

Memorandum from the Collector of Surat No. S.R.V.-53 dated 11th November 1925.

Memorandum from the Commissioner of Settlements No. S.T.-490 dated 9th April 1926.

Resoldtion.-These papers contain proposals for the revision settlement of 137 Government villages in the Bardoli Taluka and Valod Petha of the Surat District.
2. The report shows that the taluka and petha have advanced in prosperity in the course of the past thirty years. The certain indications of prosperity are the increased demand for land and its increased value as shown by the statistics of sales and leases, which have been carefully compiled by the Settlement Officer, the higher rate of wages and the growth of population. But the most striking feature of the history of the settlement has been the development of cotton cultivation. Before the settlement was introduced the area under cotton was 25,990 acres. It is now 40,099 acres. Cotton has largely replaced jowari which has decreased from 27,554 acres to 18,642 acres. After taking these various factors into consideration the Settlement Officer proposes an increase of 30.59 per cent. in the total revenue of the teluka and petha.
3. The Settlement Officer proposes to divide the villages into four groups as shown below :-

| Group. |  |  |  | Number of villages |
| :---: | :---: | :---: | :---: | :---: |
| I | $\ldots$ | $\ldots$ | $\ldots$ | 50 |
| II | ... | ... | ... | 26 |
| III | ... | ... | $\cdots$ | 37 |
| IV | $\ldots$ | ... | ... | 24 |
|  |  |  |  | 137 |

The Commissioner of Settlements has most exhaustively analysed this grouping, but is unable to accept it, inasmuch as the Settlement Offioer has not taken sufficiently into account the statistics of sales, leases and rental values which he has collected. In view of the great difference in the sale and rental values of dry-crop and rice lands, the Commissioner. of Settlements has proposed entirely different groups for these two classes of land. Government approve this distinction for the reasons given by Mr. Anderson, and they are accordingly pleased to sanction the grouping as shown below :-

| Group. |  |  | Dry-orop. | Rica |
| :---: | :---: | :---: | :---: | :---: |
| I | $\ldots$ | $\ldots$ | 54 | 36 |
| III | $\ldots$ | $\ldots$ | 29 | 18 |
| III | $\ldots$ | $\cdots$ | 34 | 57 |
| IV | $\cdots$ | $\cdots$ | 20 | 20 |
|  |  | Total | $\ldots$ | 137 |
|  |  |  |  | $131 \dagger$ |

$\uparrow$ There are no rice lands in the remaining six villages.
4. The Settiement Officer proposes the following dry-crop and rice rates, which would yield an increase of 25 per cent.:-

|  | Group. | Maximam drycrop rates. | Maximum rice ratoe. |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Soil | Water. |
|  |  | Rs. a. | Rs. a. | Rs. $\frac{1}{}$ |
| I | ... | 78 | 78 | 78 |
| II | ... | 64 | 64 | 614 |
| III | ... | 50 | 50 | 64 |
| IV | $\ldots$ | 312 | 312 | 510 |

In view of his complete re-arrangement of the villages based as stated in paragraph 3 above upon the statistics of lease and rental values for dry-crop lands, the Commissioner of Settlements proposes the following rates :-

| Group. |  |  | Maximum dry-cro |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | . |
| I | ... | ... | ... |  | 0 |
| II | $\ldots$ | $\ldots$ | ... | 6 | 8 |
| III | $\ldots$ | ... | $\ldots$ | 5 | 4 |
| IV | ... | ... | ... |  | 12 |

For the same reason he approves the rice rates for both soil and water suggested by the Settlement Officer. As already stated, there has been a great development of cotton cultivation in this taluka, and one of the determining factors in fixing the new dry-crop rates is therefore the price of cotton, which is never absolutely stable. In order to make allowance for the fall in cotton prices and for the probability of some decline in rentals taking place in consequence thereof, and thus to obviate any possibility of hardship to the payers of land revenue, Government are pleased to direct that the present dry-crop rates shall be increased by 20 per cent. only. Government see no reason to make any alteration in the rice rates for both soil and water as proposed by the Settlement Officer, and these rates are accordingly sanctioned. The dry-crop and rice rates now sanctioned are :-

|  | Group. | Maximum rates. |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Dry-crop. | Rioe. |  |
|  |  |  | Soil. | Water. |
|  |  | Rs. ${ }^{\text {a }}$ | Rs. a. | Rs. a. |
| I ... | $\ldots$ | 74 | 78 | 78 |
| II ... | $\cdots$ | 60 | 64 | 614 |
| III ... | $\cdots$ | 412 | 50 | 64 |
| IV * ... | $\ldots$ | 310 | 312 | 510 |

5. The present garden rates are Rs. 11, 10 and 7 for Groups I, II and IV. There are no garden lands in Group III and the garden area in the remaining groups is only 67 acres scattered over 8 villages. The garden lands in this taluka are of an inferior character and after a careful examination of
them the Commissioner of Settlements recommends that the present rates be reduced by approximately 30 per cent. The Governor in Council concurs in this recommendation. The following garden rates are therefore sanctioned :-

| village. |  |  |  | Old rates. |  | Rates now sanotioned. R日. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Rs. |  |
| Vaghecha Sar |  | $\cdots$ | ... | $\cdots$ |  |  |
| Chhitra | $\cdots$ | , | $\cdots$ | $\cdots$ | 11 | 8 |
| Kuwadia | ... | $\cdots$ | $\cdots$ | $\ldots$ |  |  |
| Bhamaiya | $\ldots$ | $\cdots$ | $\ldots$ | $\cdots$ |  |  |
| Uchharel | ... | $\ldots$ | $\ldots$ | ... | 10 | 7 |
| Velhad Buhari | $\ldots$ | ... | $\ldots$ | ...) |  |  |
| Pelad Buhari | ... | ... | ... | ... | 7 | 5 |

6. Orders will be issued separately on the Settlement Officer's recommendation in paragraph 66 of his report that the concessions with regard to mafi kachha lands should be continued.
7. The appended statement* shows the grouping and revised rates now sanctioned. These rates involve an increase throughout the taluka of 21.97 per cent. as against increases of 29.03 per cent. and 30.59 per cent. recommended by the Commissioner of Settlements and the Settlement Officer respectively. They should be introduced during the current revenue year 1926-27, levied from the revenue year 1927-28 and guaranteed for a period of thirty years.
8. The above orders have been passed after the most careful consideration of the petitions of objections and representations which Government have received in connection with the revision settlements both of this and of Chorasi Taluka. The objections are the same in both cases, and have been dealt with in detail in the orders of Government on the settlement of the Chorasi Taluka contained in Government Resolution No. 7544/24 dated 19th July 1927.

> By order of the Governor in Council,

A. E. SERVAI,<br>Acting Deputy Secretary to Government.

## To

$\dagger$ The Commissioner, N. D.,
$\dagger$ The Collector of Surat (with the petitions of objections),
$\ddagger$ The Commissioner of Settlements,
$\dagger$ The Accountant General,
$\dagger$ The Public Works Department, $\dagger$ The Finance Department, The Government of India (by letter).
*Printed as an accompaniment to this Resolution.
$\dagger$ With an intimation that the papers are being printed in the form of selections from the records of Government and that when they are ready the usual number of copies will be supplied to them.

## Accompaniment to Government Resolution, Revenue Department, No. 7259/24 dated 19th July 1927.

Statement referred to in paragraph 7 of Government Resolution No. 7259/24
dated 19th July 1927.
Group I.

| Maximum | Maxinum <br> Dry-orop rate. |
| :---: | :---: |
| Dry-orop rate. |  |
| Rs. a. p. | Rs. a. p. |

1. Akoti
2. Amalsadi


Group II.


Group III.


Group III-continued.


Group IV.

| 1. Godhe | ...) |  | 11. | Jamania | ...) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2. Golan | , |  | 12. | Kalamkuwa | , |  |
| 3. Hathuka | $\cdots$ |  | 13. | Kiher | ... |  |
| 4. Adyapote | $\cdots$ |  | 14. | Nalon | ... |  |
| 5. Agasia | ... | 3100 | 15. | Nalotha | ... | $310 \cdot 0$ |
| 6. Algat | $\ldots$ | 310,0 | 16. | Palad Buhari |  | 310 |
| 7. Ambach | ... |  | 17. | Ranveri | $\ldots$ |  |
| 8. Bedkuwa | ... |  | 18. | Vanskai | $\ldots$ |  |
| 9. Bhịmpore | ... |  | 19. | Vedchhi | $\ldots$ |  |
| 10. Dhamodia | ...) |  | 20. | Virpor | ... |  |

Group $I$.

| Maximum Rice rates. | Maximum | Rice ratesi |
| :---: | :---: | :---: |
| Soil. | Water. | Soil. |

Rs, a. p. Rs, a. p.
Rs. a. p. Rs. a. p.


## Group II.




Group III.


Group III-continued.


Maximum Rice rates.

## Goil. Water.

Re. a. p. Rs. a. p.

## Soil. Water.

Rs. a. p. Ks. a. p.



Group IV.


Revision Settlement.
Bardoli Talnka and Valod Petha, Surat District.
Second - of,

## GOVERNMENT OF BOMBAY.

## Revenoe Department.

Resolation No. 7259/24.
Bombay Castle, 30th March $19: 28$.
Letter from the Collector of Surat No. S.R.V. 53, dated 10th March 1928-Reporting inter alia on the petitions of objections received from certain villages of the Bardoli Taluka to the rerised rates of assessment sanctioned by Government for the Bardoli Taluks and Valod Petha in Government Resolution, No. 7259/24, dated 19th July 1927.

Memorandom from the Commissioner, N. D., dated 13th March 1928.
Letter from the Collector of Surat No. S.R.V. 53, dated 15th March 1928-Reporting on the petitions of objections from certain villages of the Valod Petha.

Memorandam from the Commissioner, N. D., dated 17th March 1929.
Resolution.-After careful consideration of the points raised in the petitions of objections, Government adhere to the maximum rates of assessment already approved by them for the different groups of villages in the Bardoli Taluka and Valod Petha in Government Resolution, No. 7259/24, dated 19th July 1927, but in the case of certain villages they are pleased to direct that the grouping shall be altered as shown below:-

## Dry-crop.

(1) From group I to group II
(2) From group II to group III
(3) From groap III to groap IV
... Chhitra, Kharad, Knnwadia and Timberwa.
... Delvada and Pavran.
... Dumkhal and Mordevi.
Rice.
(4) From group III to group IV
... Agasia, Ambach, Bahej, Bhimpore, Dumkhal, Kanjod, Kasvav, Kosambia, Kumbhia, Mordevi, Nalon, Nalotha, Pelad, Buhari and Vedchhi.
2. Goveroment have reason to apprehend that in certain villages some soil deterioration may have taken place owing to washing by streams. The Commissioner of Settlements should therefore be requested to instruct the Superintendent of Land Records, Northern Division, to investigate this question with a view, if necessary, to the revision of the soil classification of any fields found to be so affected.
3. The Collector of Surat should be requested to inform the petitioners accordingly.

By order of the Governor in Council,

> G. K. JOSHI, Under Secretary to Government.

To
The Commissioner, N. D.,
The Collector of Surat (with the petitions of objections),
The Commissioner of Settlements,
The Accountant General,
The Finance Department,
The Government of India (by letter).

## Revision Settlement.

Bardoli Taluka including Valod Mahal and Chorasi Teluka, Surst District.
Enquiry into the - of,

# GOVERNMENT OF BOMBAY. 

## Refenoe Department.

Resolution No. 7259/24.
Bombay Castle, 18th October 1928.
Resolution.-With reference to the Press Communiqué No. P. 160 dated 6th August 1928, the Governor in Council is pleased to create for a period of five months with effect from 1st November 1928 the appointments of Judicial Officer and Revenue Officer for the purpose of an enquiry into the revision settlement of the Bardoli Taluka including Valod Mahal and Chorasi Taluka in the Surat District and to appoint Mr. R. S. Broomfield, I.C.S., Judicial Commissioner in the States of Western India, as the Judicial Officer and Mr. R. M. Maxwell, C.I.E., I.C.S., former Collector of Dharwar and officiating Secretary to Government in the General, etc., Departments, as the Revenue Officer.
2. These officers should enquire into and report upon the complaint of the people of the Bardoli Taluka and Valod Mahal and Chorasi Taluka-
(a) that the enhancement of revenue recently made is not warranted in terms of the Land Revenue Code,
(b) that the reports accessible to the public do not contain sufficient data warranting the enhancement and that some of the data given are wrong;
and should find that, if the people's complaint is held to be justified, what enhancement or reduction, if any, there should be upon the old assessment.
3. As the enquiry is to be full, open and independent, the persons interested should be allowed to lead as well as to test evidence before the officers with the help of their representatives, including legal advisers.
4. The Judicial Officer should take part in the enquiry thronghout and his decision should prevail in all matters of difference between him and the Revenue Officer.

By order of the Governor in Council,

> J. W. SMYTH, Secretary to Government.

To

The Commissioner, Northern Division,
The Collector of Surat,
The Commissioner of Settlements,
The Accountant General,
The Elome Department,

The General Department, The Finance Department, R. S. Broomfield, Esquire, I.C.S.,
R. M. Maxwell, Esquire, C.I.E., I.C.S., The Government of India (by letter).

[^3]Revision Settlement.
Bardoli Taluka, including Valad Mabal and Chorasi 'Taluka, Surat District.
Enquiry into the - of,
GOVERNMENT OF BOMBAY.

- Revenur Dipartuent.

Resolution No. 7259/24.
-
Bombay Castle, 7th May 1929.
Read Government Resolutions No. 7259/24 and No. 7541/34, dated 19th July 1927, and No. 7259/24, dated 30th March 1928.

Read also Government Resolation No. 7259/24, dated 18th October 1928-Appointing Mr. R. S. Broomfield, I.C.S., and Mr. R. M. Maxwell, C.I.E., I.C.S., on special duty for the purpose of inquiring into the revision settlement of the Bardoli Taluka, inclading Valod Mahsl and Chorasi Talnka in the Sarat District.

Letter dated 12th April 1929 from Mr. R. S. Broomfield, I.C.S., and Mr. R. M. Maxwell, C.I.E., I.C.S.-Submitting the report called for in the Government Resolution of 18th October 1928.

Rbsoldion.-The report, for which the thanks of Government are due to Messrs. Broomfield and Maxwell, should be published for general information.
2. While not prepared at the present stage to commit himself to any conclusions on questions of general principle discussed in the report or the methods of application of the principles adopted therein, the Governor in Council accepts the specific recommendations as to maximum rates and grouping of villages and will take steps to give effect to them forthwith.

## By order of the Governor in Council,

## J. W. SMYTH, Secretary to Government.

## To

The Commissioner in Sind,
The Commissioner, N. D.,
The Commisaioner, C. D.,
The Commissioner, S. D.,
The Commissioner, Bombay Saborban Division, The Collector of Surat,
All other Collectors, including the Deputy Commissioner, Upper Sind Frontier, The Settlement Commissioner and Director of Land Records,
The Director of Information,
The Private Secretary to His Excellency the Governor,
The Public Works Department,
The Finance Department,
The Home Department,
R. S. Broomfield, Esquire, I.C.S.,
R. M. Maxwell, Esquire, C.I.E., I.C.S.,
M. S. Jayskar, Esquire.

Revision Settlement.
Bardoli Taluka, including Valod Mahal and Chorasi Taluka, Surat District.

# GOVERNMENT OF BOMBAY. 

## Revende Department.

Resolution No. 7259/24.
Bombay Castle, 4th October 1929.
Read Government Resolution No. 7259/24 dated 19th July 1927.
Read Government Resolution No. 7544/24 dated 19th July 1927.
Read Government Resolution No. 7259/24 dated 30th March 1928.
Read Government Resolution No. 7259/24 dated 7th May 1929.
Resolution.-In Government Resolution No. 7259/24 dated 7th May 1929 Government accepted the recommendations made by Messrs. Broomfield and Maxwell, regarding the maximum rates and grouping of villages in the Bardoli and Chorasi talukas. - In accordance with these orders the revised rates would have been levied in all villages with effect from the revenue year 1927-28 in lieu of the rates which were sanctioned in Government Resolutions No. 7259/24 dated 19th July 1927 and No. 7544/24 of the same date and guaranteed for a period of thirty years commencing with the revenue year 1927-28. In the case however of the rates for the villages which were guaranteed in 1927-28 and which are shown in the apperided statements, it will not be legal to alter them and to levy the rates recommended by Messrs. Broomfield and Maxwell, because the latter rates are higher than the former. In these cases therefore the rates sanctioned in 1927 should be levied as shown in the statements.
2. The villages mentioned in the statement for the Bardoli Taluka include the villages of Ambach and Vedchhi. The soil rate for rice sanctioned for them and guaranteed from $1927-28$ was Rs. 5 per acre, but as for the purposes of the soil assessment these villages were reduced from a higher to a lower group in 1928, the revised soil rate leviable in them was Rs. 3-12-0. As, however, the latter rate has not been guaranteed and as the rate (Rs. 4) recommended by Messrs. Broomfield and Maxwell is lower than the rate (Rs. 5) guaranteed in 1927, the rate of Rs. 4 should be fixed in respect to these villages.
3. Effect should now be given to the recommendations approved in Government Resolution No. 7259/24 dated 7th May 1929, subject to the modifications hereby sanctioned. The akarbands should be prepared in conformity with these orders, and the land revenue demand should be made accordingly with effect from the revenue year 1927-28. The usual Igatpuri concessions should be granted.

By order of the Governor in Council,

|  | G. K. JOSHI, <br> Under Secretary to Governmenti |
| :--- | :--- |
| To |  |
| The Commissioner, N. D., |  |
| The Collector of Surat, | The Private Secretary to His Excellency |
| The Settlement Commissioner and | the Governor, |
| Director of Land Records, | The Publio Works Department, |
| The Accountant General, | The Finance Department, |
| The Remembrancer of Legal Affairs, | R. S. Broomfield, Esquire, I.C.s., |
| R. M. Maxwell, Esquire, C.I.E., I.C.S. |  |

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## Accompaniments to Government Resolution, Revenua Department,

 No. 7259/24 dated the 4th October 1829.STA'TEMENTS.
Bardoli Taluka and Valod Mabal.
Maximum rates guaranteed from 1927-28.

Vedchhi ... ... ... ... 3

|  |  |  |  |  | Rice (soil). |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ancheli | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Babla | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Bhavasan | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Goji | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Gosarda | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Rajpur Lumbha | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 6 | 4 | 0 |
| Akoti | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Bamni | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Bharampore | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Kantali | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Palsod | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Ruva | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Samthan | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Bhamaiya | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Falod Moti | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Haripara | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Kalsod | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Uchhrel | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Vaghecha Kadod | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 5 | 0 | 0 |
| Beldha | $\ldots$ | $\ldots$ | $\ldots$ | . | $\ldots$ | 3 | 12 | 0 |
| Bhatlav Nani | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 3 | 12 | 0 |
| Bhensudla | $\ldots$ | $\ldots$ | $\ldots$ |  | $\ldots$ | 3 | 12 | 0 |


|  |  |  |  | Dry crop. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Miyawadi | $\ldots$ | $\ldots$ | $\ldots$ | ... | 312 | 0 |
| Orgam | $\ldots$ | $\ldots$ | $\ldots$ | ... | 312 | 0 |
| Pavran | $\ldots$ | $\ldots$ | ... | ... | 312 | 0 |
| Singod | ... | $\ldots$ | $\ldots$ | ... | 312 | 0 |
| Vadhwania | ... | ... | ... | $\cdots$ | 312 | 0 |
| Valod | ... | ... | ... |  | 312 | 0 |

Chorasi Talura.
Maximum rates guaranteed from 1927-28.

| Name of village. |  |  |  | Dry crop and rice (s Rs. a. p. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Singanpor | ... | ... | ... | ... | 71 | 12 | 0 |
| Tunki | ... | ... | ... | ... | 71 | 12 | 0 |
| Dabholi | ... | $\cdots$ | ... | ... | 6 | 8 | 0 |
| Fulpada | ... | ... | ... | ... | 6 | 8 | 0 |
| Kambbaris | $\cdots$ | ... | ... | ... | 6 | 8 | 0 |
| Bamaroli | $\ldots$ | ... | . | $\cdots$ | 6 | 8 | 0 |
| Bhadwad | $\cdots$ | ... | ... | ... | 6 | 8 | 0 |
| Dantora | ... | ... | ... | ... | 6 | 8 | 0 |
| Gowalak | ... | $\cdot$ | $\cdots$ | ... | 6 | 8 | 0 |
| Pandesara | ... | $\ldots$ | ... | ... | 6 | 8 | 0 |
| Sonari | ... | - | ... | $\cdots$ | 6 | 8 | 0 |

## Revision Settlement.

Bardoli and Chorasi talukas.
Reclassification of land.

# GOVERNMENT OF BOMBAY. 

## Revenue Department.

Resolution No. 7259/24.

## Bombay Castle, 3rd January 1930.

The Committee appointed by Government to inquire into the revision settlement of Bardoli Taluka (including Valod Mahal) and Chorasi Taluka of Surat District has made certain recommendations in paragraphs 125, 126, 127, 132, 140 and 143 of its report regarding the classification of lands in these talukas. Government are now pleased to pass the following orders on these recommendstions:-

Paragraph 125-The Committee have noticed that certain lands in the villages of Supa of the Bardoli Taluka which were formerly classed as garden, but have subsequently been reclassed as dry-crop, continue to bear rates of assessment approximating to those of garden lands, and that inspection of such lands did not reveal any reason for this high classification. They have recommended that the classification of this village should be thoronghly overhauled.

This recommendation is sanctioned and Government are pleased to direct that the classification value of all land formerly classed as garden which is now classed as dry-crop should be examined, and in addition a test of the existing classification of all types of land in the village should be made. The necessity of extending the reclassification to all the lands of the village will be judged from the results of this test.

Paragraph 126.-The Committee have recommended that the suitability of the sub-soil water assessment should be re-examined in the Bardoli Talaka in the light of present conditions in order to determine how far this form of assessment is now justified by actual use of the advantages assessed.

This recommendation is sanctioned. The re-examination should be complete throughout both the Bardoli and the Chorasi talukes.

Paragraph 127.-The Committee have noticed that in the Bardoli Taluka only a very small proportion of the land classed as "new rice" is ever used for rice cultivation, and they have accordingly recommended that "new rice" land which cannot be shown to have grown rice (other than the "Kavchi " variety) during the last five years should be reclassed as dry-crop.

The recommendation is sanctioned and Government are pleased to direct that an inquiry should be made by a Revenue Officer as to the survey numbers which on the above principle are to be converted to dry-crop.

Paragraph 132.-In proposing the reduction of the present rates for garden lands in the Bardoli Taluka the Committee have stipulated that these lands, which are not numerous, should be carefully examined with a view to the exclusion of those which are not rightly classed as garden. They tave also recommended that any reclassification now undertaken in the case of such lands should be done in such a manner as to avoid the results noticed in paragraph 125 in the case of Supa village.

These recommendations are sanctioned. The re-examination should be complete in the Bardoli Taluka and reclassification should be made in cases. where it appears prima facie that the existing classification is erroneous.

Paragraph 140.-The Committee have noticed cases in the Chorasi Taluks in which what was clearly dry-crop land had been wrongly classed as garden. Instances are quoted in Kapletha and Kumbharia villages of that taluka. The Committee have remarked that the only remedy in such cases is reclassification, which they hope will be undertaken in due course.

The recommendation is sanctioned. The garden land, including bhatha, in the villages mentioned should be re-examined and reclassification done where prima facie resson is found to exist. Similar examination should be made in the case of any other lands of the Chorasi Taluka in regard to which applications are received from the occupants.

Paragraph 143.-The Committee have noticed generalty in the Chorsasi Taluka that the assessment per acre tends to be far in excess of the maximam rate as 8 result - of the system of classification adopted. This tendency, it is stated, is not confined to any particular class of land, and in the opinion of the Committee the effect is to some extent to conceal the real pitch of assessment in the taluka. The Committee has therefore suggested the desirability of devising a system of classification by which assessment can be expressed in terms of a real maximuma rate.

In order to enable Government to judge how far a change in the system of classification is necessary or desirable it is directed that in the village of Kharwasa, which has been quoted as an instance by the Committee, a sufficient number of the fields which are assessed well ahove the maximam rate should be examined in order to see whether their high classification is correct. Government will then decide what further action, if any, is necessary in order to meet the recommendation of the Committee.

In carrying out all the tests above directed the aim of the officers concerned should be to see not only whether the classification is in accordance with the classification rules, bat whether these rules require alteration because the results they produce are inequitable. The Superintendent of Land Records, Northern Division, is being directed to give his special atiention to this point, and the Collector of Surat is requested also to investigate it.

By order of the Governor in Council,

## A. E. SERVAI,

For (G. K. JOSHI), Under Secretary to Government.

# GOVERNMENT OF BOMBAY. 

## Retenue Department.

Resolution No. 7259/24.

Bombay Castle, 5th October 1931.

## Memorandum from the Superintendent of Land Records, N. D. (Mr. C. D. Kavi), No. S.R.V. 237, dated the June 1930:- <br> "The Government Resolution, No. 7259/24 of 3rd Jantary 1930, was received on

 26th Januery, and the work was commenced in Bardoli by 3 Field Party. Surveyors on the 30th idem. One Field Party Surveyor was added later on 17th March 1930. In Chorasi the work was commenced from 14th March 1930 by 2 Field Party Surveyors. One classer was withdrawn from Bardoli from 24th April and he was sent to Chorasi, and by 5th May the work in Bardoli was suspended after publishing a notice in the form of Appendix I, sending all the 3 classers to Chorasi. The work was to be done in 38 villages in Chorasi out of 76 villages in the taluks, and it has been completed; and in Bardoli and Valod it was done in 34 villages out of 137 villages in the talaka (Appendix II). It may be stated that after publishing the notice in form I in Bardoli and Valod, only three applications from a few occapants in three villages noted in the1. Paldiwagha.
2. Vadhvanis.
3. Balds. margin were received, and the work could be done in Balda only, were not willing to get the work done now. Before commencing work in each village, a notice in the form of Appendix $J$ was published at each village a week in advance, and besides the prati books, where necessary, statements in the form of Appendices A to I were prepared for each village, as has been reported in paragraph 7 of my No. S.R.V. 237 of 19th February 1930. The procedure adopted by me was approved in your No. S.T. 490 of 24th Febraary 1930 and S.T. 490 of 25 th April 1930. Test was taken by the District Inspector of Land Records in 29 villages in Chorasi and in 28 villages in Bardoli, and by me in 19 villages in Chorasi and 15 villages in Bardoli. 'I'he Settlement Commissioner and Director of Land Records (Mr. Punjabi) had tested the work in 13 villages in Chorasi and 2 villages in Bardoli-Supa being one of the twoand (Mr. Bristow) in 6 villages in Chorasi, and in 2 villages in Bardoli (vide Appendix II). The Collector had visited Rander and Adajan with the Settlement Commissioner and Director of Land Records (Mr. Bristow) ; and the Commissioner, N. D., was pleased to see the work in Rayam in Eardoli with me.
" 2. Paragraph 143 of the Special Enduiry Committee.-(a) The Committee has suggested the desirability of devising a system of classification, by which assessment can be expressed in terms of a real maximum rate, and Government in their Resolution of January last hape directed to examine a sufficient number of fields in Kharvasa, which are assessed much above the maximum rates, in order to enable them to decide what action is necessary to meet the recommeadation of the Committee.
(b) This point has been fully dealt with in my report No. S.R.V. 237 of 28th June 1929, which has been quoted below for ready reference and to make this report self-contained :-
' Reference is requested to pages 96 and 97 of the Survey and Settlement Manual, Volume I, which clearly explains why a scale higher than 16 annas was adopted, and how the term "maximum rate" is a misnomer; with the progress of the survey, the 16-arna scale was found too restricted to cover the whole field of classification. The joint rules enunciated faults, but omitted to prescribe opposite advantages, and it was soon found, as experience was gained, that in the interest of the relative valuation of soils it was just as necessary to recognise advantages as to allow deductions for faults. The result of extending the scale above 16 annas was that the maximam rate and the nuaximum assessment for lands classed according to the rupee-scale system ceased to coincide. Thus the term "maximum rate" is reslly a misnomer, the true " maximum rate", i.e., the highest maximum rate at which any particular class of land is assessed being that which results from the application of the survey " maximum rate" to the classification of the best land of that class, which may, as in the case of attam bagayat lands in Surat, amount to more than 3 times the "maximum rate" of the survey. This scale higher than 16 annas has been adopted in the whole of Gajarat, where it was neceasary. This has been ascertained by a reference to the akarbandh of

Kasandra (taluka South Daskroi, Ahmedabad), and Shaklatirtha (taluka Broach of that district). For the Panch Mahals District, reference is requested to paragraph 24 at page 10 of Selection CLXV (Revision Settlement Report of Jhalod Taluka, 1885), and paragraph 21 at page 10 of Selections CLXVI (Revision Settlement Report of Dohad Taluka, 1885), whers for special fertility of the tract, a scale of 24 annas was adopted. This point was discussed with Mr. Braham in 1924, when he was Assistant Settlement Officer for Dohad and Jhalod, as would appear from nay D. O. dated 13th Febrnary 1924 (copy appended). It has also been adopted in several talukas of the Surat District, as would appear from references given below:-

Olpad.-Paragraph 41, page 9 of Selections CCCLXI-New Series. The statement in this paragraph that the classification in Chorasi rarely exceeded "16 annas is not correct as would appear from the reference aboat Chorasi given below.

Chorasi.-Paragraph 60 at page $4 i$ of Selections CCCLX-New Series.
Bardoli.-Paragraph 56 at page 13 of Selections CCCLIX—New Series.
This higher scale has been adopted after considersble experience by officers whose only duty was classification and settlement and who had got a very clear and comparative idea about the soils in several districts and, as shown above, it has been adopted in all the districts of Gajarat, where necessary. The difficulty of comparison mentioned in the concluding portion of paragraph 143 of the Bardoli-Chorasi Special Enquiry Report is considersbly reduced, if not eradicated. If real "maximum rates" suggested in the concluding portion of paragraph 143 are to be proposed and introdaced, the maximum rates will be higher, and the classification of lands shall have to be proportionately reduced, if only 16 -annas scale is to be adopted, which will involve labour and cost ; and if the present classification is not to be altered, the maximum rates shall have to be increased, which will create misunderstanding. Besides, the high scale is an exception, pand not the rule; and, therefore. it is not desirable to reduce the classification and increase the maximum rates of the bulk of the area to avoid special treatment of a small area.

To make the suhject clear and by way of illustration of the classification method mentioned above, it will not be out of place to give aynopsis of the principal kinds of land, their classification, and the maximum rates. I had many opportanities to verify the classification in several districts, and I can say that the classification is uniform and correct, except where there has been obvious error, or where land has deteriorated on account of khar (salt), or scarcity of water (sub soil, or of tanks or canals). The principal classea of jirayat are as under:-
Class.
(a) Ordinary jirayat
(b) Uttan jirayat (including) ... Uttam prakar without sub-soil

M8ximum soil.

Clasgification.
Sub-soil water, Sub-soil water,
if svailable.

5

To (b), the maximum rates of (a) are applied, except in Kasandra (South Daskroi Taluk of the Ahmedabad District), where a higher rate than (a) has been sanctioned for (b).

## Clase.

(c) Natural bagayat-
(i) Uttam prakar
(ii) Uttam bagayat

Maximum soil.

Clagsification. if available.

6 often 3 12
(c) is mostly found in the Sarst District. In Chorasi and Bar loli, the maximam rates of (a) have been applied to (c:. In Chikhali, Jalalpur, Bulsar and Pardi, the maximum rate of (c) is higher than (a). The reason is clearly explained in paragraph 45 at page 18 of Selection CCCLXXXI-New Series (Chikbali Settlement Report, 1899), where it is stated that ": In Bardoli, where the ordinary jirayat soil was of high quality, and adruitted of the imposition of dry crop maximum rates, ranging from Rs. 6 to Rs. 3, a single rate was sufficient, the difference between the value of jirayat and bagayat soil being adequately represented by the difference in classification. As it is, our classification rises to 56 annas, and could not possibly be raised without unduly increasing the dificulty of the classer's work and enlarging the limits of his discretion to a most unsafe extent. We are, therefore, obliged to fall back on the expedient of different rates for different classes of land. It may be added that the practice in Palghar and Bassein,

- where there are large areas of good garden lands, is also sinilar.


For a description of different classes of land and their relative classification, reference is requested to :-
(a) Paragraph 10 at page 35 of Selection CCCLX-New Series, Chorasi Settlement.
(b) Paragraph 44 at page 16 of Selection CCCLXXXI-New Series, Chikhali Settlement.
(c) Pages 339 to 356 of the Survey and Settlement Manual, Volume II.

It would appear that by adopting saitable classification scales and maxinum rates an attempt has been made to fix aseessment in proportion to the capscity of the soil. The classification, which represents the foundation, should not be altered, except where there is obviaus deterioration. The maximum rates, which correspond to the superstructure, may be altered to suit conditions of the particular period.

It may be added that at page 97 of the Survey and Settiement Manaal, Volume I, it has been stated that "In the Bombay Presidency, the maximum rate is always applied to 16 annas land ". Even this rule has been modified to suit local situation. In Palghar and Bassein, the maximum garden rate is applied to 24 -anna land, and in the Dholka Talaka, the maximum water rate is applied to 24 -anna classification. I have not been able to trace reasons for these modifications.

For Kosad, mentioned in paragraph 142 of the Bardoli-Chorasi Special Enquiry Keport, I cannot offer any remarks without local inspection, except that nader section 106 of the Land Revenue Code the classification cannot be raised.'

Note.-I have since inspected Kosad and my remarks are in paragraph 4, page $19^{\bullet}$ below.
(c) In paragraph 143 of the Special Enquiry Report, it has been remarked that 'almost everywhere in this talaka we have noticed a tendency of the actual assessment per acre to be far in excess of the meximum rate as a result of the system of classification adopted. This tendency is not confined to any particular class of land '. The method of classification has been explained in paragraph 2 (b) above. The only remark that I have to add is that even in the case of 16 -anna land, the assessment will be higher than the survey maximum ratea, if it has got sub-soil capacity, for which there will be an addition to the soil bhag-annas varying from 6 pies to 5 annas according to the order and class of water and soil classification value, in accordance with the scale at page 342 of the Survey and Settlement Manual, Volume II; and if the land is sitasted within quarter of a mile from the village site, for which factor there will be an addition varying from 1 snna to 2 annas 6 pies to the survey maximum rates in accordance with the scale at page 391 of the Survey and Settlement Manual, Volume II. Naturally, therefore, the assessment of land classed higher than 16 annas will be much higher than the survey maximum rates. There are three factors which raise the aseessment higher than the survey maximum rates, viz :-
(1) Higher classification than 16 annas;
(2) Addition to the soil bhag-annas on account of sub-soil facility; and
(3) Addition to the maximom rates in accordance with the distance from village scales.
It has been remarked that 'Almost everywhere in this taluka, we have noticed a

1. Adajan.
2. Ajana.
3. Katargam.
4. Navagam.
5. Rander.
6. Ved.
7. Ehinganpur.
8. Tunki.
9. Bhatha.
10. Kosad.
11. Magob.
12. Kapleths.
13. Dabholi.
14. Pal.
15. Pisad.
16. Umarvads. tendency of the actual assessment per acre to be far in excess of the maximum rate'. It may be added. that this remark is correct so far as individual survey numbers are concerned, which have classification higher than 16 annas and addition to the soil annas on account of sub-soil facility and addition to the maximum rates on account of distance scale; but it is not quite accorate, if average assessment of the village is considered. In Chorasi, out of 76 villages in the taluka, the average sssessment of the dry crop land is higher than the maximum rate in only 16 villages noted in the margin, in spite of the fact that in 45 villages out of 76 villages in the taluka, the classification is higher than 16 annas varying from Re. 1-0-6 to Ks. 1-12-0. In 13 oat of these 16 villages, there is an addition to the soil annas on account of sab-soil facility-Bhatha, Pal and Pisad being exceptions; and in 13 out of these 16 villages soil classification is higher than 16 annas-Ajana, Magob, and Umarvada being exceptions. In villages in which there is no classification higher than 16 annas and in which there is no addition to the sub-soil annas on account of sub-soil water facility, the assessment higher than the maximum rates is result of addition to the maximum rates in accordance with the distance from village aite. The fact that in spite of classification higher than 16 annas in 45 villages, the assessment is higher than the maximum rates in only 16 villages, is due to the fact that the ares classed more than 16 annas is not considerable and that there is no sub-soil in 28 out of these 45 villages. The distance scale also must be contributing to the result. Out of
[^4]137 villages in Bardoli-Valod, the assessment is higher than the maximum rate in only one village of Sapa on account of the three factors mentioned above. Thus out of 213 villages in the two talukas ( 76 in Chorasi +137 in Bardoli), the assessment is higher than the maximum rate in 17 ( 16 Chorasi +1 Supa in Bardoli) villages only, which shows that this state of things is noticed in a few exceptional villages for special reasons stated before.
(d) Kharvasa.-In paragraph 143 of the Special Enquiry Report, it has been stated that ' In some villages, for instance Kharvasa, fields opparently quite typical of the ordinary lands of the village were found assessed well above the maximum rate ', and Government in their Resolution of January 1930 have directed to examine a sufficient number of fields which are assessed much above the maximum rates in order to enable them to decide what action is necessary to meet the recommendation of the Committee.

It may be stated that there is no sub-soil in the village. In the village there are 33 survey numbers (out of the total of 291 survey numbers), having assessment higher than the maximum rate, as shown in the table given below :-


It may be stated that distance scale No. IIX (vide page 391 of the Survey and Settlement Manaal, Volume II) has been applied to the village according to which there is an addition of 2 annas in a rupee to the maximum rate in case of survey numbers situated within 4 th of a mile from the village site, and of 1 anns in a rupee in case of survey numbers within mile from the village site; there is neither addition nor redaction in case of survey numbers situated within fiths of a mile, and in case of survey numbers beyond $\frac{3}{4}$ ths of a mile, there is a reduction scale. The maximum rate of the village is Rs. $6-12-0$. Out of 33 survey numbers having assessment higher than the maximum rate, in case of 17 survey numbers ( $\mathrm{g} 3+\mathrm{i} 14$ in the table), the maximum rate after the distance scale addition will be Rs. 7-9-6; and in case of 11 survey numbers (h $5+\mathrm{j} 6$ in the table), the maximum rate after distance scale addition will be Rs. 7-2-9. This is one factor which makes the assessment higher than the maximum rate. The other factor is that 13 survey numbers out of 33 have been classed more than 16 annas. The classification of all the 33 survey numbers was examined, with a result that in case of 12 survey numbers out of 18, having a classification higher than 16 annas, the present classification is lower by more than 2 annas. It - may be noted that in case of the remaining 20 survey numbers classed up to 16 annas, in no survey number the present classification is lower by more than 2 annas, and that it is the survey practice not to take any action when the classification is not modified by more than 2 annas, because classification is a process of judgment in which variation up to one class or 2 annas is possible and allowed.

There are in all 291 survey numbers in the village, of which for investigation, classification of 88 survey numbers, including 33 survey numbers mentioned in the previous paragraph, was examined with the result shown in the table given below:-


As no action is to be taken, as has been explained above, where the present classification is not lower by more than 2 annas than the old classification, no action is required in 72 survey numbers ( $6+66$ in the table); action is to be taken in cesse of 16 ( $14+2$ in the table) survey numbers only. The fact that out of these 16 survey numbers 14 survey numbers are classed at more than 16 annas, out of the total of 20 such sarvey numbers in the village, is to be noted, as the point is further discussed in paragraph 11 below; also the fact that only in 2 out of 68 survey numbers classed up to 16 annas examined, the present classification if lower by more than 2 annas in only 2 survey numbers, is also to be noted, as it follows that classification of survey numbers classed up to 16 annas do not require general re-examination, except in special cases on application and usual deposit under Director of Land Records No. L. R. 227, dated 2nd July 1927.

Lastly, it may be stated that in this village the maximum rate is Rs. 6-12-0, the average assessment is Rs. 5-4-0 (R. $6,590 \div$ area $1,260=5-3-8$ ), and the average classi-

|  | M. R. | $\Delta$ verage Assessment. | Annas, | Annas. |
| :---: | :---: | :---: | :---: | :---: |
| fication value comes to 0-12-6 | (6-12-0 : | 5-4-0 | : : 16 | $=0-12-5$ ) |

(e) From the discussion and facts given above, it is clear that the present method does not require alteration, because (1) the higher scale of classification is an exception and not the rale; and, therefors, it is not desirable to reduce the classification and increase the maximum rates of the balk of the area to a void special treatment of a small a rea, because (2) even without the higher scale of classification there is possibility of assessment being higher than the maximum rate on account of addition to the soil annas for sub-soil facility and addition to the maximum rate in accordance with the distance from village scale, and because (3) the present classification has been found to be uniform and correct, except where there has been obvious error, or where land has deteriorated on account of khar (salt), or scarcity of water (sub-scil or of tanks or canals).
"3. Bhatha.-Garden includes (1) bbatha and (2) dhekudiat (vide pages 345 and 346 of the Survey and Settlement Manual, Volume II), and there is a special class of land called natural bagayat, having 2 sub-divisions of uttam bagayat and uttam prakar. In the Special Enguiry Report, the word 'garden' has been used for both bhatha and uttam bagayat as will be shown later. This has caused some misunderstanding. To avoid it, words bhatha and uttam bagayat will be used. As has been stated before in paragraph $2(b)$, the soil classification of bhatha is up to 20 annas, and the sub-soil classification is up to 12 annas (vide also pages 345 and 346 of the survey and Settlement Manual, Volume II), and on account of its fertility, due to deposit of silt by floods, there is a special higher rate for it, which is about 50 per cent. higher than the jiruyat maximum rate, the resulting assessment being about double the assessment of 16 annas jirayat soil.

In Chorasi there is bhatha land in 12 villages (vide Appendix I/C). Eleven of them are on the banks of the Tapti, and only one-Kapletha-is on the bank of the Midhola. In Bardoli, in villages in which work has been done in this year, it is only in one village-Vaghech-Sarbhon. There was some area in Supa, which was turned into jirayat by orders in Government Resolution No. 6272 of 29th June 1909.
'Bhatha' is defined as 'the rich class of land, which is composed of silt deposits left by the overflow of rivers and streams '. This class of soil is itself of extraordinary fertility, and situated as it is, it usually has also the great adyantage of a sab-soil water supply of sweet water obtainable at very short depths, often indeed by merely digging holes in the surface (vide page 345 of the Survey and Settlement Manual, Volume II). At page 35 of Selection No. CCCLX-New Series (Chorasi Taluka Settlement of 1897) Major Prescott has described it as 'alluvial soil supplemented from time to time by the precipitated particles of earth and animal and vegetable matter, brought down by the flood of the river. These drying on the surface form a stratified superstratum of the richest and most fertilising marure, which being ploughed into the soil, makes the whole mass rich and productive in the extreme. In this description of soil, water is found almost close to the surface, and the entire area is consequently perpetual bagayat'. The italics are mine. Thus the two factors are (1) deposit of silt supplemented occasionally, and (2) ordinarily, but not necessarily, supply of water almost close to the surface. It may be stated that in the bhatha lands of the 12 villages in the Chorasi Taluka, the second factor of supply of water is absent from the very beginning. These lands have not been classed for sub-soil facilities from the beginnigg, because the Tapti and the Madhola, on whose banks these lands are situated, are tidal rivers up to the villages, and the water is brackish. The other factor of deposit of silt supplemented from time to time by floods, which was present at the time of classification, is also now found wanting, as would appear from the record of floods given below from the Statistical Atlas, Bombay Presidency, 1925 :-

1810 and 1822. Surat-
Floods of the Tapti.
Details not on record.
1885. ... Surat-

Floods in August.
500 houses washed away and 20 persons perished.
Surat and Kaira-
On 29th August the Tapti began to rise. The flood reached its height on 1st September. It was caused by rain in Khandesh and the high lands on the East of Surat, and not by local rain. The rivers Tapti, Narbada and Kim joined, and a continuous stretch of water covered the intervening country to a width of over 40 miles. The water was 20 feet deep in the city of Surat.
... Surat-
Floods of the Tapti, 19th-21st September. Flood waters 21 feet above high water mark.
1876
... Surat, 26th August-
26 inches of rain in 24 hours. A week after another flood followed.
... Surat-
Heavy floods of the Tapti caused by heavy July rain. The water commenced rising on 2nd July at 7 p.m. and began to subside from the 6th idem at about 10 a.m. About $\frac{3}{3} \mathrm{rd}$ of the city was under water from 1 to 20 feet deep. Railway communication stopped and trains detained for 2 days owing to flood. Water passing over Amroli and Kankra Khadi bridges..........
... Surat and Broach-
Heavy floods in Kim and Tapti by heavy rain in September in Surat, Broach and Khandesh.
... Gujarat-
A heavy downpour of rain in September caused great damage to property and breached the railway line in several places stopping all communications with Bombay for several days.
... Gujarat-
July rain was very heavy and was accompanied by floods. The Tapti was in floods.
There has been no flood since then. There was no big flood in the Tapti in the year 1927-28, when there was unprecedented rainfall and floods in Gajarat. In all the bhatha villages I visited, I was informed that since 1883 there was no flood over bhatha lands. It was the highest flood, but since then there is record of 2 big floods in 1892-95 and 1894-95, about which time, partial classification and survey in the taluka was done; and the settlement report was submitted soon after in 1896. In part of bhatha lands the crop is grass, in some part khajuras (toddy palms) have been grown, and in bulk of the area, there is bajri with vegetables, which are sold at good retail price in Surat. But as both the factors of bhatha land are found wanting, bulk of the land ( 1,452 acres out of 2,142 acres, i.e., 67.78 per cent.) has been turned jirayat in the present classification, which results in a net total reduction in assessment by 4,861 rupees (vide statement given at the end of the paragraph).

I'his action is supported by the remarks of the Special Enquiry Committee about bhatha land quoted below :-

Paragraph 139.~'Thus in Adajan and Bhatha lands classed as garden were found to be exactly similar to the better classes of "gofad" land treated as dry crop, and both sorts were used for similar purposes. * * Why some of these lands were treated as jirayat and others as bagayat, it is impossible now to say, * * * In Katargam, on the other hand, all land of this description is treated alike at jirayat................, while the garden class is confined to real bhatha land fringing the Tapti River, which is found to bear a similar actual rate of assessment.'

Paragraph 142.- But where no such distinction is possible in the field, "gorad" lands of the best quality should all rank together, whether as bagayat or jirayat, so that all would be subject to the sam maximum rate, and the resulting actual assessment would be conditioned only by their relative quality.'

As has been stated above, this land. was classed as bhatha, because there was deposit of silt supplemented from time to time by water of floods, which factor is absent from 1894-95. The assessment is similar, because the jirayat classification is up to 28 annas, and also there is an addition to the soil bhag-annss on account of sub-soil facility, which was absent in bhatba; but as bulk of the area has now been turned into jirayat, as has been explained above, the apparent anomaly has disappeared.

It has been further remarked in the same paragraph, that 'elsewhere, again we find true bhatha land classed as garden. This is low-lying land, situated almost within
the river bed and shows the most varying rates of assessment. In Amroli bulk of it is assessed at only Res. 3 an acre under the maximum rate of Rs. 12 (now the rate is Rs. 10 ; while in Kapletha it rons over to Rs. 13 an acre under a maximam rate of Rs. 10 (now the rate is Rs. 8). The italics are mine. This apparent anomaly is explaiDed by the fact that while the old minimum and maximum classifications at Amroli varied from annas 2 to Re. $1-5-6$ bulk-nearly ${ }^{3}$ ths-being up to 5 annas, in Kapletha it varied from Re. 0-14-0 to Re. 1-6-0, the balk bsing about Re. 1-2-0. The present minimum and maximum classification at Amroli varies from Re. $0-2-0$ to Re. $1-0-0$, bulk-nearly the being about 14 annas, while in Kapletha it varies from Re. 1-2-0 to Re. 1-4-0. Daring my enquiry on the spot at Amroli, I was informed that the hatha area had considerably improved during the gaarantee period, so mach so that a new bhatha sarvey. No. 153 of 53 acres was recently formed. The bhatha areas at Amroli and Kapletha appear almost similar to a layman now, bat the bhatha at Amroli was mach poorer 30 years back. As under section $\mathbf{1 0 6}$ of the Land Revenue Code, classification cannot be raised this apparent anomaly cannot be removed.

In paragraph 140 it has been remarked that 'In Kapletha such land was situated high on the river bank beyond the reach of floods, and grew grass and babal trees. This area is on the northern bank of the ATidhola and has been turned jirayat now, thongh it may be stated that when it was classed as bhatha, it must have been within the reach of flools, as has been explained above. There are 9 survey numbers on the southern bank of the Midhola, which are low-lying and within reach of the floods, and they are continued as bhatha. Out of these 9 survey numbers in case of six survey numbers within half a mile from the village site, there is an addition of one anna in a rupee to the maximum rate according to the distance from the village site. To reach these 9 survey numbers the river, which is tidal, is to be crossed in a ferry, when there is loading and unloading at both the ends, or in cart when there is ebb, when it is very difficult to do so being muddy. I had to cross in a cart, which had to be pushed up by about 20 men at the soathern bank, although the cart was not fully loaded, and a good pair of ballocks was yoked. As an alternative a round of 2 miles is to be taken crossing the river at Chokhad-ovara through Anna and Dabel, all the three being Barods villages. As a special case I, therefore, propose that there should be no increase on account of the distance from village sits; but there should be an uniform decrease of two annas in a rapee in case of all the 9 survey numbers.

The resalt of the present classification is tabulated below from Appendices I and K:-

"4. Uttam bagayat.-This land is found in 8 villages of Chorasi, and 1 village in Bardoli. 'This term is applied to extraordinary rich class of garden land, which in found only in the Surat district. * * * It is desoribed as splendid sugarcane growing boil......of a rich loamy moald, varying in colour from reddish-brown to deep chocolate. This soil is generally of extraordinary depth, and good water is always found within 12 to 35 feet below the surface (vide page 353 of the Sarvey and Settlement Maoual, surface (vide page 353 of the Sorvey and Settioment Maoual,
Volume II). If reduced by fanlte other than slope below 14 annas, it shall not be classed as superior. Ite classification is generally above 16 annas and is only reduced below 16 annas by reason of being, swept over by running water. If any other (I) faults exist, the land cannot be classed as superior order. (2) If the water is available below 30 feet, or it is not perfectly sweet throughout the year, the land cannot be treated as uttam bagayat (vide chapter III of the Gujarat Revision Surver Rules at page 119 of the volume containing joint report, etc.). The soil is classed op to 24 annas, and there ie special higher sub-soil scale with a maximum olassification value of 12 andas (vide page 355 of the Survey and Settlement Manual, Volume II). As has been explained in paragraph 2 page $4^{*}$, the maximum rate of uttam bagayat in Chorasi and Bardoli is the same as the maximum rate of the jirayat land in the village. 'There is a good deal of garden caltivation in the taluka, for not only are the wants in the vegetable of the large population of Surat and Rander fully supplied, but wagon loads of vegetables of all sorts are sent to Bombay. Among them cabbage, cauli-flower, lettuce, potatoes, etc., have taken an important place. They are chiefly produced in Magob and Kumbharia', (vide page 3 of selection CCCLX-New Series-Revision Settlement of Chorasi, 1897).

In the present classification out of 812 acres in Chorasi, 121 acres 19 gunthas are turned jirayat because of fault other than slope as in Kumbharia and Dubhal and because water has become brackish as in Katargam and Rander. In Pera, the whole area of 67 acres 27 gunthas is turned jirayat, 6 acres 18 gunthas on account of fanit other than slope, and the remaining area of 61 acres 9 gunthas on account of inadequacy of water sapply. Thus out of the total area of 879 acres 27 gunthas of uttam bagayat ( 812 acres in Chorasi +67 acres 27 gunthas in Bardoli), the area of 188 acres 27 gunthas ( 122 acres in Chorasi +67 acres 27 gunthas in Bardoli) has been taken out from the head of uttam bagayat. The total reduction in soil assessment on account of this change is Rs. 139-10-0 (Rs. 104-15-0 in Chorasi + 34-11-0 in Bardoli), and in sub-soil about Re. 200 (Rs. 130 in Chorasi and Rs. 70 in Bardoli). The reduction is so small because, as has been stated above, the maximum rate of uttam bagayat in Chorasi and Bardoli is the same as the maximum rate of jirayat land in the village.

In paragraph 139 of the Special Enquiry Report it has been remurked that 'In Kumbharia again we find real garden land, clearly distinguished by its soil, and growing high class vegetables under well irrigation. This laud is correctly classed as.garden, and is usually assessed at Rs. 14 or Rs. 15 an acre under the maximum rate of 12 rupees. In Kosad on the other hand, a somewhat similar type of land, in which chillies and other vegetables are grown under irrigation, is throughout treated as jirayat, and in order to produce an effect similar to bagayat rates, it is assessed at Rs. 10 to over Rs. 12 an acre under a maximum rate of Rs. 7.' In paragraph 142 it has been remarked that 'the case of Kosad (see paragraph 139) suggests that there is certainly room for a bagasat class, the ordinary jirayat rates being inadequate to express the difference of value, when land capable of growing crops under irrigation is actually used for that purpose. But when no such distinction is possible in the field, "gorad " lands of the best quality should all rank together, whether as bagayat or jixayat, so that all would be subject to the same maximum rate, and the resulting actual assessment would be conditioned only by their relative quality.'

As has been stated sbove in paragraph 3, page $11 \dagger$, there is a misunderstanding between bhatha and uttam bagayat. In Kumbharia, there is uttam bagayat, bat there is no bbatha; and the maximum rate of the uttam bagayat, which as has been stated above, is the same as the rale for jirayat land in the village, was Rs. 7-8-0 before the special enquiry, and is Rs. 6-8-0 after the special enquiry. It was never Rs. 12 as has been stated in the remark. The maximum rate at Kosad was Rs. 7 before the enquiry, and is Rs. 7-8-0 after the enquiry. As has been stated in the remark, the land in both the villages is somewhat similar, though in my opinion the land in Kosad is very little inferior. The best soil in toil the villages has been classed at 24 annas; but there is appreciable difference in sub-soil. In Kosad, the maximum sub-soil classification is Re. 0-2-0 according to the ordinary scale at page 342 of the Survey and Settlement Manual, Volume II; while in Kumbharia the maximum sub-soil classification is Re. 0-6-0, sccording to the special higher scale at page 355 of the some volume, and this is found to be correct in test. The difference in sub-soil olassification is reflected in crops grown. In Kosad, the irrigated crops are chillies, karelis and other ordinary vegetables in comparatively small erea; while in Kumbharia, Suran (Elephant foot) and other high class vegetables are grown and in large areas as has been stated in the quotation given above from the Chorasi Revision Settlement Report. The assessment in Kosed is near to the assessment in Kambharia because the maximum, rate in Kosad (Rs. 7-8-0) is higher than the maximum rate in Kumbharia'(Rs. 6-8-0), the villages being
in different groups. Taking all factors into consideration, $\mathbf{I}$ am of the opinion that the classification of both the villages is correct ; but the maximum rate in Kumbbaria and other similar villages shonld have been somewhat bigher, particularly for the uttam bagayat lands.

In paragraph 140 it has been remarked that at Kumbharia again, among land properly treated as garden, we found a number oif fieldes which had never grown irrigated crops, and were obviously incapable of doing so, since they consist of ordinary black soil The only remedy in such cases is reclassification, which we hope will be undertaken in doe course'. As has been stated above, such nưobers, baving faults other than slope, have been turned jirayat in Khumbharia, Dubhal and other villages; though after inspection on the spot, and in other villages in this talaks and Chishali, I do not agree that irrigated crops were never grown in these survey numbers. There is a well in these survey numberi, now fallen in and in disuse, and it must have been used for irrigation before. In Khambhada in Chikhali Taluka, the land, now classed at anoas 10 on account of considerable fault of Chunkhad, was classed as dhekudiat bhagayat. Wben I visited the spot, I wondered how this land could be classed as bbagayat in spite of the very clear rule that land having faults other than a slope should not be classed as bagayat. During local enquiry, I was informed that when sugarcane growing was highly paying, the land was heavily manured, and sugarcane was grown. It was not exposed without manure as it is now. This shows that classification was correct, bat there have been subsequent changes. Besides in the village of Kumbharia, Magob and Dubhal, as well as in Katargam, and in some other villages, it was noticed that Inam survey numbera were not properly cultivated and developed, although they had the same capacity as adjoining survey numbers, in which good garden crops were grown. Such survey numbers are continued as uttam bagayat. The result of the present classification, so far as the soil is concerned (sub-soil figares are included in a separate table), is summarized from Appendices I and K in the table given below :-

" 5. Sub-soil.-(a) In paragraph 126 of the Special Enquiry Report, it has been remarked that ' $A$ second point which has very frequently been noticed is that the great majority of agricultural wells are and bave long been in disuse. From the report of the 1st revision settlement, it appears that the presence of these wells must have been taken into account when classing land for sub-soil water advantages; and although we gathered from the account of the operations given in the Sarvey and Settlement Manual that this form of assessment is not conditioned by actual use of the advantages assessed, it would seem natural to suppose that what is no longer used, has ceased to be an advantage capable of being assessed. We recommend, therefore, that the suitability of the sub-soil water assessment should be re-examined in the light of present conditions.' Government have ordered complete re-examination of sub-soil throughout both the Bardoli and Chorasi talukas in their Government Resolution of January 1930.
(b) Before coming to details, it will not be out of place to state in brief the different stages through which, the question of assessing well irrigation in Gujarat has passed.

It has passed through 4 stages, and the 5 th stage is the present method of sub-soil classificstion. They are :-
(i) to fix a water rate according to the crop grown, and varying with the quality of the produce, and lay it upon the individual fields after measurement;
(ii) to charge a fixed rate for each water bag used for purposes of irrigation;
(iii) to impose a bagayat assessment direct upon the land irrigated; and
(iv) to impose 'bagayat-kasar', or well-tax upon each well according to its. capacity which was reckoned in ' Kos ' or bags (vide pages 101 and 102 of the Survey and Settlennent Manual, Volume In).
According to all these methods, the actual use was taxed, and the area taxed was small, but the rate was high. The first method was rejected after trial, as entailing annual measurements by extra establishmeats, with the almost certain accompaniment of fraudulent collusion to escape payment. The objection to the other methods is that it was a well, and not a land tax, and, as such, opposed to the principles of the Bombay system. Eventually about the time of the 1st revision settlement in 1889-1891, the present method of sub-soil classification was introduced, according to which the capacity is taxed as well as other elements of fertility according to the scala (at page 342 of the Survey and Settlement Manaal, Volume II), based apon (1) order of water depending upon its quality, (2) class of water depending upon its distance from the surface, and (3) soil classification. Reference is requested to pages 99, 104, 157, 159, 165, 169, 180 and 184 of the Survey and Settlement Manual, Volume I, and page 352 of the Survey and Settlement Manual, Volume II, from which it would appear, that the principle of Bombay survey is to tax the capacity, and not the use. According to rules (vide page 121 of the Volume containing Joint Report), when water in wells is found to be of aṇiform quality in a particular area, all survey numbers without a well are to be assessed for sub-soil on that aniform basis; but if water is not of uniform quality, survey numbers without a well are to be assessed on the basis of water of the lowest order in that locality. No sub-soil is to be assessed when the soil is black, olayey, growing ordinary 'Chasia' wheat, and cotton, or when soil is so sandy that wells are impracticable, owing to soil constantly falling in, this fact being established by instances of unsuccessful attempts to make wells. Lastly a fault (half the addition) is to be given to rocky sabstratam or other obstacle to constraction of well, and a similar fault for deficiency in supply. Thus it would appear that necessary factors were taken into consideration in deciding capacity of a particular area. The principal basie for determining the capacity is the application of the scale at page 342 of the Survey and Settlement Manual, Volume II, to measurements taken in February, and the order of water recorded then by tasting it. Bat considering the recommendation of the Committee, and to avoid doubt or dispute, informstion has been collected in forms-F showing measurements and order of water, $G$ showing the irrigated area and crops in it, and form H showing the capacity of one or more typical wells by recording the time for which the well can be worked in a day (vide paragraph 6 of my No. S.R.V. 237 of 19th February 1930), about 9 hours in a day being the period for which a good well can be worked in a day, allowing about 3 hours in the middle for rast to men and bullocks and for accumulation of fresh water from under-ground or side springs (vide paragraph 70 at page 43 of Selection No. CCCLX-New Series-Chorasi Settlement Report of 1897). From instances given below, it would appear that it is not safe to rely upon one factor only, though we are bound by the scale, and should not go beyond it:-

| Village. | Sarvey number in which the well is situated. | Period fer which it could be worked in a day. | Area irrigated for it. | Sub-soil scale applied. | Remarks. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Komad, Chorasi ... | 173 | $\begin{array}{ll}\text { H. M. } \\ 0 & 80\end{array}$ | $\begin{array}{r} \text { A. } G . \\ -\quad 228 \end{array}$ | Half | $\left\{\begin{array}{l}\text { Although it could be } \\ \text { Forked for a short time, } \\ \text { the area irrigated is } \\ \text { adequate, which indi- } \\ \text { categ that water supply }\end{array}\right.$ |
| 2. Do. | 571 | 125 | 31 | Do. | is good. |
| 3. Sokri, Bardoli .. | 174 | Not tried | about 11 acres | Water being beyond 40 ft . from the surface not asseessed. | There is an oil engine on the well and if use were to be tared, it will be heavily tared consider- |
| 4. Sups, Bardoli ... | 267 | 1. 45 | $\text { Sugarcane }{ }^{2} 17$ | Half | Same as in 1 and 2. |
| 6. Barbhon, Bardoli. | 492 | 620 | $17$ |  | The period for which is could be worked shows |
| 6. Do. | 597 | 610 | $032 .$ | Half $\ldots$ | cufficient capacity, but it is |
| 7. Do. | 15 | 630 | Not in use $\quad .$. |  | not iully worked. |
| 8. Ninat, Berdoll ... | 99 | 40 | Do. | .. | Do. |
| 9. Siod | 170 | 350 | Do. |  | Do. |
| 10. Lathanpur ... | 151 | 945 | Do. |  | Do. |

In estimating the capability of esch village and its parts (Appendix III/C for Chorasi, and Appendix III/B for Bardoli), all these factors are taken into consideration, ass was usually the case when there was a doubt, even at the time of the 1st revision settlement, as would appear from Appendix IV-translation of an endorsement in the prati book of Şapa.
(c) In Chorasi.-Sub-soil classification has been applied in 23 out of the 76 villages in the taluka. In 4 villages (Rander part, Kosad, Adajan part and Pandesara), half the scale has been applied. In villages on the bank of the Tapti and the Midhola, the order of water is 18t, 2nd and even 3rd; while in the villages in the interior, it is generally of the lst order. The total sub-soil assessment in all the 23 villages is Res. 12,286-3-5. The result of the present examination is as under:-

| (1) Total number of wells ... | ... | 1,265 | 76.4 per cent. |  |
| :---: | :---: | :---: | :---: | :---: |
| (2) Out of (1), wells in good condition | ... | 967 |  |  |
| (3) Oat of (1), wells in use | ... | 491 | $38 \cdot 3$ |  |
| (4) Ont of (1), wells not in good condition | ... | 298 | $23 \cdot 6$ |  |
| (5) Out of (1), wells dry and fallen in | $\cdots$ | 149 | 11.7 |  |
| (6) Out of (1), wells outside the sub-soil according to measurements ... | cale | 39 | 3.08 |  |

According to Appendix III/C, order of water has changed, and it has becone brackish in 15 villages, very probably on account of the action of tide in the river; the sub-soil scale has been halved in 8 villages; sub-soil classification has been cancelled because the water is now of the 4th order in 5 villages (parts), and it has been cancelled in 4 villages because there were no wells, or they had fallen in and had become dry. $\mathrm{A}_{8}$ in some villages, parts are affected as stated above, some villages occur in more than one class of reduction mentioned above. The estimated reduction on account of re-examination will be Re. $4,274-12.0$ out of Rs. $12,286-3-5$, i.e., $34 \cdot 7$ per cent. (vide Appendix $\mathrm{V} / \mathrm{C}$ ), including Re. 580 of Kapletha, sanctioned in Government Resolution No. 2343/28 of 21st May 1929. It is interesting to note that brackish water is more suitable to toddy palms, as it adds to the intoxicating quality of the toddy.
(d) In Bardoli.-Sub-soil classification has been applied in 34 villages only out of 137, as bulk of the taluka consists of black soil area. The total sub-soil assessment is Rs. $7,690-7-2$. Work was done this year in 17 villages out of 34 , the total sub-soil assersment in these 17 villages being Rs. 4,150-3-4. In all the villages except Siod, water is sweet of the lst order, and in 14 villages half the sub-soil scale has been applied. The result of the present examination is as ander :-

| (1) Total number of wells | $\ldots$ | 284 | 70.4 per cont. |  |
| :---: | :---: | :---: | :---: | :---: |
| (2) Out of (1), wells in good condition | ... | 200 |  |  |
| (3) Out of (1), wells in use | ... | 87 | $30 \cdot 6$ | " |
| (4) Out of (1), wells not in good condition | $\ldots$ | 84 | 29.6 | " |
| (5) Out of (1), wells dry and fallan in | ... | 19 | $6 \cdot 6$ | " |
| (6) Out of (1), wells outside the scale... | ... | 23 | 8.09 | " |

According to Appendix III/B, order of water has not changed, i.e. it is sweet even now. In Pera, on account of the absence of the unosual supply of water, ordinary jirayat sub-soil scale has been substituted for the higher uttam bagayat scale; in 2 villagesSarbhon (part) and in Ruwa the scale has been balved on account of inadequacy of -water ; and in 6 villages, sub-soil has been cancelled in the whole village and in parts, - because there were no wells in that part, or because the wells had fallen in and dry, or because the depth of water from the surface was more than 40 feet (Sakri). The estimated reduction on account of re-examination will be Rs. 1,645 out of Rs. 4,150-3-4, i.e. $39 \cdot 6$ per cent. It is very interesting to note that in 1924, when sub-soil was re-examined in the 5 talukas of the Kaira District, 78.98 per cent. wells were found to be outside the scale, i.e. in which water was found to be beyond 40 feet from the surface-vide my report in the preamble of Government Resolution, No. 8347 of 9th July 1924; while such wells are 14.78 per cent. in Chorasi and 14.69 per cent. in Bardoli, which indicates that shrinkage of water in Chofasi and Bardoli is much less than what it was in Kaira.
"6. Supa.-(a) In paragraph 125 of the Special Enquiry Report, it has been remarked that ' three points have come to our notice in connection with the classification of dry crop lands. One is the individual case of Supa, where the average dry crop assessment of the whole village was Rs. 7-1-0 under a maximum rate of Rs. 6 . Soine of the lands of this village were formerly classed as garden, but were reclassified as dry crop, partly at the lat revision settlement, and partly again on the application of the villagers in 1910. But even survey numbers which were not bhatha lands are found with assessulents of Rs. 8 and Rs. 9 per acre, and inspection of the lands did not reveal any reason for this high classification. There is little use in correcting errors in the garden class, if the lands reclassed as dry crop continue to bear what is practically a garden assessment. We recommend that the classification of this village should again be thoroughly overhauled '.
(b) Government in their Resolution of January 1930 have directed that this recommendation is sanctioned, and Government are pleased to direct that the classification value of all land, formerly classed as garden, which is now classed as dry crop should be examined, and, in addition, a test of the existing classification of all types of land in the village should be made. The necessity of extending the reclassification to all the lands of the village will be judged from the results of this test'.
(c) The classification of this village was done again by 2 experienced Field Party Surveyors independantly in my presence, when in 137 acres 5 gunthas, out of 404 acres 24 gunthas, the difference between the old and new classification was found to be more than 2 annas lower. The area remaining to be examined was 293 acres 37 gunthas. As nearly trd of the area examired was found affected, and as small area remained to be examined, the classification of the remaining area (i.e. of the whcle village) was examined vide paragraph $B$ of my No: S.R.V. 237 of 19th February 1930 and paragraph 5 of my No. S.R.V. 237 of 11th April 1930). This action was approved by you (paragraph 1 of yoar No. S.T. 490 of 24th February 1930 and your No. S.'T. 490 of 25th April 1930).
(d) The reasons why the assessment in some villages is higher than the maximum rate, are fully explained in paragraph 2 , page $6^{*}$ above. They are enumerated below for ready reference :-
(i) Soil classification higher than 16 annas;
(ii) Addition to soil classification on account of sub-soil facility; and
(iii) Addition to the maximum rate under the distance from the village scale.

All these three facts are found in this village; and there is one additional factor of the addition for advantages for second crop (dusota) in rice land (vide page 352 of the Survey and Settlement Manual, Volume II).

In this area, there was bhatba land before, which was classed as jirayat in 1909 (Government Resolution No. 6272 of 29th June 1909). Of the total area of 672 acres 32 ganthas in the village, only the area of 101 scres 15 gunthas ( 15 per cent.) is classed up to 16 annas. The remaining area ( 85 per cent.) is classed rightly above 16 annas, the soil being superior. Besides this, 15 per cent. area is the only area without sub-soil classification according to the 1st revision settlement. During present classification, in some more area, sub-soil annas have been proposed to be cancelled. Bulk of the area of the village ( $2 / 5$ ths nearly) is situated within half a mile radius from the village site, and according to the distance scale No. III at page 301 of the Survey and Settlement Manual, Volume II, there is an addition to the maximum rate of 2 annas in a rupee for survey numbers up to quarter of a mile, and 1 anna in a rupee for survey numbers between th and $\frac{1}{2}$ a mile. Besides there are 137 acres of rice land in which there is an addition to the soil classification up to 4 annas on account of the 2nd crop of Val and Divela. This area is situated between the village site and Navsari-Bardoli road, and during my camp at the village in February 1930, there was fairly good crop of Val and Divela, standing in the area, although there was a general complaint that there was not even sufficient moisture for rice. In these circumstances, it is natural that the assessment is higher than the maximum rate.
(e) The result of the present examination of the classification is tabulated below :-
(i) Sub-soil.-For reasons given in Appendix III-B, sub-soil has been cancelled in some area, the reduction in assessment on that account being Rs. 307-4-0, out of - the total assessment of Rs. 505-11-1 ou that account.
(ii) Out of the total area of old rice land examined, the present classification was found to be lower by more than 2 annas in 2 acres 21 gunthas, reduction in the assessment on that account being Rs. $4-3-0$; and the area of 5 acres 26 gunthas was turned jirayat, the reduction in assessment on that account being Re. 18-3-0; total reduction in assessment in rice being Rs 22-6-0.
(iii) Out of the total area of 525 acres 2 gunthas examined, in 161 acres 2 gunthas the present classification was found to be lower by more than 2 annas, the reduction in assessment on that account being Rs. 293-3-0. As will be explained later in paragraph 9 at page $32 \dagger$, in this taluka some lands are situated on rivers and streams and they are sloping. The original classification is low, and pot kharab, where necessary, has been given; but there is some furthor deterioration in some places on account of washing by streams.
(iv) New pot kharab of 1 acre 25 gunthas has been given, the reduction in assessment on that account being Rs. 10-7-0.
Thas the total reduction in assessment, as a result of the present classification, is approximately Rs. 633-4-0 (Rs. 307-4-0 + Rs. 22-6-0 + Rs. 293-3-0 + Rs. 10-7-0).
"7. Old rice- - (a) In paragraph 131 of the Special Enquiry Report, it has been remarked that ' $A_{s}$ in the case of new. rice, there is a rather general complaint that many of the lands classed as old rice are capable only of growing dry crops. We have been given a list of such lands, in which 629 survey numbers are mentioned, measuring

[^5]C. $10-82$
altogether 665 scres in 15 villages and assessed at Rs, 6,118 . We have not bean able to verify many of these instances, but have no reason to doubt their general correctneas, more especially in view of the close resemblance between rice and dry crop lands in some of these villages. Occasionally, cotton seems to be cultivated from choice, bus this can not be suspected of jowari or grass. We think that it should be left to individuals to apply for relief, and that such applieations should be carefully inveatigated, where the crop record shows that no rice has been grown for the last 10 years. Government in their Resolution No. 7359/24 of 14th June 1930 have sanctioned these recommendations and directed that ' the applicatione should be disposed of at as early a date as possible'. As has been stated in paragraph 4 of this office No. S.R.V. 237 of 19th February 1930, as many as 942 applications were received from the Collector and the work was undertaken immediately (vide paragraph 2 of this office No. S.R.V. 237 of 11 th April 1930 and your No. S.T. 490 of 25 th April 1930).
(b) The result of the examination of the classification is tabalated below:-


Replies to the applications will be given after final orders are passed by Government, as has been stated in paragraph 10 of this ottice No. S.R.V. 237 of 19th Febrnary 1930.
"8. New Rice.-In paragraph 127, the Committee have recommended 'that new rice lands, which cannot be shown to have grown rice (other than Kavchi variety) during the last 5 years, should be reclassed as dry crop'. Government have directed that necessary enquiry should be made by a Revenue Officer. This work was done in a few villages, but was discontinued later (vide your No. S.T. 490 of 15 th April 1980). It may be stated that some applications, referred to in paragraph 7 above, referred to new rice land, and that in some applications, new rice was mentioned with old rice. In such cases, no enquiry was made about new rice.
"9. Deterioration on account of washing by streams.-In paragraph 2 of Government Resolution, No. 7259/24, dated 30th March 1928, it bas been stated that ' Government have reason to apprehend that in certain villages some soil deterioration may have taken place owing to washing by streams. The Commissioner of Settlement should, therefore, be requested to instruct the Superintendent of Land Records; N. D.; to investigate this question, with a view, if necessary, to the revision of the soil classification, if any fields are found to be so deteriorated'. The taluka officers reported such areas as under:-

(vide paragraph 1 of my No. S.R.V. 237 of 30th July 192S). There appears to have been some misunderstanding; both the figures are not correct. Several applications on this acconnt were also received on the spot. The classers were instructed to examine the whole area, to classify 5 per cent., in different localities in the village, and, if the difference was appreciable, to take immediate action to classify farther area. There are several rivers and creeks in the talukas, and the survey numbers situated on these are sloping. In the old classification, pot kharab has been given, and the classification is generally low, bat in several places there is further deterioration. The quantity of work nuder this head was nucertain. The result of the examination is tabalated below:-

"10. In some villages, new pot kharab had to be given, chiefly on occount of action by rivers and creeks as shown below :-

|  |  |  | Chorsai. |  | Bardoli. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of villages in which new pot kharab is now |  |  |  |  |  |  |
| given ... ... | ... | ... | 14 |  | 16 |  |
|  |  |  | A. | g. | A. | g. |
| Area of new pnt kharab now given | ... | $\cdots$ | 31 | 26 | 20 | 9 |
|  |  |  | Rs. | a | Rs. a. | p. |
| Reduction in assessment on this account | ... | ... | 162 | 9 | 8610 | 6 |

"11. Special scale reduction in Chorasi.-(a) In the last paragraph of their Resolution of January 1930, Government have directed that 'In carrying out all the tests above directed, the aim of the officers concerned should be to see not only whether the classification is in accordance with the classification rales, but whether these rules require aiteration, because the results they produce are inequitable. The Superintendent, Land Records, Northern Division, is being directed to give his special attention to this point, and the Collector of Surat is requested also to investigate it '.
(b) As has been fully and clearly explained in paragraph 2, page $5^{*}$ above, that by adopting suitable classification scales and maximum rates, an attempt has been made to fix assessment in proportion to the capacity of the soil, and it has been added that the classification, which represente the foundation, should not be altered except where there is obvious deterioration, and that the maximum rates, which correspond to the superstructure, may be altered to suit conditions of the particalar period. In the same paragraph I have stated that I had many opportunities to verify the classification in several districts, and I can say that the classification is uniform and correct, except where there has been obvious error, or where land has deteriorated on account of khar (salt), or scarcity of water (sub-soil, or of tanks, or canals). I have found the present classification to be correct and uniform in two ways mentioned below :-
(i) The survey classification and the estimate of the people, and the standing crops generally agree. I have seen this in many villages, but this was particularly marked this year in Sopa. Besides in the concluding portion of paragraph 4 of my No. S.R.V. 176 of 18th Angust 1926 in the preamble of Government Resolution No. 7670/24 of 21st December 1926 (Survey and Settlement of the inam village of Okaf, district Ahmedabad, it has been atated that ' the average assessment of the inamdar's land under cultivation, including assessment on inam land not recognised in Government records, comes to Rs. 2,974 ; while the average income from the same area, including vighoti of unrecognised imam land, is Ks. 2,921. The difference is negligible, which shows that the inamdar's rougb classification is correct for practical parposes, and that his rates are reasonable. It also proves that our method, if carefully worked by an experienced classer ander proper sapervision, gives accurate results ${ }^{\circ}$.
(ii) Empirical classification agrees generally with the scientific analysis.

[^6]This would appear from paragraph 4 of my No. S.R.V. 250 of 16th February 1933 (regarding damage by floods, on the basis of which orders were passed in Government Resolution No. 487/28, dated 14th May 19:88), quoted below for ready reference :-
' It may be stated that the Commissioner, N. D. (his No. S.R.V. of 14 th November 1927), had asked the Agricultural Department to analyse the deposits in typical survey numbers of Wasna (Matar), Vina, and Bilodra (Nadiad), and the Director of Land Records (bis No. S.V. $547-\mathrm{A}$ of 30th November 1927), had issued similar instructions for the deposits in Rinza (Dholks-Ahmedabad). From figures given below, it would appear that the empirical classification agrees generally with the scientific analysis (vide this office No. S.R.V. 250 of 13th December 1927 and 9th February 1928) :-


Similarly in paragraph 6 (b) of my No. S.R.V. 258 of 8th Jane 1929, with reference to your No. S.T. 702 of 7th May 1929 (Kohania and Khar land in Olpad), after comparing the analysis and classification and standing crops, I have stated tbat 'Except in the case of survey number 150 of Sayan, the survey classification corresponds to the condition of crop in column 4 and is uniform and correct, as has been remarked in paragraph 3 above.'

It is clear that classification method does not require modification.
(c) But in Chorasi, the classification scale of jirayat lands exceeds 16 annas in 45 villages, and is raised to 28 annas in 3 . villages. This scale is very high, and requires modification for reasons given below :-
(a) Even the best natural bagayat land of the superior oraer with unusual facility for irrigation is classed up to 24 annas for soil, vide pages 353-355 of the Survey and Settlement Manual, Volume II.
(b) Out of these 45 villages, there is sub-soil in 17 villages only; and out of these 17 villages, in 12 villages the water in wells is brackish; in 8 villages half the sub-soil scale has been applied during present examination; and in 1 village (Limbayat) it has been cancelled. In parts of 4 villages (Adajan, Athava, Khatodra and Majura-parts in each), water has become of the 4th order, and sub-soil has, therefore, been cancelled in those parts. Thus, water has deteriorated in quality and quantity.
(c) The following translation of an endorsement in the prati book of Rander gives reason for this higher scale. 'In the second piece of the village map of this village, i.e., in the locality of sarvey numbers from 208 to 376 ; flood water overflows when the flood is very high, and occasionally even when the flood is not high; and in low-lying lands this happens every year. At the time of classification, the classification of bhatha and uttam prakar was written in pencil, and as there was doubt sbout it, the Deputy Superintendent, being requested personally, came to the village on 16th October 1894, and saw different localities, and directed that in the
locality of survey numbers 208 to 244 and 368 to 371 , the classification value should be 24 annas, in the locality of survey numbers 245 to 268 and survey number 367 it should be 26 annas; and in the locality of survey numbers 269 to 300,303 to 312, survey number 315 and sarvey numbers 327 to 346,350 to 366 and survey numbers $375-376$, it should be 28 annas; and survey numbers $301,302,313,314,316$ to 326 , 347 to 349 and 372 to 374 should be classed as bhatha'. This endorsement corroborates my statement in paragraph 3 at page 12* above regarding bhatha ' that other factor of deposit of silt supplemented from time to time by floods, which was present at the time of the classification, is also now wanting, as would appear from the record of floods given below'. This factor is absent in the case of these lands also. There is no such endorsement in the prati books of other villages; but as many as 34, out of the 45 villages classed above 16 annas, are situated in the loops of the Tapti and the Midhola, and the advantage, they must be getting before, has disappeared from 1894-95, according to the record of floods at page 12* above. In the 11 villages oatside the loops, there are only 140 sorvey numbers in all, one of them being Khsrvasa.
(d) While examining the classification of Kharvasa (vide page $8 \dagger$ above), it was noticed that in 14, out of 20 survey numbers classed above 16 annas, the present classification was lower by more than 2 annas; while in 68 survey numbers classed up to 16 annas, in two survey numbers only the present classification was found to be lower by more than 2 annas.
(e) In villages visited by me, survey numbers of different classification values (up to 16 annas and above) were examined when it was noticed that classification op to 16 annas was alright and that the classification of survey numbers classed sbove 16 annas was high, though relatively correct. This became quite clear to me when I inspected survey number 82 (classed at $015-6$ without sub-soil) and survey number 92 (classed at 28 annas plus sub-soil value) of Rander. Both of them are situated touching each other, and the crop of this season in hoth was jowari. This was the frest village visited by me in Chorasi, and subsequently when I visited other villages, this point was carefully examined, as a result of which I came to the conclusion that the scale above 16 annas requires modification. As the classification was found to be aniform and relatively correct, this general modification is proposed instead of classification of individual survey pumbers which would involve laboar and cost.
Proposed Scale.-
Rs. a. p. Rs. a. p.
Rs. a. p.

From 1106 to 1120 to be redaced to 1880

$\Rightarrow \begin{array}{llllllllll}1 & 6 & 6 & \text { to } & 1 & 8 & 0 & , & 1 & 4\end{array} 0$
" $1 \begin{array}{lllllllllllll}1 & 4 & 6 & \text { to } 1 & 6 & 0 & 1 & 1 & 2 & 0\end{array}$

" $1 \begin{array}{lllllllll} & 0 & 6 & 1 & 2 & 0 & 1 & 0 & 0\end{array}$
By the adoption of this scale, there will be a reduction in assessment of Rs. 13,169, of which Rs. 5,610 will be for inam lands where the loss will be in local fund only (vide Appendix VI). It may be added that a somewhat similar scale was proposed by me in case of rice lands in the fire talukas of the Kaira District and sanctioned by Government in their Resolution No. 8347 of 9th Jaly 1924, when the adoption of the scale had resulted in the reduction of ks. 21,639, vide Government Resolution No. 8347 of 8th March 1927. This modified scale will not apply to bhatta land, now tarned into uttam jirayat, as it has now been classed according to its present capacity and it will certainly not apply to the attam bagayat land, referred to in paragraph 4 above, as there is unusual facility of water supply.
"12. General complaint about classification and overassessment.-Applications-one

1. Pal.
2. Pal.
. Palanpur
3. Samrod.
4. Deladva.
5. Dindoli (Inami).
6. Dindoli (Government). for the whole village-containing general complaint about classification and high assessment are received from 7 villages noted in the nargin of the Chorasi Taluka. Appendix VII gives detailed information about these villages regarding maximum rate, average assessment, average classification and the area classified above 16 annas. From the Appendix it would appear that in all the villages except Pal, the average classification is below 16 annas, varying from 11 annas to 0-14-6 pies; and the average assessment in the six villages is below the maximum rate of the village. Their case is similar to that of Kharvasa, vide paragraph 2 (d) at page $8 \dagger$ before. They do not require general reclassification. They are being informed that necessary action will be taken on receipt of application for particular survey numbers, with deposit of fees under -Director of Land Record's No. L.R. 227, dated 2nd July 1927, which will be refunded, if the complaint is found to be true. In Pal, the average classification is Re. 1-4-4 and
the average assessment is higher than the maximum rate. It will receive some concession according to the scale proposed in the previous paragraph. The reduction will be sbout Rs. 540 , which will reduce the average assessment from Rs. $9-8-9$ to Rs. $8-13-11$ (the maximum rate is Rs. 7-8-0) ; and the average classification from Re. 1-4-4 to Re. 1-3-0. If there is any further grievance, it will be exsmined on receipt of applications and deposit, as stated above. The average assessment will naturally be higher than the maximum rate, as 362 acres ( $45 \cdot 1$ per cent.) are classed at more than 16 здпая.
"13. Summary.-The financial effect of the proposal is tabulated below for ready reference from Appendices $\mathrm{K} / \mathrm{C}, \mathrm{K} / \mathrm{B}, \mathrm{V} / \mathrm{C}$ and $\mathrm{V} / \mathrm{B}:-$

of which about Rs. 8,000 will be for inam survey numbers. These figures are approximate and there will be slight variation when assessment of each sorvey number is worked out. 'The report has been long, but it was inevitable because the subject was technical and theory of classification was to be explained and discossed. It is requested that Government sanction may be obtained to give effect to the proposal.
" 14 . Lastly, it may be stated that the six Field Party Surveyors may be given an extra remuneration of Re. 10 per mensem from February to May 1930. On account of the attitude of indifference in Chorasi and non-co-operation in Bardoli, they had to work under mach inconvenience and had to incar some unasnal expenditure. The cost will be about Rs. 240 . Bonus on similar lines was proposed by the Settlement Commissioner and Director of Land Records and sanctioned by Government for classification of lands damaged by floods (Government Resolution No. 487/28, dated 18th July 1928). Mr. Pandya, the District Inspector of Land Records, thongh new to the district, worked hard and tactfolly in unusual circumstances."

Memorandum from the Collector of Sarat (Mr. H. V. Braham, I.C.S.), No. S.R.V., dated the 13th Aagust 1930 :-
" Forwarded with compliments and with the following remarks :-
Paragraph 1.-Consistently with the saicidal tendency which characterises so many of the forms in which the present agitation against Government has expressed itself, the inhabitants of the majority of the villages in the Bardoli Taluka and the Valod Mahal have by their non-co-operation with the survey parties chosen to deprive themselves, at any rate for the present, of the advantages of operations which were undertaken solely for their benefit. Before these parties were removed from the taluka and mahal in question, the villagers were given a final opportonity of co-operatiog, of which with only a few exceptions they declined to avail themselves. Now they will have to wait until it is possible for the Surves.Department to resume their operations. Mesnwhile I do not consider that such effect as it may be decided to give to the proposals contained in the Superintendent's report shonld be delayed merely becanse the work, for no fanlt of his or of those who are affected by those proposals, is incomplete. Those who have co-operated should reap the benefit frow the earliest possible date.

## Paragraph 2.-(Paragraph 143 of the Committee's report.)

(1) The Superintendent's discussion of the objection to the present classification system raised in paragraph 143 of the Broomfield-Maxwell Report shows, I venture to thinis, that this objection does not toach the real ruct of the difficulty. The object of the method of classification now in force is, I take it, to determine, for purposes of assessment, the relative valaation of the lands to be, assessed. It is not intended to disclose (or conceal) the 'real height of the assessments'. What is wrong and misleading is not the system of classification, bat the ase of the expression 'maximnm rate'. This expression in no way means what it says. The maximum rate in a village is not the highest rate of
assessment, either actual or permissible, in that village: It is not the rate fixed for the best land in that village, or even for 16 anna land (which, as has been pointed out by the Committee, in many villages by no means represents the best land in the village). It is in fact the rate for only that 16 anns land which possesses no sub-soil facilities and no advantage in respect of proximity to (and, I suppose, also no disadvantage in respect of distance from) the village site. Therefore, whatever this rate may or nay not be, it very obviously is not, in any intelligible sense of the term, a maximum rate'. The nomenclature is bad and ought to be changed, though I confess that I am unable to think of a satisfactory substitute. Perhaps 'stancard rate' would do, though it would require a definition to explain it.
(2) Apart from the name, it seems to me that there is no need to alter the thing to which that name is at present applied. That is to say, we went, as we have got, s rate which relates to a class of land which is of normal quality and frea from eccentricities whether good or bad. I cannot see how a rate which related only to the most exceptional land in a village would be 'more convenient for settlement parposes', or of what use a comparison of such rates in one district with those in another district would be to any one. The only aseful thing to compare is surely the rates fixed in different areas for land of the same description (i.e., jirayst, kyari, etc.) and of the same soil classification unaffected by exceptional considerations such as sub-soil water or geographical position.
(i) The Committee has remarked that "almost everywhere' in the Chorasi Talusa the actual assessment per acre tends to exceed the maximum rate. By actual'it seems from the examples given that 'average' is meant. Mr. Kavi, on the other hand, has shown (page $7^{*}$ ) that this tendency exists in only 16 out of 76 villages in that taluka.
(4) As regards argaments based on 'average' assessments I might refer to Mr. Anderson's remarks on page 50 of Selection No. DCXI below my proposals for the revision settlement of the Jhalod Mahal in the Panch'Mahals District.
(5) As a result of his examination of the classification of fields in the village of Kharvasa, which has been quoted by the Committee as an example of assessment above the maximum rate and in which Government have ordered a special test to be taken, the Superintendent has cone to the conclusion that a general re-examination of the classification of those survey numbers which are at present classed up to 16 annas is unnecessary. This conclusion seems to be justified by the fact that out of 68 such survey numbers which were examined (including 20 which are assessed at more than the maximum rate) a reduction in the present classification was found to be required in only 2. On the other hand, the fact that, out of 20 survey numbers classified above 16 annas which were examined, as many as 14 were found to require a reduction in classification, seems to suggest that a re-examination of the remaining 13 survey numbers in this village which are classified above 16 annas would be desirable. In this connection it is notew orthy that, but for the survey practice of allowing a margin of error of 2 annas, all the 20 villages examined would have been entitled to a reduction. Further, if this practice bad not existed, some change would have been necessary in all the 88 villages examined instead of in only 16 . It is, I suggest, a matter for expert consideration whether this margin of error could and should be reduced.

Paragraphs 3 and 4.-The results of the reclassification clearly show how necessary it was. It appears that the changes which have now been found to be required in the old classification are due principally to natural causes, e.g., lowering of the flood level and water becoming brackish, which have come into existence since the previous classification was made. On the other hand, in a number of cases the reason for the change has been shown as 'fault other than slope'. It is not clear from the report whether these faults axisted at the tike of the previous classification or not. If they did, then that classification must itself be held to have been faulty. If they did not, then the general conclusion from the results of this re-examination must be, I think, that classification cannot claim the virtue of finality, but requires periodical revision. Here again it is presumed that, but for the 2 annas' margin of error, the reductions, which have been found necessary, would have been considerably more extensive.

Paragraph 5.-(Paragraph 126 of the Committee's report.) The Committee's suggestion that what is not used should not be assessed or conversely that assessment for sub-soil water should be based on actual use would, if accepted, involve a return to one or other of the methods of assessment which were discarded 40 or more years ago. According to the present system, the criterion is capacity and not use. The Superintendent in his re-examination of this assessment has taken both these factors into consideration. It is, therefore, difficult to say how far the changes which he has proposed are due to alterations in capacity and how far to the addition of the element of use. Unless the effect of each of these two factors is shown separatel $y$, it is not possible to give an opinion as to whether the resalts of the re-examination disclose the need of a change of system or only the desirability of a periodical re-examination of the assessments fixed under the present system.

Paragraph 6.-(Paragraph 125 of the Committee's report.) Here again it would be interesting to show how far the reductions in classification which have been found
necessary are the result of errors in the previous classification and how far to subsequent change in natural conditions. In any case this village seems to be another instance of the desirability, to which I have already referred, of having periodical re-examination of soil classification and sub-soil water assessments.

Paragraph 7.-(Paragraph 131 of the Committee's report.) Apparently 531 applications from the Bardoli Taluka are still to be investigated. It is not clear whether the area to be examined ' (item IV on page $31^{*}$ of the Superintendent's report) does or does not include these pending applications. Again it is not stated whether the whole of the area shown in item VII is included in item VI. If it is. it would seem to be a fair conclusion that the classification of any land classified as 'old rice' which has not grown rice for ten consecutive years ordinsrily requires to be re-examined.

Paragraph 8.-(Paragraph 127 of the Committee's report.) On receipt of the Government orders the Prant Officer was asked to report aboat the extent of the work and to suggest the grade of revenue officer who would be competent to undertake it. Since then nothing has been heard from him on the subject and the matter seems to have been lost sight of by my office. However, in view of the situation in Bardoli Taluka during the last few months, it would in an y case, I think, bave been impossible to do this work. I have now written to the Prant Officer again and will see what can be done to expedite the inguiry.

Paragraph 9.-The figures on page $32 \S$ of the Superintendent's report are not clear. Is it the difference between (ii) and (iii) land which bas never been classified. or is it land which has been classified but which is now to be re-examined? In either case the percentages in (iv) which are based on a comparison with (ii) appear to be wrong. For, if (ii) includes land which was not previously classified, the present classification of land in (iv) cannot possibly be lower than something which does not exist. On the other hand, if ( $i i$ ) includes land which is to be re-examined but has not yet been re-examined, then the percentage in (iv) shonld obviously be calculated on the area which has been re-examined only. In short, what is required is the percentage of the area which was previously classified, is to be re-examined, and has been re-examiaed.

Paragraph 11.-It is admitted by the Superintendent that the classification of jirayat lands which are classed above 16 annas in the Chorasi Taluka is gererally too high. To remedy this be proposes alterations in the classification scale. I do not feel guite sure whether this is the proper remedy. From what has been said about the village of Kharvasa in this taluka [vide (5) under 'Paragraph 2' above] it is clear that, quite apart from the scale, the classification of such lands requires much correction. It is a question, therefore, whether a mere change of scale will really set things right or give the cultivators the relief to which they are entitled. The firstt sentence on page $38_{\ddagger}^{\dagger}$ of the Superintendent's report rather suggests that this expedient has been proposed as a convenient short-cut in order to avoid the labour and expense involved in a general reclassification. If this be so, I do not think that considerations of time and money are sufficient justification for not undertaking regular reclassification, if that is required, particularly as I suppose that it is impossible to say that the reduction in assessment consequent on such reclassification would not exceed Rs. 13,169, the smount by which the people will benefit as a result of the proposed change in scale.

Paragraph 12.-My remarks in the preceding paragraph and also under 'Paragraph 2' about Kharvasa apply to these cases also. The fact that in 6 out of the 7 villages the average classification is below 16 annas does not presnmably mean that there are no survey numbers which are classified above 16 annas. If there are such survey nambers, then it has already been admitted in paragraph 11 that their classification is too bigh. If so, I do not see why steps to remedy this defect should be postponed until the cultivators apply and pay for them.

Paragraph 14.-If the extra remuneration proposed in the first sentence of this paragraph is recommended solely on account of the considerations mentioned in tine second sentence, then it is a question whether it should be granted from an earlier date than 1st April from which date the Talatis of the talukas in question were given a similar allowance. If, however, it is a bonus which is usually given for such work, then the Superintendent's proposal may be sanctioned."

Memorandum from the Settlement Commissioner and Director of Land Records (Mr. C. H. Bristow, I.C.S.), No. S.T. 844, dated the 3rd October 1930 :-
"Forwarded with compliments to the Commissioner, Northern Division.
" 2 . The Superintendent of Land Record's report is sent in compliance with the revised Government Resolution, Revenue Department, No. 7259/24, *dated 3rd January 1930, and the orders therein may be dealt with seriatim.
"3. Paragraph 125. - The Committee complain that the assessment on land in Supa which had been changed from garden to jirayat had not been materially reduced. They speak of garden land and then of survey numbers which were not bhatha land but have assessments of Rs. 8 and 9 per acre. The facts are that there was some bhatha land and this was turned into jirayat in 1909. This is the 'garden' land mentioned by the Committee. There is also some superior dry crop land with good sub-soil facilities lying close to the village site. This never was 'garden' land. As it is very good land
with various special advantages, it is correctly assessed high. This land has never been 'reclassed as dry crop' as it was never anything but dry orop. The Committee's criticism is, therefore, not clear. What they appear to object to is the amount of the assessment on land which is not technically 'garden'. The object of classification is not to fix assessment high or low but to grade land so that it is fairly assessed in relation to other land. In view of the particular advantages of this land it is not clenr why it should not be assessed at Rs. 8 or very little below bhatha lend.
"4. In compliance with Government orders the Superintendent of Land Records has made a test of land in this villinge and, on finding the classification excessive in one-third of the area tested, re-examined the whole village. He has lowered the classification wherever this was found to be more than 2 annas owing to washing away by streams or deterioration of the sub-soil supply.
"5. The Collector has suggested in his remarks on Kharvasa that 2 annas is an excessive margin. Two annas was fixed as the variation which might occur in any classification owing to difference in individual judgment or in the judgment of the same person under different conditions. Classification obviously canoot be reduced to an exact science, though the long and specialised training of classers reduces error to a very low percentage, and some allowance for the buman factor must always be made. As the same classer going over the same land under different conditions is not certain to fix the classification within a margin of less than two annas, it would serve no purpose to make changes within this margin. The rule should, therefore, remain unchanged.
"6. Paragraph $126: S u b$-soil.-On page $22^{*}$ and following pages, the Superintendent of Land Records has given a summary of the history of aub-soil water assessment. This system is based on the fundamental principle of the Bombay Survey Settlement that land should be assessed on its potential productivity and not on the actual use made of it. The instances given on page $24 \dagger$ show that the old well tax based on actual use would have fallen heavily on the enterprise of the owner of a deep well who brought up the water by oil engine from a depth of over 40 feet while this goes free under the present system. The actual use of wells has to be considered only as an indication of the potential supply and is not to be taken as a basis for assessment. The report shows that the water level has sunk in parts and the supply has turned salt in others, bat only 14 per cent. of the wells in both talukas bave sunk below 40 feet as against 78 per cent. in Kaira.
$\therefore 7$. The proportion of wells in use to wells in good order is 50 and 40 per cent. in Chorasi and Bardoli, respectively. Details have not been given as to why these are not used, but there are many possible reasons, e.g., the extra capital necessary for irrigated crops, the popularity of cotton, the low price of gul, etc. The percentages of wells dry or fallen in is very low, viz., three and eight per cent. There is nothing to show that the present system of assessing sub-soil water facilities is unsuitable, and the old systems have been tried and found to work detrimentally. Now that the classification has been brought up to date the existing system is likely to ensure a fair assessment.
"8. Paragraphs 132 and 140: Garden lands in Bardoli and Chorasi.-Attention is invited to the remarks on Supa above. The Committee have used the term 'garden' sometimes in the sebse of all irrigated land, sometimes as meaning natural bagayat and sometimes to cover bhatha. Bhatha is river side land which gets the advantage of alluvial deposits from flooding. It also frequently has sub-soil water. Natural bagayat always has sub-soil water. In Chorasi, the bhatha land has no sweet sub-soil water. In that taluka, therefore, bhatha and natural bagayat are not merely distinct but matually exclusive terms. In Bardoli there is bhatha in one village only. After seeing certain land the Committee decided that it was wrongly classed as 'garden' meaning bhatha. I have personally seen the bhatha land along the Tapti with the Superintendent. There is no question that this was rightly so classed originally but the cessation of floods has now left the land without its periodical deposit of allavium and the higher lying areas have ceased to he bhatha. These floods seem to have deposited silt and this was highly valued. There is little doubt that if a flood rose so high nowadays that there was 20 feet of water in Surat City as in 1883, immediate relief would be aked for, but it is on account of these cessations of these high floods that the classification is now to be ${ }^{*}$ altered. As the alluvium is no longer deposited this change is necessary.
"9. As regards the bhatha in Kapletha and Amrali the anomaly of the difference in assessment is due to the fact that the land in Amroli has been greatly improved by recent deposits, but the self denying restriction under which Government never allows the classification to be raised prevents the proper reclassification of the land. The anomaly is not due to Kapletha being over-assessed but to Amroli being under-assessed.
" 10. The Committee point out a supposed anomaly in the different treatment of land growing garden crops in Knmbharia and Kosad, the former being olassed as garden paying an average assessment of Rs. 15 per acre, the latter as jirayat but paying Rs. 10 to over 12 an acre. The Superintendent points out that the former is uttam bagayat and the maximum rate for the village was Rs. 7-צ-0 and not Re. 12 as the Committee say. They describe the Kumbharia land as real garden land and say that the Kosad land though classed as jirayat is paying nearly as much. The land in Kosad is classed

[^7]$\ddagger$ Tide page 199 ante.
as jirayat because its sab-soil water does not come up to the standard of sub-soil water required for uttam bagayat. Land does not cease to be 'jirayat' technically because it has sufficient water to grow certain sinds of irrigated crops. The land in either village is practically of equal merit and in both villages is classed at 24 annas, but the sub-soil of Kosad is inferior and is classed at 2 annas against 6 in Kumbharia. This would appear to represent fairly the relative difference of the land in each. The sverage assessment in each is affected by their different maximum rates which the Committee have altered downwards in Kambharia and upwards in Kosad.
"11. The underlying idea of the Committee's criticism seems to be that land growing bagayat crops should be classed as bagayst, and that if it is not classed as begayat it should not be assessed at rates approximating bagayat rates. The facte are that in Gujarat there is no land classed as 'bagayat' except the exceptionally rich land known as 'natural bagayat '. Bhatha land frequently grows irrigated crops and dhekndiat land does the same and both are called 'garden' land; but the soil of ordinary quality which does not lie along river banks is not classed as bagayat, but as jirayat with additional sub-soil assessment if it has sub-soil advantage, and a large profortion of irrigated crops are-grown on such land. But because it grows irrigated crops the Committee think it should be called bagayat. The reason it is not, is given in the summary of the history of sab-soil assessment given by the. Superintendent. As regards the second criticism that jirayat land should be assessed at rates that do not approximate to bagayat rates, the underlying ides is that jirayat land must be greatly inferior to bagayat. As jirayat land with sub-soil water is in fact capable of growing good irrigated crops, though not so good as uttam bagayat, this idea is not based on facts, and the present classification adequately represents their relative merits.
"12. The Committee further state that they have seen land in Kumbharia which is classed as garden althongh it was black soil and could never have grown irrigated crops. They have not, however, explained why a well was built in such land. It is clear enough that no cultivator would.go to the expense of digging a well in land that could not grow irrigated crops. The cultivators, when asked to explain this, stated that it was dug as an experiment. Every cultivator knows that you cannot irrigate black soil in Gujarat and no one would have wasted his money on a well if the soil had been obviously unirrigable at the time. It is certain that the land did once grow irrigated crops but probably, as the Saperintendent supposes, with the stoppage of sugarcane and of heavy applications of manure the surface degenerated or was washed away and only black soil remained. The classification is now wrong, but there is nothing to show that it.was wrong 30 years ago.
"13. The only point which emerges in regard to the assessment is that it would be better in all cases that the maximum rate for natural bagayat and garden land should be separate from the jirayat maximom rate. When there is a single rate the soil assessment of each is bound together and differs only with the classitication. There is, therefore, no elasticity and it is not possible to make any adjustment, if this appears to be necessary, between the rates on garden and dry soil. There is nothing to show that the classification is as a whole unsound in principle or has been faultily applied. The evidence shows only that in some respects the factors affecting classification have undergone a change.
"14. Paragraph 143 : Maximum Rate.-The term 'maximum rate' is a technical one and means the rate assessed on 16 anna land. In three quarters of the Presidency it is in fact a maximum rate as no land is rated above it and most is rated below. Only in Surat District and a few adjoining areas the peculiar excellence of the soil has made it necessary to adopt a 24 anna scale as the soil is so good that the question is not of subtracting annas for faults, but of adding annas to cover the range of extraordinarily good land. Where this specially good land predominates, the average assessment naturally exceeds the 'maximum rate', especially when extra annas are added to the scale for sub-soil water advantages and nearness to the village. There is nothing irrational or illogical in this. It merely leads to an apparent anomaly because the maximum rate is not in such cases the maximum. The maximum rate is in fact a standard, which everywhere else is higher than any actual assessment, but here may be lower. The term 'standard rate' has come to connote non-agricultural rates and its adoption would only cause confusion. The term 'maximum rate' is perfectly clear to those who understand $i t$, and those who will not trouble to do so will be less likely to get a false impression from it than from some apparently simple term such as 'average ussessment' which is in fact very misleading. The whole matter is merely one of nomenclature and it is a little difficult to understand why the Committee have devoted so much attention to it.
"15. As regards Kharvasa the Superintendent's report (page 8*) shows that only 33 out of 291 survey numbers have assessments higher than the maximum rate. In 17 of these, extra annas have been given for nearness to the village site. In the 33 survey numbers classified at above 16 annas, only 13 are so classed on the soil annas independently of additions for nearness to the village site. Of this 13 , as many as 12 have been found tos high by the present classification. On the other hand of the

[^8]30 survey numbers classed at 16 annas or below, none have been found too high. These figures support the Superintendent's view that the classification scale above 16 annas requires modification, while that of 16 annas and below is correct and needs no change. It is not clear why the Collector thinks that reclassification of the land of over 16 annas is neceassry and not merely an adjustment of the scale. The former would be very laborious and requires sabstantial reasons to justify its being done.
"16. For the same reason I do not see why any further reclassification should not be left to the ordinary method of application by the occupants and deposit of fees.
"17. As regards reclassification in Bardoli which has been prevented by the hostile attitude of the occupants themselves, I strongly support the Collector's view that nothing further should be done for them, while the reductions proposed by the Superintendent of Land Records on the land which he has examined should be granted as early as possible and from the beginning of the present year.
"18. The Collector's endorsement has been sent to the Superintendent of Land Records for explanation of certain points raised by the Collector and his replies are contained in the supplementary report" forwarded herewith.
"19. A summary of the Superintendent of Land Records' proposals will be found on page $39 \dagger$ of his report and the reductions proposed therein are recommended for sanction.
"20. The proposals for bonus will be dealt with in a separate reference."
Memorandum from the Commissioner, Northern Division (Mr. J. H. Garrett, C.S.I,, I.C.S.), No. S.R.Y. 149, dated the 30th May 1931 :-
"Submitted to Government.
"2. I would invite attention to the remarks of the Collector in the beginning of his review on the attitude taken by the people of Bardoli Taluka. So far as the work has been done, it may now be considered by Government. The work which remains may be carried out when the people show their readiness to co-operate.
"3. The greater part of Mr. Kavi's able report is taken up with his argaments aimed at rebutting the criticisms of the Bardoli Committee on survey methods.
"4. I do not consider that it is necessary for me to go very fully into the technical discussions dealt with by Mr. Kavi and Mr. Bristow.

I will briefly give my own views on several points:-
(i) Maximum Rate.-This term is neither accurate nor logical. As, however, it is well anderstood and no good substitute is found, it should still be kept.
(ii) Reclassification-ignoring of error less than 2 annas.-I agree with the

Settlement Commissioner that this practice should stand. Greater precision in
classification is impossible.
(iii) Sub-soil Water.-I see no reason to assess water on use as against capacity for use. It is most undesirable to reject the experience of experts who only arrived at the present method after trial of several others.
"5. I agree with the Settlement Commissioner that the Superintendent, Land Records' proposals may be sanctioned. Mr. Kavi may be commended for a very lacid and comprehensive report."

Letter from the Collector of Surat (Mr, H. V. Braham, C.I.E., I.C.S.), No. R.E.V., dated the 2nd February 1931 :-
"With reference to paragraph 2 of your endorsement, No. C.N.R. 121, dated 31st March 1930, requesting me to arrange for the inquiry referved to in paragraph 127 of the report of the committee appointed by Government to inquire into the revision settlement of Bardoli Taluka (including Valod Mahal), and sanctioned by Government in their Resolution, No. 7259/24, dated 3rd January 1930, Revenue Department, I have the bonour to report that villagewar statements, showing details of survey numbers, and area of 'new rice' land in each village under kavchi variety and other rice as well as under crops other than rice during the last five years of the last settlement, i.e., during the years 1922-23 to 1926-27, have been got prepared by Talatis from the village crop registers. As the inguiry consisted merely of an examination of the village crop registers no appointment of a special officer was made for the purpose, but the statements for all the villages have been got checked by the Aval Karkun, Bardoli.
" 2. A villagewar statement showing the total number of sarvey numbers and area of ' new rice' land under the kavchi variety and other rice and under crops other than rice in each village, is submitted herewith, from which it will appear that the total number of survey numbers requiring reclassification (total of columns 4 and 8 of the statement) comes to 955 and the total area (total of columns 5 and 9 ) comes to 791 acres 28 gunthes.
"3. Similar information for Valod Mahal has also been called for from the Mahalkari, Valod. It will be submitted as soon as received." -

Letter from the Collector of Surat (Mr. T. T: Kothayala), No. R.E.V., dated the 2Znd April 1931 :-
"In continuation of my No. R.E.V., dated 31st January 1931, forwarding statement showing 'new rice ' area requiring reclassification in Bardoli Taluka, I have the honour to forward herewith a staternent showing similar information for Valod Mahal as directed by Government in their Resolution, No. 7259/24, dated 3rd January 1930, while sanctioning the proposais of the committee appointed to inquire into the revision settlement of Bardoli Taluks (inoluding Valod Mahal) in paragraph 127 of their report.

The total number of survey numbers requiring reclassification comes to 934 and the area thereunder 766 acres 15 ganthas as shown in the statement (vide columns 5 plus 7). These ourvey numbers have been verified by the Aval Karikun, Valod, through the pahani patraks as having, been shown to have grown kavchi rice or crops other than rice from 1925-26 to 1929-30."

Memorandum from the Commissioner, Northern Division (Mr. J. H. Garrett, C.S.I., I.C.S.), No. C.N.R. 121, dated the 11th June 1931, to the Collector of Surat:-
"With reference to the Collector of Surat's Nos. R.E.V., dated 2nd February 1931 and 22nd April 1931, the Commissioner, Northern Division, has the hocour to request the Collector to be so good as to arrange, in consultation with the Superintendent, Land Records, Northern Division, to work out the financial effect of the proposals for the conversipn of 'new rice' lands to 'dry crop' in the Bardoli Taluka and Valod Mabal, and submit the papers through the Settlement Commissioner and Director of Land Records for obtaining the necessary sanction of Government."

Memorandum from the Commissioner, Northern Division (Mr. J. H. Garrett, C.S.I., I.C.S.), No. C.N.K. 121, dated the 11th June 1931 :-
"Copy, with copies of the Collector's letters under reference, submitted to Government with reference to their Resolution, No. 7259/24, dated 3rd January 1930.
" 2. The information for the Bardoli Taluks has been collected for the years 1022-23 to 1926-27 and that for the Valod Mahal from 1925-26 to 1929-30. The information for the Bardoli Taluka should have been collected for the years 1925-26 to 1929-30 as has been done in the case of Valod Mahal in view of paragraph 127 of the Broomfield Committee's Report."

Resolution.-The Broomfield-Maxwell Committee appointed by Government in $19: 28$ to enquire into the revision settlement of Bardoli Taluka (including Valod Mahal) and Chorasi Taluka of Surat District made certain recommendations in paragraphs 125, 126, 127, 132, 140 and 143 of its report regarding the classification of lands in these talukas. In their Resolution in the Revenue Department No. 7259/24, dated 3rd January 1930, Government passed orders on these recommendations and explained later in a Press Note the nature of the enquiries which would be made in consequence. Supplementary instructions were issued in Government Resolution, No. 7259/24, dated 14th June 1930, which was also published as a Press Note. The results of the enquiries and Government's orders on them are explained in the following paragraphs.
2. Paragraph 125 of the Committee's Report. - In this paragraph the Committee noticed that the assessment on land in the village of Supa of the Bardoli Taluka which had been changed from garden to jirayat had not been materially reduced. They, therefore, recommended that the classification of land in this villageshould be thoroughly overhauled. In Government Resolution, No. 7259/24, dated 3rd January 1930, Government directed that the classification value of all land in this village formerly classed as garden but now classed as dry crop should be examined, and in addition a test of the existing classification of all types of land in the village should be made. It was observed that the necessity of extending the reclassification to all the lands of the village would be judged from the results of this test. The Superintendent of Land Records, N.D., has accordingly made a test of all types of land in the village and on finding the classification excessive in one-third of the test area has re-examined the whole land of the village. The classification has been lowered wherever it was found necessary owing to washing away by streams or deterioration of the sub-soil supply, and the results are as follows-
(i) the reduction in sub-soil assessment from Rs. 505-11-1 to Rs. 307-4-0;
(ii) the reduction in assessment on rice land by Rs. 22-6-0;
(iii) the reduction in assessment due to deterioration of soil by Rs. 293-3-0; and
(iv) the reduction in assessment by Rs: 10-7-0 on account of pot kharab. Thus the total reduction in assessment as a result of the present classification is Rs. 633-4-0.
3. Paragraph 126 of the Committae's Report.-In this paragraph the Committee recommended that the suitubility of the sub-soil water assessment should be examined in the Bardoli Taluka in the light of the present conditions in order to determine how far this form of assessment is now justified by the actual use of the advantages assessed. Government accepted the Committee's recommendation and directed that this re-examination should be complete throughout both the Bardoli and Chorasi talukas. In the Chorasi Taluka the sub-soil classification has been applied in 23 out of 76 villages and the total sub-soil assessment in these villages is Rs. 12,286-3-5. As a result of reexamination, the sub-soil scale has been reduced wherever it was found necessary. The reduction in assessment on this account is estimated to be Rs. 4,274-12-0, which is equal to $34 \cdot 7$ per cent. of the totnl sub-soil assessment. In the Bardoli Taluka where the bulk of land is black soil, the sub-soil-classification has been applied only in 34 villages and the total sub-soil assessment is Rs. 7,690-7-2. As a result of the reclassification, the rednction of assessment is Rs. 1,645. The reduction of assessments in both the talukas is sanctipned.

It was suggested in the Committee's report that the assessment for sub-soil water should be based on actual use. This was indeed the principle used in the Bombay Survey before the present system was adopted. But the difficulties of taxing the actual use of sub-soil water were so great that after prolonged trial the principle was abandoned and the system adopted of taxing potential productivity and not actual use. After careful consideration, Government agree with the Settlement Commissioner in his view that there is nothing to show that the present system of assessing sub-soil water facilities is intrinsically unsuitable. Now that the sub-soil classification has been brought up to date, Government consider that the present system will ensure a fair assessment.
4. Paragraph 127 of the Committee's Foeport.-In this paragraph the Committee recommended that new rice land which cannot be shown to have grown rice (other than the 'kavchi variety') during the last five years, should be reclassed as dry crop. As recommended by the Committee, inquiry as to the survey numbers, which on the above principle are to be converted to dry crop, has been made, and a report regarding the finanoial effect of the proposal is awaited.
5. In paragraph 2 of Government Resolution, No. 7259/24, dated 30th March 1928, Government directed that inquiries should be made regarding deterioration of lands in certain villages of the Bardoli and Chorasi talukas owing to washing by streams. The Superintendent of Land Records reports that several applications on this account were received and the requisite investigations were carried out. The result of reclassification is that there will be a reduction in assessment on this account of Rs. 2,750-14-6 and of Rs. 249-3-0 on account of new pot kharab.
6. Paragraph 131 of the Committee's Report. -In this paragraph the Committee drew attention to a complaint that many of the lands classed as old rice and capable only of growing dry crops. They recommended that it should be left to individuals to apply for relief in this conneotion and that such applications should be carefully investigated where the crop record shows that no rice had been grown for the last 10 years. In Government Resolution, No. $7259 / 28$, dated 14th June 1930, Government were pleased to sanction this recommendation and to direct that the applications should be disposed of as quickly as possible. The Superintendent of Land Records reports that 942 applications were received from the Collector and the work was undertaken immedistely. The result of the examination is that land revenue assessment amounting to Rs. 1,291-9-6 will be reduced on account of reclassification.

- 7. Paragraphs 132 and 140 of the Committee's Report.-In paragraph 132 of their report the Committee recommended that the classification of garden lands in Bardoli should be re-examined. In paragraph 140 they gave instances where dry crop land in Chorasi Taluka had been wrongly classed as garden. Government directed a complete re-examination of the classification of garden
lands in Bardoli and a similar re-examination in those villages in Chorasi which were nentioned by the Committee and in other places where applications for such examination were received. The Committee appear to have included in the term garden both bhatha land and uttam bagayat land. In the Chorasi Taluka bhatha land is found in twelve villages and in the Bardoli Taluka in one village only. As a result of re-examination by the Superintendent of Land Records, the bulk of the land has been reclassitied as jirayat, resulting in a net total reduction in assessment of Rs. 4,861 in Chorasi Taluka and Rs. 10 in Bardoli Taluka.

Uttam bagayat land is found in eight villages of the Chorasi Taluka and one village of the Bardoli Taluka. Of the total area of 879 acres, 27 gunthas of this land ( 821 acres in Chorasi plus 67 acres, 27 gunthes in Bardoli) en area of 188 acres, 27 gunthas has been found to be jirayat and the reduction in soil assessment on this account in both the talukas comes to Rs. 139-10-0. There is a further reduction in assessment of land continued as uttam bagayat in the Chorasi Taluka, amounting to Rs. 101-10-0 on account of reclassitication.
8. Paragraph 143 of the Committee's Report.--In this paragraph the Committee suggested that as the assessment per acre in Chorasi Taluka sometimes exceeds the maximum rate, it was desirable to devise a system of classification by which assessment can be expressed in terms of a real maximum rate. Government accordingly directed that a sufficient number of fields in Kharvasa which are assessed much above the maximum rates should be re-examined in order to enable them to decide what action is necessary to meet the recommendation of the Committee. This has now been done and the results are summarised by the Settlement Commissioner.

As the Settlement Commissioner has pointed out, the term " maximum rate " is correctly used over three quarters of the Presidency, as no land is rated there above 16 annas. It is only in Surat. District and a few adjoining areas that the classification exceeds 16 annas, and here the expression maximum rate is somewhat anomalous. But the expression is well understood to be the assessment on 16 anna land, and it does not appear to the Governor in Council that there is any sound reason why it should be altered, especially as it has been in use for so many years in the Presidency as a whole.

In their orders on paragraph 143 of the Committee's report, Government directed that the tests in Kharvasa should be taken to see not merely whether the classification is in accordance with the classitication rules, but also whether the rules require alteration because the results they produce are inequitable. It is now reported that the classification has been uniform and correct except where there has been an obvious error or where land has deteriorated on account of lihar (salt) or scarcity of water (sub-soil or of tanks or canals). In the opinion of the Superintendent, which is concurred in by the Settlement Commissioner and the Commissioner, N. D., the present system of classification does not require any alteration. After careful consideration the Governor in Council agrees in this view.

Though the examination has established that the method of classification requires no alteration, it has disclosed that the classitication scale of jirayat lands in 45 villages of the Chorasi Taluka is very high and requires modification as the additional facilities of sub-soil water and well water have either disappeared or deteriorated in quality and quantity. The Superintendent has, therefore, proposed a reduction in the present general scale annas of the jirayat lands in question instead of the classification of individual survey numbers. This has resulted in a total reduction of Rs. 13,169-11-0 which is sanctioned.
9. The present practice of the Survey Department is to allow an error of two annas in the classification value, as this value is a matter of individual judgment. The Collector of Surat considers that the examination of the classification of the soils in Kharvasa suggests a revision of this margin of error. The Settlement Commissioner and the Commissioner, N. D., are of opinion that errors of less than two annas in classification should be ignored. Government accept this view. Government also accept the Stitlement Commissioner's view that further reclassification should be made in the ordinary way on application by occupants on payment of fees in advance.
10. The work of reclassification has been completed in the 38 villages out of 76 villages in the Chorasi Taluka for whioh it was necessary. As regards the Bardoli Taluka including the Valod Mahal, similar worls was to be done in 137 villages but it has been finished in 34 villages only owing to non-co-operation by the villagers. The results of the reclassification work will now be applied for reducing the assessments in the villages for which the work is complete. The Governor in Council agrees with the Commissioner that the work, which remains to be done in the Bardoli Taluka should be carried out when the people are ready to co-operate and arrangements should be made to restart it as soon as practicable.
11. The reductions in assessment specified in the foregoing paragraphs and which are summarised below are due"generally to natural changes and not to faulty classification originally. They are sanctioned and should be given effect to from the current revenue year 1931-32:-

Reduction in assessment.

12. Government endorse the Commissioner's commendation of Mr. Kavi's excellent work.

By order of the Governor in Council,

H. V. R. IENGAR, Under Secretary to Government.

G. R. No. 7259/24, R. D., dated the 5th October 1931.

The Commissioner, Northern Division,
The Commissioner, Central Division,
The Commissioner, Soathern Division,
The Collector of Surat,
All other Collectors in the Presidency proper,

The Settlement Commissioner and Director of Land Records, The Director of Information, The Accountant General, The Finance Department, The Pablic Works Department.

Accompaniment to Government Resolution, Revenue Department, No. 7259/24, dated the 5th October 1931:

Memorandum from the Superintendent of Land Records, Northern Division (Mr. C. D. Kavi), No. S.R.V. 237, dated the 6th September 1930, to the Settlement Commissioner and Director of Land Records.
The report called for is submitted asjunder:-
Paragraph 1.-Calle for no remarks.
Paragraph 2 (5).-It has been remarked that " It is, I auggest, a matter for expert consideration whether the margin of error could and should be reduced ". As has been
stated at page $9^{*}$ of my report, it is the survey practice not to take any action, when classification is not modified by more than 2 annas, because classification is a process of judgment, in which variation up to 1 class or 2 snnas is possible and allowed. This is an old survey practice followed in all reclassifications since the time of revision settlement about 1888. It has been followed in all reclassifications from 1924, the priacipal cases being :-
(1) reclassification due to damage by floods (G. R. No. 4871/28, dated 14th May 1928);
(2) reclassification of garden lands in Palghar (G. R. No. 1745/28, dated 22nd June 1929); and
(3) reclassification of garden lands in Bassein (G. R. No. 4828/24, dated 14th November 1929);
(4) the same practice has been followed in my proposals about salt rice lands in Bassein (my No. S.R.V. 269, dated 16th December 1929); and
(5) it has been followed in this case.

Variation in judgment op to 1 class or 2 annas is not unoften and the long standing practice may be continued.

Paragraphs 3 and 4. -The remark about "faults other then slope" apply to uttum bagayat lands only (vide paragraph 4 of my report). Such axea is not much- 812 acres in 8 villages of Chorasi, and $67-27$ acres in I village of Bardoli. The bagayat area turned jirayat on account of faults other than slope is only 30 acres 24 gunthas out of 289 acres 6 gunthas turned jirayat. The remaining area (289-6-30-24 $=258-22$ ) is tarned jirayat, because the water has either become hrackish or inadequate. As has been explained at page $20 \dagger$ of my report, the faults were not found at the time of the original classification. The classification was correct, but there have been subsequent changes.

I agree that classification of water factor reguires periodical reclassification at the time of a revision settlement, or when a prima facie case is made out on application, or during inspection. This is being done.

Paragraph 5.-As has been explained at pages +23 and 24 , and particularly Appendix IV, it is the practice to take all necessary factors into consideration in deciding capacity, and that it was not safe to rely upon one factor only, though we are bound by the scale, and should not go beyond it.

Previous methods of water assessment have been mentioned at page 22§. They have been rejected after trial. There is no need in the change of the system, though periodical examination is necessary, as has been stated before. Where necessary, this is being done, vide Government Resolation, No. 8347, dated 9th July 1924, regarding the five talukas in the Kaira District.

Paragraph 6.-The total assessment of Supa is Rs. 5,461. Out of this amount, reduction of Rs. 307-4-0 is proposed on account of cbange in sub-soil, and the amount of Rs. 315-9-0 is proposed to be reduced on account of deterioration of land. As has been stated at page $299 \mid$ of my report, "in this taluks some lands are situated on rivers and streams, and they are sloping. The original classification is low, and pot kharab, where necessary, has been given, but there is some further deterioration in some places on account of washing by streams ". This further deterioration is the reason of the reduction in soil classification.

Paragraph 7.-The area to be examined in IV does not inclode the area of the pend* ing applications. Practically the whole area in VII is included in VI. Reclassification of rice lands is being done, where necessary, vide-

Government Resolution, No. 8347, dated 9th July 1924, for the 5 talukas in the Kaira District ;
Government Resolution, No. 8171, dated 23rd May 1927, for Sanand ;
Government Resolution, No. 9226, dated 13th July 1927, for Viramgam ;
Government Resolution, No. 3606/28, dated 4 th December 1929, for Jahangirabad in Chorasi.
Paragraph 9.- Area to be examined in (ii) is the area originally classified, but which is now to be examined, either as reported by village officers, or on application. According to instructions (vide page $32 \pi$ of my report), the classer had to examine the whole area to classify 5 per cent. in different localities in the village and, if the difference was appreciable, to take immediate action to classify farther area. The difference between

| - Vide page 117 ante. | \$Vide page 120 ante. |
| :--- | :--- |
| \# Fide page 128 anto. | §Vide page 121 ante. |
| if Tide page 125 ante. | IVide page 127 ante. |

(ii) and (iii) is the area examined, but not classified, as there was no apparent deterioration. This was the usual method followed in reclassification, vide Government Resolution, No. 487/28, dated 14th May 1928, regarding reclassification of land deteriorated on account of floods, and my No. S.R.V. 269, dated 16th December 1929, regarding reciassification of salt rice lands in Bassein. Therefore, the percentages in (iv) are correct.

Paragraph 11.-As has been explained at pages $37-38^{*}$ of my report, my chief reason for suggesting modification in the scale instead of classification of individual survey numbers is the fact that after carefully examining the point in the villages visited by me, " the classification was found to be uniform and relatively correct". The saving of labour and cost is incidental. As has been stated on page $38^{\circ}$, there has been a precadent in Government Resolution, No. 8347 of 8th March 1927, where the area involved and assessment reduced were greater.

Paragraph 12.-As has been stated at page $39^{*}$ and also in paragraph 11, survey numbers classed at more than 16 annas will get the benefit of the scale reduction, if sanctioned. As has been shown in case of other survey numbers, in case of Kharvasa, no action is necessary. For such survey numbers action will be taken in the usual course on application and deposit.

- Tide page 129 ante.

Recision Settlement.
Bardoli and Chorasi talukas.
Reclassification of lands.

# GOVERNMENT OF BOMBAY. 

## Refenue Department.

Resolution No. 7 $\mathbf{2} 59 / 24$.
Bombay Castle, 2nd December 1931.
Letter from the Collector of Surat (Mr. T. T. Kothawala), No. R.E.V., dated the 18th August 1981:-
"With reference to your No. C.N.R. 121, dated 11th June 1931, on the subject mentioned above, I have the honour to send herewith papers showing villagewar details of new rice survey numbers shown to have grown kavchi variety of rice and crops other than rice, etc. (pages 1 to 166 relate to Bardoli Taluka and the remaining 167 to 275 to Valod Mahal), together with a consolidated statement* prepared by Superintendent of Land Records, Northern Division, showing the financial effect of the proposals made by the Broomfield Maxwell Committee in paragraph 127 of their report on special enquiry into the second revision settlements of Bardoli Taluka, inciuding Valod Mahal and Chorasi Taluka of Surat District, and sanctioned by Governmert in their Resolution, No. 7259/24, dated 3rd January 1930, Revenue Department, and to state that the estimated reduction as worked out by the Superintendent, Land Records, Northern Division, comes to Rs. 1,705-10-5 of which Rs. 12-7-0 are for water assessment (himayat) and Rs. 1,693-3-6 for soil assessment including position class, dusota and sub-soil. Oat of the total 'new rice' area of 4,056 acres 36 gunthas, the area of 1,558 acres 3 gunthas $\left(38^{\circ} 3\right)$ is to be reclassed as dry crop, kavchi rice being grown in 15 acres 20 ganthas, dry crops in 1,542 acres 23 gunthas.

In the circumstances, it is requested that Government be moved to sanction the reclassification of the 'new rice' lands and the estimated reduction in assessment of Rs. 1,705-10-6 as shown in column 17 of the statement.""

Memorandum from the Settlement Commissioner and Director of Land Records (Mr. K. L. Panjabi, I.C.S.), No. S.T. 928, dated the 25th August 1931 :-
"Forwarded with compliments to the Commissioner, Northern Division, with a recommendation to obtain Government sanction to the reclassification of 'new rice' lands and reduction of assessment as proposed by the Collector."

Memorandum from the Commissioner, N. D. (Mr. J. H. Garrett, C.S.I., I.C.S.), No. C.N.R. 121, dated the 8th October 1931 :-
"Copies, with the consolidated statement prepared by the Superintendent, Land Records, Northern Division, submitted to Government in continuation of this office No. C.N.R. 121, dated 11th June 1931, and recommended.'

Resolution.-Sanction is accorded to the reclassification of "new rice" lands and the reduction of assessment thereon as proposed by the Collector and recommended by the Settlement Commissioner and Director of Land Records and the Commissioner, Northern Division.

By order of the Governor in Council,

H. V. R. IENGAR, Under Secretary to Government. To

The Commissioner, Northern Division,
The Collector of Surat,
The Settlement Commissioner and Director of Land Records, The Accountant General,
The Finance Department.

- Printed as an accompaniment to thia Resolution.

STATLE


No. 7259/24, dated the 2nd December 1931.
MENT.

C. $10-07$

\begin{tabular}{|c|c|c|c|c|c|c|c|c|}
\hline Serial No. \& Name of Village.

2 \& Total area of new rice land. \& | Out of column 8 area under rioe other than kavahi in which no setion is to be taken. |
| :--- |
| 4 | \& Out of column 8 ares under kavchi rioe. \& Out of oolumn 9 srea under orops other than rice. \& Total $\underset{\substack{\text { (columns } \\ 5+6) .}}{ }$ \& Average position clase annas of the viliage. \& Average dusots or seoond orop annas of new rice land in the village. <br>

\hline \& \& A. g. \& A. g. \& A. g. \& A. g. \& A. g. \& Rs. a. p. \& Ra. B. p. <br>
\hline 22 \& Bhesudis \& $26 \quad 6$ \& \& ... \& \& \& $\begin{array}{llll}0 & 3 & 8\end{array}$ \& 006 <br>
\hline 23 \& Bardoli \& 24 \& 08 \& ... \& 186 \& 186 \& 040 \& <br>
\hline 24 \& Utare \& \& \& ... \& \& \& \& <br>
\hline 25 \& Mota \& 2989 \& 18 181 \& ... \& 168 \& 168 \&  \& 028 <br>
\hline 26 \& Lakhanpore \& $7 \quad 19$ \& $5 \quad 32$ \& \& 127 \& 127 \& 020 \& <br>
\hline 27 \& Ambheti \& $20 \quad 20$ \& 1016 \& ... \& 10 \& 104 \& 0880 \& 016 <br>
\hline 28 \& Puni \& 1814 \& 1019 \& ... \& 785 \& 785 \& $0 \leqslant 0$ \& 008 <br>
\hline 29 \& Tighra-Sarbhan \& 19 \& $\cdots$ \& ... \& 19 \& 1.9 \& 040 \& ...... <br>
\hline 30 \& Vaghech-Sarbhan \& $\begin{array}{ll}0 & 17\end{array}$ \& 06 \& ... \& 011 \& 011 \& $\begin{array}{llll}0 & 2 & 6\end{array}$ \& ...... <br>
\hline 81 \& Ohhitre \& 016 \& $0 \quad 16$ \& ... \& \& \& \& .... <br>
\hline 82 \& Afave \& 2010 \& 1188 \& ... \& 812 \& 812 \& 02 \& 00 <br>
\hline 38 \& Isaroli \& 161 \& 98 \& ... \& 688 \& 639 \& 026 \& 009 <br>
\hline 94 \& Khali \& $\ldots$ \& $\cdots$ \& ... \& ... \& ... \& $\cdots$ \& $\cdots$ <br>
\hline 35 \& Tajpur Valod \& ... \& ... \& ... \& ... \& ... \& ... \& . <br>
\hline 36 \& Tajpur Kurad \& $\cdots$ \& $\cdots$ \& ... \& \& $\cdots$ \& \& 0 <br>
\hline 97 \& Manikpore \& $89 \quad 1$ \& 598 \& 1.0 \& $\begin{array}{ll}29 & 82 \\ 24\end{array}$ \& $\begin{array}{ll}29 & 32 \\ 25\end{array}$ \& $\begin{array}{lll}0 & 2 & 6 \\ 0 & 8 & 1\end{array}$ \& $0{ }_{0}^{0} 68$ <br>
\hline 38 \& Uva \& $61 \quad 12$ \& $\begin{array}{ll}85 & 19\end{array}$ \& 1.0 \& 2483 \& $25 \quad 93$ \& $\begin{array}{llll}0 & 8 & 1\end{array}$ \& 0 O 18 <br>
\hline 89 \& Vankaner \& $98 \quad 11$ \& 7715 \& ... \& 1686 \& 1586 \& 026 \& 018 <br>
\hline 40 \& Sarethi \& 230 \& 220 \& $\cdots$ \& 010 \& 010 \& 0 0 4 1 0 \& <br>
\hline 41 \& Segvad \& 4320 \& 2235 \& ... \& $20 \quad 25$ \& $20 \quad 25$ \& $\begin{array}{lll}0 & 2 & 6\end{array}$ \& 006 <br>

\hline 42 \& Hitholia \& 55 \& 812 \& -.. \& 188 \& 1 | 1 | 98 |
| :--- | :--- | \& $\begin{array}{llll}0 & 2 & 6\end{array}$ \& 010 <br>

\hline 43 \& Allu \& $46 \quad 2$ \& 3124 \& 086 \& 1522 \& 1418 \& $\begin{array}{llll}0 & 2 & 6\end{array}$ \& 008 <br>
\hline 44 \& Nagla \& 88 \& $1 \begin{array}{ll}1 & 12\end{array}$ \& ... \& 827 \& 227 \& 0880 \& - $\quad$. <br>
\hline 45 \& Pardivalod \& 170 \& 1117 \& $\ldots$ \& 523 \& 523 \& 086 \& 010 <br>
\hline 46 \& Siyod \& 425 \& 316 \& ... \& 19 \& 19 \& 026 \& 016 <br>
\hline 47 \& Pardipata \& 79 \& 130 \& $\cdots$ \& 519 \& 519 \& 026 \& 010 <br>
\hline 48 \& Sarbhan \& $37 \quad 6$ \& $15 \quad 15$ \& 111 \& 2020 \& 2181 \& 0 O. 1 \& 018 <br>
\hline 49 \& Pati \& 281 \& 231 \& ... \& \& ... \& \& ... <br>
\hline 60 \& Khoj \& 198 \& 11.8 \& ... \& \& 184 \& $\begin{array}{lll}0 & 2 & 0\end{array}$ \& <br>
\hline 51 \& Pardi Kadod \& 725 \& $5 \quad 29$ \& ... \& 2.2 \& $2{ }^{2}$ \& 0 \& <br>
\hline 52 \& Kantali \& 632 \& 418 \& ... \& 220 \& 220 \& $\begin{array}{llll}0 & 9 & 6\end{array}$ \& 040 <br>
\hline 58 \& Vaghe Chaidod \& 1.8 \& 18 \& ... \& $\cdots$ \& $\cdots$ \& \& $\ldots$ <br>
\hline 54 \& Aorgam. \& 2517 \& $19 \quad 16$ \& ... \& 61 \& $6 \quad 1$ \& 0 036 \& 0 <br>
\hline 55 \& Vathvania \& $28 \quad 27$ \& 924 \& ... \& 193 \& 198 \& 0 O 90 \& $\begin{array}{lll}0 & 1 & 3\end{array}$ <br>
\hline 56 \& Junvani \& $14 \quad 10$ \& 831 \& ... \& $4 \quad 19$ \& 419 \& $\begin{array}{lll}0 & 3 & 0\end{array}$ \& 018 <br>
\hline 57 \& Haripara \& 11017 \& 1017 \& ... \& 910 \& 910 \& $\begin{array}{lll}0 & 8 & 6\end{array}$ \& $\ldots$ <br>
\hline 58 \& Miyavadi \& $18 \quad 35$ \& 1511 \& ... \& 824 \& 824 \& $\begin{array}{lll}0 & 2 & 6\end{array}$ \& 010 <br>
\hline 59 \& Mangrolia \& 616 \& 43 \& ... \& 218 \& 218 \& 0 O 38 \& ...... <br>
\hline 60 \& Karohaka \& 144 \& $5 \quad 25$ \& $\cdots$ \& - 19 \& 819 \& 0893 \& 010 <br>
\hline 61 \& Kikpad \& 2118 \& 109 \& 011 \& $10 \quad 98$ \& 119 \& 026 \& 010 <br>

\hline 62 \& Vadhana \& | 3 | 30 |
| :--- | :--- | \& $1{ }^{1} 85$ \& ... \& 185 \& 185 \& $0 \begin{array}{lll}0 & 4 & 0\end{array}$ \& 0 O 09 <br>

\hline 63 \& Bhatlav Moti \& $15 \quad 17$ \& $11 \begin{array}{ll}11 & 17\end{array}$ \& ... \& 40 \& 40 \& $\begin{array}{lll}0 & 8 & 0\end{array}$ \& $0 ¢ 0$ <br>
\hline 64 \& Kanai \& $15 \quad 22$ \& 211 \& ... \& 13 11 \& 1311 \& $00_{0} 8312$ \& 0 0 10 <br>
\hline 65 \& Amroli \& 638 \& 811 \& ... \& 387 \& $\begin{array}{ll}8 & 27\end{array}$ \& 040 \& 086 <br>
\hline 66 \& Gotass \& 1380 \& 630 \& ... \& \& 70 \& 040 \& 089 <br>
\hline 67 \& Nizar \& 1018 \& 1018 \& ... \& \& $\cdots$ \& $\cdots$ \& <br>
\hline 68 \& Pathradia \& 75 \& 49 \& ... \& 286 \& 236 \& 086 \& 006 <br>
\hline 69 \& Goji \& 1284 \& 1026 \& ... \& 2.6 \& 28 \& 03 \& 005 <br>
\hline 70 \& Tajpur Bujrang \& ... \& \& ... \& \& \& . \& <br>
\hline 71 \& Masad \& $84 \quad 17$ \& $20 \quad 29$ \& ... \& 1828 \& $\begin{array}{ll}13 & 28\end{array}$ \& $\begin{array}{lll}0 & 3 & 3\end{array}$ \& 010 <br>
\hline 72 \& Rajvad \& 105.7 \& $56 \quad 39$ \& $\ldots$ \& 488 \& 488 \& $0 \begin{array}{llll}0 & 3 & 6\end{array}$ \& 026 <br>
\hline 73 \& Nabuta \& 181 \& 95 \& $\ldots$ \& 886 \& 836 \& 08480 \& 0 1 0 <br>
\hline 74 \& Samthan \& 1883 \& 1021 \& ... \& 812 \& 8 12 \& $\begin{array}{llll}0 & 3 & 0\end{array}$ \& 0 0 0 <br>
\hline 75 \& Bhamaiga \& 2218 \& 101 \& ... \& 1217 \& 1217 \& $\begin{array}{llll}0 & 8 & 9\end{array}$ \& 0880 <br>
\hline 76 \& Uohhrel \& $28 \cdot 36$ \& 115 \& ... \& 1781 \& 1791 \& 026 \& 003 <br>
\hline 77 \& Singod \& 640 \& 5920 \& $\ldots$ \& 420 \& 420 \& 036 \& 020 <br>
\hline 78 \& Bemini \& 5130 \& 488 \& $\ldots$ \& 822 \& 82.2 \& $0 \begin{array}{lll}0 & 4 & 0\end{array}$ \& ... <br>
\hline 79 \& Ruva \& 507 \& $48 \quad 29$ \& ... \& 618 \& 618 \& 040 \& ... <br>
\hline 80 \& Bharampore \& 426 \& 121 \& ... \& 34 \& 94 \& 080 \& 080 <br>
\hline 81 \& Motifalod \& $20 \quad 32$ \& 1824 \& .." \& 78 \& 78 \& 036 \& 010 <br>
\hline 82 \& Timberpa \& $1 \quad 19$ \& ... \& ... \& ] 19 \& 119 \& 040 \& .... <br>
\hline 83 \& Sankeri \& 4182 \& 314 \& ... \& $10 \quad 28$ \& 1028 \& $0 \begin{array}{lll}0 & 3 & 6\end{array}$ \& 016 <br>
\hline 84 \& Rajpur Lumbha \& 14 \& 018 \& ... \& 026 \& 026 \& 0840 \& ... <br>
\hline 85 \& Rayem \& 648 \& $36 \quad 9$ \& \& 1784 \& 1794 \& $0 \leqslant 0$ \& <br>
\hline 86 \& Alsoti \& $40 \quad 6$ \& $21 \quad 19$ \& \& $18 \quad 27$ \& $18 \quad 27$ \& $\begin{array}{llll}0 & 8 & 6\end{array}$ \& 036 <br>
\hline 87 \& Palsod \& $61 \quad 11$ \& 3517 \& ... \& 2584 \& 2584 \& 0 \& 006 <br>
\hline 88 \& Kalsad \& 297 \& 116 \& ... \& 112 \& 112 \& 040 \& <br>
\hline \& Total of Bardoli \& 2,181 2 \& 1,389 14 \& 911 \& 78217 \& 79128 \& ... \& ... <br>
\hline \& Totai of Valod \& 1,925 84 \& 1,159 19 \& 69 \& 7608 \& $766 \quad 15$ \& ... \& ...... <br>
\hline \& Total of Bardoli \& 2,181 2 \& 1,889 14 \& 911 \& 78217 \& 79128 \& ... \& ... <br>
\hline \& - \& 4,05686 \& 2,498 88 \& 1520 \& 1,542 23 \& 1;558 8 \& $\cdots$ \& ..... <br>
\hline
\end{tabular}

Note.-Figures in columns 3 to 7 have been taken from the taluka statements in the correspondence.


[^9]


## APPENDIX $\pm$.

occupied Land of Bardoli Taluka of Surat District.


- Ca 10-38
upied Land of Bardoli Taluka of Surat District.

By Reyibion Settlement.


Ca $10-38$


## APPENDIX L-contd.





APPENDIX L-contd.


Ca. 10-30



## APPENDIX L-continued.



## CNDIX L-continued.



RSDIX L-continued.


Ca $10-40$

BWHay


Trumix L-a anued.




## Pampix thenca.


C. D. KAVI,

Saperintendent, Land Records; Northern Division

c. D. KavI,

Superintendent, Land Records, Northern Division.


[^0]:    Ca 10-8+

[^1]:    Cs $10-11+$.

[^2]:    une as correct.

[^3]:    Note.-The Report on the Special Enquiry into the Second Revision Settlement of Bardoli and Choras Talukas dated 12th April 1929 is published separstely.

[^4]:    - Vide page 121 post.

[^5]:    - Vide page 126 ante.
    $\dagger$ Vide page 127 post.

[^6]:    - Vide page 116 ante.

[^7]:    - Vide pages 129-128 ante.

[^8]:    - Vide page 117 aute.

[^9]:    In Columns 8 to 17 have been approximately worked out from the survey akarbandhs.

