

rather high, but I am confident that it is only in a very few instances that severity of the revenue has anything to do with it. Litigation and extravagance are the bane of the zamindars here as elsewhere, and the more money that good harvests and rising prices bring them, the more they borrow and the more they spend. One of the greatest curses of the district is the custom of lavish expenditure on funeral feasts. It comforts a man on his deathbed to know that his heir will give him a decent burial; it is sometimes his dying request that a certain sum, fifty or a hundred rupees it may be, should so be spent; and the heir dare not disobey, even if he would like to do so, for fear that he should be disgraced for ever in the eyes of his neighbours. It is satisfactory to observe that there are signs that the recent introduction of the Punjab Alienation Act is giving the zamindars an excuse for cutting down expenditure on this and similar grounds, and I am not without hope that the greater accuracy of the new records will in future largely diminish the other main source of indebtedness.

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## CHAPTER V.—CROPS AND HARVESTS.

29. The following are the percentages of the total average matured area of the last 5 years covered by each of the chief crops in each circle—

|              |           | Crops. |        |         |         |               |        |         |          |         |
|--------------|-----------|--------|--------|---------|---------|---------------|--------|---------|----------|---------|
|              |           | Rice.  | Maize. | Pulses. | Others. | Total kharif. | Wheat. | Barley. | Sarshaf. | Others. |
| Dhangar      | ...       | 1      | 31     | 20      | 1       | 53            | 30     | 12      | 4        | 1       |
| Rash         | ...       | 2      | 48     | 10      | ...     | 60            | 27     | 5       | 4        | 4       |
| Tanawal      | ...       | ...    | 35     | 14      | 1       | 50            | 21     | 27      | 1        | 1       |
| Nilan        | Nara-Lora | 2      | 53     | 17      | ...     | 72            | 12     | 13      | 3        | ...     |
| Dhan         |           | 1      | 72     | 60      | 11      | 86            | 8      | 11      | 1        | 3       |
| Lora         |           | 4      | 60     | 10      | ...     | 74            | 13     | 10      | 3        | ...     |
| Dhaka        | ...       | 2      | 72     | 10      | 3       | 87            | 8      | 4       | 1        | ...     |
| Boi          | ...       | 2      | 55     | 25      | 1       | 83            | 9      | 6       | 1        | 1       |
| Bakot        | ..        | 9      | 62     | 13      | 3       | 87            | 8      | 5       | ...      | ...     |
| Total tahsil | ...       | 2      | 50     | 15      | 1       | 68            | 18     | 11      | 2        | 1       |

Maize, it will be seen, occupies the first place everywhere, though in Dhangar wheat, and in Tanawal barley, run it close. In the more elevated tracts it is far ahead of all the other crops. Easily affected by heat and drought, it thrives best, unless it is irrigated, in a cool climate and on soil that is either naturally moist or has a constant and heavy rainfall. Thus in Dhangar and lower Tanawal it can only be grown with much success on the *abi*, *bari* and *negar*, whilst in the upper lands of Bakot and Dhaka it flourishes everywhere, except on the very worst *kalsi*.

The sowing time varies between April and July. It is earlier in the colder than on the hotter lands, for on the former it is not so often preceded by a *rabi* crop, takes longer to mature, and is less liable to wither in the heat of May and June. Provided it is refreshed by thundershowers during those two months (as is generally the case in the hilly tracts) the earlier it is sown the better, for drought in September and October is apt to damage the later crop. But in the hills the *agetri* or early crop is sometimes destroyed by a small green caterpillar, in which case the sowings have to be done over again and the crop becomes *pichetri*. The latest sowings of all are on *abi* land. The harvesting takes place between the end of September and November, being latest where the climate is coldest or the crop is an irrigated one. The process of cultivation is fully described in the Mansehra Report. The operation, known as *sil*, viz., a light ploughing when the crop is some 18 inches high, is performed in the hilly tracts in addition to *yodi* or weeding, the object being partly to thin out the young shoots and partly to facilitate the absorption of the rainfall. Though except

on the most arid lands maize is seldom a total failure, the yield is much affected by the character of the season, for it requires constant rain in July and August and good showers in September to mature it satisfactorily, and a break of a week or ten days, especially when the cobs are forming, may have serious results. Several kinds are grown, the most popular being the white American and the white country varieties. The former, which was introduced in 1892, now occupies about 22 per cent of the total area under maize. It has a larger cob and stalk than the country variety, though the grain is somewhat coarser, and in Rash, where it is most popular, it sometimes attains a height of 12 feet or more on the *bela* lands.

Rice is planted in May or June and cut in October. The processes are described in the Mansehra Report. In the case of this crop the warmer the climate and the water, the larger and finer is the yield. The commonest variety in this tahsil is that known as *kanhuri*.

The sugarcane and turmeric of the *bagh* lands are sown in April and ripen in December and January. Their cultivation is the same as that described in the Haripur Assessment Report. Potatoes are sown in April and dug up between August and November. They are grown almost entirely for sale and usually at the instance of Hindu creditors or mortgagees. In Rash so called *vilayati* or English potatoes are grown to a small extent as an extra *rabi* crop.

Of *kharif* pulses there is a considerable variety. The most prevalent is *kulath* or horse gram (*dolichos uniflorus* or *biflorus*) which occupies just half the area under this kind of crop. It is sown in April or May and ripens in October or November. It is a hardy grain requiring little rain to mature it and is grown extensively on the poorest soils, especially in the Dhangar, Tanawal and Boi circles. The stalks and leaves are used as fodder and the grain is generally eaten mixed with maize. It is only the poorest classes who eat the grain by itself, in which form it is said to be somewhat indigestible. Of the other pulses *moth* is grown most widely in the lower portion of Tanawal and *mash* in Rash. *Rawan* or *arwan* and two coarse pulses, called *moth* and *mothi*, which appear to be a different variety from the ordinary *moth*, are grown extensively in the hill circles. *Mothi* is also found on the poorer *abi* lands in the Dor.

Excluding maize and rice the cereals are unimportant. *Kangni* or Italian millet is grown on *kalsi* and *rakkar* in the hill circles as is *chin* or buckwheat (known in Kagan as *drawa*) which thrives in a cold climate and on the poorest soil. Of the other *kharif* crops I would only observe that *jowar* is becoming popular as a fodder crop in the villages near Murree and that in Dhaka, Boi and Bakot quantities of pumpkins are grown among the maize on the *bari* lands and form a useful addition to the food supply of the villagers.

Wheat and barley cover 54 and 37 per cent of the matured *rabi* area respectively. The commonest kind of wheat is the *ratta* or red Punjab variety. In a few places the *chitta* or white variety and the *moni* with its beardless grain are found. The latter is common in the Nawal tract of Bakot, where it ripens earlier than the other kinds and is thus less liable to be withered by the heat of April and May. The wheat crop is usually sown in October or November and ripens in May or June. In the cooler tracts it is little use sowing after October as the climate becomes too cold for the seed to germinate. In Dhangar and lower Tanawal, on the other hand, sowings can be made in December, if necessary. On the coolest lands of all the wheat takes a full eleven months to mature, being sown in August and cut in July. Barley can be sown a little later and ripens three weeks or so earlier than wheat. Hence it is more popular on *dofasli* lands to succeed the maize. And being a hardier grain it does better on poor soils like the *rakkar* and *kalsi* of Tanawal.

Of the other *rabi* crops *sarshaf* is the most important. It is frequently grown in succession to maize on *dofasli* lands and thrives especially on the best *bari* and *maira* of Rash and Dhangar. It is sown in October or November and cut in April. If it can escape the ravages of the *leia* insect

it is usually a secure crop. The only *rabi* pulse of the slightest importance is the lentil (*masar* or *masuri*) which is found mainly in Rash. A little *shaftal* or clover is grown as fodder on the warmer rice lands. Miscellaneous crops are chiefly vegetables sown on the *bagh*.

30. The following figures give the matured, failed and sown areas of the last five years for the whole tahsil:—

Recent harvests.

|         |             | KHARIF.  |         |         | RABI.    |         |        | TOTAL BOTH HARVESTS. |         |         |
|---------|-------------|----------|---------|---------|----------|---------|--------|----------------------|---------|---------|
|         |             | Matured. | Failed. | Sown.   | Matured. | Failed. | Sown.  | Matured.             | Failed. | Sown.   |
| 1900-01 | ...         | 96,581   | 9,811   | 106,392 | 55,517   | 3,322   | 58,839 | 152,098              | 13,133  | 165,231 |
| 1901-02 | ...         | 89,993   | 7,477   | 93,470  | 19,469   | 23,674  | 43,143 | 109,462              | 31,151  | 140,613 |
| 1902-03 | ...         | 82,856   | 26,424  | 109,280 | 44,646   | 9,015   | 53,661 | 127,502              | 35,439  | 162,941 |
| 1903-04 | ...         | 91,471   | 14,131  | 105,602 | 37,873   | 6,438   | 44,311 | 129,344              | 20,569  | 149,913 |
| 1904-05 | ...         | 91,545   | 15,171  | 106,716 | 51,761   | 5,411   | 57,172 | 143,306              | 20,582  | 163,888 |
| Average | five years. | 90,489   | 14,603  | 105,092 | 41,853   | 9,572   | 51,425 | 132,342              | 24,175  | 156,517 |

The above harvests may be briefly described as follows:—

In 1900-01 the rainfall was ample in nearly every month, and <sup>17</sup> both *kharif* and *rabi* good crops were secured. In 1901-02 a deficiency of <sup>18</sup> rain in June and July brought the sown area of the *kharif* below the average especially in the hotter tracts, but heavy rain in August and some timely falls in September matured the crops satisfactorily and the harvest was an average one. A cessation of the rains early in October, however, and the prolonged and unprecedented drought that followed and was not broken till March seriously affected the *rabi* crop, especially in Dhangar and Tanawal. Seventy per cent of the sowings in the former circle and 71 per cent in the latter failed and the harvest was about the worst within living memory. In Nara-Lora the case was nearly as bad, but the *rabi* here is much less important. The sowings were much below the average and 50 per cent were a failure. Rash thanks to its moist soil lost 25 per cent only of its crops. The percentage of failure for the whole tahsil was 55 and the total sown area was also very much below the average. The *sarshaf* crop fared worst of all, the yield being practically *nil*.

In 1902-03 the *kharif* sowings were large owing to seasonable rains in May and June, but the fall in July, August and September was below the average and there were some prolonged breaks which had disastrous consequences on the ripening crops in the less elevated tracts. Dhangar and Tanawal were thus again hard hit, the percentages of failure in these circles being 35 and 60, respectively. The grass crop was also very short, and in Tanawal the distress from these two causes was great, many villagers migrating elsewhere to pick up a livelihood or to find pasture for their cattle. In other circles of the tahsil the harvest was also below average. In the *rabi* the rainfall was normal and the crop, except the *sarshaf*, which was much damaged by the *leia* insect, was a fair one.

In 1903-04 the *kharif* suffered somewhat from a deficiency of rain in June and October; hence sowings were retarded in the hotter tracts, and the later crop was scorched by the September and October sun. As usual Dhangar or Tanawal had the highest percentages of failure; elsewhere the harvest was an average one. Like the *kharif* the *rabi* had a deficiency of rainfall at the beginning and at the end. The sown area was thus nearly as

low as in 1902, this being most marked in the Lora Circle, where it was 728 acres only as against 2,794 in the previous year. And owing to the dryness and heat of April the yield of the standing crop in Dhangar and Tanawal was not so heavy as it at one time promised to be; but on the whole the crop was up to the average in yield if not in area.

In 1904-05 the *kharif* rains were again deficient at first, but the crops were saved by heavy showers in the later half of July and the fall in August was also ample. An unusually dry September, however, somewhat damaged the ripening grain on the drier lands, and the yield in Dhangar and Tanawal was again rather below average. In the cold tracts the crop was perhaps above the average and in the temperate zone it was average. In the *rabi* the rainfall was copious and well distributed throughout; the severe cold, though it retarded growth, did not otherwise affect the crops, and the result was a splendid harvest well above the average both in area and yield, and superior if any thing to that of 1901. In Dhangar and Tanawal it was especially fine, and the only tracts where it was at all inferior were Nilan and Dhan. The crops here, especially the *sarshaf*, were somewhat damaged by hailstorms in March.

The character of the harvests above described may be summed up as follows:—

|        |     |     | 1900. | 1901.    | 1902.          | 1903.    | 1904.    |
|--------|-----|-----|-------|----------|----------------|----------|----------|
| Kharif | ... | ... | Good. | Average. | Below average. | Average. | Average. |
| Rabi   | ... | ... | Good. | Bad.     | Average.       | Average. | Good.    |

The cycle of four years for which the crop average is given in the first of the Jinswar Statements may thus be considered a normal one, except as regards the Dhangar and Tanawal circles where, the bad *rabi* and *kharif* of 1902 are hardly compensated by the other harvests. The year 1904-05 on which the produce estimate is based is on the other hand rather above the average owing to the exceptional *rabi*, particularly in Dhangar, Tanawal and Lora.

31. A summary of the results of crop experiments during the last five years is given in Appendix B. A good number of experiments have not been incorporated in this Statement, chiefly because they showed outturns too much above or below the average. The remarks made in the Haripur and Mansehra Assessment Reports as to the unsatisfactoriness of such experiments apply with equal or greater force to Abbottabad. There are such great divergencies, not only in the character of the villages within one circle, but also some times in the soils in different parts of one village, that had it been practicable to quadruple the number of experiments and to be assured of the trustworthiness of all of them, the estimates of average outturns would still have largely been guess work. But I have checked my estimates as far as practicable with those framed for the Haripur and Mansehra tahsils and also with the outturns adopted by Mr. Rivett, Settlement Officer of the Uri and Muzaffarabad tahsils of the Kashmir State, for certain circles which appear to resemble Boi, Bakot or Dhaka in character, and, I think, that they are moderate enough. I proceed to note briefly on the yields of the more important crops.

As rice does better in a warm or temperate climate than a cold one I have taken the lowest yield, 8 maunds, in Dhaka, where most of the *hotar* is at a high elevation. The experiments give a slightly lower average, but Mr. Rivett does not go below 8 maunds even in his worst circles, which are probably not so good as Dhaka. In Dhangar, though the climate is favourable, I take 10 maunds only, as most of the rice land is poor and the experiments hardly warrant more. In Rash the experiments show too high a yield because they were mostly on the *jab* lands; there is a good deal of less valuable *hotar* in the bed of the Darkhan kas and 12 maunds, will be sufficient. In Lora the yield would be higher did not the water sometimes run short, for the soil is good enough. Ten maunds which I assume is slightly above the

experimental average. The *hotar* of Nilan gets more water and has a slightly warmer climate; hence the yield may be taken as 1 maund above that of Lora. In Boi and Bakot most of the rice fields are down by the Kunhar and Jhelum and hence enjoy a warm climate and give fair outturns. The Bakot *hotar* is the best in the tahsil except that in Rash and the average yield of 13 maunds, which is brought out by the experiments, is about correct. For the Boi *hotar* in spite of the story told by the experiments 11 maunds will be sufficient. The above outturns, which differ little from those of Mr. Rivett, are much below those assumed by Captain Beadon in Mansehra, but not only is the *hotar* of that tahsil generally much superior in quality but the kind of rice commonly grown there has a heavier grain than that prevalent in the Abbottabad Tahsil.

For maize, the staple crop of the tahsil, a just appreciation of the average outturn is especially important as a maund or less will make a great difference in the estimate of the value of the gross produce; the task, however, is not an easy one, for the crop is so widely cultivated on almost all soils in all circles that it has been impossible to make an adequate number of experiments in every case and the yields obtained vary very greatly. The highest outturn which I have taken is 20 maunds on the *abi* and *bela* of Rash. The produce of the splendid American maize of the best *jah* land runs as high as 30 maunds or more an acre, but where the soil is less strong and deep it does not exceed 16 maunds, and it seems hardly safe to go beyond what I propose. On *bari* the highest yield again is in Rash where 17 maunds seems justified by the experiments and the quality of the soil. It is not so high as on *bela* because the latter is *ekfasli*. The lowest yields are in Boi and Dhangar, where I have closely followed the experiments with 11 and 12 maunds, respectively. In Tanawal 13 maunds or a maund more than in the similar but inferior circle of Dhaka Badhnak seems about correct. In Dhan the excellence of the soil, which is specially adopted for maize and is largely *ekfasli*, warrants 16 maunds, in the other circles a yield of 14 maunds seems sufficient. I adopt 14 maunds also for the *negar* of Tanawal, which I consider more productive on the average than the *bari* as the crop is more secure. On *kund* and *maira*, where the results of experiments are very conflicting, I vary from 14 maunds in Rash to 4 maunds on the second class *maira* of Dhangar. After the Rash land I consider that for maize-growing purposes the *bela* and *maira* of Dhan and the *maira* of Nilan are intrinsically the best, but in Tanawal, owing to manure and in Dhaka owing to the cool climate and the heavy rainfall, the average yields are probably as good. Hence I have allowed 10 maunds for Dhan and 9 for the other three circles. In Bakot it must be remembered that much of the *maira* lies in the dry tract down by the Jhelum; hence the yield is less than that of Dhaka. On *kalsi* the experiments are if anything more untrustworthy than those on *maira*; but there is no doubt that in Bakot and Dhaka it is most, and in Dhangar least productive. Three maunds in the last and  $6\frac{1}{2}$  and 6 in Bakot and Dhaka, respectively, cannot be far wrong. In the other circles 5 or 4 maunds should be about correct. These outturns correspond fairly closely with those of Captain Beadon and Mr. Rivett.

Of the other *kharif* crops, sugarcane, turmeric and potatoes only need be mentioned here. I have put the yield of the first two somewhat below those assumed for Maidan Hazara Utlā owing to the slightly colder climate which renders them less productive. As to potatoes I note that four experiments on *bari* land in the Murree tahsil in 1904 gave an average yield of 40 maunds an acre, but my experiments show higher returns, and I think that the cool soil of Dhaka and Bakot must be more favourable to this crop than the hotter lands round Murree. A first class potato field in these circles will yield as much as 100 maunds per acre, and I shall not be going beyond the mark in taking 50 maunds per acre in Bakot and 45 in Dhaka. On inferior soils the yield will be proportionately lower.

Wheat and barley are the only *rabi* crops that call for special remark. Generally speaking I assume the highest outturns in Rash because of its temperate climate and excellent soil; next come Dhangar and Tanawal with

a warmer climate but inferior soil. The yields are naturally lowest in the coldest circles Boi, Bakot, Dhaka, and Dhan, and Lora and Nilan come between the two. Thus for wheat on *bari* I take 9 maunds in Rash and  $8\frac{1}{2}$  maunds in Dhangar and Tanawal. The experiments would warrant higher rates in the first two circles, but bearing in mind that all the *bari* is *defasli*, and therefore, owing to the exhaustion of the soil, the yields are often less than one would expect, I do not care to go higher. For Nilan and Lora 8 maunds will be sufficient (the results of experiments in the former case are not to be trusted for the *rabi* crop in this circle is usually quite a good one); for Bakot, Dhan, Dhaka and Boi I take 7,  $6\frac{1}{2}$ , 6 and  $5\frac{1}{2}$  maunds, respectively, the average in Bakot being highest owing to the warm soil of the Nawal tract. On other soils the yields are similarly graded according to circles, except that the great superiority of the Rash *maira*, which the experiments also attest, necessitates a bigger gap between the yields on it and on the same soil in Dhangar and Tanawal, 8 maunds being taken for the one, and 6 maunds for the others. The good *maira* of Nilan and Lora also warrants the adoption of the same outturn on this soil as in Dhangar and Tanawal.

For barley it is usual to assume a yield per acre one maund heavier than that of wheat, and I have adhered to this throughout, except on the *bari* of Dhangar and the *bari*, *negar* and *maira I* of Tanawal, where, I think, experiments justify me in assuming an excess of  $1\frac{1}{2}$  maunds.

## CHAPTER VI.—PRICES.

32. The actual and assumed price (in annas per maund) of the last and the present Settlements, so far as the principal crops are concerned, are shown below. For further details a reference may be made to the Preliminary Report:—

|         |     |     | Average of actual prices in eleven years preceding last Settlement (1861-71). | Average of actual prices in years preceding present Settlement. | Rise per cent. in actual prices. | Prices assumed at last Settlement. | Prices assumed at present Settlement. | Rise per cent. in assumed prices. |
|---------|-----|-----|---|---|----------------------------------|------------------------------------|---------------------------------------|-----------------------------------|
| Rice    | ... | ... | 38<br>(husked).   | 58<br>(husked).   | 53                               | 15<br>(unhusked)                   | 21<br>(unhusked)                      | 40                                |
| Maize   | ... | ... | 18  | 32  | 78                               | 12                                 | 21                                    | 75                                |
| Wheat   | ... | ... | 22  | 38  | 73                               | 15                                 | 29                                    | 93                                |
| Barley  | ... | ... | 12  | 25  | 108                              | 10                                 | 18                                    | 80                                |
| Sarshaf | ... | ... | 29  | 55  | 62                               | 20                                 | 40                                    | 100                               |

I would observe that the price of rice assumed at last Settlement was 30 annas per maund, but, as this was for husked rice and the assumed price of the present Settlement is for unhusked, I have halved the figures in order to facilitate the comparison, this being about the proportion that the value of the one bears to the other. I also note that the period preceding this Settlement, for which average actual prices have been taken is in the case as wheat, barley and rice 20 years and for maize and sarshaf 17 and 10 years respectively, figures for a longer period not being available in the latter two cases. The prices of kulath and potatoes, which were not mentioned in the Preliminary Report, but are required for the purposes of the produce estimate have been assumed to be 16 annas and 18 annas a maund, respectively, which enquiries show to be fair average rates to take.

In a tahsil so diversified as Abbottabad a uniform level of prices is of course impossible, and the following figures for the average of the last three years will show how they vary in different markets.

| Assessment circle. | Market.      | Rice (husked). | Maize. | Wheat. | Barley. | Sarshaf. |
|--------------------|--------------|----------------|--------|--------|---------|----------|
| Dhangar            | Rajoia       | 32             | 30     | 28     | 25      | 56       |
| Rash               | Nawanshahr   | 28             | 29     | 41     | 25      | 53       |
| Tanawal            | Sherwan      | 36             | 30     | 35     | 22      | 55       |
| Nara-Lora          | Sajkot       | 36             | 32     | 45     | 29      | 58       |
| Dhaka              | Nagri Tutial | 37             | 29     | 58     | 28      | 58       |

As a rule grains are naturally cheapest in the tract where they are most abundant, and maize, which is grown so largely in all circles, exhibits in consequence the least variation. But a comparison of actuals with the assumed prices will show that ample allowance has been made for all such variations as well as for other circumstances affecting the profits locally realised by the zamindars, such as distance from markets and difficulties of

communication. In fact I think that if anything the prices assumed are unduly moderate. But it should be noted that when the Kashmir Railway is started prices will probably fall somewhat and be reduced more to the level of those of neighbouring districts. That they are considerably above that level at present will appear from the following figures which give the average Gazette prices (in sers per rupee) of wheat, barley and maize for the year 1904 in the Peshawar, Rawalpindi, and Hazara Districts, respectively :—

| District.         | Wheat. | Barley. | Maize. |
|-------------------|--------|---------|--------|
| Peshawar ... ..   | 18     | 32      | 27     |
| Rawalpindi ... .. | 17½    | 28½     | 24½    |
| Hazara ... ..     | 15     | 21      | 20½    |

Presumably the main reason for these divergencies is that as the Hazara District and in particular the Abbottabad tahsil are not self-supporting grain has to be introduced in large quantities, and the cost of the transport by road enhances the price. The railway therefore by facilitating the distribution and cheapening the carriage should bring down the rates.

38. The general rise in grain prices, which is calculated out in Appendix D, is 78 in assumed, 79 in actuals. I have excluded pulses from the figures, because they are seldom brought to market, and more valuable products, like *gur*, turmeric and potatoes, because their area is relatively insignificant.

It will be noticed that the calculation is more elaborate than that suggested in the Settlement Manual, but it is, I think, more exact, as the other takes no account of divergencies in the value and yield of the different crops. In Haripur similar calculations give a rise of 78 per cent in both assumed and actual prices, and in Mansehra rises of 58 and 78 per cent, respectively.

Prices of other things also have increased largely since Settlement. The figures of the value of cattle, given on page 175 of Captain Wace's Settlement Report, do not tally with those in Appendix 10 of that Report; but if we take the former, which are the higher, as the more correct, the average prices then and now may be compared as follows :—

|                           | Bullock.  | Cow. | Buffalo. | Sheep. | Goat.     |
|---------------------------|-----------|------|----------|--------|-----------|
|                           | Rs. a. p. | Rs.  | Rs.      | Rs.    | Rs. a. p. |
| At last Settlement ... .. | 21 8 0    | 18   | *51      | 2      | 2         |
| Now ... ..                | 25 0 0    | 25   | 50       | 3      | 4         |

\* In Appendix Rs. 40 to Rs. 45.

*Ghi* sells now at an average of 1½ sers a rupee as against 1¼ then. Grass and wood sold then at 4 annas a maund; now grass fetches from 10 to 16 annas a maund, and wood from 6 to 8 annas, though it should be remembered that the sale of the latter is more restricted than formerly. So that though owing to the increase of the population the average zamindar may have less land than before on which to support himself and his family, and less grain therefore to eat or to give to the baniya in payment of his debts, he is compensated by the higher price realised not only by his grain but also by other produce of which he has more often a surplus.

## CHAPTER VII.—TENANTS, RENTS AND OTHER DUES.

34. The following table shows the percentage of cultivation held by proprietors and the various classes of tenants:—

|  |   |  | Dhangar. | Rash. | Tanawal. | NARA-LORA. |          |       | Dhaka. | Boi. | Bakot. | Total tahsil. |
|--|---|--|----------|-------|----------|------------|----------|-------|--------|------|--------|---------------|
|  |   |  |          |       |          | Nilan.     | Dhan.    | Lora. |        |      |        |               |
| Cultivated by owners ... ..            |   |  | 51       | 55    | 63       | 46         | 52       | 38    | 61     | 76   | 38     | 57            |
| Do. by tenants free of rent ...        |   |  | 3        | 3     | 2        | 2          | 44<br>5  | 3     | 3      | 3    | 11     | 8             |
| By occupancy<br>tenants.               | { Paying at revenue rates with or without malikana.   |  | ...      | ...   | ...      | 3          | ...      | ...   | ...    | ...  | ...    | ...           |
|  | { Paying other cash rents ...                         |  | 16       | 16    | 17       | 40         | 12       | 26    | 11     | 5    | 24     | 16            |
|  | { Paying in kind with or without an addition in cash. |  | 6        | 1     | 5        | 1          | 27<br>10 | 11    | 4      | ...  | 1      | 4             |
|  | { Paying lump cash rents ...                          |  | 6        | 6     | 3        | 5          | 8<br>4   | 4     | 5      | 1    | 20     | 6             |
|  | { Paying in kind with or without an addition in cash. |  | 18       | 19    | 10       | 3          | 4<br>17  | 18    | 16     | 15   | 6      | 14            |
| Total held by tenants paying rents ... |   |  | 46       | 42    | 35       | 52         | 43<br>53 | 59    | 36     | 21   | 51     | 40            |

Occupancy tenants and tenants-at-will thus each hold 20 per cent of the cultivated area as against 42 and 18 per cent, respectively, in Haripur and 26½ and 31 per cent in Mansehra. The proportion of self-cultivating proprietors is over 50 per cent in all circles except Nara-Lora and Bakot, and it is in these two circles that occupancy tenants are most numerous. Tenants-at-will are fairly equally divided between all circles, but it should be noted that in Tanawal and Boi, where the *khudkasht* area is largest, the greater proportion of these tenants are themselves proprietors cultivating their own mortgaged lands or the lands of other proprietors. Tenants free of rent are similarly in all circles largely composed of proprietors who cultivate lands recorded as belonging to others but claimed by themselves as their own property. In other cases they are often occupancy tenants who have broken up land in the village waste adjoining their holdings, but pay no additional rent thereon.

35. Of the occupancy tenants four-fifths pay cash rents which are practically all lump rents on the holdings. This prevalence of cash rents is due to the areas of valuable waste so often included in those holdings, the rent of which is amalgamated with that on the cultivated land. And thus it is that makes the rates on the cultivation seem sometimes unduly high. An analysis of these rents will be found in the supplementary Statement attached to Statement VII. It will be observed that at last Settlement 18,531 acres were so held with a rate per cultivated area of Re. 1-4; now there are 21,221 acres with a rate of Re. 1-5. The rate is highest in Nara-Lora, Re. 1-12, and lowest in Boi, 10 annas. The increase in the average rate appears to be partly due to the creation of new occupancy tenancies with a high rent either by litigation or by agreement between the parties and partly to the enhancement of existing rents on the ground of extension of cultivation, or, more generally, because the Settlement entries understated the amounts actually paid.

The kind rents of occupancy tenants are in many villages the same as those of tenants-at-will, and in fact the two tenants are not frequently one and the same person, part of the holding being cultivated under the one tenure and part under the other. On the whole, however, the rates of the former are somewhat lower.

- 36. The cash paying tenants-at-will occupy 6 per cent of the total cultivated area as against 9 per cent. in Mansehra and 2 per cent in Haripur. Except in certain circles on certain soils not much guidance for assessment purposes is afforded by the figures. It will be observed that the total area cultivated by tenants has diminished since last Settlement from 9,505 to 7,730 acres, while the rate paid per acre has risen from Re. 1-3 to Re. 1-13. The area in decrease must be due in the main to the transformation of tenancies-at-will into occupancy tenancies under decree of the Courts or by amicable arrangements, and the rise in rate to the general rise of prices and the increasing competition for land.

Statistics of the kind rents paid by tenants-at-will on the various soils will be found in Statement No. VII. The actual limits may be taken as three-fourth on the one hand and one-fifth on the other, but in the former case the proprietor supplies the seed and in the latter rents are only on the worst *kalsi* lands. For the purposes of the produce estimate I have selected the rates most common on each soil in each circle, or in my judgment most suitable in the circumstances. Thus I propose to take half as the share on all *abi* lands, except the *barangar* and *gharera* of Dhangar for which two-fifths seems advisable. The figures for Nilan and Dhan would appear to indicate a lower rate, but the area is very small, and they can hardly be true rents. Half is also the prevailing rate on *bari* in all circles except Nilan and Dhan, where the area is again too small to be a reliable guide, and I, therefore, think that it may be adopted throughout. The rates on *kund* and *maira* vary a good deal. Half is in the majority, but because there is also a fairly large area under lower rates and to allow for a possible slight overestimation of the rate on *bari* I propose to take two-fifths only in Dhangar, Rash, Tanawal, Nilan, Dhan, Boi and Bakot. In other circles and on the *negar* of Tanawal and the *bela* of Rash, I think I am warranted in taking half. Second class *maira* in Dhangar, however, should only be rated at one-third. For *rakkar* and *kalsi* two-fifths in Rash, Lora, Dhaka and Bakot, and one-third in the other circles seem suitable.

The above rates compare as follows with those brought out by taking a strict arithmetical average:—

|                      |                      | Dhangar.                     | Rash.        | Tanawal.      | NARA-LORA. |            |       | Dhaka. | Boi. | Bakot. |
|----------------------|----------------------|------------------------------|--------------|---------------|------------|------------|-------|--------|------|--------|
|                      |                      |                              |              |               | Nilan.     | Dhan.      | Lora. |        |      |        |
| Abi.                 | Share assumed ...    | ·50<br>(Barangar<br>abi ·40) | ·50          | ·50           | ·50        | ·50        | ·50   | ·50    | ·50  | ·50    |
|                      | Arithmetical average | ·54<br>(Barangar<br>abi ·42) | ·49          | ·49           | ·29        | ·39        | ·49   | ·49    | ·49  | ·48    |
| Bari.                | Share assumed ...    | ·50                          | ·50          | ·50           | ·50        | ·50        | ·50   | ·50    | ·50  | ·50    |
|                      | Arithmetical average | ·44                          | ·48          | ·43           | ·34        | ·37        | ·49   | ·48    | ·47  | ·48    |
| Kund and<br>Maira.   | Share assumed ...    | ·40<br>(Maira II             | ·40<br>(Bela | ·40<br>(Negar | ·40        | ·40        | ·50   | ·50    | ·40  | ·40    |
|                      | Arithmetical average | ·33<br>(Maira II             | ·50<br>(Bela | ·50<br>(Negar | ·36        | ·45<br>·38 | ·49   | ·45    | ·47  | ·44    |
| Rakkar and<br>Kalsi. | Share assumed ...    | ·39<br>(Maira II             | ·49<br>(Bela | ·46<br>(Negar | ·33        | ·33        | ·40   | ·40    | ·33  | ·40    |
|                      | Arithmetical average | ·33                          | ·40          | ·33           | ·32        | ·38<br>·36 | ·49   | ·47    | ·37  | ·41    |
|                      |                      |                              |              |               |            | ·45        |       |        |      |        |

If the arithmetical average were altogether to be trusted the figures would indicate that I am rather above the mark on superior soils and below it on inferior. But such an average is apt to be misleading when, as in the present case, not more than the 19 per cent. of the cultivated area in any circle is under kind rents, and it is impossible to be sure to what extent the soil areas on which they are paid are representative of the average of the circle. I prefer therefore to take this standard as a guide only and in each case to adopt one or other of the usual ratios in which the produce is divided. This procedure simplifies the calculations, and in my opinion is at least as reliable as the other. In any case if I have erred I believe it has been on the safe side.

37. The tenants are not so strong a body as in Haripur; disputes are frequent, but the proprietors have on the whole the upper hand. The cultivated holdings are very small, averaging 1.5 acres for occupancy tenants and 1.3 for tenants at-will (as against 2.5 and 2, respectively, in Haripur), but thanks to profits from cattle and other miscellaneous assets they are fairly well off in most villages.

38. In all the circles of the tahsil, except Dhangar and Rash, the share of *bhusa* (wheat and barley straw) and *tanda* (maize stalks) taken by the landlord is practically nil. This is due partly to the abundance of grass in the hill waste, which makes a careful preservation of other fodder unnecessary, and partly to the fact that where the tenants are numerous it is they who own most of the cattle. In the two circles named, owing to the inferiority of the waste and also to the profits obtainable by selling fodder in the larger villages and in cantonments, there are a few cases where the landlords claim their share. Thus in twelve villages of Dhangar and five of Rash *bhusa* and *tanda* are divided like the grain, and in other villages of Dhangar a headload of the same is taken. But as even in these circles the custom does not prevail in the majority of villages, I have decided to disregard it in the produce estimate, following the example set in the Assessment Reports of Haripur and Mansehra. I may add that with respect to fodder crops (which cover a very small area), it is not usual for the landlord to take a share except in the case of *chari*, and I have therefore omitted the *rabi* fodder crops from the produce estimate altogether. Other dues exacted by the landlords are of greater importance. These are rarely however in the form of grain. They consist mainly of *khidmat* or services incumbent on the tenants, such as one day's cutting of the crops or of grass, or one day's ploughing. One headload of fuel, again, has to be supplied on the occasion of a marriage or death in the proprietor's family, and assistance has to be given in building the proprietor's house. In Lora, Bakot and Dhaka '*sawan banda*,' i. e., half to one seer of butter is taken from cattle-tenants. The dues are heaviest of all in Bakot and in some villages of this circle the tenants are much oppressed by the landlords.

39. The only village menials of whom account need here be taken are the *Kamiana*, *Tarkhan* and the *Lohar*. Their dues are as a rule paid in *odis* per plough and vary much in different circles in accordance with the relative importance of the two harvests. Thus in Bakot 8 *odis* of maize are paid in the *kharif* and 1 *odi* of wheat or barley in the *rabi*; in Tanawal 4 *odis* of maize and 3 *odis* of wheat and barley respectively are the usual rates. In Rash and Dhangar the proportion between *kharif* and *rabi* crops is fairly equal. In bad seasons also much less is given than in good. But as the average for all circles, we shall not be far wrong in taking 4 *odis* of maize as the *kharif* and 3 *odis* of wheat and barley combined as the *rabi* contribution. An *odi* may be assumed to be equivalent in weight to  $4\frac{3}{4}$  sers; but in addition to the *odis* sheaves of corn of various sizes, and known as *pulas*, *gaddas*, or *gaddis*, are also given. They may be taken as producing 2 sers of grain each, and being the same in number as the *odis*. We find, then, that the *Lohar* and *Tarkhan* each receive in the *kharif* 27 sers of maize and in the *rabi* 20 sers of wheat and barley per plough. Each plough on the average cultivates about  $7\frac{1}{2}$  acres of land which will mature 8 acres of crop. Of these 8 acres the figures given in paragraph 29 justify the assumption that 50 per cent will be under maize,

18 per cent under wheat, and 11 per cent under barley. The average yield of these crops may, as in the calculation of the rise in prices, be taken to be 9 maunds an acre for maize, 6 maunds for wheat and 7 maunds for barley, and if the figures be worked out, it will be found that each *kamin* gets a little under 2 per cent of the maize crop and nearly  $3\frac{1}{2}$  per cent of the wheat and barley crop, or an average of  $2\frac{1}{2}$  per cent for the two combined. By this calculation the deduction for *kamiana* should be 5 per cent, but we should allow something more, say half per cent, for the share of rice and inferior grains. We should also take into account the *letri* or reaper's due, amounting to one-twentieth, which is paid on big holdings when the proprietor has not a sufficiency of free labour at his disposal. As the average holding is so small such outside assistance is not often required, and I consider that a deduction of another  $1\frac{1}{2}$  per cent on this account will be ample. The total deductions to be made will thus amount to 7 per cent. In Haripur 5 and in Mansehra 8 per cent were allowed.

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## CHAPTER VIII.—HALF-ASSETS RATE.

40. The produce estimate based on the assumptions of the foregoing chapters will be found in Appendix E. It will be seen that the value of

Produce estimate.

the gross produce of the tahsil is calculated as amounting to Rs. 15,05,000, of which the Government share is Rs. 3,12,350. But, as already observed, it must be remembered that the year 1904-05 is, owing to the exceptionally favourable *rabi* on the whole above the average. To bring it down to the average of the last, five years certain deductions have to be made, which are explained in the following paragraph, and the result is that the value of the gross produce may be assumed to be just 14 lakhs of rupees, and the value of the Government share Rs. 2,90,500, or not far off three lakhs.

41. The crop and soil rates brought out by the produce estimate are also shown in Appendix E. For the

Half-assets produce rates.

rabi of 1905 I make allowances in

the following manner. The *abi* crop of this harvest was not, generally speaking, above the average, for in seasons of heavy rainfall it is the *barani* and not the *abi* soils that benefit most; hence I assume that the rates on the irrigated land need no alteration. But with unirrigated soils the case was different, and therefore in circles where the matured area of 1904-05 exceeds to any marked extent the average matured area of the last five years, I consider that proportionate reductions should be made. The following are the percentages of excess in the different circles: Dhangar 8, Tanawal 16, Nilan 5, Dhan 5, Lora 25, Dhaka 7, Boi 7, Bakot 1. In Rash there is a deficiency of 2 per cent. I propose therefore to make no change in the rates of Rash and Bakot, but to reduce the others by the above percentages. Perhaps, strictly speaking, less allowance should be made for superior soils than for inferior, because the latter are most advantaged by a good season, but for our purposes an all-round deduction should be near enough.

The following table gives a summary of the half-assets rates resulting from the above calculation:—

| Assessment Circle. | ABI.               |        | BARI.      |        | MAIRA, &c. |                   | RAKKAR.    |                   | KALSI.     |        |
|--------------------|--------------------|--------|------------|--------|------------|-------------------|------------|-------------------|------------|--------|
|                    | Crop rate.         |        | Crop rate. |        | Crop rate. |                   | Crop rate. |                   | Crop rate. |        |
|                    | Rs. a.             | Rs. a. | Rs. a.     | Rs. a. | Rs. a.     | Rs. a.            | Rs. a.     | Rs. a.            | Rs. a.     | Rs. a. |
| Dhangar            | Bagh ...           | 9 12   | 16 6       | ...    | ...        | Maira I 1 8       | 1 11       | Rakkar and kalsi. | 0 9        | 0 7    |
|                    | Bari abi           | ...    | ...        | ...    | ...        | Maira II 0 12     | 0 12       | ...               | ...        | ...    |
|                    | Bahardi abi, hotar | 4 7    | 5 1        | 3 1    | 4 13       | ...               | ...        | ...               | ...        | ...    |
|                    | Barangar abi.      | 1 12   | 2 1        | ...    | ...        | ...               | ...        | ...               | ...        | ...    |
|                    | Gharera abi.       | ...    | ...        | ...    | ...        | ...               | ...        | ...               | ...        | ...    |
| Rash               | Hotar ...          | 5 6    | 5 11       | ...    | ...        | Bela, ... 5 9     | 6 7        | Rakkar and kalsi. | 1 2        | 1 0    |
|                    | Other abi ...      | 5 2    | 4 15       | 4 5    | 6 14       | Kund & maira 2 12 | 3 0        | ...               | ...        | ...    |
| Tanawal            | Bagh ...           | 5 15   | 13 7       | ...    | ...        | Negar... 2 14     | 5 1        | ...               | ...        | ...    |
|                    | Other abi ...      | 3 9    | 4 9        | 2 14   | 4 14       | Maira I 1 9       | 2 11       | 0 10              | 0 10       | 0 9    |
| Nilan              | Hotar ...          | 3 8    | 3 13       | ...    | ...        | Maira II 1 0      | 1 0        | ...               | ...        | ...    |
|                    | Other abi ...      | 3 14   | 4 7        | 3 7    | 5 7        | ...               | ...        | 0 10              | 0 6        | ...    |
| Dhan               | Hotar ...          | 3 1    | 2 8        | ...    | ...        | 1 11              | 1 12       | Rakkar and kalsi. | 0 13       | 0 10   |
|                    | Other abi ...      | 6 4    | 3 2        | 3 15   | 4 5        | 2 3               | 2 2        | ...               | ...        | ...    |
| Lora               | Hotar ...          | 3 1    | 2 13       | ...    | ...        | 1 11              | 2 6        | Rakkar and kalsi. | 0 12       | 0 11   |
|                    | Other abi ...      | 3 0    | 3 0        | 2 11   | 4 14       | ...               | ...        | ...               | ...        | ...    |
| Dhaka              | ...                | 2 10   | 2 8        | 3 10   | 4 13       | 2 7               | 2 9        | 1 4               | 1 2        | 1 4    |
| Boi                | ...                | 3 6    | 3 9        | 2 11   | 3 12       | 1 4               | 1 7        | 0 10              | 0 11       | 0 10   |
| Bakot              | ...                | 4 0    | 3 15       | 3 15   | 5 4        | 1 14              | 1 10       | 1 3               | 0 13       | 1 6    |

42. I give below, for what it is worth, a comparison of the half assets based on the produce estimate with those based on the cash rents of tenants-at-will, as calculated in the Supplement to Statement No. VII.

| Assessment Circle. |     |           |     |     |     | Half-assets by produce estimate. | Half-assets by cash rent. |
|--------------------|-----|-----------|-----|-----|-----|----------------------------------|---------------------------|
|                    |     |           |     |     |     | Rs.                              | Rs.                       |
| Dhangar            | ... | ...       | ... | ... | ... | 36,367                           | 13,919                    |
| Rash               | ... | ...       | ... | ... | ... | 69,205                           | 24,781                    |
| Tanawal            | ... | ...       | ... | ... | ... | 49,394                           | 29,168                    |
| Nilan              | ... | Nara-Lora | ... | ... | ... | 9,676                            | 4,484                     |
| Dhan               | ... |           | ... | ... | ... | 7,568                            | 2,582                     |
| Lora               | ... |           | ... | ... | ... | 15,756                           | 7,710                     |
| Dhaka              | ... | ...       | ... | ... | ... | 54,675                           | 30,193                    |
| Boi                | ... | ...       | ... | ... | ... | 19,464                           | 8,788                     |
| Bakot              | ... | ...       | ... | ... | ... | 28,471                           | 10,093                    |
| Total Tahsil       |     |           |     |     |     | 2,90,576                         | 1,35,718                  |

The fact that the former is more than double the latter indicates not, I think, that the produce estimate is pitched too high, but that owing to insufficient data the cash rent estimate is not to be trusted.

## CHAPTER IX.—ASSESSMENT PROPOSALS.

43. In considering the new revenue that may be imposed on this tahsil it has to be borne in mind on the one hand that there has been a great rise in prices and a considerable extension of cultivation, and that the miscellaneous assets are large and increasingly valuable; but, on the other hand, that the rise in the population is almost as great as that in prices, and has far outstripped that in the cultivated area, that the pressure on the soil is in consequence severe in many villages and that the resources of grain grown in the tahsil are insufficient for the needs of its inhabitants, and have to be supplemented from outside. Account has also to be taken of the previous assessment and of the risk of enforcing a great and sudden enhancement in those circles that were let off lightly at last Settlement. It is the above considerations that have actuated me in fixing the totals for each circle rather than the results deduced from the produce estimate which are useful mainly as an indication of the values of the soils and of a maximum which it would be dangerous even to approach. The following paragraphs contain my detailed proposals.

Principles of assessment.

44. The Dhangar Circle is described in para 8, and I summarise below the main statistics connected with it:—

|  |     |     |     |            |
|--|-----|-----|-----|------------|
| Dhangar.   |     |     |     |            |
| Percentage of total area cultivated                              | ... | ... | ... | 42         |
| Ditto of cultivated area irrigated                               | ... | ... | ... | 9          |
| Ditto ditto matured  | ... | ... | ... | 112        |
| Ditto of sown area failed  | ... | ... | ... | 21         |
| Ditto of matured area under—                                     |     |     |     |            |
| (a) <i>kharif</i> crops  | ... | ... | ... | 53         |
| (b) <i>rabi</i>  | ... | ... | ... | 47         |
| Percentage of area cultivated by—                                |     |     |     |            |
| (a) proprietors  | ... | ... | ... | 51         |
| (b) occupancy tenants  | ... | ... | ... | 22         |
| (c) tenants-at-will  | ... | ... | ... | 24         |
| Percentage of cultivated area under mortgage                     | ... | ... | ... | 13.3       |
| Average unsecured debt per proprietor                            | ... | ... | ... | Rs. 32     |
| Value of—  |     |     |     |            |
| (a) miscellaneous assets   | ... | ... | ... | Rs. 59,500 |
| (b) proprietors' share thereof                                   | ... | ... | ... | " 21,600   |
| Increase in cultivated area since last Settlement                | ... | ... | ... | 3          |
| Increase in population since last Settlement                     | ... | ... | ... | 36         |
| Population per square mile of cultivation                        | ... | ... | ... | 749        |
| Assessment of last Settlement according to soil rates then fixed | ... | ... | ... | Rs. 18,088 |
| Present land revenue with incidence of same per acre on—         | ... | ... | ... | " 14,379   |
| (a) cultivated area of new measurements                          | ... | ... | ... | 13 annas   |
| (b) average matured area of last five years,...                  | ... | ... | ... | 12½ "      |
| Half assets based on produce estimate                            | ... | ... | ... | Rs. 36,367 |
| Ditto cash rent estimate   | ... | ... | ... | " 17,919   |

The following table shows the soil rates as fixed at last Settlement, as deduced from the produce estimate and as now proposed:—

|  | LAST SETTLEMENT. |          |         |                 | Half-assets estimate. | As now proposed |
|--|------------------|----------|---------|-----------------|-----------------------|-----------------|
|  | Dhangar Nara.    | Gujhail. | Marhad. | Gujrat Dhangar. |                       |                 |
|  | Rs. a.           | Rs. a.   | Rs. a.  | Rs. a.          | Rs. a.                | Rs. a.          |
| Bagh   | ...              | ...      | 6 0     | 8 0             | 16 7                  | 10 0            |
| Bari abi, Bahardi abi                          | ...              | 2 0      | ...     | 3 0             | } 5 1                 | } 3 4           |
| Hotar  | 1 8              | ...      | 1 8     | ...             |                       |                 |
| Barangar abi and Gharera abi                   | ...              | ...      | ...     | 1 8             | 2 1                   | 1 4             |
| Bari   | 2 14             | 2 12     | 2 10    | 2 8             | 4 13                  | 2 10            |
| Kund   | 1 8              | 1 12     | 1 10    | 2 0             | } 1 14                | } 0 15          |
| Maira I  | ...              | ...      | ...     | ...             |                       |                 |
| " II   | 0 12             | 0 12     | 0 10    | 0 12            | 0 12                  | 0 7             |
| Rakkar   | ...              | 0 6      | 0 6     | 0 8             | } 0 7                 | } 0 5           |
| Kalsi  | 0 2              | 0 2      | 0 2     | 0 2             |                       |                 |
| Percentage of assessment above or below rates. | —1               | —35      | +14     | —23             | ...                   | ...             |

• Captain Wace's rates are high and though he went much below them in two of his circles and the total revenue of the circles as now constituted is 21 per cent less than those rates, his assessment may be considered a full one for the time when it was imposed. I am not proposing much enhancement in the rates themselves. *Bagh*, however, should be able to pay Rs. 10 as against Captain Wace's Rs. 8 and Rs. 6. It is most of it similar in character to the *bagh* of Maidan Hazara Utla in Haripur, which has been rated at Rs. 12 and in the villages adjoining the Dhangar Circle will pay Rs. 10. The cash rented area is too small to be much of a guide, but I may note that in one of the best villages the rents paid on *bagh* by occupancy tenants and tenants-at-will alike amount to Rs. 22 an acre. For *bari abi*, *bahardi abi* and *hotar* lumped together Rs. 3-4 should be sufficient. It might be higher were it not for the inferiority of some of the *hotar* and *bari abi*. It compares with rates of Rs. 4 and Rs. 3-8 in Maidan Hazara Utla and Tarla, respectively. On *barangar* and *gharera* I do not care to go higher than Re. 1-4, the rate adopted in Maidan Hazara Utla.

For *bari* my proposed rate of Rs. 2-10 is two annas more than that imposed in the adjoining circles of the Haripur tahsil. Its superiority is shown by the fact that 158 per cent is matured against 137 per cent. in Kandi Kahl and 104 per cent in Maidan Hazara Utla though it must be remembered that the first figure is unduly inflated by the *rabi* of 1905. It is better soil on the average than that of Kandi Kahl, is, owing to the smaller proportion of irrigated land, more, heavily manured than that of Maidan Hazara Utla, and gets more rain than both. It is four annas under the rate which Captain Wace fixed for his Dhangar Nara Circle, but this was undoubtedly too heavy, for the *bari* of Dhangar Nara is really worse than that of any of the other three circles. For *maira I* I am proposing 15 annas, which is three annas higher than the Maidan Hazara Utla rate, but is justified by more intensive cultivation, a heavier rainfall and the fact that the worst portion has been eliminated and become *maira II*. This rate is really lower than those fixed by Captain Wace because, although most of what is now *maira* was included by him in *rakkar*, he showed much land as *kund*, which has now been more correctly entered as *maira*, and assessed it much higher than his *maira*. The average cash rent of 1-6 points, it is true, to a somewhat lower rate, but it applies to only 6 per cent of the total area, and with a soil of so varying a character it is impossible to take it as a guide, though it serves as a warning against going as high as other considerations might warrant. For *maira II* a rate of 7 annas, or one and two annas above the *rakkar* rates of Maidan-Hazara Utla and Kandi Kahl respectively, seems fair, and is supported by the average cash rent of 15 annas. It is an anna below the *rakkar* rate fixed by Captain Wace for Gujrat Dhangar, in which tract most of *maira II* is to be found, but I do not think that the soil can stand more. For *rakkar* and *kalsi* 5 annas, the rate adopted in Kandi Kahl, seems correct; the soil is so bad that it would be unwise to go higher, especially as the soil rate deduced from the half-assets estimate is only 7 annas, although the cash rent average is the same as for *maira II*.

The above rates bring out a total of Rs. 20,910, and I propose to fix the assessment of the circle at Rs. 21,000. This is 58 per cent of the half-assets estimate and is under one-eight of the assumed value of the gross produce; it represents an enhancement of 46 per cent. on the previous revenue, and incidences of Re. 1-3 on the present cultivated area and Re. 1-2 on the average matured area of the last five years. The circle is a fairly strong one: its communications are good, it has some fine irrigated land, and its population, were it not for litigation and extravagance, would be well off; but, on the other hand, the increase in cultivation since last Settlement has been very small, the waste is, comparatively speaking, poor, the miscellaneous assets not large, and there is much bad land on which the harvests are insecure. The soil rates are, I think, as high as the circumstances justify, and I would deprecate taking a bigger enhancement

45. The following are the main statistics of the Rash Circle, which is described in paragraph 9:—

| Rash,      |                              |     |     |
|------------|------------------------------|-----|-----|
| Percentage | of total area cultivated     | ... | 48  |
| Ditto      | of cultivated area irrigated | ... | 5   |
| Ditto      | ditto matured                | ... | 111 |
| Ditto      | of sown area failed          | ... | 4   |

|  |     |     |            |            |
|--|-----|-----|------------|------------|
| Percentage matured area under—   |     |     |            |            |
| (a) <i>Kharif</i>  | ... | ... | ...        | 60         |
| (b) <i>Rabi</i>  | ... | ... | ...        | 40         |
| Percentage of area cultivated by—  |     |     |            |            |
| (a) Proprietors  | ... | ... | ...        | 55         |
| (b) Occupancy tenants  | ... | ... | ...        | 17         |
| (c) Tenants-at-will  | ... | ... | ...        | 25         |
| Percentage of cultivated area under mortgage   |     |     |            | 22.6       |
| Average unsecured debt per proprietor  |     |     |            | 31         |
| Value of—  |     |     |            |            |
| (a) Total miscellaneous assets   | ... | ... | Rs. 93,420 |            |
| (b) Proprietors' share thereof   | ... | ... | „ 43,820   |            |
| Increase per cent in cultivated area since last Settlement                           |     |     |            | 12         |
| Ditto in population since last Settlement  |     |     |            | 76         |
| Population per square mile of cultivation (excluding Abbottabad town and cantonment) |     |     |            | 909        |
| Assessment of Last Settlement according to soil rates then fixed                     |     |     |            | Rs. 15,127 |
| Present land revenue with incidence of same per acre on—                             |     |     |            | „ 12,882   |
| (a) Present cultivated area  | ... | ... | 10         | annas      |
| (b) Average matured area of the last five years                                      | ... | ... | 9½         | „          |
| Half-assets based on produce estimate  |     |     |            | Rs. 69,205 |
| Ditto cash rents estimate  |     |     |            | „ 24,781   |

The table of soil rates is as below :—

|   |     |     |     |     |     | LAST SETTLEMENT.        |                           |         | Half-<br>assets<br>rate. | As now<br>proposed. |
|---|-----|-----|-----|-----|-----|-------------------------|---------------------------|---------|--------------------------|---------------------|
|   |     |     |     |     |     | Orash<br>Dham-<br>taur. | Orash<br>Nawan-<br>shahr. | Mangal. |                          |                     |
|   |     |     |     |     |     |                         |                           |         |                          |                     |
| Hotar                                   | ... | ... | ... | ... | ... | 2 8                     | 2 8                       | 2 4     | 5 11                     | 2 0                 |
| Other abi                               | ... | ... | ... | ... | ... | ...                     | ...                       | ...     | 4 15                     | 2 12                |
| Bari                                    | ... | ... | ... | ... | ... | 2 12                    | 2 12                      | 2 8     | 6 14                     | 2 14                |
| Bela                                    | ... | ... | ... | ... | ... | } 1 4                   | 1 4                       | 1 4     | 6 7                      | 2 12                |
| Kund                                    | ... | ... | ... | ... | ... |                         |                           |         | 3 0                      | } 1 3               |
| Maira                                   | ... | ... | ... | ... | ... | 0 10                    | 0 10                      | 0 10    | } 1 0                    |                     |
| Rakkar                                  | ... | ... | ... | ... | ... | 0 6                     | 0 6                       | 0 6     |                          |                     |
| Kalsi                                   | ... | ... | ... | ... | ... | 0 2                     | 0 2                       | 0 2     |                          |                     |
| Percentage of assessment above or below |     |     |     |     |     |                         |                           |         |                          |                     |
| rates                                   | ... | ... | ... | ... | ... | —23·6                   | —7·2                      | —15·9   | ...                      | ...                 |

Captain Wace's assessment of the circle as now constituted is 15 per cent below the result brought out by his soil rates. Yet it cannot be said that the latter are excessively high, though Rs. 2-12 is a full rate for *bari*; on *kuma* and *bela* and on *maira*, the most important soil of all, they are decidedly low. The reason is that in those days, as I have already explained, the soil of the Rash plain was more marshy than it is now and the crops suffered much more from heavy rain. Captain Wace in his Assessment Report lays much stress on this point: and as regards the *maira* which then included some of the *jab* land he remarks:—"At first sight I had intended to assess the Orash *maira* higher; but the present year (1871) with its crops all rotted down to root is an instance of what this marshy tract is frequently liable to." Why he should have applied the same rate to the fine *matra* of Mangal, where there could be no such risk of the crops rotting, I do not know, and altogether it must be admitted that he let off this circle with a very light assessment rendering a large enhancement at the present Settlement inevitable.

In the soil rates which I propose I fix the rate on *hotar* 8 annas below that of other irrigated land, because though the *hotar* of Mangal and the Rash plain proper might stand more, the somewhat inferior soil in the Darkhan Nuljah has also to be taken into account. The *other abi* consists of multifarious

soils, but most of it is *bahardi abi* in the Rash plain which was formerly recorded as *hotar* and can pay Rs. 2-12, which also seems a fair average for the whole. The *jab* land entered as *bela* I put on a level with the Rash *abi*. Though it is mainly *ekfasli* it yields the finest crop of maize in the tahsil and has no *khara* to speak of. It can, I think, well afford Rs. 2-12. The *bari* rate I put 2 annas above *bela* because, though the yield is not so large, most of it is *dofasli* and the crops are almost as secure. Were it not for some inferior soil in the hills which fringe the plain belonging to the outlying hamlets of the big Rash villages, it could pay still higher. On the best *bari* in the Pakhli Circle of Mansehra Tahsil, which is a similar soil but gets less rain, Captain Beadon's rate is Rs. 2-12.

For *maira*, in which 494 acres of good *kund* are included, I propose a rate of Re. 1-3. This is 2 annas more than the rate imposed on the best *maira* in Pakhli, which closely resembles that of the Mangal tract, but is justified by the fact that the rainfall is heavier and the area of *khara* less in consequence. It is to a certain extent supported by the cash rent figures which here alone in this circle are of any value as a guide and give an average rent of Rs. 2-8 on holdings containing only this soil and of Rs. 2-3 on such holdings and lump rent holdings combined. For *rakkar* and *kalsi* a rate of 6 annas is as high as I care to take; much of them is poor stuff, but they are quite an anna better than the same soils in Dhangar. The high cash rent average of Re. 1-8 is due, no doubt, to the waste included in *kalsi* holdings.

My rates bring out a total assessment of Rs. 28,620, and I would propose to fix Rs. 28,500 as the new land revenue of the circle. Though only 41 per cent of the half assets and one-twelfth of the value of the gross produce, this is a rise of 121 per cent on the previous revenue and represents an incidence of Re. 1-7 on the present cultivated area and Re. 1-5 on the average matured area of the last five years. I have had some hesitation in proposing so great an enhancement, especially in view of the small extension in the cultivated area since Settlement as compared with the large increase in the population, but I believe that the circle can stand it. It has the best and most productive soil in the tahsil, the harvests never fail and the fertility of the Rash plain has increased greatly in the last thirty years. Many of the proprietors are prosperous; the indebtedness of others is their own fault, and the pressure on the soil is relieved by the opportunities of service and trade which the cantonments afford and which the Kashmir Railway will increase.

46. Of the Tanawal Circle (*vide* paragraph 10) the following are leading statistics;—

| Tanawal.   |     |     |     | statistics;— |
|--|-----|-----|-----|--------------|
| Percentage of total area cultivated                              | ... | ... | ... | 29           |
| Ditto cultivated area irrigated                                  | ... | ... | ... | 3            |
| Ditto ditto matured  | ... | ... | ... | 119          |
| Ditto sown area failed   | ... | ... | ... | 18           |
| Percentage of matured area under—                                |     |     |     |              |
| (a) kharif   | ... | ... | ... | 50           |
| (b) rabi   | ... | ... | ... | 50           |
| Percentage of area cultivated by—                                |     |     |     |              |
| (a) Proprietors  | ... | ... | ... | 63           |
| (b) Occupancy tenants  | ... | ... | ... | 22           |
| (c) Tenants-at-will  | ... | ... | ... | 13           |
| Percentage of cultivated area under mortgage                     | ... | ... | ... | 14.7         |
| Average unsecured debt per proprietor                            | ... | ... | ... | Rs. 28       |
| Value of—  |     |     |     |              |
| (a) total miscellaneous assets                                   | ... | ... | ... | Rs. 2,29,300 |
| (b) proprietors' share thereof                                   | ... | ... | ... | „ 7,60,900   |
| Increase per cent in cultivated area since last Settlement       | ... | ... | ... | 32           |
| Ditto population since last Settlement                           | ... | ... | ... | 70           |
| Population per square mile of cultivation                        | ... | ... | ... | 936          |
| Assessment of last Settlement according to soil rates then fixed | ... | ... | ... | Rs. 18,030   |
| Present land revenue with incidence of same per acre on—         | ... | ... | ... | „ 20,856     |
| (a) present cultivated area                                      | ... | ... | ... | 12 as.       |
| (b) average matured area of the last five years                  | ... | ... | ... | 11½ „        |
| Half-assets based on produce estimates                           | ... | ... | ... | Rs. 49,394   |
| Ditto cash rent estimate   | ... | ... | ... | „ 29,168     |

And the following is the table of soil rates :—

|   |     |     |     | LAST SETTLEMENT. |                 |                |          |          |           | Half assets rate. | As now proposed. |
|---|-----|-----|-----|------------------|-----------------|----------------|----------|----------|-----------|-------------------|------------------|
|   |     |     |     | Kachhi.          | Maidan Shingri. | Kandi Shingri. | Sherwan. | Garhian. | Babarhan. |                   |                  |
|   |     |     |     | Rs. a.           | Rs. a.          | Rs. a.         | Rs. a.   | Rs. a.   | Rs. a.    | Rs. a.            | Rs. a.           |
| Bagh  | ... | ... | ... | 8 0              | 6 0             | 4 0            | ...      | ...      | ...       | 13 7              | 9 0              |
| Other abi                                     | ... | ... | ... | 1 12             | ...             | 2 0            | 2 0      | 2 0      | 1 12      | 4 9               | 3 0              |
| Bari  | ... | ... | ... | 2 12             | 2 8             | 2 8            | 3 0      | 2 8      | 2 12      | 4 14              | 2 6              |
| Kund, i. e., Negar                            | ... | ... | ... | 1 8              | 1 8             | 1 4            | 1 8      | ...      | 1 8       | 5 1               | 2 8              |
| Other Kund                                    | ... | ... | ... |                  |                 |                |          |          |           |                   |                  |
| Maira I                                       | ... | ... | ... | 0 12             | 0 12            | 0 10           | 0 12     | 0 8      | 0 12      | 1 0               | 0 8              |
| Do. II  | ... | ... | ... |                  |                 |                |          |          |           |                   |                  |
| Rakkar  | ... | ... | ... | 0 8              | 0 8             | 0 6            | 0 8      | 0 4      | 0 8       | 0 10              | 0 4              |
| Kalsi   | ... | ... | ... | 0 2              | 0 2             | 0 2            | 0 2      | 0 2      | 0 2       | 0 8               | 0 4              |
| Percentage of assessment above or below rates | ... | ... | ... | +41              | -15             | +25            | +29      | -15      | +34       | ...               | ...              |

Captain Wace's assessment of the whole circle as now constituted was 11 per cent above his soil rates. The latter are distinctly high on the unirrigated soils, except *kalsi* and *kund*, and the total assessment was, therefore, a very full one. My rates are different from, but not on the whole higher than, his. For *bagh* I take one rupee less than in Dhargar. On this soil in Bur village occupancy tenants pay rents amounting to Rs. 22 and Rs. 29 an acre, but all the land is not as good as this. The other *abi* is of a miscellaneous character, and Rs. 3 is a fair average rate. The *bari* rate is not an easy one to fix, for the soil varies much. Besides that, round the village site the lands of outlying homesteads, which are generally of inferior quality, have to be considered. The double cropping is heavier than in any other circle of the tahsil, but this is partly due to the pressure on the soil and often means that the second crop is a poor one. In the Dhaka Badhnak Circle of Haripur, which is similar in character to Tanawal but inferior to it, because it has fewer bits of level soil and receives less rain, a rate of Rs. 2 was fixed. In the Gandgar Circle, where the *bari* is little better than in Dhaka Badhnak, it was Rs. 2-4. In the Garhian portion of the Pakhli Circle, resembling the adjoining tract of the same name that contains the worst land in Tanawal, Captain Beadon fixed Re. 1-12 only. Captain Wace's rates were, I think, much too high, and in the circumstances Rs. 2-6 seems a fair average to take. For *negar*, which is as heavily double-cropped as *bari* and does not require manuring, I fix a rate of Rs. 2-12. It is superior by quite 6 annas to the average *bari* of the circle. For *maira* Re. 1 will be sufficient. The double-cropping figures for this soil given in paragraph 10 are unduly inflated by the *rabi* of 1905, and one of the two crops is generally a poor one, so I do not think that it will be wise to go higher. Half this rate or 8 annas will be quite enough for *maira* II. Much of it is little better than *rakkar*, and I would go lower were it not for the good level land at the lower end of the circle, which can pay 12 annas or so. The *rakkar* and *kalsi* are generally such very poor stuff that in their case I do not care to go above 4 annas, the same rate as taken in Gandgar and the Garhian portion of Pakhli and 1 anna more than in Dhaka Badhnak. The cash-rent average, which in this circle is on these soils only worth noticing, is Re. 1-2 for

*rakkar* and Re. 1-3 for *kalsi*, thus pointing to a higher rate, but this is because of waste included in the holdings which is often nearly as valuable as the cultivation. And I propose to allow for such cases by imposing on all waste recorded as *dhaka rakh* and *banna*, i. e., all the hill waste land in possession of individual cultivators on which grass is preserved and cut, a rate of 6 pies per acre. Experience in Mansehra has shown that in most villages where the hill waste is of any value the proprietors put a rate of 1 anna or less on these two classes in the *bach*. I have thought it advisable therefore to assess the waste in this fashion in all circles of this tahsil where it is a really important asset. The maximum rate should, I think, be 1 anna an acre, but in Tanawal, where though extensive and valuable the waste does not ordinarily yield so good a crop of grass as in the circles with a higher average elevation, 6 pies will be sufficient.

The above rates bring out a total of Rs. 25,058 and I propose to fix Rs. 25,000 as the assessment of the circle. This is 51 per cent of the half assets, about one-twelfth of the value of the gross produce, an enhancement of 20 per cent on the previous revenue and an incidence of 14 annas, both on the present cultivated area and on the average matured area of the last five years. If it be thought that this enhancement is small in view of the increase in cultivation and the large miscellaneous assets, I would urge that the previous assessment, as the rates indicate, was for the time a very full one, that the pressure on the soil is very great and that the holdings (which average under 3 acres per proprietor in villages comprising 78 per cent. of the cultivation) are very small. Owing to this over population the zamindars are a poor and struggling lot. Except for a few big landlords, they are not much better off than their brethren in Dhaka Badhnak and depend on their profits from service or from milch produce to make both ends meet. The harvests are somewhat precarious, and a serious failure as in 1902 brings many to the end of their resources. Further, it should be remembered that the tax on goats, which has been recently sanctioned, will realise an additional revenue of some Rs. 1,000. It is in fact a circle which should be treated as leniently as a due regard to the interests of Government will admit.

47. Statistics of the Nara-Lora Circle with its three sub-circles  
(vide paragraph 11) are summarised below:—

|   | Nilan.    | Dhan      | Lora.      | Total<br>Nara-Lora. |
|---|-----------|-----------|------------|---------------------|
| Percentage of total area cultivated ... ..                        | 25        | 26        | 23         | 24                  |
| Ditto cultivated area irrigated ... ..                            | 6         | 1         | 5          | 5                   |
| Ditto ditto matured ... ..  | 103       | 94        | 132        | 114                 |
| Ditto sown area failed ... ..                                     | 23        | 11        | 8          | 14                  |
| Ditto matured area under—   |           |           |            |                     |
| (a) Kharif ... ..   | 72        | 86        | 74         | 76                  |
| (b) Rabi ... ..   | 28        | 14        | 26         | 24                  |
| Percentage of area cultivated by—                                 |           |           |            |                     |
| (a) Proprietors ... ..  | 46        | 52        | 38         | 44                  |
| (b) Occupancy tenants ... ..                                      | 44        | 22        | 37         | 36                  |
| (c) Tenants-at-will ... ..  | 8         | 21        | 32         | 17                  |
| Percentage of cultivated area under mortgage ... ..               | 8.2       | 6         | 7.4        | 7.3                 |
| Average unsecured debt per proprietor ... ..                      | Rs. 42    | Rs. 38    | Rs. 25     | Rs. 33              |
| Value of—   |           |           |            |                     |
| (a) Total miscellaneous assets ... ..                             | ...       | ...       | ...        | Rs. 96,610          |
| (b) Proprietors' share thereof ... ..                             | ...       | ...       | ...        | " 42,810            |
| Increase per cent. in cultivated area since last Settlement.      | 4         | 26        | 14         | 14                  |
| Increase per cent. in population since last settlement.           | 38        | 63        | 60         | 53                  |
| Population per square mile of cultivation ... ..                  | 1,037     | 953       | 1,045      | 1,021               |
| Assessment of last Settlement according to soil rates then fixed. | Rs. 5,060 | Rs. 2,860 | Rs. 6,362  | Rs. 14,282          |
| Present land revenue with incidence of same per acre on—          | " 4,890   | " 2,994   | " 5,730    | " 13,614            |
| (a) Present cultivated area ... ..                                | Re. 1-2   | 14 as.    | 14½ as.    | 15½ as.             |
| (b) Average matured area of the last five years                   | " 1-2     | 15½       | 13½        | 15½                 |
| Half-assets based on produce estimate ... ..                      | Rs. 9,676 | Rs. 7,568 | Rs. 15,756 | Rs. 33,000          |
| Ditto cash rent estimate ... ..                                   | " 4,484   | " 2,582   | " 7,710    | " 14,776            |

And the particulars of soil rates are as follows:—

|   | LAST SETTLEMENT. |        |                  |                   | HALF-ASSETS RATE. |        |        | As now proposed<br>for Nara-Lora. |
|---|------------------|--------|------------------|-------------------|-------------------|--------|--------|-----------------------------------|
|   | Nilan.           | Dhan.  | Maidan<br>Danna. | Dhakhan<br>Danna. | Nilan.            | Dhan.  | Lora.  |                                   |
|   | Rs. a.           | Rs. a. | Rs. a.           | Rs. a.            | Rs. a.            | Rs. a. | Rs. a. | Rs. a.                            |
| Hotar ... ..                                      | 1 8              | 1 8    | 1 12             | 1 8               | 3 13              | 2 8    | 2 13   | 2 0                               |
| Other abi ... ..                                  | 5 0              | ...    | 6 0              | 3 0               | 4 7               | 3 2    | 3 0    | 3 0                               |
| Bari ... ..                                       | 3 0              | 2 8    | 2 12             | 2 0               | 5 7               | 4 5    | 4 14   | 2 10                              |
| Kund ... ..                                       | 1 12             | 1 4    | 1 4              | 1 0               | 1 12              | 2 2    | 2 6    | 1 0                               |
| Maira ... ..                                      | 1 0              | 0 10   | 0 12             | 0 6               |                   |        |        |                                   |
| Rakkar ... ..                                     | ...              | ...    | ...              | ...               | 0 6               | 0 10   | 0 11   | 0 5                               |
| Kalsi ... ..                                      | 0 3              | 0 2    | 0 2              | 0 2               |                   |        |        |                                   |
| Percentage of assessment above or<br>below rates. | +2               | -98    | -18              | +1                | ...               | ...    | ...    | ...                               |

I have not given in the above Captain Wace's rates for Harranda Nara and Dhaka Danna, portions of which are included in the Lora sub-circle: they are a little higher, on the average, than those of Dhakhan Danna. For the circles as now constituted, Captain Wace's assessment is 3 per cent. below the result brought out by his soil rates for Nilan, 4 per cent. above for Dhan, 10 per cent. below for Lora, and 5 per cent. below for the whole combined. These rates appear to me to have been moderate in Dhan and Maidan Danna, too low in Dhakhan (which consisted, however, of only three villages) and too high in Nilan. In fact I think that Captain Wace somewhat overrated the fertility of the latter valley. Good as the soil is in parts, I do not consider it equals that of Lora, for it is hotter and gets less rain, and the outlying lands to the west especially are more arid and stony than almost any that Lora can show. Why Captain Wace should have put one anna more on *kalsi* here than anywhere else in the district, except the upper Khanpur hills, I cannot understand, particularly when it is considered that the hillsides on which the *kalsi* lies are barer of wood and grass than in most hill circles. I am in fact of opinion that Nilan is the worst of the three sub-circles, instead of being, as Captain Wace's rates and remarks would indicate, the best. Its increase in cultivation and population has been much less; it has a larger area of failed crops, a higher percentage of land under mortgage, and a relatively heavier burden of debt. The great number of occupancy tenants weakens the position of the proprietors. The pressure on the soil is exceedingly heavy, and, though not quite so severe as in Lora, it is not relieved as it is there by the miscellaneous sources of income which proximity to Murree and the Galis and a valuable hill waste afford. Its only marked superiority is in the irrigated land which is warmer and has a more plentiful supply of water than in Lora; this covers, however, but a small fraction of the cultivated area and of the other soils, if the *tar* is about equal to or possibly a little better than that of Lora, the *maira*, *rakkar* and *kalsi* are, I believe, a little worse, as the figures of the produce estimate show. On the whole, the two tracts are not so different that the same rates may not be applied to both, and they may, therefore, be included in the same assessment circle. And these rates may, I think, fairly be applied to Dhan also. The half-assets rates deduced from the produce estimate indicate that there is not much difference between it and Lora in the value of the soils in spite of the divergencies in cropping due to the climate. It is inferior to Lora as regards miscellaneous assets, for its waste, though extensive and producing an excellent crop of grass, has little wood, and like Nilan its remoteness is a considerable drawback; but, on the other hand, the increase in cultivation has been much greater, while the pressure on the soil is less severe.

As to the rates themselves I think Rs. 2 will be a fair average for the *hotar*. In the adjoining circle of Khanpur it is Rs. 2-8, but, while I might take this in Nilan, the supply of water for part of the *hotar* in Lora is so precarious, that in some villages I shall probably have to go as low as Re. 1-8. For *other abi*, which is mostly in Nilan, Rs. 2-12 should be sufficient. It might be higher were it not for the 56 acres of *barangar* and *gharera abi* which it includes. For *bari* I propose Rs. 2-10, the same rate as in Dhangar. The *dofasli* area is about the same, and the superiority of the *kharif* in the one is balanced by the superiority of the *rabi* in the other. In Khanpur the rate is Rs. 2-8, though Rs. 2-12 might have been taken but for the large enhancement. The rate of Re. 1 proposed for *maira* is that adopted in Nilan at last Settlement, and though Captain Wace's rates for the other tracts are much lower, it must be remembered that *maira* now includes much land which was then recorded as *kund* and assessed at from Re. 1-12 to Re. 1. The half-assets estimate shows that this soil can well stand the rate proposed, and if the cash rent average of Re. 1-13 points to a slightly lower rate, the area under such rents is too small to be of much service as a guide. In Dhangar, where I am taking 15 annas, the percentage of matured crops is about the same, but the *khuraba* is larger, and the value of the crops produced somewhat less. In Khanpur it is true the rate is only 11 annas, but most of the *maira* there lies at the lower end of the circle where the rainfall is somewhat precarious and the crops insecure. For *rakkar* and *basli* a rate of 5 annas, as in Khanpur and Dhangar, will be sufficient. The cash rent average, Re. 1-3, as usual points to a higher rate owing to the waste included in the tenancy holdings. And, as in Tanawal, I propose to recognise this fact by imposing a rate on *tanna* and *dhaka rakh*, which may here be 9 pies an acre. The waste is more valuable than in Tanawal owing to the heavier rainfall, and were it not for the bareness of the hills enclosing the Nilan valley, might be a full anna.

My rates bring out totals of Rs. 5,549 for Nilan, Rs. 4,170 for Dhan Rs. 8,186 for Lora, and Rs. 17,905 for the whole Nara-Lora Circle. I propose, to fix Rs. 18,000 for the latter (which is about one-ninth of the value of the gross produce) and to distribute it as follows: Nilan Rs. 5,500, Dhan Rs. 4,200, and Lora Rs. 8,300, the last named tract being assessed slightly higher than the others, owing to its situation and larger miscellaneous assets. The percentage of half-assets, the increase on the previous revenue, and the incidence on cultivated and matured area are as below:—

|              |     |     |     | Percentage of<br>half-assets. | Per cent.<br>increase<br>on previous<br>revenue. | Incidence per<br>acre on present<br>cultivated area. | Incidence per<br>acre on average<br>matured area<br>of the last<br>five years. |
|--------------|-----|-----|-----|-------------------------------|--|--|--|
|              |     |     |     | Rs.                           |  | Re. a.   | Re. a.   |
| Nilan        | ... | ... | ... | 57                            | 13   | 1 4  | 1 5  |
| Dhan         | ... | ... | ... | 55                            | 40   | 1 3  | 1 5  |
| Lora         | ... | ... | ... | 53                            | 45   | 1 5  | 1 4  |
| Total Circle |     |     |     | 55                            | 32   | 1 4  | 1 4  |

The smallness of the enhancement in Nilan is, I think, justified by my remarks on the comparative severity of Captain Wace's assessment and the present circumstances of the tract, which render it in my opinion dangerous to go any higher. Lora and Dhan are much more prosperous, and can well stand the rise proposed.

48. Leading statistics of the Dhaka Circle (*vide* paragraph 12) are as follows:—

|  |              |
|--|--------------|
| Dhaka.   |              |
| Percentage of total area cultivated ...                              | 21           |
| Ditto cultivated area irrigated ...                                  | 3            |
| Ditto ditto matured ...  | 101          |
| Ditto sown area failed ...   | 8            |
| Ditto matured area under—  |              |
| (a) kharif ...   | 87           |
| (b) rabi ...   | 13           |
| Percentage of area cultivated by—                                    |              |
| (a) proprietors ...  | 61           |
| (b) occupancy tenants ...  | 15           |
| (c) tenants-at-will ...  | 12           |
| Percentage of cultivated area under mortgage ...                     | 12.6         |
| Average unsecured debt per proprietor ...                            | Rs. 22       |
| Value of—  |              |
| (a) total miscellaneous assets ...                                   | Rs. 1,71,340 |
| (b) proprietors' share thereof ...                                   | " 96,840     |
| Increase per cent. in cultivated area since last Settlement          | 39           |
| Ditto population since last Settlement ...                           | 95           |
| Population per square mile of cultivation ...                        | 1,064        |
| Assessment of last Settlement according to soil rates then fixed ... | Rs. 12,993   |
| Present land revenue with incidence of same per acre on—             | " 10,039     |
| (a) present cultivated area ...                                      | 7 as.        |
| (b) average matured area of the last five years ...                  | 7 "          |
| Half-assets based on produce estimate ...                            | Rs. 54,675   |
| Ditto cash rent estimate ...   | " 30,193     |

The table of soil rates is given below:—

|   | LAST SETTLEMENT |                   |              |              |                | Half-assets rate. | As now proposed. |
|---|-----------------|-------------------|--------------|--------------|----------------|-------------------|------------------|
|   | Dhaka Dhamtaur. | Dhaka Nawanshahr. | Dhaka Rajoi. | Samundarpar. | Dhakkan Danna. |                   |                  |
|   | Rs. a.          | Rs. a.            | Rs. a.       | Rs. a.       | Rs. a.         | Rs. e.            | Rs. a.           |
| Abi, ie., hotar ...                               | 2 8             | 2 8               | ...          | 1 8          | 1 12           | 2 8               | 1 4              |
| Bari ...  | 2 8             | 2 8               | 2 0          | 2 0          | 2 8            | 4 13              | 2 0              |
| Kund ...  | 1 4             | 1 4               | 1 0          | 1 0          | 1 0            | 2 9               | 0 10             |
| Maira ...   | 0 8             | 0 8               | 0 8          | 0 8          | 0 8            |                   |                  |
| Rakkar ...  | 0 6             | 0 6               | 0 6          | ...          | ...            | 1 2               | 0 6              |
| Kalsi ...   | 0 2             | 0 2               | 0 2          | 0 2          | 0 2            | 1 1               |                  |
| Percentage of assessment above or below rates ... | +34             | +40               | +8           | -12          | -44            | ...               | ...              |

Captain Wace's assessment of the whole circle as now constituted was 23 per cent below the result brought out by his soil rates. The large extension of cultivation and the value of the miscellaneous assets make the present revenue a very light one, and the fixing of new soil rates must largely be governed by consideration of how great an enhancement it will be advisable to take. In my opinion, strong as the circle is in miscellaneous sources of revenue, thanks to its valuable waste land and its proximity to Murree, the Galis or Abbottabad, as the case may be, it will not be wise to take much more than double the present revenue. The larger portion of the circle is in the possession of struggling *khudkasht* proprietors, whose cultivated holdings are very small and resources limited. The present distribution of the revenue, moreover, is unequal, and doubling it for the whole circle will perhaps mean trebling it for certain villages, which will have some difficulty in adapting themselves to the new state of things. The rates, therefore, which I propose, are very moderate

ones. Rupee 1-4 will be enough for the *hotar*, which is generally of inferior quality owing to the cold climate. If Rs. 2 is thought light for the *bari* it must be remembered that much of it is simply manured *rakkar* or *kalsi* round outlying homesteads. *Maira* is often little better than the latter two soils and 10 annas will suffice for it. For *rakkar* and *kalsi* I propose 6 annas, which is the same as that imposed on similar soil in the Kunhar Circle of the Mansehra tahsil and 1 anna below the rate in Konsh and Bhogarmang. In addition to the above soil rates I propose to assess *dhaka rakh* and *banna* for the same reasons as in Tanawal and Nara-Lora, but at a higher incidence, viz, 1 anna per acre, because of the greater value of the waste. The total thus brought out is Rs. 21,058, and I suggest an assessment for the circle of Rs. 21,000. Though only 38 per cent. of the half-assets and one-twelfth of the value of the gross produce, this is an enhancement of 109 per cent. on the previous revenue. It represents an incidence of 14 annas on the present cultivated area and 15 annas on the average matured area of the last five years. It is 30 per cent. below the cash rent estimate, whereas the assessments of other circles are usually above it, the comparatively high average of cash rents being due to the valuable waste which they include. In short there can be little doubt that the assessment proposed is a moderate one, but for the reasons given above I do not think it would be safe to take a larger increase.

49. For the Boi circle paragraph 13 may be referred to, and the leading statistics are as below:—

| Boi.  |     |     |     |            |
|---|-----|-----|-----|------------|
| Percentage of total area cultivated                                 | ..  | ... | ... | 38         |
| Ditto cultivated area irrigated                                     | ... | ... | ... | 2          |
| Ditto ditto matured   | ... | ... | ... | 102        |
| Ditto sown area failed  | ... | ... | ... | 5          |
| Ditto matured area under—   |     |     |     |            |
| (a) Kharif  | ... | ... | ... | 83         |
| (b) Rabi  | ... | ... | ... | 17         |
| Percentage of area cultivated by—                                   |     |     |     |            |
| (a) proprietors   | ... | ... | ... | 75         |
| (b) occupancy tenants   | ... | ... | ... | 5          |
| (c) tenants-at-will   | ... | ... | ... | 16         |
| Percentage of cultivated area under mortgage...                     | ... | ... | ... | 7          |
| Average unsecured debt per proprietor                               | ... | ... | ... | Rs. 11     |
| Value of—   |     |     |     |            |
| (a) Total miscellaneous assets                                      | ... | ... | ... | Rs. 66,140 |
| (b) Proprietors' share thereof                                      | ... | ... | ... | Rs. 47,570 |
| Increase per cent in cultivated area since last Settlement          | ... | ... | ... | 22         |
| Ditto population since last Settlement                              | ... | ... | ... | 69         |
| Population per square mile of cultivation                           | ... | ... | ... | 710        |
| Assessment of last Settlement according to soil rates then fixed... | ... | ... | ... | Rs. 5,356  |
| Present land revenue with incidence of same per acre on—            | ... | ... | ... | Rs. 3,240  |
| (a) Present cultivated area   | ... | ... | ... | 3 as.      |
| (b) Average matured area of the last five years                     | ... | ... | ... | 3½ "       |
| Half-assets based on produce estimate                               | ... | ... | ... | Rs. 19,464 |
| Ditto cash rent estimate  | ... | ... | ... | Rs. 8,788  |

The table of soil rates is as follows:—

|                  |     |     |     | Last Settlement. | Half-assets rate. | As now proposed. |
|------------------|-----|-----|-----|------------------|-------------------|------------------|
|                  |     |     |     | Rs. a. p.        | Rs. a.            | Rs. a.           |
| Abi, i.e., hotar | ... | ... | ... | 2 0 0            | 3 9               | 1 4              |
| Bari             | ... | ... | ... | 2 0 9            | 3 12              | 1 0              |
| Maira            | ... | ... | ... | 0 5 0            | 1 7               | 0 7              |
| Rakkar           | ... | ... | ... | 0 4 0            | 0 11              | 0 3              |
| Kalsi            | ... | ... | ... | 0 2 0            | 0 8               | 0 3              |

Considering that 83 per cent of the cultivated area was recorded as *maira*, *rakkar* or *kalsi*, and that more than half of this was the last named soil, Captain Wace's rates were moderate enough; yet he assessed nearly 40 per cent. below them; and the result now is that with 22 per cent. increase in cultivation

the incidence of the revenue on the cultivated and matured areas is almost nominal. Were the assessment nothing at all, however it would make little difference. The inaccessibility and remoteness of the tract, the want of communications and markets, the very large percentage of inferior soil, the extremely high proportion of small *khudkasht* holdings and the absence of any big landed proprietor except the jagirdar, the lack of spirit and enterprise in the population, and the exiguousness of their resources beyond their land and cattle, all combine to render the circle now, as it was in Captain Wace's time, the poorest in the district. A simple, ignorant folk, they are fleeced by bunnias and mullahs, and spend a sum that would suffice to pay for thirty years' revenue on one funeral feast. They go little abroad, for, accustomed to a cold climate, they cannot stand the heat of the plains, and though some of them made money by service as carriers in the Tibet expedition, such chances do not often occur. Altogether the case for lenient assessment is a very clear one, and the rates which I propose are, therefore, intentionally very light, though even so a large enhancement is inevitable. The Hotar is rather better than that of Dhaka, because it has a warmer climate, but in the circumstances the same rate is sufficient. For *bari* I propose the low rate of Re. 1, in view of the fact that so much of it is manured *kalsi*. For the other soils proportionately light rates are suggested; and for *dhaka rakh* and *banna* a rate of 6 pies per acre as in Tanawal seems suitable. It is worth noting that in the Murree tahsil, which is much more favourably situated than Boi and can hardly have inferior soil, Mr. Robertson's rates on *bari*, *maira* and *rakhar* were Re. 1, 6 annas and 3 annas, respectively, and his actual assessments were 23 per cent. below his rates. I understand that Mr. Kitchin is not disposed to raise the latter very much, and the parallel between the two circles will thus remain fairly close, and serve as a justification for the low rates which I propose.

These bring out a total of Rs. 5,984, and the assessment for the circle may be fixed at Rs. 6,000. The assessment data, of course, point to a much higher figure. The sum suggested is only 31 per cent. of the half assets, one-sixteenth of the value of the gross produce and represents an incidence of 6 annas on the present cultivated area and  $6\frac{1}{2}$  annas on the average matured area of the last five years; but it is an enhancement of 85 per cent. on the previous assessment, and that, in my opinion, is quite as much as so poor a circle should be called upon to bear. I should not in fact go so high did not I consider that two or three large villages of a quality superior to the rest can be made to bear the brunt of the enhancement, and that, generally speaking, an equitable distribution of the revenue over soils will make matters more easy for the proprietors.

50. The following is a summary of leading statistics in the Bakot Circle  
(vide paragraph 14):—

| Bakot.  |     |     |     |     |            |
|---|-----|-----|-----|-----|------------|
| Percentage of total area cultivated ...                             | ... | ... | ... | ... | 26         |
| Ditto cultivated area irrigated ...                                 | ... | ... | ... | ... | 8          |
| Ditto ditto matured ...   | ... | ... | ... | ... | 95         |
| Ditto sown area failed ...  | ... | ... | ... | ... | 11         |
| Ditto matured area under—   |     |     |     |     |            |
| (a) Kharif ...  | ... | ... | ... | ... | 87         |
| (b) Rabi ...  | ... | ... | ... | ... | 13         |
| Percentage of area cultivated by—                                   |     |     |     |     |            |
| (a) Proprietors ...   | ... | ... | ... | ... | 38         |
| (b) Occupancy tenants ...   | ... | ... | ... | ... | 25         |
| (c) Tenants-at-will ...   | ... | ... | ... | ... | 26         |
| Percentage of cultivated area under mortgage ...                    | ... | ... | ... | ... | 2.6        |
| Average unsecured debt per proprietor ...                           | ... | ... | ... | ... | Rs. 8      |
| Value of—   |     |     |     |     |            |
| (a) Total miscellaneous assets ...                                  | ... | ... | ... | ... | Rs. 68,790 |
| (b) Proprietors' share thereof ...                                  | ... | ... | ... | ... | „ 15,690   |
| Increase per cent. in cultivated area since last Settlement ...     | ... | ... | ... | ... | 32         |
| Ditto population since last Settlement ...                          | ... | ... | ... | ... | 94         |
| Population per square mile of cultivation ...                       | ... | ... | ... | ... | 842        |
| Assessment of last Settlement according to soil rates then fixed... | ... | ... | ... | ... | Rs. 12,548 |
| Present land revenue with incidence of same per acre on—            | ... | ... | ... | ... | „ 4,738    |
| (a) present cultivated area ...                                     | ... | ... | ... | ... | 6 as.      |
| (b) average matured area of the last five years ...                 | ... | ... | ... | ... | 6½ „       |
| Half-assets based on produce estimate ...                           | ... | ... | ... | ... | Rs. 28,471 |
| Ditto cash rent estimate ...  | ... | ... | ... | ... | „ 10,093   |

And below is the table of soil rates:—

|                         | Last Settlement. | Half-assets rate. | As now proposed. |
|-------------------------|------------------|-------------------|------------------|
|                         | Rs. a.           | Rs. a.            | Rs. a.           |
| Abi, i.e., hotar ... .. | 1 12             | 3 15              | 1 12             |
| Bari ... ..             | 2 8              | 5 4               | 2 0              |
| Kund ... ..             | 1 0              | ...               | ...              |
| Maira ... ..            | 0 6              | 1 10              | 0 10             |
| Rakkar ... ..           | ...              | 0 13              | 0 5              |
| Kalsi ... ..            | 2 0              | 1 4               | 0 5              |

As in Boi, Captain Wace's rates on *maira* and *kalsi*, which between them accounted for 56 per cent. of the cultivation, are light enough; and the high rate, Rs. 2-8 for the *bari*, is discounted by the fact that the actual assessment was no less than 63 or 41 per cent. below rates, according as the figures given in the village notes or the Settlement Report are adopted. In his Assessment Report Captain Wace remarks that the assessment of this tract presented great difficulties to him. The previous revenue of Rs. 2,405 was that levied by Kashmir before the tract was, in the year 1847, added to the Hazara District. It had been continued unaltered by Major Abbott, and is described by Captain Wace as "only a song." Nevertheless, he considered the people to be so badly off that they could not stand the revenue being more than doubled and hence he fixed a total much below his rates. It is not easy to realise that what is now one of the most prosperous tracts in the tahsil was 35 years ago one of the poorest, but the fact is that the hill stations and cantonments, which were then only just being started, and the tonga road from Murree to Kashmir, that was constructed at a later date, have wrought a remarkable transformation. The weakness of the circle in Captain Wace's time was attributed to the absence of a *rabi* crop, the indolence and unthriftiness of the proprietors, and the lack of any considerable trade out of the tract. And he remarks, that it was popularly asserted that whenever famine threatened Hazara and the adjacent parts of Kashmir the Bakot tract was the first to break down. Conditions are now much altered. The rice of Nawal and the potatoes of Khan, if not sold in the adjoining stations, are exported to Murree and Rawalpindi. Numbers of villagers find service in the Galis, and the latter and Murree are excellent markets for milch and other produce. The opening of the tonga road has abolished the impressments of coolies for the carriage of the baggage of Kashmir tourists which Captain Wace notes as being a great tax on the people, and the thriving bazaar of Kohala increases the prosperity of the circle. Moreover, the Dhund proprietors and their tenants have learnt ways of thrift and industry, and, where they are not indulging in profitless disputes and litigation, are in decidedly flourishing circumstances. I think it possible that the reports which Captain Wace received of the poverty of a tract which was then so little known may have been somewhat exaggerated, but it must in any case have made great advances since his time, thus contrasting strongly with Boi which has merely stood still. There is undoubtedly room for a large enhancement of revenue, but I do not venture to fix rates as high as the figures, without a consideration of the previous circumstances, would warrant. In itself I should say that the circle was superior to that of Dhaka. The *hotar* certainly is far better, and the other soils and waste are perhaps slightly so. But at Dhaka rates the assessment would be Rs. 10,889, and despite the great extension of cultivation and the general increase in prosperity, I do not think it would be politic to take a larger enhancement. I propose, in short, to fix the new assessment at Rs. 11,000, and I vary the Dhaka rates by putting 8 annas more on *hotar* and 1 anna less on *rakkar* and *kalsi*. *Rakkar*, it may be noted, is somewhat inferior to the *kalsi*, but it is not worth discriminating here. On *dhaka rakh* and *banna* 1 anna per

acre, the same rate as in Dhaka will be imposed. The total thus brought out is Rs. 11,003 or almost exactly the sum which I propose. It is only 39 per cent. of the half-assets and about one-sixteenth of the value of the gross produce, but enhances the previous revenue by 132 per cent. The incidences on the present cultivated area and on the average matured area of the last five years are 14 and 15 annas, respectively. The total suggested is 9 per cent. above the cash rent estimate, but the latter is vitiated by the abnormally low average rent of *hotar*. The *bari* rent of Rs. 3-9 is also perhaps a little too low, in view of the fact that the separate soil rent average is Rs. 4-15. Otherwise the average rents more than justify my rates, and it is only a consideration of the previous assessment that prevents me going higher.

51. It will be convenient here to bring together the figures for each circle and show the results for the whole tahsil :—

| Assessment circle. | Present assessment. | Assessment proposed. | Percentage of half-assets. | Share of gross produce. | Per cent. enhancement of previous revenue. | Incidence per acre on present cultivated area. | Incidence per area on average matured area of the last five years. |
|--------------------|---------------------|----------------------|----------------------------|-------------------------|--|--|--|
|                    | Rs.                 | Rs.                  | Rs.                        |                         |  | Rs. a.   | Rs. a.   |
| Dhangar ... ..     | 14,379              | 21,000               | 58                         | $\frac{1}{3}$           | 46   | 1 3  | 1 2  |
| Rash ... ..        | 12,882              | 28,500               | 41                         | $\frac{1}{2}$           | 121  | 1 7  | 1 6  |
| Tanawal ... ..     | 20,856              | 25,000               | 51                         | $\frac{1}{2}$           | 20   | 0 14   | 0 14   |
| Nara-Lora ... ..   | 13,614              | 18,000               | 55                         | $\frac{1}{6}$           | 32   | 1 4  | 1 4  |
| Dhaka ... ..       | 10,039              | 21,000               | 38                         | $\frac{1}{2}$           | 109  | 0 14   | 0 15   |
| Boi ... ..         | 3,240               | 6,300                | 31                         | $\frac{1}{6}$           | 85   | 0 6  | 0 6 $\frac{1}{2}$  |
| Bakot ... ..       | 4,733               | 11,000               | 39                         | $\frac{1}{6}$           | 132  | 0 14   | 0 15   |
| Total tahsil ...   | 79,743              | 1,30,500             | 45                         | $\frac{1}{11}$          | 64   | 1 0  | 1 0  |

The great divergences in the enhancements proposed in the various circles show how uneven the old assessment was, or, at any rate, under altered circumstances has become. I have tried to equalise matters as far as possible without unduly straining the resources of any circle, but to make it easier for the villages in which a large rise is taken to adjust themselves to the new conditions I would ask permission to defer a portion of the demand not exceeding Rs. 20,000 for a period of three years as in the other two tahsils.

52. A calculation of the surplus resources of the population of the tahsil out of which this revenue can be paid is as follows :—

Surplus produce estimate.

The total weight of food grains, according to the *jinswars* of 1904-05, is 10,09,398 maunds. From this we may deduct 8 per cent. for the abnormal *rabi* of 1905 and the balance is 928,600 maunds. A further deduction of 10 per cent. may be made for seed and for grain given to animals, which leaves about 836,000 maunds for human consumption. Assuming that the annual consumption averages 5 $\frac{1}{2}$  maunds a head, which in view of the quantity of milch produce available is probably not too low, the total amount of grain required for food in the year is about 10,66,000 maunds, and so, if my estimates are correct, 230,000 maunds have to be brought from outside to supplement the local supplies. If we deduct from this 55,000 maunds required by the troops and urban population (7,000 souls at 8 maunds or so a head) we get a balance of 175,000 maunds, which has to be imported for the needs of the rural population. If this is assumed to be maize, the staple food, the cost will be about Rs. 1,30,000. The miscellaneous assets of the tahsil, excluding the income from Government service, amount to about Rs. 5,50,000; therefore the surplus available for payment of the revenue and the purchase of necessities and luxuries will be Rs. 4,20,000. As far, therefore, as the above very rough calculation goes, no difficulty should be experienced in meeting the Government demand.

53. Details of the mills are given in Appendix F. It will be seen that there are 1,415 paying an assessment of Rs. 3,529, or an average of Rs. 2½ each. At last Settlement there were 853 paying Rs. 2,440 or nearly Rs. 3 each. The number has thus risen 66 per cent., and since the amount of grain, as judged by the extension of cultivation, has not increased in anything like the same proportion, it follows that the quantity of grain ground on the average by each mill is less than formerly, though this is more than compensated the rise in prices. The grinding fee is universally one-twentieth of the grain brought to the mill. Appendix F shows that where the mill is worked by tenants a cash rent is usually taken, which is often merely the revenue and cesses; where *batai* is in force the common rate is half. I think, however, it will be safer to assume two-fifths as in Haripur and Mansehra. The value of the Government share may then be deduced as follows:—

Excepting that required for seed or given to animals, and exclusive of rice, which is pounded, nearly all the grain that is produced in the tahsil is brought to the mills for grinding, but little comes in from outside. By the produce estimate the total value of such grain in 1904-05 was about Rs. 1,360,000. From this we may deduct 20 per cent., viz., 10 per cent. for seed and for grain given to animals and 10 per cent. for the abnormal *rabi* and for grain that does not pass through the mills. The balance is Rs. 10,88,000 or, say, 11 lakhs. Of this the average proprietors' share will be  $\frac{1}{20} \times \frac{2}{5}$  or  $\frac{1}{50}$ , i. e., Rs. 22,000. Government's share at half-assets will thus be Rs. 11,000, but in a case of this kind I think we should take more nearly a fourth than a half. A tentative assessment of these mills carried out by Settlement Naib Tahsildars under my instructions brings out a total of Rs. 6,125, and I would propose to fix the amount at about Rs. 6,000. This sum is an enhancement of 70 per cent. on the previous revenue, is equivalent to one-ninth of the total value of the grinding fees, and gives an average per mill of Rs. 4-4 exclusive of cesses. In Haripur the rate is about Rs. 7-7 a mill and in Mansehra Re. 1-10, the assessment in both being between one-seventh and one-eighth of the estimated value of the grinding fees. The average value of the mills in the Abbottabad tahsil is thus about midway between those of Haripur, which are favourably situated in many cases for a large outside trade, and those of Mansehra, which in the main serve local requirements only, and are too numerous to be very profitable. The Abbottabad mills, like those of Mansehra, as a rule only grind for the needs of the immediate locality, but as they are fewer in comparison, a larger average quantity of grain is brought to each, and they work for longer periods of the year. As the total which I propose, however, is only a very rough estimate, and the results of the detailed assessments may point to something rather different, I would ask to be permitted to go as far as Rs. 500 above or below, if I find it expedient.

54 The tax of 1 anna per goat, which has recently been sanctioned, will bring in a further revenue of about Rs. 3,500. If we take the number of goats enumerated in 1904, and assume that all villages will be assessed to this tax, the sums levied in the various circles will be as follows:—

|              |             |     |     |     | Rg.   |
|--------------|-------------|-----|-----|-----|-------|
| Dhangar      | ...         | ... | ... | ... | 265   |
| Rash         | ...         | ... | ... | ... | 137   |
| Tanawal      | ...         | ... | ... | ... | 956   |
| Nilan        | { Nara-Lora | ... | ... | ... | 132   |
| Dhan         |             |     |     |     | 69    |
| Lora         |             |     |     |     | 380   |
| Dhaka        | ...         | ... | ... | ... | 805   |
| Boi          | ...         | ... | ... | ... | 277   |
| Bakot        | ...         | ... | ... | ... | 353   |
| Total Tahsil | ...         | ... | ... | ... | 3,374 |

There may be a few exemptions, but on the other hand a fresh count will probably show an increase in the number, and Rs 3,500 will not be far from the mark.

## CHAPTER X.—MISCELLANEOUS.

55. As this is the third and last Assessment Report of the present Settlement it will be convenient to sum up the results of the re-assessment of the whole district (excluding the *timi* on goats), on the assumption that the present proposals are approved. These results are shown in the following table :—

|                   | PREVIOUS REVENUE. |        |          | NEW REVENUE. |        |          | PER CENT. INCREASE<br>ON PREVIOUS<br>REVENUE |        |        | Incidence of land<br>revenue per acre<br>of cultivation. |
|-------------------|-------------------|--------|----------|--------------|--------|----------|--|--------|--------|--|
|                   | Land.             | Mills. | Total.   | Land.        | Mills. | Total.   | Land.  | Mills. | Total. |  |
|                   | Rs.               | Rs.    | Rs.      | Rs.          | Rs.    | Rs.      |  |        |        |  |
| Haripur ...       | 1,42,853          | 4,411  | 1,47,264 | 2,18,000     | 7,500  | 2,25,500 | 52.5   | 70     | 53     | 1 9  |
| Mansehra ...      | 71,417            | 3,481  | 74,898   | 1,40,000     | 7,000  | 1,47,000 | 96   | 100    | 96     | 1 2  |
| Abbottabad ...    | 79,743            | 3,529  | 83,272   | 1,30,500     | 6,000  | 1,36,500 | 64   | 70     | 64.5   | 1 0  |
| Ttal District ... | 2,94,013          | 11,421 | 3,05,434 | 4,88,500     | 20,500 | 5,09,000 | 66.5   | 79     | 66.5   | 1 3  |

It will be observed that to judge by the incidence on the cultivated area the assessment of the Abbottabad Tahsil is the lightest of all. The fine irrigated land of Haripur explains the relatively heavy incidence in that tahsil, and if it be questioned why the incidence in Mansehra should be heavier than that of Abbottabad, the reply is that the Rash plain, if it rivals that of Pakhli in fertility, does not approach it in area, that the hill soils of Mansehra on the whole excel those of Abbottabad, and that the waste is also superior in extent and quality and in the value of its products.

56. A notification has already issued sanctioning the new scale of cesses for this tahsil. They will amount to Rs. 19-12-8 per cent. on the revenue (or 3 annas 2 pies in the rupee), and will be apportioned as follows :—

|                      | Rs. | a. | p. |
|----------------------|-----|----|----|
| Local rate ... ..    | 8   | 5  | 4  |
| Patwar cesses ... .. | 6   | 7  | 4  |
| Lambardari ... ..    | 5   | 0  | 0  |

Previously they amounted to Rs. 21-10-8. The difference is due to the enhancement of the patwar cess from Rs. 6-4 to Rs. 6-7-4 and the reduction of the local rate in accordance with recent orders from Rs. 10-6-8 to Rs. 8-5-4.

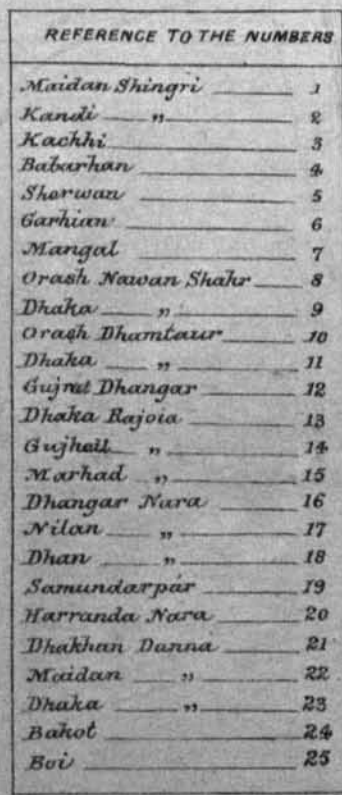
57. The new assessment can be introduced with effect from the *kharif* of 1905. Had the proposal which I recently submitted for the assessment of extensions of cultivation in hill waste every four years been sanctioned, I should have suggested that the term of Settlement both in this and the other two tahsils should be fixed at thirty years, but as this has been vetoed, and it is desirable that too long a time should not elapse before such extensions, which are bound to be considerable, are made to pay revenue, a period of twenty years seems sufficient. The dates for payment of instalments may remain as at present, *viz.*, *kharif*, January 15th, and *rabi*, July 15th.

58. It only remains to note that the points requiring orders are the assessment proposals for land and mills (Chapter IX), the harvests from which the Settlement is to be introduced and the term for which it is to run.

H. D. WATSON,  
Settlement Officer, Hazara.



Scale 1 inch = 4 Miles



*Red Mahomed* *Islandia Steam Press June 15 1865.*

APPENDICES AND STATEMENTS  
RELATING TO THE  
ASSESSMENT REPORT  
OF THE  
ABBOTTABAD TAHSIL  
OF THE  
HAZARA DISTRICT,  
NORTH-WEST FRONTIER PROVINCE.

BY  
H. D. WATSON, ESQUIRE, M.A., C.S.,  
*Settlement Collector, Hazara.*

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## APPENDICES.

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# APPENDIX A (1).

## MONTHLY RAINFALL AT HEADQUARTERS, TAHSIL ABBOTTABAD.

| 1                      | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18         | 19       | 20       | 21       | 22       | 23       | 24                   | 25               | 26                                  |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----------|----------------------|------------------|-------------------------------------|
| MONTH.                 | 1883-84. | 1884-85. | 1885-86. | 1886-87. | 1887-88. | 1888-89. | 1889-90. | 1890-91. | 1891-92. | 1892-93. | 1893-94. | 1894-95. | 1895-96. | 1896-97. | 1897-98. | 1898-99. | 1899-1900. | 1900-01. | 1901-02. | 1902-03. | 1903-04. | 1904-05. | Average of 22 years. | Gazette average. | Average of 15 years ending 1872-73. |
| April ... ..           | 2'30     | 5'60     | 7'10     | 2'40     | 0'81     | 2'00     | 5'30     | 4'26     | 4'16     | 0'17     | 3'44     | 3'61     | 3'65     | 0'78     | 7'55     | 2'02     | 3'33       | 5'39     | 3'29     | 5'27     | 1'52     | 1'07     | 3'41                 | 3'31             | 2'58                                |
| May ... ..             | 1'50     | 0'50     | 6'90     | 3'50     | 0'24     | 1'10     | 2'50     | 0'73     | 3'27     | 0'77     | 5'06     | 1'22     | 0'47     | 1'16     | 2'97     | 3'70     | 1'10       | 2'97     | 6'40     | 2'31     | 5'70     | 1'99     | 2'55                 | 2'39             | 2'26                                |
| June ... ..            | 1'00     | 2'00     | 1'40     | 2'10     | 0'80     | 1'50     | 1'50     | 1'03     | 1'06     | 4'24     | 9'06     | 6'82     | 11'06    | 1'49     | 3'35     | 3'94     | 5'06       | 1'00     | 1'69     | 3'94     | 0'60     | 0'06     | 2'94                 | 3'16             | 5'80                                |
| July ... ..            | 8'30     | 7'50     | 4'50     | 5'10     | 10'00    | 7'40     | 15'00    | 10'59    | 3'71     | 5'53     | 21'19    | 26'03    | 6'65     | 5'23     | 3'36     | 9'82     | 6'51       | 12'11    | 3'94     | 5'37     | 5'00     | 9'21     | 8'73                 | 8'84             | 10'34                               |
| August ... ..          | 6'60     | 17'20    | 9'30     | 9'70     | 15'90    | 7'70     | 5'80     | 10'68    | 12'50    | 15'36    | 4'56     | 7'96     | 7'75     | 5'99     | 13'65    | 9'98     | 6'52       | 5'69     | 10'07    | 7'57     | 6'27     | 10'49    | 9'43                 | 9'00             | 5'90                                |
| September ... ..       | 3'50     | 4'40     | 4'40     | 3'70     | 1'90     | 0'90     | 1'90     | 3'43     | 3'75     | 3'41     | 16'78    | 1'88     | 1'70     | 4'38     | 2'65     | 6'57     | 1'93       | 8'07     | 4'22     | 2'51     | 5'11     | 1'70     | 4'01                 | 3'52             | 3'80                                |
| Total Summer Rains ... | 23'20    | 37'20    | 33'60    | 26'50    | 29'65    | 20'60    | 32'00    | 30'72    | 28'45    | 29'48    | 60'09    | 47'02    | 31'28    | 19'03    | 33'53    | 30'03    | 24'45      | 35'53    | 29'51    | 26'97    | 24'20    | 24'52    | 31'07                | 30'22            | 30'68                               |
| October ... ..         | 0'30     | 1'20     | 0'60     | 1'60     | 1'20     | 1'50     | ...      | 1'21     | 7'61     | 0'76     | 0'88     | 0'08     | 0'57     | 1'60     | 0'32     | ...      | 1'08       | 3'16     | 1'47     | 2'27     | 0'35     | 2'97     | 1'37                 | 1'10             | 1'24                                |
| November ... ..        | 3'80     | 0'60     | ...      | 0'70     | ...      | 2'50     | 0'40     | 3'75     | 0'59     | 1'10     | ...      | 0'06     | 0'14     | 2'14     | ...      | ...      | 0'08       | 0'75     | ...      | 0'51     | 0'36     | 1'66     | 0'90                 | 0'87             | 0'06                                |
| December ... ..        | 0'75     | ...      | 1'60     | 3'30     | 0'70     | 0'70     | 0'70     | 5'19     | 0'07     | 1'39     | 0'75     | 2'04     | ...      | 1'01     | 1'42     | 1'48     | 0'54       | 3'59     | ...      | 0'03     | 1'12     | 2'35     | 1'31                 | 1'60             | 1'76                                |
| January ... ..         | 3'18     | 9'30     | 4'70     | 2'60     | 1'80     | 4'90     | 1'81     | 4'76     | 0'08     | 8'05     | 8'94     | 3'01     | 2'72     | 5'91     | 2'28     | 0'30     | 5'22       | 7'44     | 0'02     | 3'83     | 6'78     | 9'65     | 4'42                 | 3'35             | 3'18                                |
| February ... ..        | 4'20     | 2'20     | 4'60     | 1'30     | 4'30     | 8'40     | 1'55     | 9'45     | 1'63     | 9'69     | 5'22     | 2'73     | 3'25     | 2'81     | 5'71     | 3'27     | 3'89       | 3'39     | 0'09     | 0'67     | 0'72     | 4'11     | 3'60                 | 3'99             | 4'22                                |
| March ... ..           | 5'60     | 2'90     | 0'40     | 3'20     | 1'90     | 1'60     | 2'35     | 4'32     | 1'75     | 3'87     | 6'48     | 8'23     | 3'94     | 6'60     | 3'90     | 1'80     | 3'61       | 5'69     | 4'11     | 7'85     | 5'50     | 7'52     | 4'50                 | 4'03             | 6'46                                |
| Total Winter Rains ... | 17'83    | 16'20    | 17'90    | 12'70    | 9'90     | 19'60    | 6'81     | 28'68    | 11'13    | 20'86    | 22'27    | 16'77    | 10'62    | 20'07    | 13'63    | 6'85     | 14'42      | 24'02    | 5'69     | 15'16    | 14'83    | 28'26    | 16'10                | 14'94            | 16'92                               |
| GRAND TOTAL ...        | 41'03    | 53'40    | 51'50    | 39'20    | 39'55    | 40'20    | 38'81    | 59'40    | 39'58    | 50'34    | 82'36    | 63'79    | 41'90    | 39'10    | 47'16    | 42'88    | 38'87      | 59'55    | 33'20    | 42'13    | 39'03    | 52'78    | 47'17                | 45'16            | 47'60                               |

## APPENDIX A (2).

MONTHLY RAINFALL RECORDED AT DUNGAGALI IN RECENT YEARS DURING THE  
SUMMER MONTHS.

| 1                    | 2        | 3        | 4        | 5        | 6               |
|----------------------|----------|----------|----------|----------|-----------------|
| MONTH                | 1902-03. | 1903-04. | 1904-05. | Average. | REMARKS.        |
| May ... ..           | *        | 5.66     | 2.64     | 2.77     | * Not recorded. |
| June ... ..          | *        | 1.23     | 0.36     | 0.53     |                 |
| July ... ..          | *        | 12.47    | 15.30    | 9.26     |                 |
| August ... ..        | 11.02    | 7.70     | 12.02    | 10.25    |                 |
| September ... ..     | 2.20     | 6.41     | 5.09     | 4.56     |                 |
| October ... ..       | 3.04     | 0.58     | 1.30     | 1.64     |                 |
| Total Six Months ... | ...      | 34.05    | 36.71    | 35.38    |                 |

| 1      | 2           | 3                  | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14                | 15             | 16             |                    |
|--------|-------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|--------------------|
| CROP.  | SOIL.       | ASSESSMENT CIRCLE. | 1900.          |                | 1901.          |                | 1902.          |                | 1903.          |                | 1904.          |                | TOTAL OF 5 YEARS. |                | Yield assumed. |                    |
|        |             |                    | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed.    | Average yield. |                |                    |
| RICE.  | Hotar       | Dhangar            | ...            | ...            | 3'875          | 331            | 2'00           | 618            | ...            | ...            | 1'62           | 328            | 7'495             | 426            | 400            |                    |
|        |             | Rash               | 1'13           | 617            | 2'345          | 512            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 480                |
|        |             | Tanawal            | 1'00           | 575            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 400                |
|        |             | Nilan              | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 440                |
|        |             | Lora               | ...            | ...            | 2'595          | 515            | 1'66           | 349            | 2'58           | 319            | ...            | ...            | ...               | ...            | ...            | 400                |
|        |             | Dhaka              | ...            | ...            | ...            | ...            | 1'34           | 289            | 1'25           | 262            | ...            | ...            | ...               | ...            | ...            | 320                |
|        |             | Boi                | ...            | ...            | 1'77           | 886            | 2'00           | 622            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 440                |
|        |             | Bakot              | 2'22           | 419            | 1'305          | 412            | 1'00           | 640            | 3'27           | 448            | 4'12           | 704            | 11'915            | 525            | 520            |                    |
| MAIZE. | Bagh        | Dhangar            | ...            | ...            | 1'00           | 562            | ...            | ...            | ...            | ...            | ...            | ...            | 1'00              | 562            | 640            |                    |
|        |             | Tanawal            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 640                |
|        | Bari abi    | Dhangar            | ...            | ...            | 96             | 927            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 560                |
|        |             | Nilan              | 1'00           | 348            | ...            | ...            | 1'26           | 794            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 560                |
|        | Other abi   | Tanawal            | ...            | ...            | 2'825          | 283            | 1'28           | 638            | 1'65           | 678            | ...            | ...            | ...               | ...            | ...            | 800                |
|        |             | Rash               | ...            | ...            | 1'613          | 1,020          | 72             | 1,185          | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 800                |
|        | Babardi abi | Rash               | ...            | ...            | ...            | ...            | 1'23           | 1,519          | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 800                |
|        |             | Lora               | 1'052          | 491            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 800                |
|        | Hotar       | Dhangar            | ...            | ...            | 4'35           | 492            | 1'25           | 272            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 600                |
|        |             | Rash               | ...            | ...            | 4'42           | 847            | 2'25           | 396            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 480                |
|        |             | Tanawal            | ...            | ...            | 13'755         | 490            | 63             | 883            | 2'13           | 537            | 6'06           | 564            | 22'575            | 569            | 520            | 520                |
|        |             | Nilan              | ...            | ...            | ...            | ...            | 1'69           | 602            | 1'0            | 250            | ...            | ...            | ...               | ...            | ...            | 560                |
|        | Bari        | Dhan               | ...            | ...            | 1'375          | 727            | ...            | ...            | 1'94           | 435            | 54             | 993            | 3'855             | 718            | 640            | 640                |
|        |             | Lora               | 1'28           | 660            | 10'00          | 637            | 1'79           | 689            | 4'36           | 553            | 1'64           | 533            | 19'07             | 614            | 560            | 560                |
|        |             | Dhaka              | ...            | ...            | 4'190          | 425            | 1'62           | 617            | 3'451          | 778            | 4'89           | 608            | 14'151            | 607            | 560            | 560                |
|        |             | Boi                | ...            | ...            | 3'385          | 578            | 3'64           | 425            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 440                |
|        | Kund        | Bakot              | 1'17           | 626            | 1'48           | 605            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 560                |
|        |             | Lora               | ...            | ...            | 1'44           | 694            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 560                |
|        | Bela        | Dhan               | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | Included in maira. |
|        |             | Rash               | ...            | ...            | ...            | ...            | 2'25           | 1,030          | 1'53           | 1,067          | 4'4            | 735            | 8'18              | 944            | 800            | Included in maira. |
|        | Negar       | Tanawal            | ...            | ...            | 1'00           | 916            | 75             | 376            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 800                |
|        |             | Dhangar            | ...            | ...            | 1'29           | 155            | 5'88           | 193            | 2'85           | 140            | 1'12           | 321            | 11'14             | 202            | 280 I          | 160 II             |
|        |             | Rash               | ...            | ...            | 1'04           | 1,154          | 7'30           | 555            | 3'02           | 991            | 3'84           | 524            | 15'20             | 806            | 560            | 560                |
|        |             | Tanawal            | ...            | ...            | 8'895          | 322            | 94             | 807            | ...            | ...            | 1'74           | 231            | 9'575             | 453            | 240 I          | 260 II             |
|        | Maira       | Nilan              | ...            | ...            | ...            | ...            | 2'7            | 452            | ...            | ...            | ...            | ...            | ...               | ...            | ...            | 360                |
|        |             | Dhan               | ...            | ...            | 1'325          | 302            | ...            | ...            | 1'04           | 466            | 94             | 306            | 3'305             | 358            | 400            | 400                |
|        |             | Lora               | ...            | ...            |                |                |                |                |                |                |                |                |                   |                |                |                    |

# APPENDIX B (1)—CONCLUDED.

| 1              | 2              | 3                     | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14                   | 15             | 16             |
|----------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|----------------|
| CROP.          | SOIL.          | ASSESSMENT<br>CIRCLE. | 1900           |                | 1901.          |                | 1902.          |                | 1903.          |                | 1904.          |                | TOTAL OF<br>5 YEARS. |                | Yield assumed. |
|                |                |                       | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed.       | Average yield. |                |
| SUGAR<br>CANE. | Bagh ...       | Dhangar ...           | ...            | ...            | 1'225          | 518            | ...            | ...            | ...            | ...            | 318            | 1,522          | 1'543                | 1,020          | 960            |
|                | Bahardi abi... | Do. ...               | 1'00           | 1,646          | ...            | ...            | 12             | 500            | ...            | ...            | ...            | ...            | 1'12                 | 1,073          | 720            |
| TUR-<br>MERIC. | Bagh ...       | Dhangar ...           | ...            | ...            | '08            | 1,025          | ...            | ...            | ...            | ...            | ...            | ...            | '08                  | 1,025          | 960            |
|                | Bahardi abi... | Rash ...              | ...            | ...            | '53            | 1,796          | ...            | ...            | ...            | ...            | ...            | ...            | '53                  | 1,796          | 720            |
|                |                | Dhangar ...           | ...            | ...            | ...            | ...            | 125            | 3,696          | ...            | ...            | ...            | ...            | 125                  | 3,696          | 720            |
| POTATOES.      | Bari ...       | Dhan ...              | ...            | ...            | ...            | ...            | 1'33           | 1,504          | ...            | ...            | '21            | 1,905          | 1'54                 | 1,704          | 1,600          |
|                |                | Dhaka ...             | ...            | ...            | ...            | ...            | 2'03           | 2,607          | 1'01           | 2,113          | 1'41           | 3,031          | 4'45                 | 2,584          | 1,800          |
|                |                | Bakot ...             | ...            | ...            | ...            | ...            | '56            | 6,250          | '89            | 4,272          | '77            | 2,857          | 2'22                 | 4,460          | 2,000          |
|                | Maira ...      | Dhan ...              | ...            | ...            | ...            | ...            | ...            | ...            | '22            | 2,455          | ...            | ...            | '22                  | 2,455          | 1,200          |
|                |                | Dhaka ...             | ...            | ...            | ...            | ...            | ...            | ...            | 1'28           | 2,225          | 1'82           | 1,690          | 3'10                 | 1,958          | 1,400          |
|                |                | Bakot ...             | ...            | ...            | ...            | ...            | ...            | ...            | '25            | 2,000          | ...            | ...            | '25                  | 2,000          | 1,600          |
| KULATH.        | Kalsi ...      | Bakot ...             | ...            | ...            | ...            | ...            | ...            | ...            | '49            | 1,469          | ...            | ...            | '49                  | 1,469          | 1,200          |
|                |                | Dhangar ...           | ...            | ...            | ...            | ...            | 1'89           | 150            | 2'75           | 73             | ...            | 1'0            | 130                  | 5'64           | 118            |
|                |                | Nilan ...             | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | '80            | 152            | '80                  | 152            | 120            |
|                | Bakkar ...     | Dhangar ...           | ...            | ...            | ...            | ...            | 1'25           | 132            | 3'16           | 64             | ...            | ...            | 4'41                 | 98             | 80             |
|                |                | Dhaka ...             | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | '87            | 24             | '87                  | 24             | 80             |
|                |                | Bakot ...             | ...            | ...            | ...            | ...            | 1'00           | 68             | ...            | ...            | ...            | ...            | 1'00                 | 68             | 80             |
| KANGNI.        | Kalsi ...      | Lora ...              | ...            | ...            | ...            | ...            | ...            | ...            | '79            | 44             | ...            | ...            | '79                  | 44             | 80             |
|                |                | Boi ...               | ...            | ...            | 3              | 180            | ...            | ...            | ...            | ...            | 5'70           | 69             | 6'00                 | 125            | 80             |
|                |                | Dhangar ...           | ...            | ...            | ...            | ...            | 1'05           | 160            | ...            | ...            | ...            | ...            | 1'05                 | 160            | 120            |
|                | Kalsi ...      | Lora ...              | ...            | ...            | 1'025          | 140            | ...            | ...            | ...            | ...            | ...            | ...            | 1'025                | 140            | 120            |
|                |                | Dhaka ...             | ...            | ...            | '625           | 504            | ...            | ...            | 1'00           | 130            | ...            | ...            | '625                 | 317            | 120            |
|                |                | Boi ...               | ...            | ...            | 1'43           | 273            | ...            | ...            | ...            | ...            | 9'5            | 85             | 10'93                | 179            | 100            |

## APPENDIX B (2).

RABI CROP EXPERIMENTS, TAHSIL ABBOTTABAD (YIELD EXPRESSED IN SERS AND AREAS IN ACRES).

| 1       | 2                | 3                  | 4              | 5              | 6              | 7              | 8              | 9              | 10             | 11             | 12             | 13             | 14                | 15             | 16             |
|---------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|
| CROP.   | SOIL.            | ASSESSMENT CIRCLE. | 1901.          |                | 1902.          |                | 1903.          |                | 1904.          |                | 1905.          |                | TOTAL OF 5 YEARS. |                | Yield assumed. |
|         |                  |                    | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed.    | Average yield. |                |
| WHEAT.  | Bagh ...         | Tanawal ...        | ...            | ...            | 85             | 796            | 1505           | 561            | ...            | ...            | ...            | ...            | 2355              | 679            | 400            |
|         | Bari abi ...     | Dhangar ...        | ...            | ...            | 24             | 800            | ...            | ...            | 130            | 678            | ...            | ...            | 154               | 739            | 400            |
|         | Bari abi ...     | Tanawal ...        | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 54             | 233            | 54                | 233            | 400            |
|         | Bahardi abi ...  | Dhangar ...        | 3337           | 323            | 97             | 351            | 401            | 405            | 112            | 357            | 262            | 588            | 12057             | 405            | 400            |
|         | Bahardi abi ...  | Tanawal ...        | 97             | 474            | 340            | 375            | 275            | 524            | 62             | 255            | ...            | ...            | 5265              | 407            | 400            |
|         | Barangar abi ... | Dhangar ...        | ...            | ...            | ...            | ...            | 47             | 391            | ...            | ...            | ...            | ...            | 47                | 391            | 240            |
|         | Hotar ...        | Rash ...           | 1331           | 107            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1331              | 107            | 400            |
|         | Hotar ...        | Dhangar ...        | 415            | 450            | ...            | ...            | 423            | 574            | 369            | 421            | 336            | 442            | 1543              | 472            | 340            |
|         | Hotar ...        | Rash ...           | 10             | 294            | 162            | 327            | ...            | 125            | 442            | ...            | ...            | ...            | 387               | 354            | 360            |
|         | Hotar ...        | Tanawal ...        | 4337           | 338            | 86             | 290            | 4355           | 573            | 518            | 264            | 88             | 197            | 15612             | 332            | 340            |
|         | Bari ...         | Nilan ...          | ...            | ...            | 137            | 113            | ...            | ...            | 20             | 194            | ...            | ...            | 337               | 154            | 320            |
|         | Bari ...         | Dhan ...           | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 28             | ...            | 111            | 28                | 111            | 260            |
|         | Bari ...         | Lora ...           | 4592           | 239            | 3155           | 311            | ...            | ...            | 23             | 370            | 54             | 506            | 8517              | 357            | 320            |
|         | Bari ...         | Dhaka ...          | 2537           | 379            | 3345           | 296            | 213            | 378            | 136            | 300            | 204            | 246            | 11412             | 320            | 240            |
|         | Bari ...         | Boi ...            | 1258           | 216            | 323            | 398            | 354            | 365            | ...            | ...            | ...            | ...            | 8028              | 316            | 220            |
|         | Bari ...         | Bakot ...          | ...            | ...            | 03             | 333            | 100            | 235            | 170            | 290            | ...            | ...            | 273               | 286            | 280            |
|         | Kund ...         | Rash ...           | 1125           | 167            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1125              | 167            | Included       |
|         | Kund ...         | Lora ...           | 12             | 406            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 12                | 406            | in maira.      |
|         | Bela ...         | Rash ...           | ...            | ...            | 121            | 226            | ...            | ...            | 413            | 643            | ...            | ...            | 534               | 435            | 400            |
|         | Negar ...        | Tanawal ...        | 125            | 511            | ...            | ...            | ...            | ...            | 409            | 310            | 71             | 269            | 605               | 363            | 320            |
|         | Negar ...        | Dhangar ...        | 7043           | 334            | 756            | 163            | 901            | 300            | 48             | 187            | 483            | 163            | 33243             | 229            | 240 I          |
|         | Negar ...        | Dhangar ...        | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | 140 II         |
|         | Negar ...        | Rash ...           | 3656           | 315            | 10940          | 304            | 811            | 469            | 932            | 399            | 1407           | 378            | 46096             | 373            | 320            |
|         | Negar ...        | Tanawal ...        | 100            | 410            | 4015           | 233            | 118            | 357            | 413            | 231            | 275            | 372            | 13075             | 321            | 240 I          |
|         | Negar ...        | Tanawal ...        | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...               | ...            | 160 II         |
|         | Maira ...        | Nilan ...          | ...            | ...            | 2655           | 88             | 99             | 378            | 156            | 278            | ...            | ...            | 5205              | 248            | 240            |
|         | Maira ...        | Dhan ...           | 612            | 225            | 2255           | 151            | 158            | 506            | ...            | ...            | 153            | 48             | 5977              | 239            | 220            |
|         | Maira ...        | Lora ...           | 918            | 170            | 94             | 99             | 232            | 290            | 174            | 287            | 219            | 287            | 8108              | 227            | 240            |
|         | Maira ...        | Dhaka ...          | ...            | ...            | ...            | ...            | 420            | 274            | 62             | 137            | 247            | 286            | 729               | 232            | 200            |
|         | Maira ...        | Boi ...            | ...            | ...            | ...            | ...            | 416            | 134            | ...            | ...            | ...            | ...            | 416               | 134            | 160            |
|         | Maira ...        | Bakot ...          | 006            | 440            | ...            | ...            | 77             | 449            | 262            | 198            | ...            | ...            | 3396              | 362            | 200            |
|         | Maira ...        | Dhangar ...        | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 235            | 333            | 235               | 333            | 120            |
|         | Maira ...        | Rash ...           | 85             | 222            | ...            | ...            | 96             | 596            | ...            | ...            | ...            | ...            | 131               | 409            | 160            |
|         | Maira ...        | Tanawal ...        | ...            | ...            | ...            | ...            | 202            | 219            | 9              | 271            | 169            | 148            | 461               | 213            | 120            |
|         | Maira ...        | Dhan ...           | ...            | ...            | ...            | ...            | ...            | ...            | 79             | 76             | ...            | ...            | 79                | 76             | 120            |
|         | Maira ...        | Lora ...           | ...            | ...            | 775            | 45             | 93             | 129            | ...            | ...            | ...            | ...            | 1705              | 87             | 120            |
|         | Maira ...        | Dhaka ...          | ...            | ...            | ...            | ...            | 88             | 273            | ...            | ...            | ...            | ...            | 88                | 273            | 120            |
|         | Maira ...        | Boi ...            | ...            | ...            | ...            | ...            | 262            | 157            | ...            | ...            | ...            | ...            | 262               | 157            | 120            |
|         | Maira ...        | Rash ...           | 1093           | 143            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1093              | 143            | 160            |
|         | Maira ...        | Tanawal ...        | ...            | ...            | ...            | ...            | 375            | 206            | 10             | 56             | 75             | 79             | 550               | 114            | 120            |
|         | Maira ...        | Nilan ...          | ...            | ...            | ...            | ...            | 94             | 255            | ...            | ...            | ...            | ...            | 94                | 255            | 120            |
|         | Maira ...        | Lora ...           | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 57             | 228            | 57                | 228            | 120            |
|         | Maira ...        | Dhaka ...          | ...            | ...            | 35             | 126            | 29             | 41             | ...            | ...            | ...            | ...            | 64                | 88             | 120            |
|         | Maira ...        | Boi ...            | ...            | ...            | ...            | ...            | 660            | 147            | ...            | ...            | ...            | ...            | 660               | 147            | 120            |
|         | Maira ...        | Bakot ...          | ...            | ...            | ...            | ...            | 100            | 140            | ...            | ...            | ...            | ...            | 100               | 140            | 120            |
| BARLEY. | Bagh ...         | Dhangar ...        | ...            | ...            | 5              | 1176           | ...            | ...            | ...            | ...            | 10             | 540            | 15                | 858            | 440            |
|         | Bagh ...         | Tanawal ...        | ...            | ...            | 1425           | 354            | 275            | 429            | ...            | ...            | ...            | ...            | 1700              | 392            | 440            |
|         | Bari abi ...     | Tanawal ...        | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 72             | 458            | 72                | 458            | 440            |
|         | Bahardi abi ...  | Dhangar ...        | ...            | ...            | 145            | 498            | 156            | 456            | 112            | 229            | ...            | ...            | 413               | 394            | 440            |
|         | Bahardi abi ...  | Tanawal ...        | ...            | ...            | 100            | 293            | 88             | 792            | ...            | ...            | ...            | ...            | 188               | 543            | 440            |
|         | Bahardi abi ...  | Nilan ...          | ...            | ...            | ...            | ...            | ...            | ...            | 61             | 279            | ...            | ...            | 61                | 279            | 360            |
|         | Hotar ...        | Rash ...           | ...            | ...            | ...            | ...            | ...            | ...            | 10             | 488            | ...            | ...            | 10                | 488            | 440            |
|         | Hotar ...        | Nilan ...          | 10             | 351            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 10                | 351            | 400            |
|         | Hotar ...        | Dhangar ...        | 1275           | 368            | ...            | ...            | 72             | 851            | 12             | 558            | 69             | 609            | 3885              | 622            | 400            |
|         | Hotar ...        | Rash ...           | 1206           | 351            | 140            | 212            | 97             | 387            | ...            | ...            | ...            | ...            | 3576              | 317            | 400            |
|         | Hotar ...        | Tanawal ...        | 100            | 517            | ...            | ...            | 5045           | 596            | ...            | ...            | 108            | 395            | 7125              | 503            | 400            |
|         | Hotar ...        | Nilan ...          | ...            | ...            | ...            | ...            | 78             | 331            | ...            | ...            | ...            | ...            | 78                | 331            | 360            |
|         | Bari ...         | Dhan ...           | 2662           | 376            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 2662              | 376            | 300            |
|         | Bari ...         | Lora ...           | 968            | 439            | 53             | 396            | 111            | 572            | 128            | 258            | 218            | 541            | 6068              | 441            | 360            |
|         | Bari ...         | Dhaka ...          | 875            | 410            | 191            | 153            | ...            | ...            | 160            | 365            | 139            | 518            | 5775              | 362            | 280            |
|         | Bari ...         | Boi ...            | 625            | 342            | ...            | ...            | 82             | 382            | ...            | ...            | ...            | ...            | 1445              | 362            | 260            |
|         | Bari ...         | Bakot ...          | ...            | ...            | 102            | 249            | 19             | 305            | 88             | 164            | ...            | ...            | 200               | 239            | 320            |
|         | Kund ...         | Dhangar ...        | 1125           | 195            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1125              | 195            | 280            |
|         | Kund ...         | Rash ...           | 100            | 510            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 100               | 510            | Included       |
|         | Bela ...         | Dhan ...           | ...            | ...            | 75             | 160            | ...            | ...            | ...            | ...            | ...            | ...            | 75                | 160            | in maira.      |
|         | Bela ...         | Rash ...           | ...            | ...            | ...            | ...            | 93             | 387            | ...            | ...            | ...            | ...            | 93                | 387            | 440            |

## APPENDIX B (2)—CONCLUDED.

| 1         | 2           | 3                     | 4              | 5              | 6              | 7              | 8.             | 9              | 10             | 11             | 12             | 13             | 14                   | 15             | 16              |
|-----------|-------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|-----------------|
| CROP.     | SOIL.       | ASSESSMENT<br>CIRCLE. | 1901.          |                | 1902.          |                | 1903.          |                | 1904.          |                | 1905.          |                | TOTAL OF<br>5 YEARS. |                | Yield assumed   |
|           |             |                       | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed. | Average yield. | Area observed.       | Average yield. |                 |
| BARLEY.   | Negar ...   | Tanawal ...           | 66             | 688            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 60                   | 688            | 380             |
|           |             | Dhangar ...           | 3'00           | 460            | 1'00           | 251            | ...            | ...            | 1'74           | 273            | 1'00           | 241            | 6'74                 | 306            | 280 I<br>180 II |
|           | Maira ...   | Rash ...              | 1'643          | 237            | 2              | 615            | 3'625          | 564            | 1'0            | 408            | 3'12           | 359            | 8'988                | 437            | 360             |
|           |             | Tanawal ...           | 1'00           | 574            | ...            | ...            | 4'40           | 609            | 1'85           | 190            | 1'84           | 448            | 9'09                 | 455            | 200 I<br>300 II |
|           | Rakkar ...  | Nilan ...             | ...            | ...            | ...            | ...            | 1'00           | 560            | ...            | ...            | ...            | ...            | 1'00                 | 560            | 280             |
|           |             | Dhan ...              | ...            | ...            | ...            | ...            | 1'75           | 91             | ...            | ...            | ...            | ...            | 1'75                 | 91             | 260             |
|           |             | Lora ...              | 1'231          | 328            | 94             | 112            | 5              | 732            | ...            | ...            | 38             | 300            | 3'051                | 868            | 280             |
|           |             | Dhaka ...             | ...            | ...            | ...            | ...            | ...            | ...            | 31             | 290            | ...            | ...            | 31                   | 290            | 240             |
|           |             | Boi ...               | 1'193          | 264            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1'193                | 264            | 200             |
|           | Kalsi ...   | Rash ...              | 5'506          | 104            | ...            | ...            | 1'00           | 313            | ...            | ...            | ...            | ...            | 6'506                | 209            | 200             |
|           |             | Tanawal ...           | ...            | ...            | ...            | ...            | 1'25           | 218            | 75             | 120            | 62             | 176            | 2'62                 | 171            | 160             |
|           |             | Lora ...              | ...            | ...            | ...            | ...            | 75             | 131            | ...            | ...            | 39             | 218            | 1'14                 | 175            | 160             |
|           | Bakot ...   | Rash ...              | 1'593          | 99             | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1'593                | 99             | 200             |
|           |             | Tanawal ...           | ...            | ...            | ...            | ...            | 3'87           | 273            | ...            | ...            | 86             | 172            | 4'73                 | 223            | 160             |
|           |             | Lora ...              | 625            | 81             | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 625                  | 81             | 160             |
|           | Bari ...    | Bakot ...             | ...            | ...            | ...            | ...            | 1'00           | 210            | ...            | ...            | ...            | ...            | 1'00                 | 210            | 160             |
| SARSHAF.  |             | Dhangar ...           | 1'00           | 415            | ...            | ...            | ...            | ...            | ...            | ...            | 1'02           | 347            | 2'02                 | 381            | 200             |
|           |             | Rash ...              | ...            | ...            | ...            | ...            | 1'00           | 224            | ...            | ...            | ...            | ...            | 1'00                 | 224            | 200             |
|           |             | Tanawal ...           | ...            | ...            | ...            | ...            | ...            | ...            | ...            | ...            | 1'13           | 200            | 1'13                 | 200            | 200             |
|           |             | Lora ...              | ...            | ...            | ...            | ...            | 1'79           | 347            | ...            | ...            | ...            | ...            | 1'79                 | 347            | 160             |
|           |             | Boi ...               | ...            | ...            | ...            | ...            | 1'16           | 171            | ...            | ...            | ...            | ...            | 1'16                 | 171            | 160             |
| Maira ... | Dhangar ... | ...                   | ...            | ...            | ...            | 1'63           | 102            | ...            | ...            | ...            | ...            | 1'63           | 102                  | 120 I<br>80 II |                 |
|           | Nilan ...   | ...                   | ...            | ...            | ...            | 79             | 157            | ...            | ...            | ...            | ...            | 79             | 157                  | 120            |                 |
| MASAR     | Maira ...   | Rash ...              | ...            | ...            | 3'97           | 372            | 1'51           | 181            | ...            | ...            | ...            | ...            | 5'48                 | 282            | 160             |

## APPENDIX C.

SHOWING PROPRIETARY HOLDINGS IN VILLAGES IN WHICH 50 PER CENT OR MORE OF THE CULTIVATED AREA IS KHUDKASHT.

| Assessment Circle.     | Number of villages. | Number of proprietors. | CULTIVATED AREA. |  |                                  | CULTIVATED AREA PER PROPRIETOR. |   |
|------------------------|---------------------|------------------------|------------------|--|----------------------------------|---------------------------------|---|
|                        |                     |                        | Total.           | Percentage of total cultivated area of circle. | Cultivated by occupancy tenants. | Total.                          | After deducting area held by occupancy tenants. |
|                        |                     |                        | Acre.            | Acre.  | Acre.                            | Acre.                           | Acre.   |
| Dhangar ... ..         | 17                  | 2,639                  | 9,845            | 56   | 987                              | 3.7                             | 3.4   |
| Rasn ... ..            | 12                  | 3,080                  | 12,431           | 63   | 885                              | 4                               | 3.7   |
| Tanawal ... ..         | 113                 | 7,456                  | 21,997           | 78   | 2,634                            | 2.95                            | 2.59  |
| Nilan ... ..           | 17                  | 653                    | 1,836            | 42   | 550                              | 2.8                             | 2   |
| Dhan ... ..            | 4                   | 572                    | 1,443            | 41   | 130                              | 2.5                             | 2.3   |
| Lora ... ..            | 6                   | 416                    | 1,092            | 17   | 311                              | 2.6                             | 1.88  |
| Total Nara Lora ... .. | 27                  | 1,641                  | 4,371            | 31   | 991                              | 2.7                             | 2   |
| Dhaka ... ..           | 39                  | 5,994                  | 17,494           | 74   | 1,293                            | 2.9                             | 2.7   |
| Boi ... ..             | 24                  | 3,630                  | 15,073           | 94   | 277                              | 4.2                             | 4.1   |
| Bakot ... ..           | 9                   | 1,745                  | 4,920            | 39   | 414                              | 2.8                             | 2.6   |
| Total Tahsil ...       | 241                 | 26,185                 | 86,131           | 65   | 7,481                            | 3.3                             | 3   |

# APPENDIX D.

SHOWING CALCULATION OF GENERAL RISE IN PRICES, TAHSIL ABBOTTABAD.

| 1              | 2                                 | 3                                 | 4             | 5                                       | 6              | 7                                       | 8                               | 9                                | 10                               | 11                               |
|----------------|-----------------------------------|-----------------------------------|---------------|---|----------------|---|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Grain.         | Percentage of total matured area. | Average yield in maunds per acre. | Actual price. | Columns 2, 3 and 4 multiplied together. | Assumed price. | Columns 2, 3 and 6 multiplied together. | Rise per cent. in actual price. | Rise per cent. in assumed price. | Column 8 multiplied by column 5. | Column 9 multiplied by column 7. |
| Maize ... ..   | 50                                | 9 $\frac{1}{4}$                   | 32            | 15,600                                  | 21             | 10,237                                  | 78                              | 75                               | 12,16,800                        | 7,67,812                         |
| Wheat ... ..   | 18                                | 6                                 | 38            | 4,104                                   | 29             | 3,132                                   | 73                              | 93                               | 2,99,592                         | 2,91,276                         |
| Barley ... ..  | 11                                | 7                                 | 25            | 1,925                                   | 18             | 1,386                                   | 108                             | 80                               | 2,07,900                         | 1,10,880                         |
| Rice ... ..    | 2                                 | 11                                | 29            | 638                                     | 21             | 462                                     | 53                              | 40                               | 33,814                           | 18,480                           |
| Sarshaf ... .. | 2                                 | 3 $\frac{1}{2}$                   | 55            | 385                                     | 40             | 280                                     | 62                              | 100                              | 23,870                           | 28,000                           |
| Total ... ..   | 83                                | ...                               | ...           | 22,652                                  | ...            | 15,497                                  | 79                              | 78                               | 17,81,976                        | 12,16,448                        |

## PRODUCE ESTIMATE OF THE ABBOTTABAD TAHSIL

| 1                  | 2                                      | 3  | 4                          | 5                            | 6                              | 7                                    | 8                        | 9                         |
|--------------------|--|--|----------------------------|------------------------------|--------------------------------|--------------------------------------|--------------------------|---------------------------|
| ASSESSMENT CIRCLE. | Soil with area in acres.               | DETAIL.  | CROPS WITH COMMUTATION     |                              |                                |                                      |                          |                           |
|                    |  |  | Turmeric (112).            | Sugarcane (71).              | Rice (21).                     | Maize (21).                          | Kangni (27).             | Other cereals.            |
| DHANGAR.           | Bagh (251).                            | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 34<br>24<br>816<br>5,712-0 | 52<br>24<br>1,248<br>5,538-0 | 10<br>12<br>120<br>157-8       | 173<br>16<br>2,768<br>3,633-0        | ...<br>...<br>...<br>... | 1<br>10.0<br>...<br>10.0  |
|                    | Bari abi, hotar, bahardi, abi (1,061). | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 18<br>18<br>324<br>2,268-0 | 23<br>18<br>414<br>1,837-2   | 132<br>10<br>1,320<br>1,732-8  | 343<br>14<br>4,802<br>6,302-10       | ...<br>...<br>...<br>... | 3<br>10.0<br>...<br>30.0  |
|                    | Barangar and ghareera, abi (389).      | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 1<br>12<br>12<br>84-0      | 1<br>12<br>12<br>53-4        | 77<br>8<br>616<br>808-8        | 61<br>9<br>549<br>720-9              | ...<br>...<br>...<br>... | ...<br>...<br>...<br>...  |
|                    | Bari (2,053).                          | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 1,398<br>12<br>16,776<br>22,018-8    | 4<br>4<br>16<br>27.0     | 12<br>8.0<br>...<br>96.0  |
|                    | Kund, maira I (7,005).                 | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 2,068<br>7<br>14,476<br>18,999-12    | 5<br>3<br>15<br>25.5     | 44<br>6.0<br>...<br>264.0 |
|                    | Maira II (3,620).                      | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 478<br>4<br>1,912<br>2,509-8         | 8<br>2<br>12<br>20.4     | 14<br>4.0<br>...<br>56.0  |
|                    | Rakkar and kalsi (3,298).              | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 522<br>3<br>1,566<br>2,055-6         | 20<br>2<br>40<br>67.8    | 3<br>4.0<br>...<br>12.0   |
|                    | Total Circle                           | ...  | 8,064-0                    | 7,428-6                      | 2,698-8                        | 56,239-5                             | 140.1                    | 468.0                     |
|                    | Hotar (305).                           | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | 149<br>12<br>1,788<br>2,346-12 | 133<br>20<br>2,660<br>4,488-12       | ...<br>...<br>...<br>... | ...<br>...<br>...<br>...  |
|                    | Other abi (621).                       | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 1<br>18<br>18<br>126.0     | 1<br>18<br>18<br>79-14       | 37<br>12<br>444<br>582-12      | 342<br>20<br>6,840<br>8,977-8        | ...<br>...<br>...<br>... | ...<br>...<br>...<br>...  |
| RAEH.              | Bari (2,056).                          | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 1,878<br>17<br>31,926<br>41,902-14   | 1<br>4<br>4<br>6.12      | ...<br>...<br>...<br>...  |
|                    | Bela (1,901).                          | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 1,736<br>20<br>34,720<br>45,570-0    | ...<br>...<br>...<br>... | ...<br>...<br>...<br>...  |
|                    | Kund and maira (11,646).               | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | ...<br>...<br>...<br>...   | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...       | 5,570<br>14<br>77,980<br>1,02,348-12 | 8<br>3<br>24<br>40.8     | ...<br>...<br>...<br>...  |
|                    |  |  |                            |                              |                                |                                      |                          |                           |

E.

BASED ON JINSWARS FOR THE YEAR 1904-05.

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|----|----|----|----|----|----|----|----|----|
|----|----|----|----|----|----|----|----|----|

PRICES IN ANNAS PER MAUND.

Kharif.

| Mung, maah (30). | Moth (26). | Kulath (16). | Other pulses. | Cotton (53). | Potatoes (16). | Forder. | Others. | Total Kharif. |
|------------------|------------|--------------|---------------|--------------|----------------|---------|---------|---------------|
| 4                | 4          | ...          | 5             | ...          | ...            | ...     | 5       | 288           |
| 5                | 5          | ...          | 5             | ...          | ...            | ...     | 30      | ...           |
| 20               | 20         | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 37-8             | 32-8       | ...          | 25-0          | ...          | ...            | ...     | 150-0   | 15,295-0      |
| 7                | 5          | 15           | 38            | ...          | ...            | ...     | 2       | 586           |
| 5                | 5          | 5            | 5-0           | ...          | ...            | ...     | 10-0    | ...           |
| 35               | 25         | 75           | ...           | ...          | ...            | ...     | ...     | ...           |
| 65-10            | 40-10      | 75-0         | 190-0         | ...          | ...            | ...     | 20-0    | 12,562-0      |
| 5                | 5          | 30           | 64            | ...          | ...            | ...     | ...     | 244           |
| 4                | 4          | 4            | 4-0           | ...          | ...            | ...     | ...     | ...           |
| 20               | 20         | 120          | ...           | ...          | ...            | ...     | ...     | ...           |
| 37-8             | 32-8       | 120-0        | 256-0         | ...          | ...            | ...     | ...     | 2,112-0       |
| 15               | 17         | 22           | 4             | 3            | 1              | ...     | ...     | 1,476         |
| 4                | 4          | 4            | 4-0           | 3            | 30             | ...     | ...     | ...           |
| 60               | 68         | 88           | ...           | 9            | 30             | ...     | ...     | ...           |
| 112-8            | 110-8      | 88-0         | 16-0          | 29-13        | 30-0           | ...     | ...     | 22,528-0      |
| 137              | 321        | 650          | 53            | 3            | ...            | ...     | ...     | 3,281         |
| 3                | 3          | 3            | 3-0           | 3            | ...            | ...     | ...     | ...           |
| 411              | 963        | 1,950        | ...           | 9            | ...            | ...     | ...     | ...           |
| 770-10           | 1,564-14   | 1,950-0      | 159-0         | 29-13        | ...            | ...     | ...     | 23,763-0      |
| 23               | 184        | 457          | 25            | ...          | ...            | ...     | 2       | 1,189         |
| 2½               | 2½         | 2½           | 2-0           | ...          | ...            | ...     | 4-0     | ...           |
| 57½              | 460        | 1,142½       | ...           | ...          | ...            | ...     | ...     | ...           |
| 107-13           | 747-8      | 1,142-8      | 50-0          | ...          | ...            | ...     | 8-0     | 4,642-0       |
| 63               | 139        | 789          | 39            | ...          | 2              | ...     | 5       | 1,582         |
| 2                | 2          | 2            | 2-0           | ...          | 20             | ...     | 4-0     | ...           |
| 126              | 278        | 1,578        | ...           | ...          | 40             | ...     | ...     | ...           |
| 236-4            | 451-12     | 1,578-0      | 78-0          | ...          | 40-0           | ...     | 20-0    | 4,539-0       |
| 1,367-13         | 2,980-4    | 4,953-8      | 774-0         | 59-10        | 70-0           | ...     | 198-0   | 85,441-0      |
| 3                | ...        | ...          | ...           | ...          | ...            | ...     | 1       | 286           |
| 5                | ...        | ...          | ...           | ...          | ...            | ...     | 10-0    | ...           |
| 15               | ...        | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 28-2             | ...        | ...          | ...           | ...          | ...            | ...     | 10-0    | 6,873-0       |
| 7                | ...        | ...          | 4             | ...          | ...            | ...     | 43      | 435           |
| 5                | ...        | ...          | 5-0           | ...          | ...            | ...     | 20-0    | ...           |
| 35               | ...        | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 65-10            | ...        | ...          | 20-0          | ...          | ...            | ...     | 860-0   | 10,712-0      |
| 15               | ...        | ...          | 11            | ...          | 1              | 5       | 11      | 1,922         |
| 5                | ...        | ...          | 5-0           | ...          | 40             | 10-0    | 10-0    | ...           |
| 75               | ...        | ...          | ...           | ...          | 40             | ...     | ...     | ...           |
| 140-10           | ...        | ...          | 55-0          | ...          | 40-0           | 50-0    | 110-0   | 42,305-0      |
| 66               | ...        | ...          | 31            | ...          | ...            | 1       | 4       | 1,838         |
| 5                | ...        | ...          | 5-0           | ...          | ...            | 10-0    | 10-0    | ...           |
| 330              | ...        | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 618-12           | ...        | ...          | 155-0         | ...          | ...            | 10-0    | 40-0    | 46,394-0      |
| 770              | 15         | 143          | 182           | 3            | 1              | 8       | 10      | 6,710         |
| 4                | 4          | 4            | 4-0           | 3            | 30             | 5-0     | 5-0     | ...           |
| 3,080            | 60         | 572          | ...           | ...          | 30             | ...     | ...     | ...           |
| 5,775-0          | 97-8       | 572-0        | 728-0         | 29-13        | 30-0           | 40-0    | 50-0    | 1,09,711-0    |

## PRODUCE ESTIMATE OF THE ABBOTTABAD TAHSIL

| 1                  | 2                                     | 3  | 10   | 20                             | 21                           | 22                           | 23                         | 24                              |
|--------------------|---------------------------------------|--|--|--------------------------------|------------------------------|------------------------------|----------------------------|---------------------------------|
| ASSESSMENT CIRCLE. | Soil with area in acres.              | DETAIL.  | CROPS WITH COMMUTATION PRICES IN ANNAS PER MAUND—conold. |                                |                              |                              |                            |                                 |
|                    |                                       |  | Rabi.  |                                |                              |                              |                            |                                 |
|                    |                                       |  | Wheat (29).  | Barley (18).                   | Sarshaf (40).                | Pulses.                      | Others.                    | Total Rabi.                     |
| DHANGAR.           | Bagh (251).                           | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 90<br>10<br>900<br>1,631-4                               | 27<br>11<br>297<br>334-2       | 3<br>5<br>15<br>37-8         | 1<br>4<br>4<br>7-0           | 12<br>30-0<br>...<br>360-0 | 133<br>...<br>...<br>2,370-0    |
|                    | Bari abi, hotar, bahardi abi (1,061). | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 507<br>10<br>5,070<br>9,189-6                            | 114<br>11<br>1,254<br>1,410-12 | 4<br>5<br>20<br>50-0         | ...<br>...<br>...<br>...     | 1<br>10-0<br>...<br>10-0   | 626<br>...<br>...<br>10,660-0   |
|                    | Barangar and ghareera abi (389).      | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 184<br>6<br>1,104<br>2,001-0                             | 30<br>7<br>210<br>236-4        | ...<br>...<br>...<br>...     | 2<br>3<br>6<br>10-8          | ...<br>...<br>...<br>...   | 216<br>...<br>...<br>2,248-0    |
|                    | Bari (2,053).                         | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 800<br>8½<br>6,800<br>12,325-0                           | 615<br>10<br>6,150<br>6,918-12 | 344<br>5<br>1,720<br>4,300-0 | 7<br>4<br>28<br>49-0         | ...<br>...<br>...<br>...   | 1,768<br>...<br>...<br>23,593-0 |
|                    | Kund, msara I (7,005).                | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 3,133<br>6<br>18,798<br>34,071-6                         | 932<br>7<br>6,524<br>7,339-8   | 650<br>3<br>1,950<br>4,875-0 | 21<br>3<br>63<br>110-4       | ...<br>...<br>...<br>...   | 4,736<br>...<br>...<br>46,896-0 |
|                    | Maira II (3,520).                     | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 1,773<br>3½<br>6,205½<br>11,247-7½                       | 435<br>4½<br>1,957½<br>2,202-3 | 78<br>2<br>156<br>390-0      | 6<br>2<br>12<br>21-0         | 4<br>4-0<br>...<br>16-0    | 2,296<br>...<br>...<br>13,876-0 |
|                    | Rakkar and kalsi (3,296).             | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 753<br>3<br>2,259<br>4,094-0                             | 379<br>4<br>1,516<br>1,705-8   | 89<br>2<br>178<br>445-0      | 2<br>2<br>4<br>7-0           | ...<br>...<br>...<br>...   | 1,223<br>...<br>...<br>6,252-0  |
|                    | Total Circle                          | ...  | 74,559-14½   | 20,147-1                       | 10,097-8                     | 204-12                       | 386-0                      | 105,395-0                       |
|                    | Hotar (305).                          | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 25<br>10<br>250<br>453-2                                 | 9<br>11<br>99<br>111-6         | 1<br>5<br>5<br>12-8          | ...<br>...<br>...<br>...     | ...<br>...<br>...<br>...   | 35<br>...<br>...<br>577-0       |
|                    | Other abi (691).                      | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 154<br>10<br>1,540<br>2,791-4                            | 28<br>11<br>308<br>346-8       | 1<br>5<br>5<br>12-8          | 6<br>5<br>30<br>52-8         | 37<br>20-0<br>...<br>740-0 | 226<br>...<br>...<br>3,943-0    |
| RAHE.              | Bari (2,056).                         | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 534<br>9<br>4,806<br>8,710-14                            | 365<br>10<br>3,650<br>4,106-4  | 441<br>5<br>2,205<br>5,512-8 | 12<br>5<br>60<br>105-0       | 4<br>10-0<br>...<br>40-0   | 1,356<br>...<br>...<br>18,474-0 |
|                    | Bela (1,901).                         | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 306<br>10<br>3,060<br>5,546-4                            | 18<br>11<br>198<br>222-12      | 10<br>5<br>50<br>125-0       | 16<br>5<br>80<br>140-0       | 1<br>10<br>...<br>10-0     | 351<br>...<br>...<br>6,044-0    |
|                    | Kund and msara (11,646).              | Area ... ..<br>Yield per acre ... ..<br>Total yield ... ..<br>Value of total produce in rupees | 4,899<br>8<br>35,192<br>63,785-8                         | 657<br>9<br>5,913<br>6,652-2   | 387<br>4<br>1,548<br>3,870-0 | 420<br>4<br>1,680<br>2,940-0 | 3<br>5-0<br>...<br>15-0    | 5,806<br>...<br>...<br>77,263-0 |
|                    |                                       |  |  |                                |                              |                              |                            |                                 |

E.

BASED ON JINSWARS FOR THE YEAR 1904-05.

| 25                     | 26                                   | 27                  | 28  | 29                   | 30                   | 31              | 32   | 33         | 34         | 35                    |
|------------------------|--------------------------------------|---------------------|---|----------------------|----------------------|-----------------|--|------------|------------|-----------------------|
| Total Kharif and Rabi. | After deduction 7 per cent. kamiana. | Landlord's share.   | Government share, viz., half previous column. | Resulting crop rate. | Resulting soil rate. | Cash rent rate. | AFTER DEDUCTION FOR<br>MATURED AREA<br>BEING ABOVE<br>AVERAGE. |            |            | REMARKS.              |
|                        |                                      |                     |   |                      |                      |                 | Government share.  | Crop rate. | Soil rate. |                       |
| 421                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 17,085-0               | 16,428                               | 8,214 <sup>1</sup>  | 4,107   | 9-12                 | 16-6                 | 7-4             | ...  | ...        | ...        |                       |
| 1,212                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 23,222-0               | 21,596                               | 10,798 <sup>1</sup> | 5,399   | 4-7                  | 5-1                  | 3-12            | ...  | ...        | ...        |                       |
| 460                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 4,360-0                | 4,055                                | 1,622 <sup>2</sup>  | 811   | 1-12                 | 2-1                  | 1-8             | ...  | ...        | ...        |                       |
| 8,242                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 46,121-0               | 42,893                               | 21,446 <sup>1</sup> | 10,723  | 8-5                  | 5-4                  | 1-12            | 9,865  | 3-1        | 4-13       | Deduction 8 per cent. |
| 8,017                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 70,159-0               | 65,248                               | 26,099 <sup>2</sup> | 13,050  | 1-10                 | 1-14                 | ...             | 12,006   | 1-8        | 1-11       | Deduction 8 per cent. |
| 3,485                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 18,518-0               | 17,222                               | 5,741 <sup>1</sup>  | 2,870   | 0-13                 | 0-13                 | ...             | 2,640  | 0-12       | 0-12       | Deduction 8 per cent. |
| 2,805                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 10,791-0               | 10,036                               | 3,345 <sup>1</sup>  | 1,673   | 0-10                 | 0-8                  | ...             | 1,539  | 0-9        | 0-7        | Deduction 8 per cent. |
| 190,836-0              | 177,478                              | 77,265              | 38,633  | ...                  | ...                  | ...             | 36,367   | ...        | ...        |                       |
| 321                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 7,450-0                | 6,929                                | 3,464 <sup>1</sup>  | 1,732   | 5-6                  | 5-11                 | ...             | ...  | ...        | ...        |                       |
| 661                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 14,655-0               | 13,629                               | 6,814               | 3,407   | 5-2                  | 4-15                 | 1-10            | ...  | ...        | ...        |                       |
| 3,278                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 60,779-0               | 56,525                               | 28,262 <sup>1</sup> | 14,131  | 4-5                  | 6-14                 | 2-6             | ...  | ...        | ...        |                       |
| 2,169                  | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 52,438-0               | 48,767                               | 24,384 <sup>1</sup> | 12,192  | 5-9                  | 6-7                  | 1-12            | ...  | ...        | ...        |                       |
| 12,576                 | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| ...                    | ...                                  | ...                 | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                       |
| 1,86,974-0             | 1,73,886                             | 69,554 <sup>2</sup> | 34,777  | 2-12                 | 3-0                  | 1-2             | ...  | ...        | ...        |                       |

| 1                    | 2                                     | 3                                | 4                      | 5               | 6          | 7           | 8            | 9              |
|----------------------|---------------------------------------|----------------------------------|------------------------|-----------------|------------|-------------|--------------|----------------|
| ASSESSMENT CIRCLE.   | Soil with area in acres.              | DETAIL.                          | CROPS WITH COMMUTATION |                 |            |             |              |                |
|                      |                                       |                                  | Turnerie (112).        | Sugarcane (71). | Rice (21). | Maize (21). | Kangri (27). | Other cereals. |
| RASH--conold.        | Rakkar and<br>kalsi (3,044).          | Area ... ..                      | ...                    | ...             | ...        | 1,357       | 8            | ...            |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 5           | 3            | ...            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 6,785       | 24           | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 8,905.5     | 40.8         | ...            |
| TANAWAL.             | Total Circle ...                      |                                  | 126.0                  | 79.14           | 2,929.8    | 2,12,193.3  | 87.12        | ...            |
|                      | Bagh<br>(150).                        | Area ... ..                      | 14                     | 1               | 1          | 180         | ...          | ...            |
|                      |                                       | Yield per acre ... ..            | 24                     | 24              | 10         | 16          | ...          | ...            |
|                      |                                       | Total yield ... ..               | 336                    | 24              | 10         | 2,880       | ...          | ...            |
|                      |                                       | Value of total produce in rupees | 2,352.0                | 106.8           | 13.2       | 3,780.0     | ..           | ...            |
|                      | Other<br>abi<br>(753).                | Area ... ..                      | ...                    | ...             | 81         | 365         | ...          | 5              |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | 10         | 14          | ...          | 10.0           |
|                      |                                       | Total yield ... ..               | ...                    | ...             | 810        | 5,110       | ...          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | 1,063.2    | 6,706.14    | ...          | 50.0           |
|                      | Bari<br>(3,880).                      | Area ... ..                      | ...                    | ...             | ...        | 3,020       | 7            | 54             |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 13          | 4            | 8.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 39,260      | 28           | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 51,528.12   | 47.4         | 432.0          |
|                      | Kund or<br>negar<br>(453).            | Area ... ..                      | ...                    | ...             | ...        | 311         | 2            | ...            |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 13          | 4            | ...            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 4,043       | 8            | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 5,306.7     | 13.8         | ...            |
|                      | Other<br>kund,<br>mairs I<br>(3,240). | Area ... ..                      | ...                    | ...             | ...        | 2,217       | 31           | 78             |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 9           | 3            | 6.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 19,953      | 93           | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 26,188.5    | 156.15       | 468.0          |
|                      | Mairs II<br>(5,482).                  | Area ... ..                      | ...                    | ...             | ...        | 977         | 28           | 58             |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 6           | 3            | 4.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 5,862       | 84           | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 7,693.14    | 141.42       | 232.0          |
|                      | Rakkar<br>(7,254).                    | Area ... ..                      | ...                    | ...             | ...        | 1,509       | 96           | 64             |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 5           | 3            | 4.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 7,545       | 288          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 9,902.13    | 486.0        | 256.0          |
|                      | Kalsi (5,940).                        | Area ... ..                      | ...                    | ...             | ...        | 1,898       | 139          | 64             |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 4           | 3            | 4.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 6,792       | 417          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 8,914.8     | 703.11       | 256.0          |
|                      | Total Circle ...                      |                                  | 2,352.0                | 106.8           | 1,076.4    | 1,20,021.9  | 1,549.2      | 1,694.0        |
| NARA LORA (u) NILAN. | Hotar (79).                           | Area ... ..                      | ...                    | ...             | 52         | 18          | ...          | 1              |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | 11         | 15          | ...          | 6.0            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | 572        | 270         | ...          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | 750.12     | 354.6       | ...          | 6.0            |
|                      | Other abi<br>(139).                   | Area ... ..                      | ...                    | ...             | 34         | 109         | ...          | ...            |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | 11         | 15          | ...          | ...            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | 374        | 1,635       | ...          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | 499.14     | 2,145.15    | ...          | ...            |
|                      | Bari (900).                           | Area ... ..                      | ...                    | ...             | ...        | 812         | ...          | ...            |
|                      |                                       | Yield per acre ... ..            | ...                    | ...             | ...        | 14          | ...          | ...            |
|                      |                                       | Total yield ... ..               | ...                    | ...             | ...        | 11,368      | ...          | ...            |
|                      |                                       | Value of total produce in rupees | ...                    | ...             | ...        | 14,920.8    | ...          | ...            |

E—continued.

| 10                         | 11         | 12           | 13            | 14           | 15             | 16      | 17      | 18            |
|----------------------------|------------|--------------|---------------|--------------|----------------|---------|---------|---------------|
| PRICES IN ANNAS PER MAUND. |            |              |               |              |                |         |         |               |
| Kharif.                    |            |              |               |              |                |         |         |               |
| Mung, mash (30).           | Moth (26). | Kulath (16). | Other pulses. | Cotton (53). | Potatoes (16). | Fodder. | Others. | Total Kharif. |
| 104                        | 23         | 274          | . 68          | 1            | ...            | 5       | ...     | 1,840         |
| 3                          | 3          | 3            | 3-0           | 2            | ...            | 5-0     | ...     | ...           |
| 312                        | 69         | 822          | ...           | 2            | ...            | ...     | ...     | ...           |
| 585-0                      | 112-2      | 822-0        | 204-0         | 6-10         | ...            | 25-0    | ...     | 10,701-0      |
| 7,213-2                    | 209-10     | 1,394-0      | 1,163-0       | 36-7         | 70-0           | 125-0   | 1,070   | 2,26,696-0    |
| 1                          | ...        | ...          | 1             | 2            | ...            | ...     | 6       | 208           |
| 5                          | ...        | ...          | 5-0           | 3            | ...            | ...     | 30-0    | ...           |
| 5                          | ...        | ...          | ...           | 6            | ...            | ...     | ...     | ...           |
| 9-6                        | ...        | ...          | 5-0           | 19-14        | ...            | ...     | 180-0   | 6,466-0       |
| 3                          | 1          | 11           | 3             | 9            | ...            | ...     | ...     | 478           |
| 5                          | 5          | 5            | 5-0           | 3            | ...            | ...     | ...     | ...           |
| 15                         | 5          | 55           | ...           | 27           | ...            | ...     | ...     | ...           |
| 28-2                       | 8-2        | 55-0         | 15-0          | 89-7         | ...            | ...     | ...     | 8,016-0       |
| 10                         | 19         | 34           | 19            | 5            | ...            | ...     | ...     | 3,168         |
| 4                          | 4          | 4            | 4-0           | 3            | ...            | ...     | ...     | ...           |
| 40                         | 76         | 136          | ...           | 15           | ...            | ...     | ...     | ...           |
| 75-0                       | 123-8      | 136-0        | 76-0          | 49-11        | ...            | ...     | ...     | 52,468-0      |
| ...                        | ...        | 4            | 4             | ...          | ...            | ...     | ...     | 321           |
| ...                        | ...        | 4            | 4-0           | ...          | ...            | ...     | ...     | ...           |
| ...                        | ...        | 16           | ...           | ...          | ...            | ...     | ...     | ...           |
| ...                        | ...        | 16-0         | 16-0          | ...          | ...            | ...     | ...     | 5,352-0       |
| 46                         | 79         | 137          | 72            | 31           | ...            | ...     | ...     | 2,691         |
| 3                          | 3          | 3            | 3-0           | 3            | ...            | ...     | ...     | ...           |
| 138                        | 237        | 411          | ...           | 93           | ...            | ...     | ...     | ...           |
| 258-12                     | 385-2      | 411-0        | 216-0         | 308-1        | ...            | ...     | ...     | 28,392-0      |
| 68                         | 356        | 188          | 54            | 60           | ...            | ...     | 1       | 1,790         |
| 24                         | 24         | 24           | 2-0           | 2            | ...            | ...     | 4-0     | ...           |
| 170                        | 890        | 470          | ...           | 120          | ...            | ...     | ...     | ...           |
| 318-12                     | 1,446-4    | 470-0        | 108-0         | 397-8        | ...            | ...     | 4-0     | 10,812-0      |
| 116                        | 287        | 583          | 125           | 61           | ...            | ...     | 1       | 2,842         |
| 2                          | 2          | 2            | 2-0           | 2            | ...            | ...     | 4-0     | ...           |
| 232                        | 574        | 1,166        | ...           | 122          | ...            | ...     | ...     | ...           |
| 435-0                      | 932-12     | 1,166-0      | 250-0         | 404-2        | ...            | ...     | 4-0     | 13,837-0      |
| 110                        | 141        | 890          | 188           | 20           | ...            | ...     | 6       | 3,256         |
| 2                          | 2          | 2            | 2-0           | 2            | ...            | ...     | 4-0     | ...           |
| 220                        | 282        | 1,780        | ...           | 40           | ...            | ...     | ...     | ...           |
| 412-8                      | 458-4      | 1,780-0      | 376-0         | 132-8        | ...            | ...     | 24-0    | 13,057-0      |
| 1,537-8                    | 3,354-0    | 4,034-0      | 1,062-0       | 1,401-3      | ...            | ...     | 212-0   | 1,38,400-0    |
| 2                          | ...        | ...          | ...           | ...          | ...            | ...     | ...     | 73            |
| 5                          | ...        | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 10                         | ...        | ...          | ...           | ...          | ...            | ...     | ...     | ...           |
| 18-12                      | ...        | ...          | ...           | ...          | ...            | ...     | ...     | 1,130-0       |
| 3                          | ...        | 4            | 4             | ...          | 2              | ...     | 1       | 157           |
| 5                          | ...        | 5            | 5-0           | ...          | 40             | ...     | 6-0     | ...           |
| 15                         | ...        | 20           | ...           | ...          | 80             | ...     | ...     | ...           |
| 28-2                       | ...        | 20-0         | 20-0          | ...          | 80-0           | ...     | 6-0     | 2,791-0       |
| 3                          | 3          | 6            | 4             | ...          | 3              | ...     | 1       | 832           |
| 4                          | 4          | 4            | 4-0           | ...          | 40             | ...     | 6-0     | ...           |
| 12                         | 12         | 24           | ...           | ...          | 120            | ...     | ...     | ...           |
| 22-8                       | 19-8       | 24-0         | 16-0          | ...          | 120-0          | ...     | 6-0     | 15,129-0      |

| 1                    | 2                            | 3                                | 19   | 20           | 21            | 22      | 23      | 24          |
|----------------------|------------------------------|----------------------------------|--|--------------|---------------|---------|---------|-------------|
| ASSESSMENT CIRCLE.   | Soil with area in acres.     | DETAIL.                          | CROPS WITH COMMUTATION PRICES IN ANNAS PER MAUND—conold. |              |               |         |         |             |
|                      |                              |                                  | Rabi.  |              |               |         |         |             |
|                      |                              |                                  | Wheat (29).  | Barley (48). | Sarabaf (40). | Pulses. | Others. | Total Rabi. |
| RASH—conold.         | Rakkar and kalsi (3,044).    | Area ... ..                      | 396  | 343          | 39            | 48      | ...     | 826         |
|                      |                              | Yield per acre ... ..            | 4  | 5            | 2             | 3       | ...     | ...         |
|                      |                              | Total yield ... ..               | 1,584  | 1,715        | 78            | 144     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 2,371  | 1,929-6      | 195           | 252     | ...     | 5,247       |
|                      |                              | Total Circle ...                 | 84,158   | 13,368-6     | 9,727-8       | 3,459-8 | 805     | 111,548     |
| TANAWAL.             | Bagh (150).                  | Area ... ..                      | 77   | 51           | ...           | ...     | 6       | 134         |
|                      |                              | Yield per acre ... ..            | 10   | 11           | ...           | ...     | 30      | ...         |
|                      |                              | Total yield ... ..               | 770  | 561          | ...           | ...     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 1,395-10   | 631-2        | ...           | ...     | 180     | 2,207       |
|                      | Other abi (753).             | Area ... ..                      | 205  | 244          | 8             | 1       | 17      | 475         |
|                      |                              | Yield per acre ... ..            | 9½   | 10½          | 5             | 4       | 10      | ...         |
|                      |                              | Total yield ... ..               | 1,947½   | 2,562        | 40            | 4       | ...     | ...         |
|                      |                              | Value of total produce in rupees | 3,529-13½  | 2,982-4      | 100           | 7       | 170     | 6,689       |
|                      | Bari (3,880).                | Area ... ..                      | 1,269  | 1,988        | 228           | 3       | 1       | 3,489       |
|                      |                              | Yield per acre ... ..            | 8½   | 10           | 5             | 4       | 10      | ...         |
|                      |                              | Total yield ... ..               | 10,786½  | 19,880       | 1,140         | 12      | ...     | ...         |
|                      |                              | Value of total produce in rupees | 19,550-8½  | 23,365       | 2,850         | 21      | 10      | 44,797      |
|                      | Kund of negar (453).         | Area ... ..                      | 346  | 126          | ...           | ...     | ...     | 472         |
|                      |                              | Yield per acre ... ..            | 8  | 9½           | ...           | ...     | ...     | ...         |
|                      |                              | Total yield ... ..               | 2,768  | 1,197        | ...           | ...     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 5,017  | 1,346-10     | ...           | ...     | ...     | 6,364       |
|                      | Other kund, maira I (3,240). | Area ... ..                      | 1,202  | 1,698        | 57            | 6       | 1       | 2,964       |
|                      |                              | Yield per acre ... ..            | 6  | 7½           | 3             | 3       | 4       | ...         |
|                      |                              | Total yield ... ..               | 7,212  | 12,785       | 171           | 18      | ...     | ...         |
|                      |                              | Value of total produce in rupees | 13,071-12  | 14,326-14    | 427-8         | 31-8    | 4       | 27,862      |
|                      | Maira II (6,482).            | Area ... ..                      | 2,574  | 1,873        | 57            | 51      | ...     | 4,555       |
|                      |                              | Yield per acre ... ..            | 4  | 5            | 2             | 2       | ...     | ...         |
|                      |                              | Total yield ... ..               | 10,296   | 9,865        | 114           | 102     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 18,661-8   | 10,535-10    | 285           | 178-8   | ...     | 29,661      |
|                      | Rakkar (7,254).              | Area ... ..                      | 1,430  | 2,666        | 71            | 73      | 1       | 4,241       |
|                      |                              | Yield per acre ... ..            | 3  | 4            | 2             | 2       | 4       | ...         |
|                      |                              | Total yield ... ..               | 4,290  | 10,664       | 142           | 146     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 7,775-10   | 11,997       | 355           | 255-8   | 4       | 20,387      |
|                      | Kalsi (5,940).               | Area ... ..                      | 511  | 1,746        | 25            | 13      | ...     | 2,294       |
|                      |                              | Yield per acre ... ..            | 3  | 4            | 2             | 2       | ...     | ...         |
|                      |                              | Total yield ... ..               | 1,533  | 6,984        | 50            | 24      | ...     | ...         |
|                      |                              | Value of total produce in rupees | 2,778-9  | 7,857        | 125           | 42      | ...     | 10,803      |
|                      |                              | Total circle ...                 | 71,780-7   | 71,941-8     | 4,142-8       | 535-8   | 368     | 148,770     |
| NARA LOBA (a)-NILIN. | Hotar (79).                  | Area ... ..                      | 4  | 9            | ...           | ...     | ...     | 13          |
|                      |                              | Yield per acre ... ..            | 9  | 10           | ...           | ...     | ...     | ...         |
|                      |                              | Total yield ... ..               | 36   | 90           | ...           | ...     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 65-4   | 101-4        | ...           | ...     | ...     | 166         |
|                      | Other abi (190).             | Area ... ..                      | 31   | 24           | 3             | ...     | 1       | 59          |
|                      |                              | Yield per acre ... ..            | 9  | 10           | 5             | ...     | 6       | ...         |
|                      |                              | Total yield ... ..               | 279  | 240          | 15            | ...     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 505-11   | 270          | 37-8          | ...     | 6       | 819         |
|                      | Bari (900).                  | Area ... ..                      | 234  | 315          | 38            | ...     | ...     | 537         |
|                      |                              | Yield per acre ... ..            | 8  | 9            | 4             | ...     | ...     | ...         |
|                      |                              | Total yield ... ..               | 1,872  | 2,835        | 152           | ...     | ...     | ...         |
|                      |                              | Value of total produce in rupees | 3,393  | 3,189-6      | 380           | ...     | ...     | 6,963       |

E—continued.

| 25                     | 26                                   | 27                | 28  | 29                   | 30                   | 31              | 32   | 33         | 34         | 35                     |
|------------------------|--------------------------------------|-------------------|---|----------------------|----------------------|-----------------|--|------------|------------|------------------------|
| Total Kharif and Rabi. | After deduction 7 per cent. kamiana. | Landlord's share. | Government share, viz., half previous column. | Resulting crop rate. | Resulting soil rate. | Cash rent rate. | AFTER DEDUCTION FOR<br>MATURED AREA<br>BEING ABOVE<br>AVERAGE. |            |            | REMARKS.               |
|                        |                                      |                   |   |                      |                      |                 | Government share.  | Crop rate. | Soil rate. |                        |
| 2,666                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 15,948                 | 14,832                               | 5,933             | 2,966   | 1.2                  | 1.0                  | 0.12            | ...  | ...        | ...        |                        |
| 3,38,244               | 3,14,567                             | 1,38,411          | 69,205  | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 340                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 8,673                  | 8,066                                | 4,033             | 2,016   | 5.15                 | 13.7                 | 24.8            | ...  | ...        | ...        |                        |
| 953                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 14,705                 | 13,676                               | 6,838             | 3,419   | 3.9                  | 4.9                  | 3.14            | ...  | ...        | ...        |                        |
| 6,657                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 97,265                 | 90,456                               | 45,228            | 22,614  | 3.6                  | 5.13                 | 1.10            | 18,996   | 2.14       | 4.14       | Deduction 16 per cent. |
| 793                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 11,716                 | 10,896                               | 5,448             | 2,724   | 3.7                  | 6                    | ...             | 2,288  | 2.14       | 5.1        | Deduction 16 per cent. |
| 5,655                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 56,254                 | 52,316                               | 20,926            | 10,463  | 1.14                 | 3.4                  | ...             | 8,789  | 1.9        | 2.11       | Deduction 16 per cent. |
| 6,345                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 40,473                 | 37,640                               | 15,056            | 7,528   | 1.3                  | 1.3                  | ...             | 6,324  | 1          | 1          | Deduction 16 per cent. |
| 7,083                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 34,224                 | 31,828                               | 10,609            | 5,305   | 0.12                 | 0.12                 | 0.9             | 4,456  | 0.10       | 0.10       | Deduction 16 per cent. |
| 5,550                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 23,860                 | 22,190                               | 7,397             | 3,698   | 0.11                 | 0.10                 | ...             | 2,106  | 0.9        | 0.8        | Deduction 16 per cent. |
| 2,87,170               | 2,67,068                             | 1,15,535          | 57,767  | ...                  | ...                  | ...             | 49,394   | ...        | ...        |                        |
| 86                     | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 1,296                  | 1,205                                | 602               | 301   | 3.8                  | 3.13                 | 1.13            | ...  | ...        | ...        |                        |
| 216                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 3,610                  | 3,357                                | 1,678             | 839   | 3.14                 | 4.7                  | ...             | ...  | ...        | ...        |                        |
| 1,419                  | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| ...                    | ...                                  | ...               | ...   | ...                  | ...                  | ...             | ...  | ...        | ...        |                        |
| 22,091                 | 20,545                               | 10,272            | 5,136   | 3.10                 | 5.11                 | ...             | 4,879  | 3.7        | 5.7        | Deduction 5 per cent.  |